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DOOR & LOCK

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH I-KEY, WITHOUT SUPER LOCK]

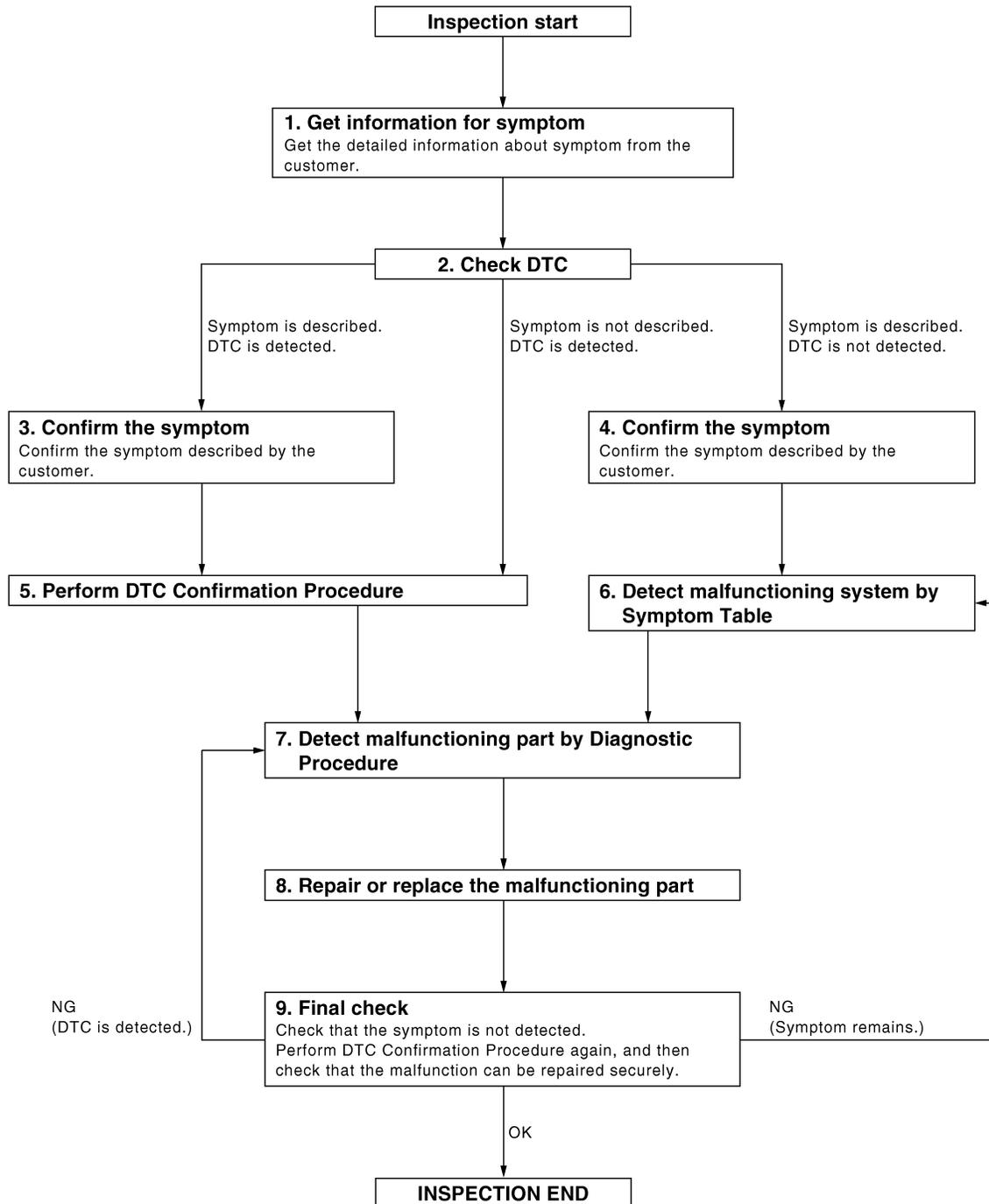
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

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OVERALL SEQUENCE



DETAILED FLOW

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH I-KEY, WITHOUT SUPER LOCK]

1.GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2.CHECK DTC

1. Check DTC for Intelligent Key unit and BCM.
2. Perform the following procedure if DTC is displayed.
 - Erase DTC.
 - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

- Symptom is described, DTC is displayed>>GO TO 3.
- Symptom is described, DTC is not displayed>>GO TO 4.
- Symptom is not described, DTC is displayed>>GO TO 5.

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real-time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real-time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.
If two or more DTCs are detected, refer to [DLK-169, "DTC Inspection Priority Chart"](#) (Intelligent Key unit), [DLK-210, "DTC Inspection Priority Chart"](#) (BCM) and determine trouble diagnosis order.

Is DTC detected?

- YES >> GO TO 7.
- NO >> Refer to [GI-39, "Intermittent Incident"](#).

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to Symptom Table based on the confirmed symptom in step 4.

>> GO TO 7.

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

The Diagnostic Procedure is described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

>> GO TO 8.

8.REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
3. Check DTC. If DTC is displayed, erase it.

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH I-KEY, WITHOUT SUPER LOCK]

>> GO TO 9.

9. FINAL CHECK

When DTC was detected in step 9, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunctions have been fully repaired.

When symptom was described by the customer, refer to the confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Are all malfunctions corrected?

NO (DTC is detected)>>GO TO 7.

NO (Symptom remains)>>GO TO 6.

YES >> **INSPECTION END**

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITH I-KEY, WITHOUT SUPER LOCK]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

A

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

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B

Perform the system initialization when replacing Intelligent Key unit, replacing Intelligent Key or registering an additional Intelligent Key.

C

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

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D

Refer to the CONSULT-III Operation Manual-NATS.

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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

FUNCTION DIAGNOSIS

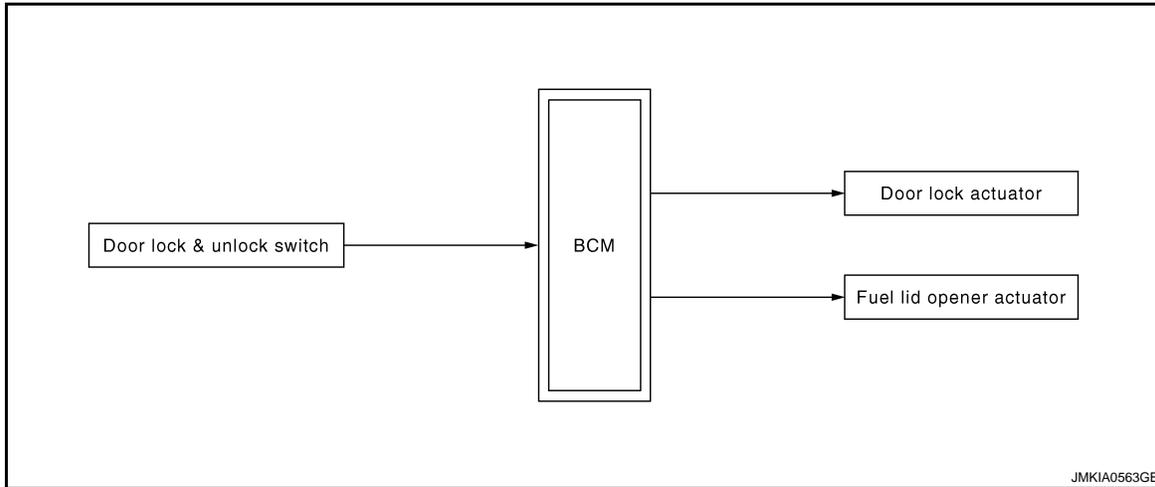
DOOR LOCK FUNCTION

DOOR LOCK AND UNLOCK SWITCH

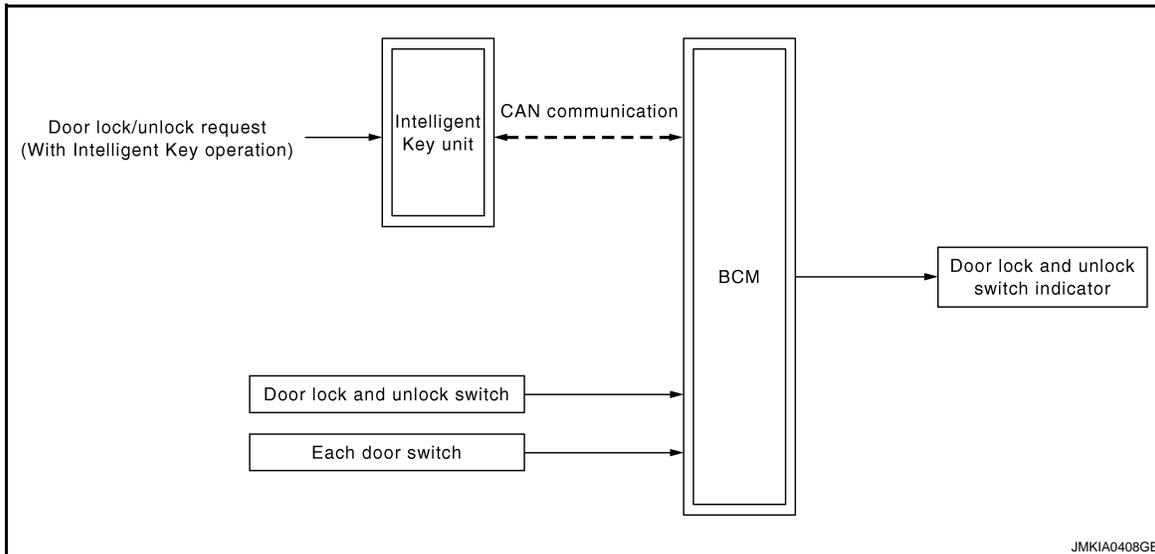
DOOR LOCK AND UNLOCK SWITCH : System Diagram

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DOOR LOCK AND UNLOCK SWITCH OPERATION



DOOR LOCK AND UNLOCK SWITCH INDICATOR OPERATION



DOOR LOCK AND UNLOCK SWITCH : System Description

INFOID:000000001280391

DOOR LOCK AND UNLOCK SWITCH OPERATION

Functions are available by operating the door lock and unlock switch on driver door. Interlocked with the lock/unlock operation of door lock and unlock switch, door lock actuators of all doors are locked/unlocked.

Operation Condition

If the following conditions are not satisfied, door lock/unlock operation is not performed even if the door lock and unlock switch is operated.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Door lock and unlock switch	Operation condition
Lock operation	All of the following conditions are satisfied. <ul style="list-style-type: none">• Except driver side doors are closed.• Doors are not locked with Intelligent Key or door request switch.
Unlock operation	All of the following conditions are satisfied. <ul style="list-style-type: none">• Doors are not locked with Intelligent Key or door request switch.

NOTE:

When the door lock is locked with Intelligent Key or door request switch, door lock and unlock switch operation will be invalid until either of the following conditions is satisfied.

- Turn ignition switch ON.
- Unlock with Intelligent Key or door request switch.

DOOR LOCK AND UNLOCK SWITCH INDICATOR OPERATION

Door lock and unlock switch indicator indicates door lock status. The indicator turns ON while ignition switch is ON and each door lock is locked. If any door is opened, the indicator will turn OFF.

1 Minute Timer

A timer to turn OFF the indicator will run for 1 minute after locking with Intelligent Key, door request switch or auto door lock.

30 Minutes Timer

A timer to turn OFF the indicator will run for 30 minutes after locking with door lock and unlock switch.

NOTE:

1minute timer condition is satisfied while the 30 minutes timer is active, however the 30 minutes timer does not change to 1 minute timer condition.

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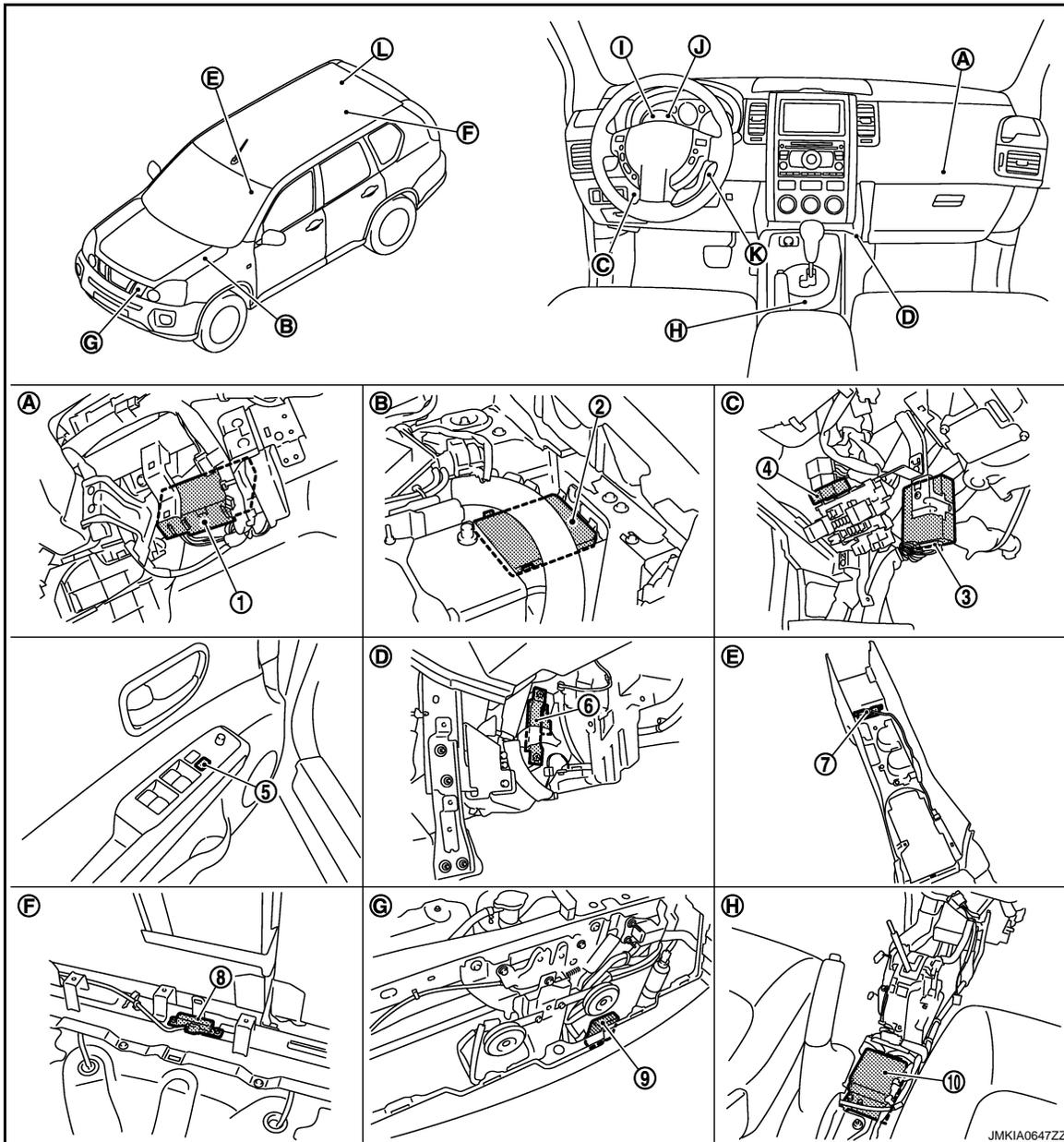
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH : Component Parts Location

INFOID:000000001394648

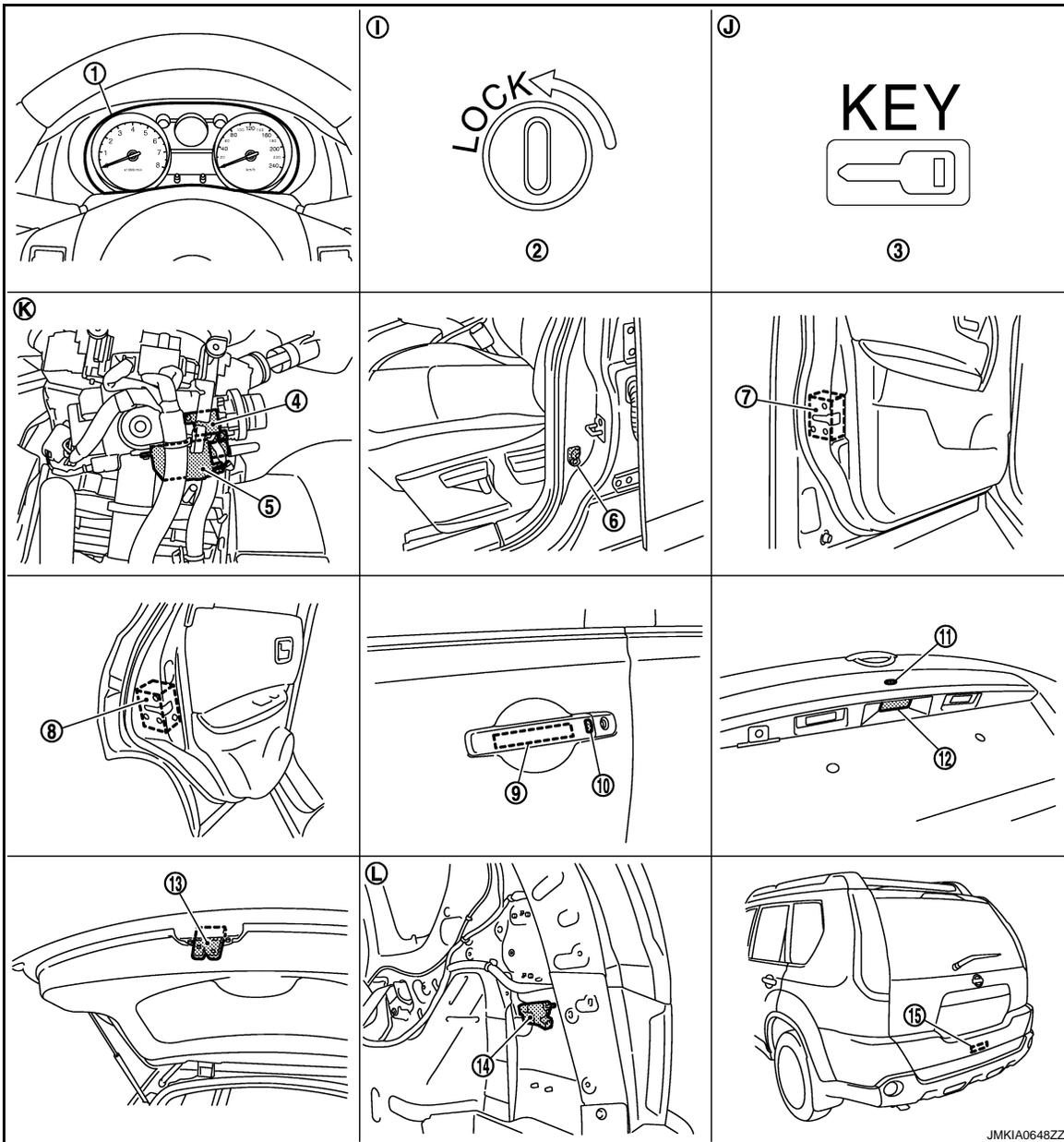


- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Power window main switch (door lock and
unlock switch)
D5, D6 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Over the instrument lower panel (driver
side) | C. View with front bumper removed |
| D. View with lower instrument cover re-
moved | E. View with center console rear finisher re-
moved | F. View with luggage floor spacer (LH)
removed |
| G. View with rear bumper fascia removed | H. View with fuse box lid removed | |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]



- | | | |
|--|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (driver side)
B34 |
| 7. Front door lock actuator (driver side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column cover re-
moved |
| L. View with luggage side lower finisher
(RH) removed. | | |

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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH : Component Description

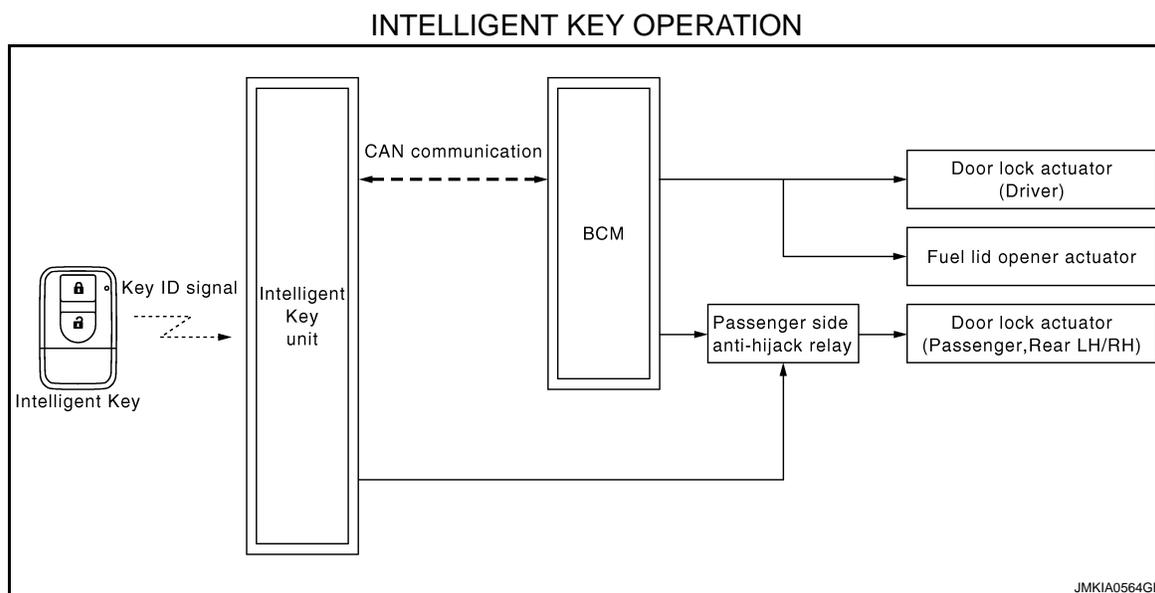
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Item	Function
BCM	Controls the door lock function.
Door switch	Detects door state (open or close).
Door lock and unlock switch	Transmits door lock/unlock signal to BCM. Door lock/unlock switch indicator is built-in door lock and unlock switch.
Door lock actuator	Receives door lock/unlock signal from BCM and locks/unlocks each door.

INTELLIGENT KEY

INTELLIGENT KEY : System Diagram

INFOID:000000001280394



INTELLIGENT KEY : System Description

INFOID:000000001280395

INTELLIGENT KEY OPERATION

The Intelligent Key has the same functions as the multi remote control system. Therefore, it can be used in the same manner as the keyfob by operating the door lock/unlock button.

This function can be set to OFF with CONSULT-III. For the setting information, refer to [DLK-67. "CONSULT-III Function \(INTELLIGENT KEY\)".](#)

OPERATION CONDITION

Remote controller operation	Operation condition
Lock	<ul style="list-style-type: none"> All doors are closed Key switch is OFF (key is removed from ignition key cylinder) Ignition knob switch is OFF (Ignition switch is not pressed)
Unlock	<ul style="list-style-type: none"> Key switch is OFF (key is removed from ignition key cylinder) Ignition knob switch is OFF (Ignition switch is not pressed)

OPERATION AREA

To ensure that the Intelligent Key works effectively, use within a 100 cm range of each door, however the operable range may differ according to surroundings.

DOOR LOCK AND UNLOCK CONTROL

When door lock and unlock button of the Intelligent Key are pressed, lock signal or unlock signal is transmitted from Intelligent Key to Intelligent Key unit.

When Intelligent Key unit receives the door lock and unlock signal, it operates door lock actuator.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

ANTI-HIJACK MODE

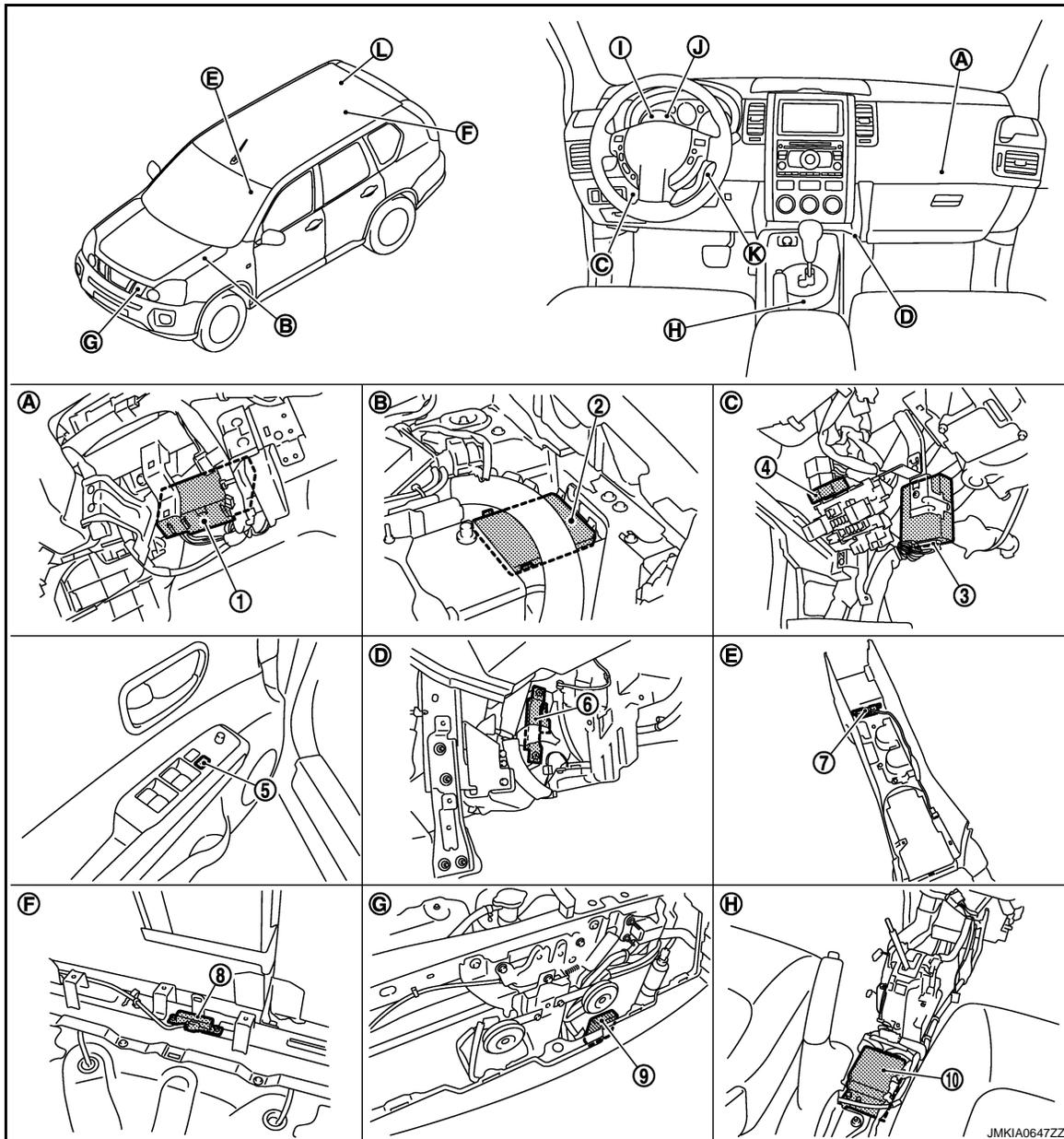
When door lock is unlocked, pressing LOCK button on Intelligent Key once will lock all doors. When door lock is locked, pressing UNLOCK button on Intelligent Key door will unlock driver side door. Pressing UNLOCK button on Intelligent Key a second time within 5 seconds from the first time will unlock all doors and back door can be opened with back door opener switch.

NOTE:

Anti-hijack mode can be set to ON or OFF with CONSULT-III. For the setting information, refer to [DLK-67, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

INTELLIGENT KEY : Component Parts Location

INFOID:000000001394651



- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Power window main switch (door lock and
unlock switch)
D5, D6 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |

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DOOR LOCK FUNCTION

[WITH I-KEY, WITHOUT SUPER LOCK]

< FUNCTION DIAGNOSIS >

10. Air bag diagnosis sensor unit
M59

A. Over the glove box

B. Over the instrument lower panel (driver side)

C. View with front bumper removed

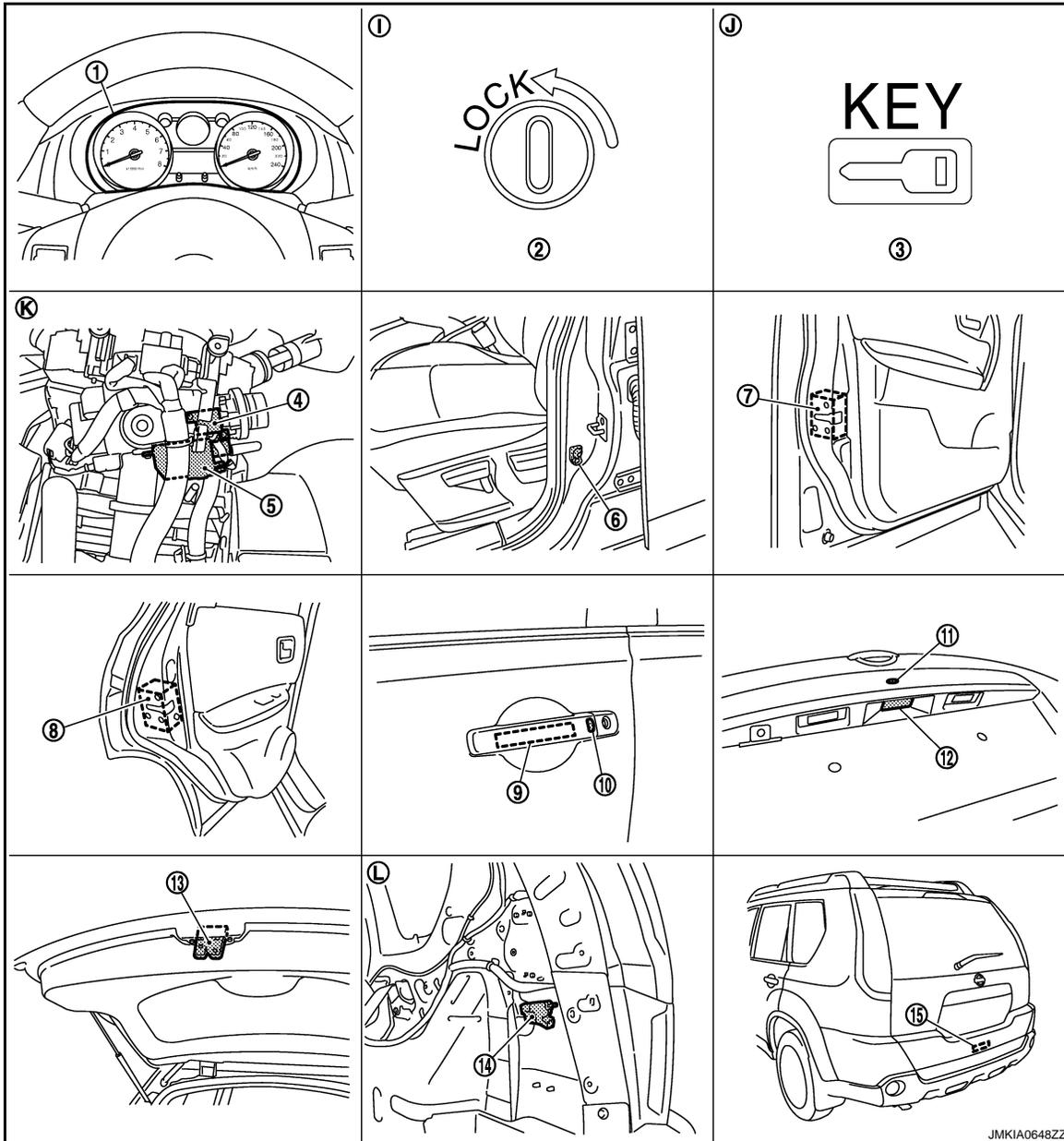
D. View with lower instrument cover removed

E. View with center console rear finisher removed

F. View with luggage floor spacer (LH) removed

G. View with rear bumper fascia removed

H. View with fuse box lid removed



1. Combination meter
M34

2. Lock warning lamp
M34

3. Key warning lamp
M34

4. Ignition knob switch, key switch and key lock solenoid (key switch)
M25

5. Ignition knob switch, key switch and key lock solenoid (key lock solenoid)
M25

6. Front door switch (driver side)
B34

7. Front door lock actuator (driver side)
D9

8. Rear door lock actuator LH
D85

9. Out side key antenna and front door request switch (driver side)
D10

10. Out side key antenna and front door request switch (driver side)
D10

11. Back door opener switch assembly (request switch)
D187

12. Back door opener switch assembly (opener switch)
D187

DOOR LOCK FUNCTION

[WITH I-KEY, WITHOUT SUPER LOCK]

< FUNCTION DIAGNOSIS >

- | | | |
|---|-------------------------------------|---|
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column cover re-
moved |
| L. View with luggage side lower finisher
(RH) removed. | | |

INTELLIGENT KEY : Component Description

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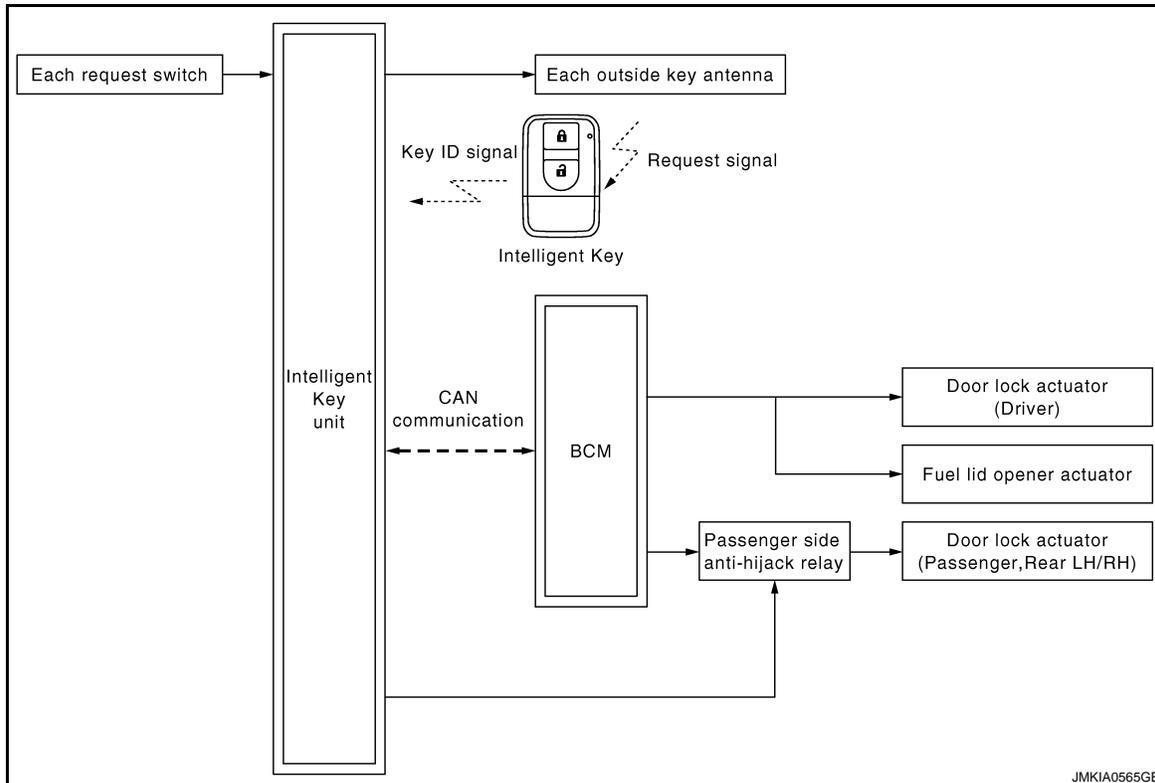
Item	Function
Intelligent Key unit	Controls the door lock/unlock operation with BCM.
BCM	Controls the door lock/unlock operation with Intelligent Key unit.
Door switch	Detects door state (open or closed).
Key switch	Detects that mechanical key is inserted into ignition key cylinder.
Ignition knob switch	Detects ignition knob state (push or release).
Outside key antenna	Detects that Intelligent Key is in detection area of outside key antenna.
Intelligent Key	Transmits key ID to Intelligent Key unit when lock/unlock button is pressed.
Passenger side anti-hijack relay	Controls the circuit of door lock actuator (passenger side, rear LH/RH).
Door lock actuator	Receives lock/unlock signal from BCM and locks and unlocks each door.

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH : System Diagram

INFOID:000000001280398

DOOR REQUEST SWITCH OPERATION



DOOR REQUEST SWITCH : System Description

INFOID:000000001280399

DOOR REQUEST SWITCH OPERATION

Only when pressing the request switch, it is possible to lock and unlock the door by carrying the Intelligent Key. The Intelligent Key system is a system that makes it possible to lock and unlock the door by carrying the

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Intelligent Key, which operates based on the results of electronic ID verification using two-way communications between the Intelligent Key and the vehicle (Intelligent Key unit).

This function can be set to OFF with CONSULT-III. For the setting information, refer to [DLK-67. "CONSULT-III Function \(INTELLIGENT KEY\)".](#)

CAUTION:

The driver should always carry the Intelligent Key

OPERATION CONDITION

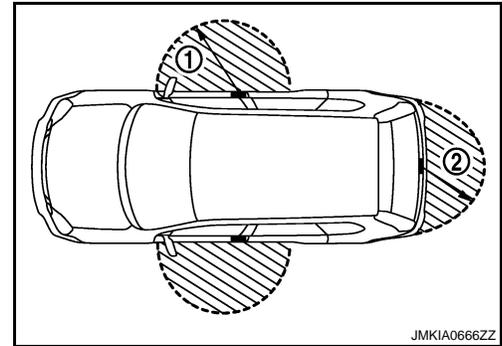
If the following conditions are not satisfied, door lock and unlock operation is not performed even if the request switch is operated.

Each request switch operation	Operation condition
Lock operation	<ul style="list-style-type: none">• All doors are closed• Key switch is OFF (Key is removed from ignition key cylinder.)• Ignition knob is OFF or LOCK position• Any Intelligent Key is not inside the vehicle• Intelligent Key is within outside key antenna detection area
Unlock Operation	<ul style="list-style-type: none">• Key switch is OFF (Key is removed from ignition key cylinder.)• Ignition knob is OFF or LOCK position• Intelligent Key is not inside the vehicle*• Intelligent Key is within outside key antenna detection area

*: Even with a registered Intelligent Key remaining inside the vehicle, door locks can be unlocked from outside of the vehicle with a spare Intelligent Key as long as key IDs are different.

OUTSIDE KEY ANTENNA DETECTION AREA

The outside key antenna detection area of door lock and unlock function is in the range of approximately 80 cm (31.50 in) surrounding the driver and passenger door handles (1) and the back door request switch (2). However, this operating range depends on the ambient conditions.



DOOR LOCK AND UNLOCK CONTROL

When the Intelligent Key detects that door request switch is pressed, it starts corresponding with outside key antenna (door of request switch pressed side). Then, the Intelligent Key is checked to be near the door.

If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the Intelligent Key unit. Intelligent Key unit receives the key ID signal and compares it with the registered key ID. Intelligent Key unit sends the door lock and unlock signal to BCM via CAN communication.

ANTI-HIJACK MODE

- When door is unlocked, pressing door request switch (driver or passenger) once will lock all doors. When door is locked, pressing door request switch (driver or passenger) once will unlock operated door. Pressing the door request switch door a second time within 5 seconds from the first time will unlock all doors and back door can be opened with back door opener switch.
- When door is unlocked, pressing door request switch (back door) will lock all doors. When door lock is locked, pressing door request switch (back door) will unlock back door only and back door can be opened with back door opener switch. Pressing back door opener switch a second time within 5 seconds will unlock all doors.

NOTE:

Anti-hijack mode can be set to OFF with CONSULT-III and Intelligent Key. For the setting information, refer to [DLK-67. "CONSULT-III Function \(INTELLIGENT KEY\)".](#)

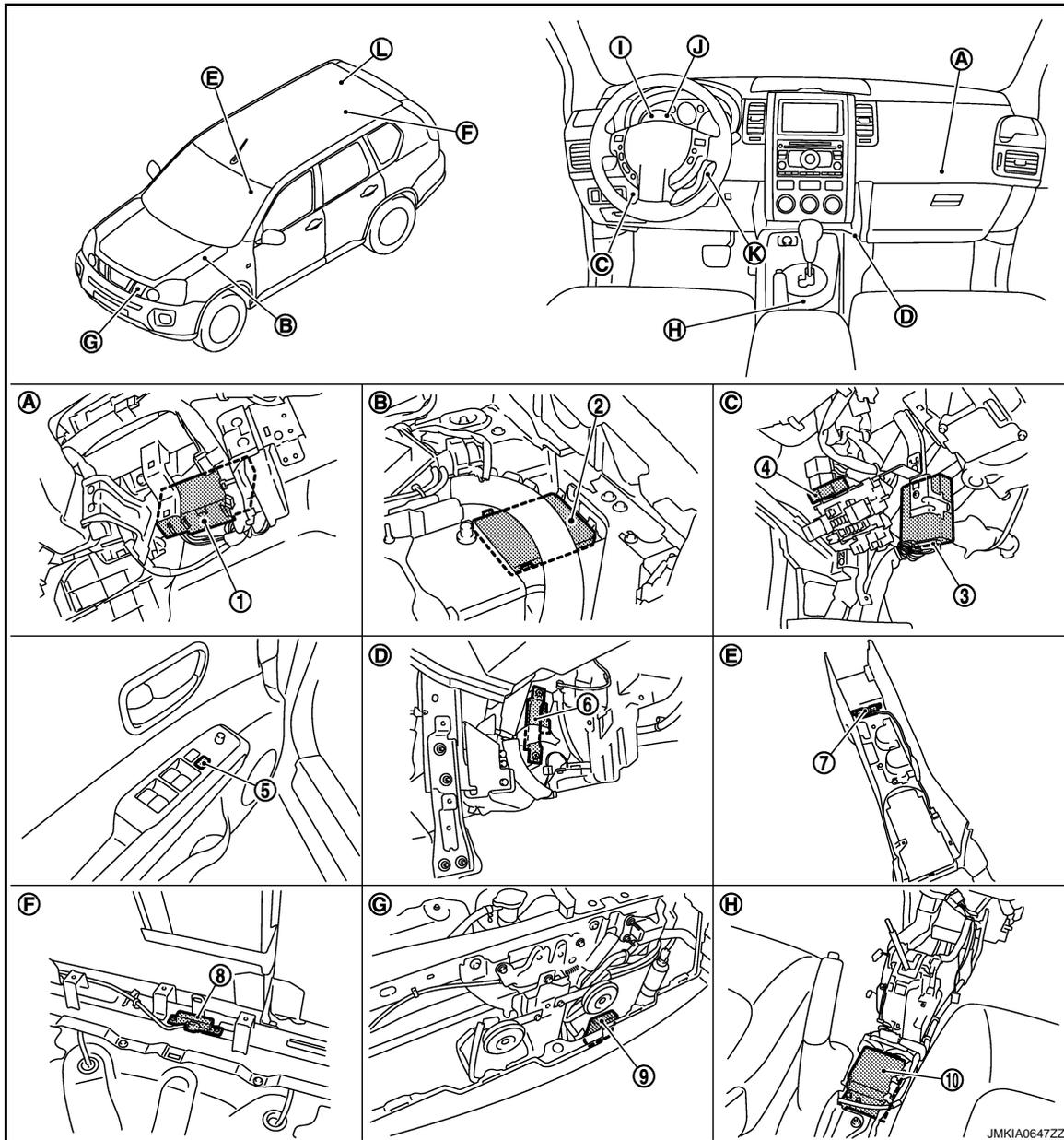
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR REQUEST SWITCH : Component Parts Location

INFOID:000000001394652



- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Power window main switch (door lock and
unlock switch)
D5, D6 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Over the instrument lower panel (driver
side) | C. View with front bumper removed |
| D. View with lower instrument cover re-
moved | E. View with center console rear finisher re-
moved | F. View with luggage floor spacer (LH)
removed |
| G. View with rear bumper fascia removed | H. View with fuse box lid removed | |

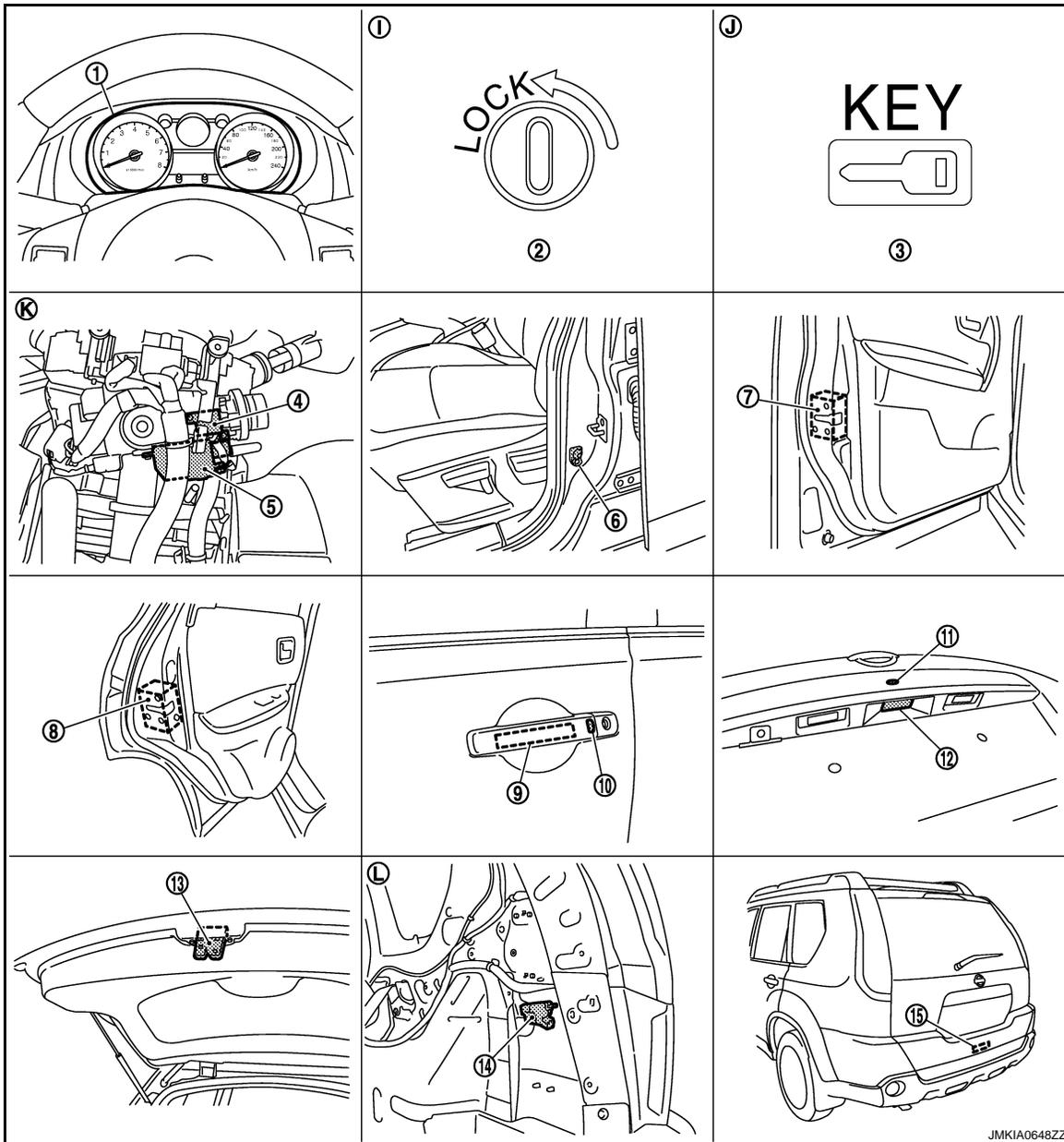
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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]



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- | | | |
|--|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (driver side)
B34 |
| 7. Front door lock actuator (driver side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column
removed |
| L. View with luggage side lower finisher
(RH) removed. | | |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR REQUEST SWITCH : Component Description

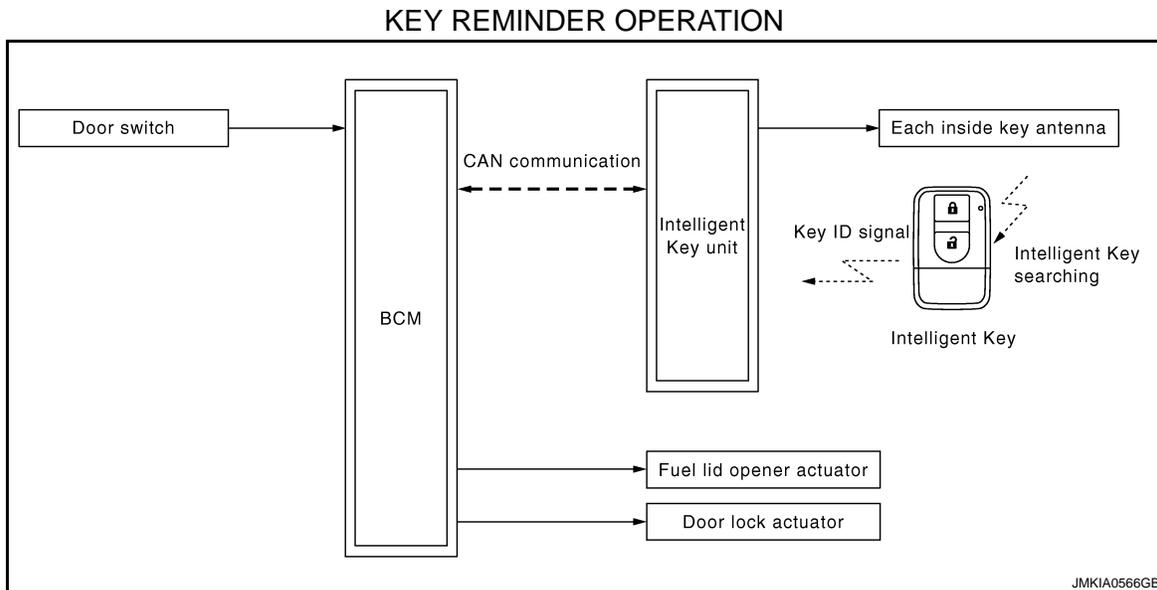
INFOID:000000001280401

Item	Function
Intelligent Key unit	Controls the door lock function with BCM.
BCM	Controls the door lock/unlock function with Intelligent Key unit.
Door request switch	Transmits operation signal (lock and unlock) to Intelligent Key unit.
Door switch	Detects door state (open or closed).
Key switch	Detects that mechanical key is inserted into ignition key cylinder.
Ignition knob switch	Detects ignition knob state (push or release).
Outside key antenna	Detects that Intelligent Key is in detection area of outside key antenna.
Inside key antenna	Detects that Intelligent Key is in detection area of inside key antenna.
Intelligent Key	Transmits key ID to Intelligent Key unit when request signal is received from outside key antenna.
Passenger side anti-hijack relay	Controls the circuit of door lock actuator (passenger side, rear LH/RH).
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.

KEY REMINDER

KEY REMINDER : System Diagram

INFOID:000000001280402



KEY REMINDER : System Description

INFOID:000000001280403

KEY REMINDER OPERATION

Key reminder have the following 2 functions.

Operation	Operation condition	Operation
Driver door close	Right after driver side door is closed under the following conditions. <ul style="list-style-type: none"> • Door lock operation. • Driver side door is opened. • Driver side door is in unlock state. 	All doors unlock
Any door open to all doors close	Right after all doors are closed under the following conditions. <ul style="list-style-type: none"> • Intelligent Key is inside the vehicle. • Any door is opened. • All doors are locked by door lock and unlock switch. 	<ul style="list-style-type: none"> • All doors unlock • Active Intelligent Key warning buzzer

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

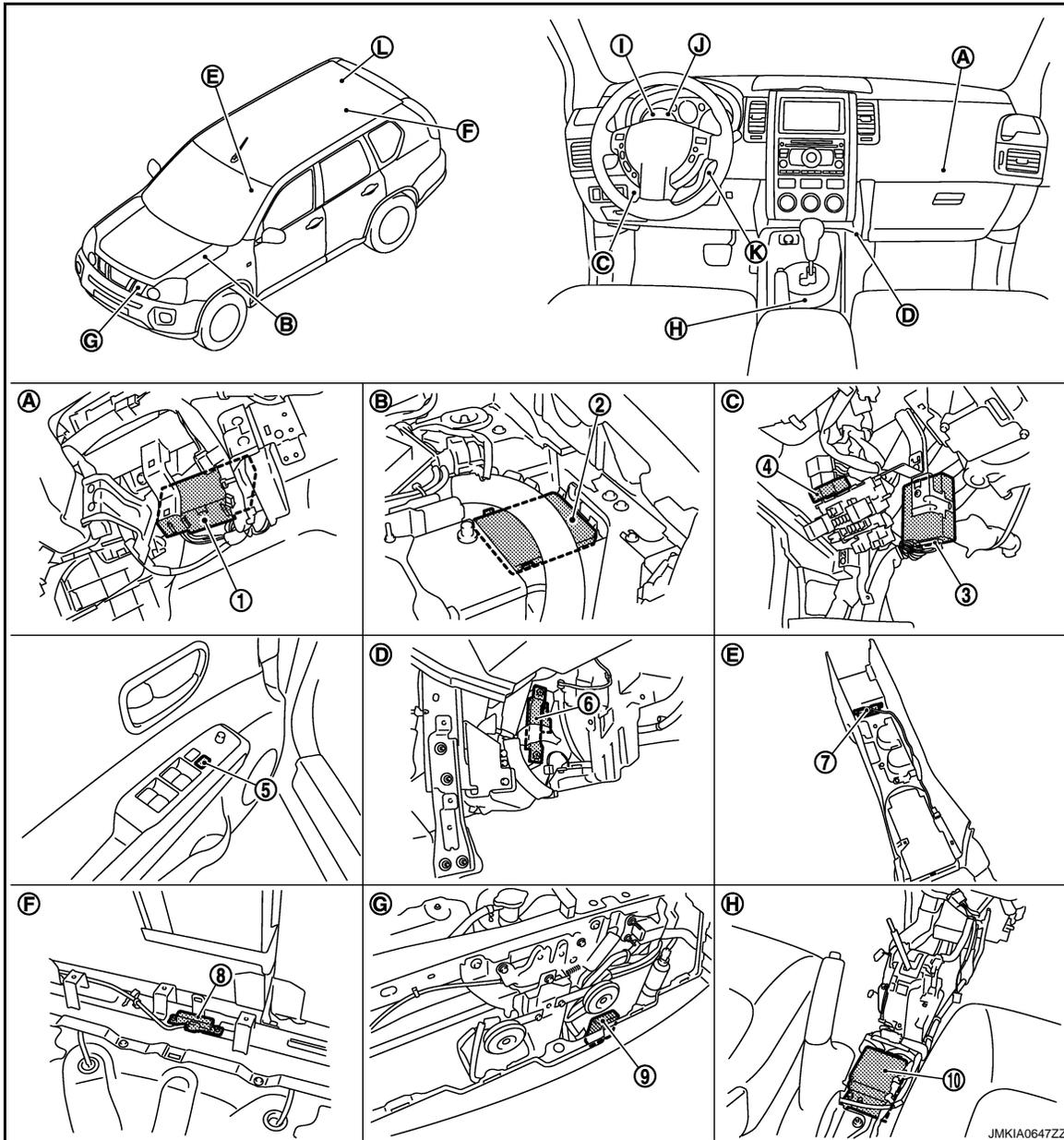
[WITH I-KEY, WITHOUT SUPER LOCK]

CAUTION:

The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function will not operate when the Intelligent Key is on the instrument panel, rear parcel shelf or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket of an open door.

KEY REMINDER : Component Parts Location

INFOID:000000001394653



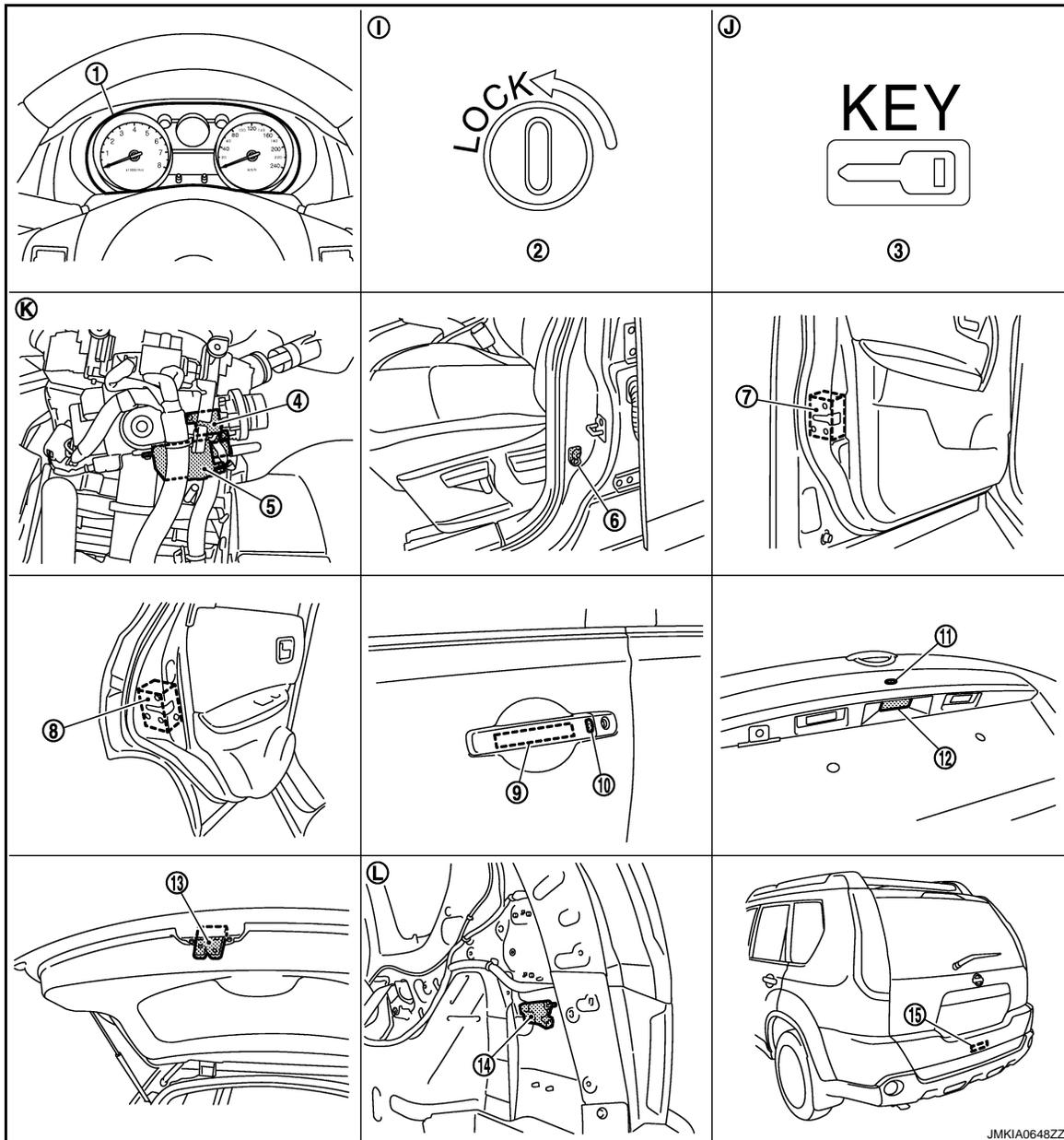
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|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Power window main switch (door lock and
unlock switch)
D5, D6 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Over the instrument lower panel (driver
side) | C. View with front bumper removed |

DOOR LOCK FUNCTION

[WITH I-KEY, WITHOUT SUPER LOCK]

< FUNCTION DIAGNOSIS >

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| D. View with lower instrument cover removed | E. View with center console rear finisher removed | F. View with luggage floor spacer (LH) removed |
| G. View with rear bumper fascia removed | H. View with fuse box lid removed | |



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|---|--|--|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key lock solenoid (key lock solenoid)
M25 | 6. Front door switch (driver side)
B34 |
| 7. Front door lock actuator (driver side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door request switch (driver side)
D10 |
| 10. Out side key antenna and front door request switch (driver side)
D10 | 11. Back door opener switch assembly (request switch)
D187 | 12. Back door opener switch assembly (opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |

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DOOR LOCK FUNCTION

[WITH I-KEY, WITHOUT SUPER LOCK]

< FUNCTION DIAGNOSIS >

- I. Inside the combination meter
- J. Inside the combination meter
- K. View with steering column cover removed
- L. View with luggage side lower finisher (RH) removed.

KEY REMINDER : Component Description

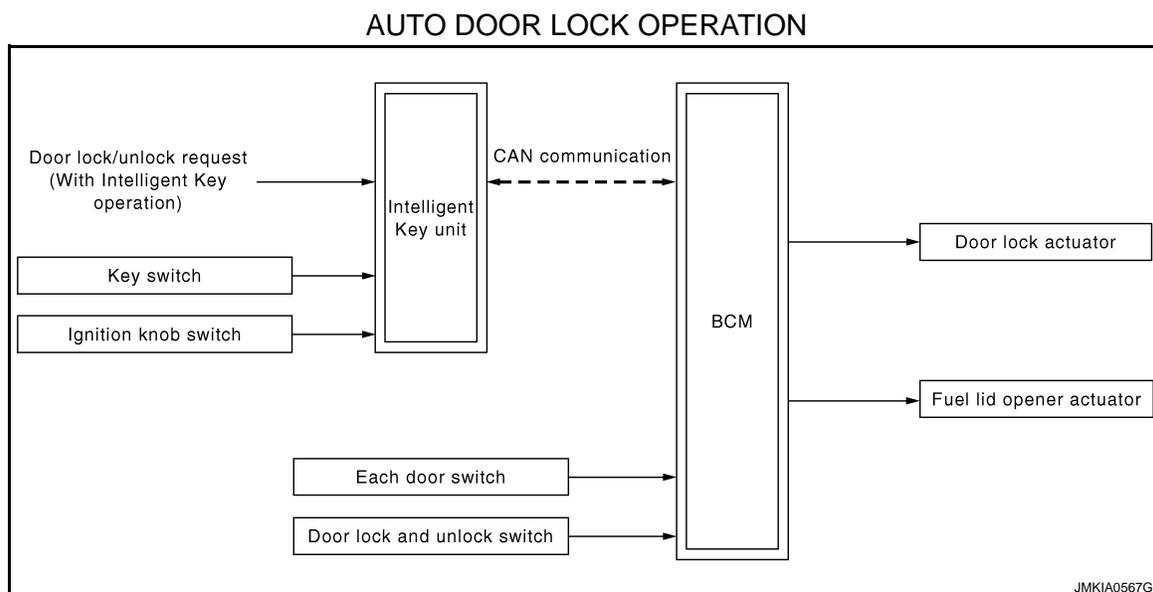
INFOID:000000001280405

Item	Function
Intelligent Key unit	Controls the door lock function with BCM.
BCM	Controls the door lock and unlock operation with Intelligent Key unit.
Door switch	Detects door state (open or closed).
Inside key antenna	Detects that Intelligent Key is in detection area of inside key antenna.
Intelligent Key	Transmits key ID to Intelligent Key unit when Intelligent Key is searching.
Door lock actuator	Receives lock and unlock signal from BCM and locks/unlocks each door.

AUTO DOOR LOCK

AUTO DOOR LOCK : System Diagram

INFOID:000000001280406



AUTO DOOR LOCK : System Description

INFOID:000000001280407

AUTO DOOR LOCK OPERATION

When all doors are locked and then doors are unlocked with Intelligent Key or door request switch, BCM does not receive the following signals within 2 minutes^{*1}, and all doors are automatically locked.

- Any door is opened.
- Ignition knob is pressed.
- Ignition key is inserted into ignition key cylinder.
- Door is locked with Intelligent Key.
- Door is locked/unlocked with door lock and unlock switch.

*1: Auto door lock operation mode can be changed with CONSULT-III. Refer to [DLK-67, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

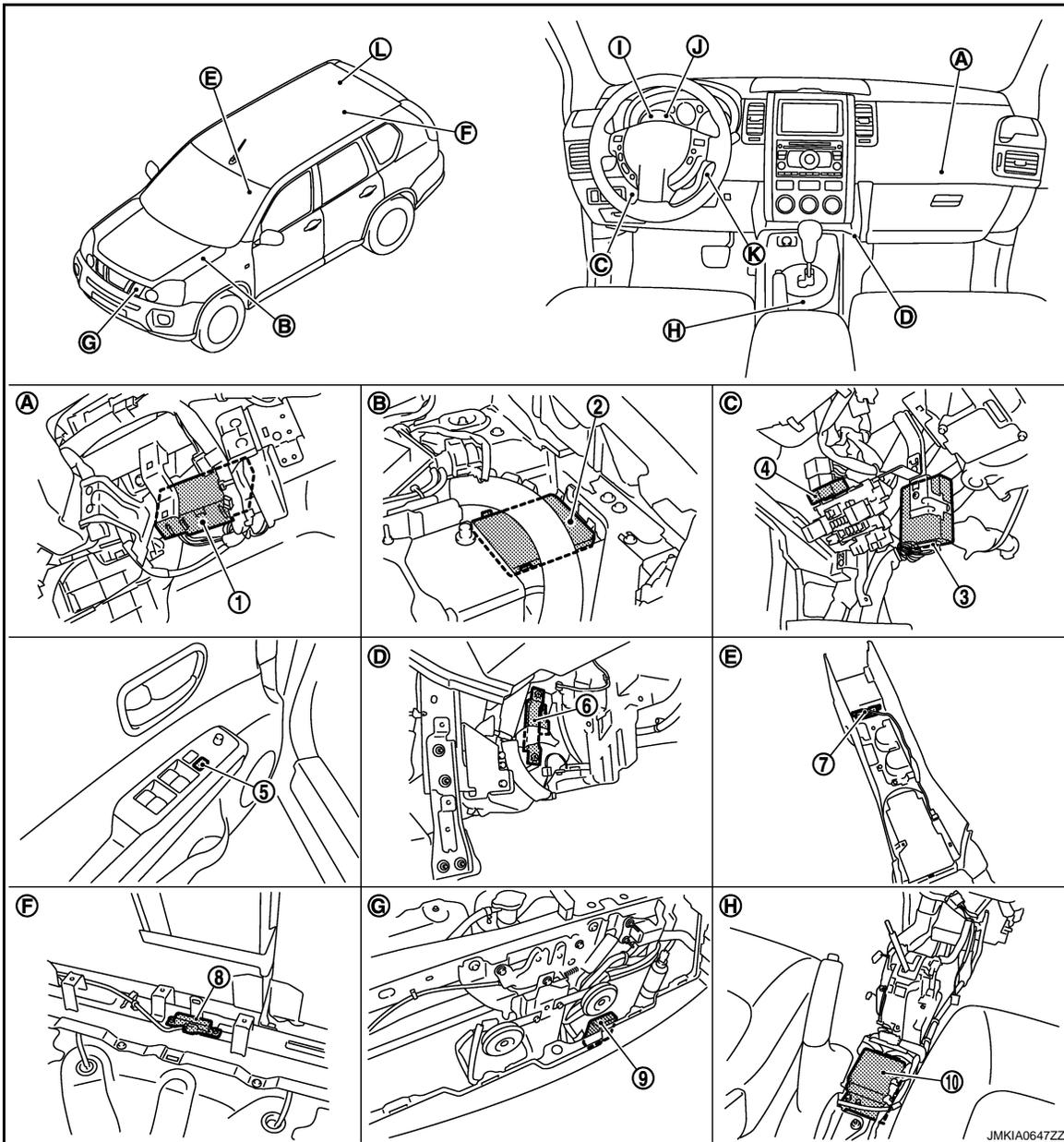
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

AUTO DOOR LOCK : Component Parts Location

INFOID:000000001394654



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|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Power window main switch (door lock and
unlock switch)
D5, D6 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat) | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Over the instrument lower panel (driver
side) | C. View with front bumper removed |
| D. View with lower instrument cover re-
moved | E. View with center console rear finisher re-
moved | F. View with luggage floor spacer (LH)
removed |
| G. View with rear bumper fascia removed | H. View with fuse box lid removed | |

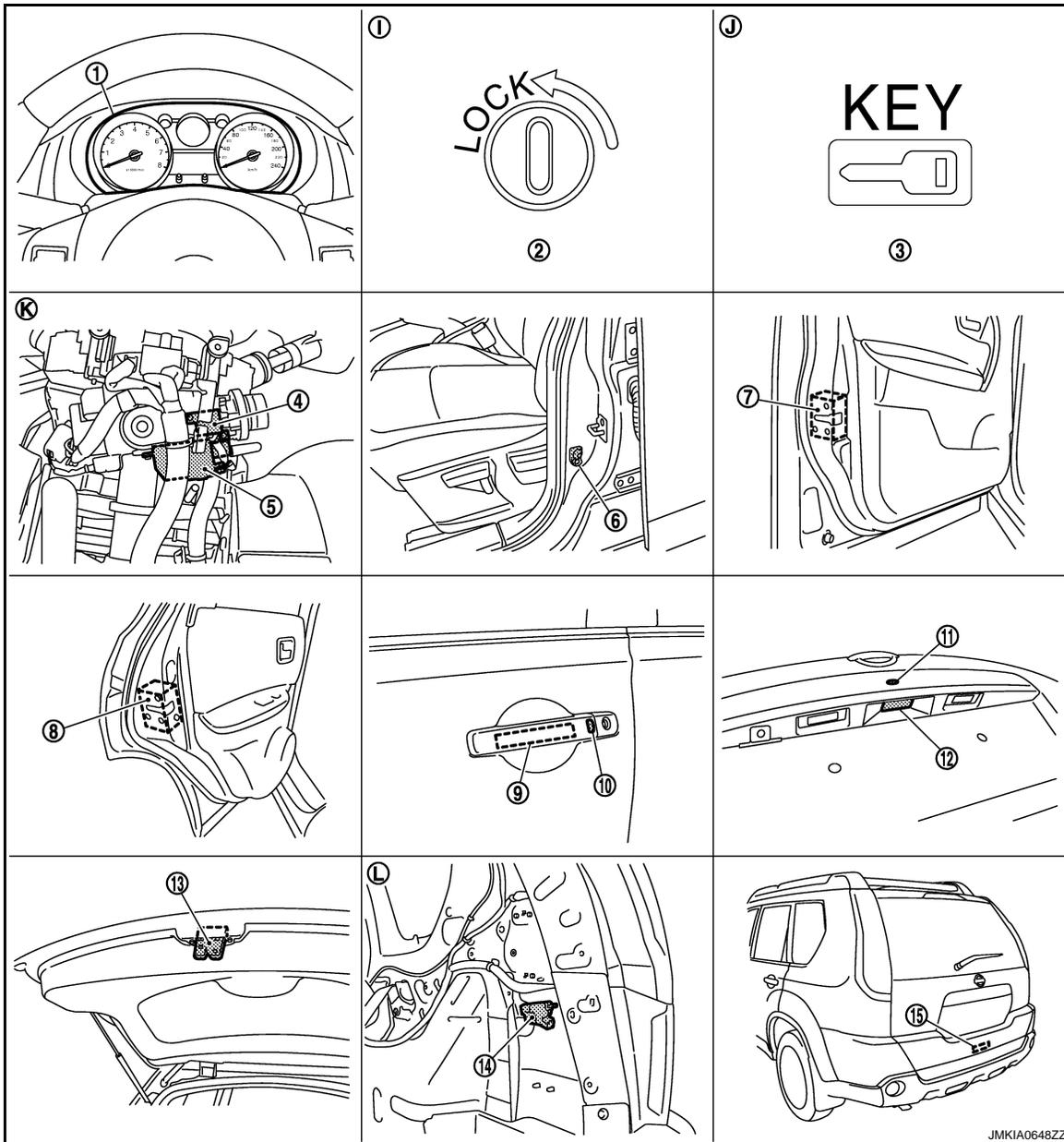
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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]



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- | | | |
|--|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (driver side)
B34 |
| 7. Front door lock actuator (driver side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column
removed |
| L. View with luggage side lower finisher
(RH) removed. | | |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

AUTO DOOR LOCK : Component Description

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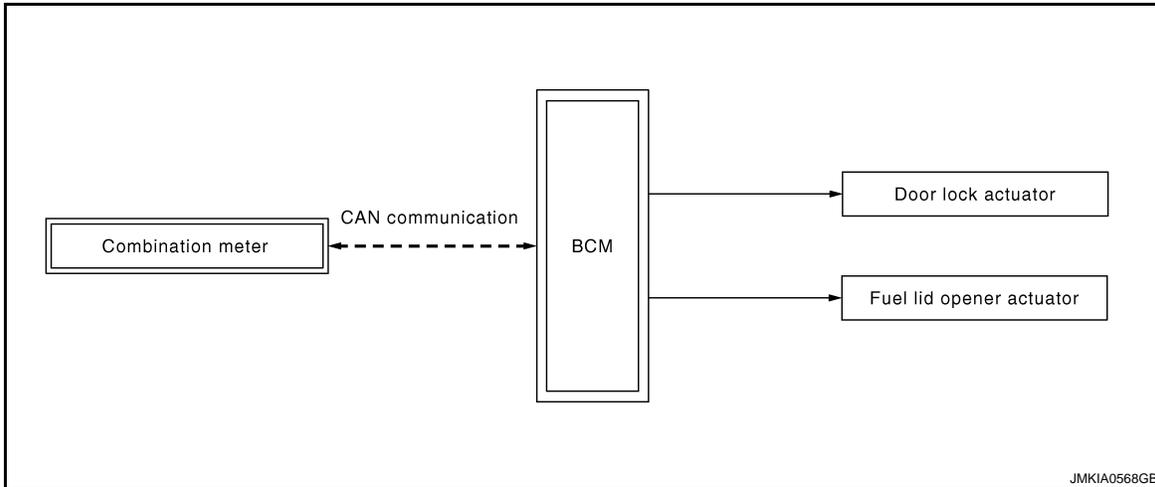
Item	Function
Intelligent Key unit	Controls the door lock function with BCM.
BCM	Controls the door lock function with Intelligent Key unit.
Door switch	Detects door state (open or closed).
Key switch	Detects that mechanical key is inserted into ignition key cylinder.
Ignition knob switch	Detects ignition knob state (push or release).
Door lock and unlock switch	Transmits door lock and unlock signal to BCM.
Door lock actuator	Receives lock and unlock signal from BCM and locks and unlocks each door.

VEHICLE SPEED SENSING AUTO DOOR LOCK

VEHICLE SPEED SENSING AUTO DOOR LOCK : System Diagram

INFOID:000000001280410

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION



VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description

INFOID:000000001280411

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION

When the vehicle speed exceeds 25 km/h (16 MPH), all doors are automatically locked. BCM receives vehicle speed signal from combination meter via CAN communication.

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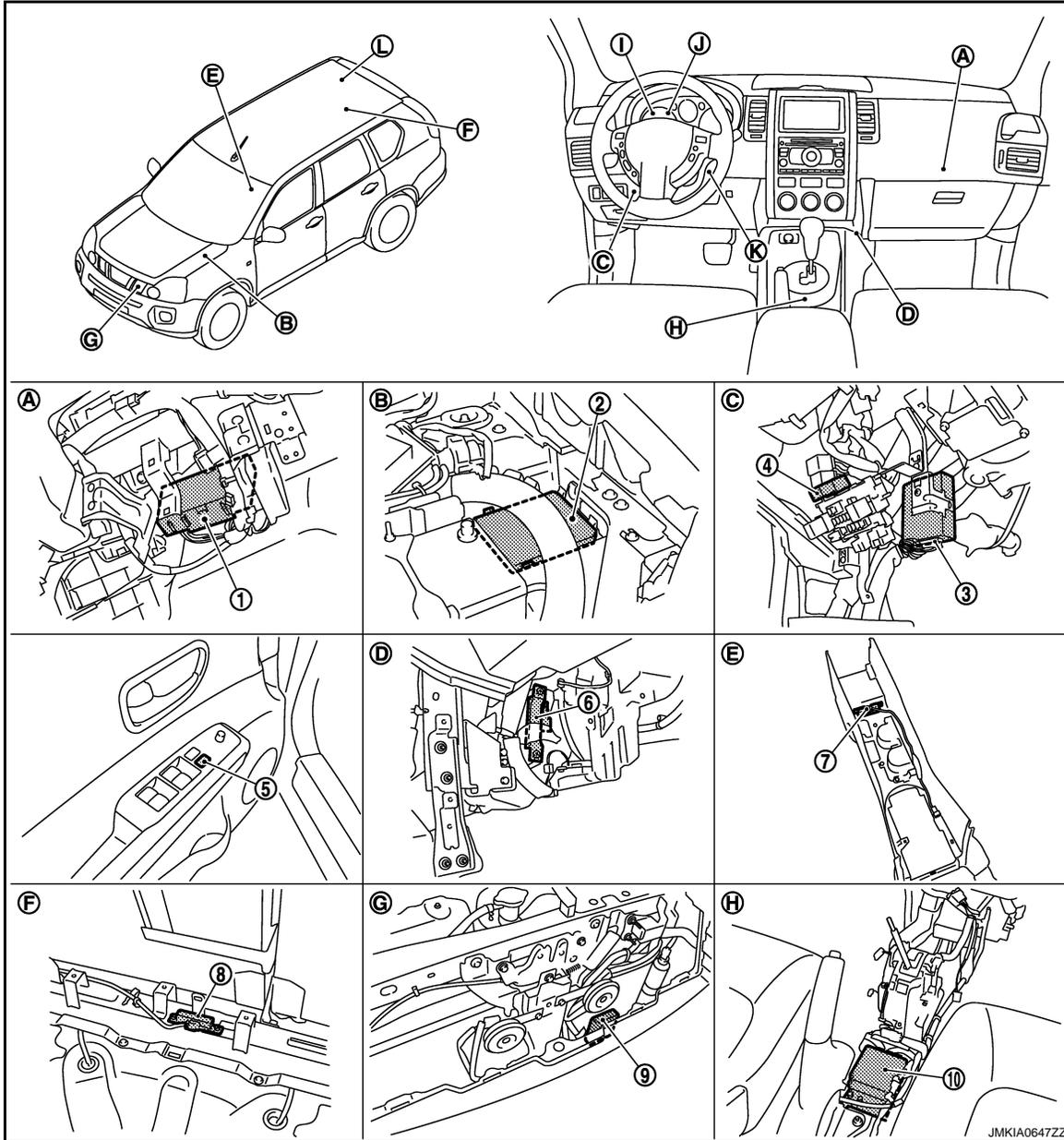
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Parts Location

INFOID:000000001394655

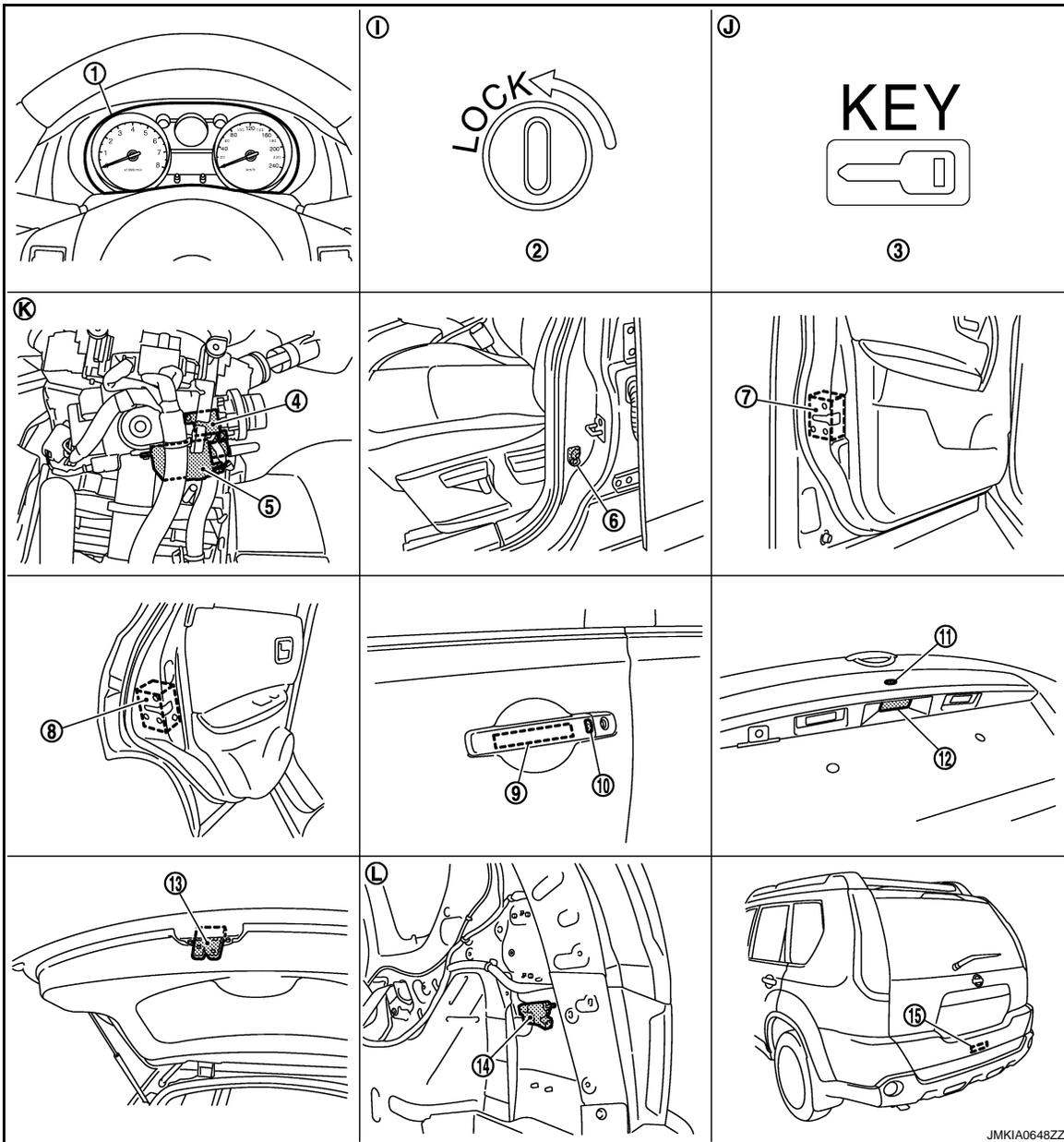


- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Power window main switch (door lock and
unlock switch)
D5, D6 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Over the instrument lower panel (driver
side) | C. View with front bumper removed |
| D. View with lower instrument cover re-
moved | E. View with center console rear finisher re-
moved | F. View with luggage floor spacer (LH)
removed |
| G. View with rear bumper fascia removed | H. View with fuse box lid removed | |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]



- | | | |
|--|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (driver side)
B34 |
| 7. Front door lock actuator (driver side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column cover re-
moved |
| L. View with luggage side lower finisher
(RH) removed. | | |

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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Description

INFOID:000000001280413

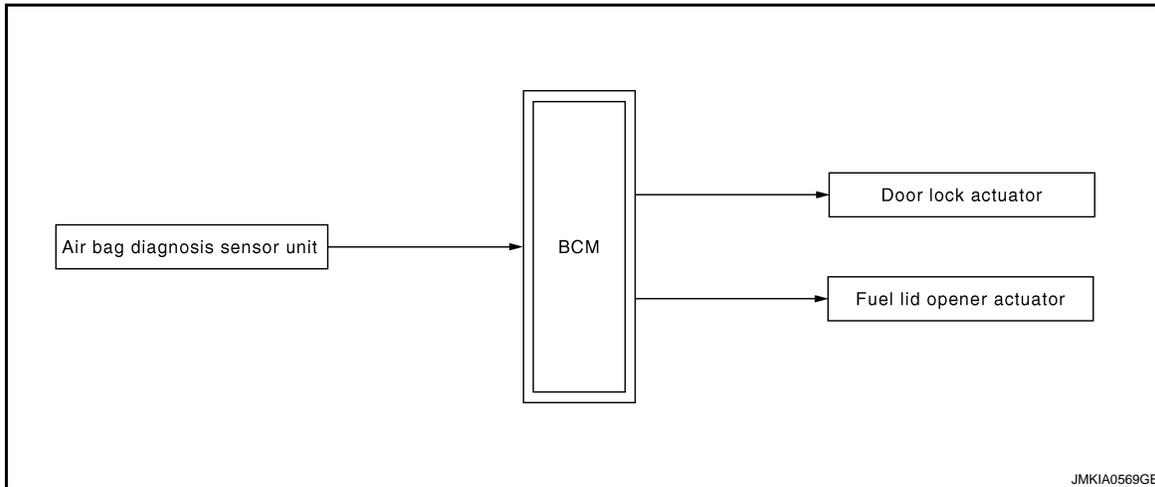
Item	Function
BCM	Controls the door lock/unlock function.
Combination meter	Transmits vehicle speed signal to BCM via CAN communication.
Door lock actuator	Receives door lock and unlock signal from BCM and locks and unlocks each door.

AIR BAG INTERLOCK UNLOCK

AIR BAG INTERLOCK UNLOCK : System Diagram

INFOID:000000001280414

AIR BAG INTERLOCK UNLOCK OPERATION



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AIR BAG INTERLOCK UNLOCK : System Description

INFOID:000000001280415

AIR BAG INTERLOCK UNLOCK OPERATION

When ignition switch is ON and BCM receives air bag deployment signal, it operates automatically to unlock all doors. Air bag diagnosis sensor unit sends the air bag deployment signal to BCM.

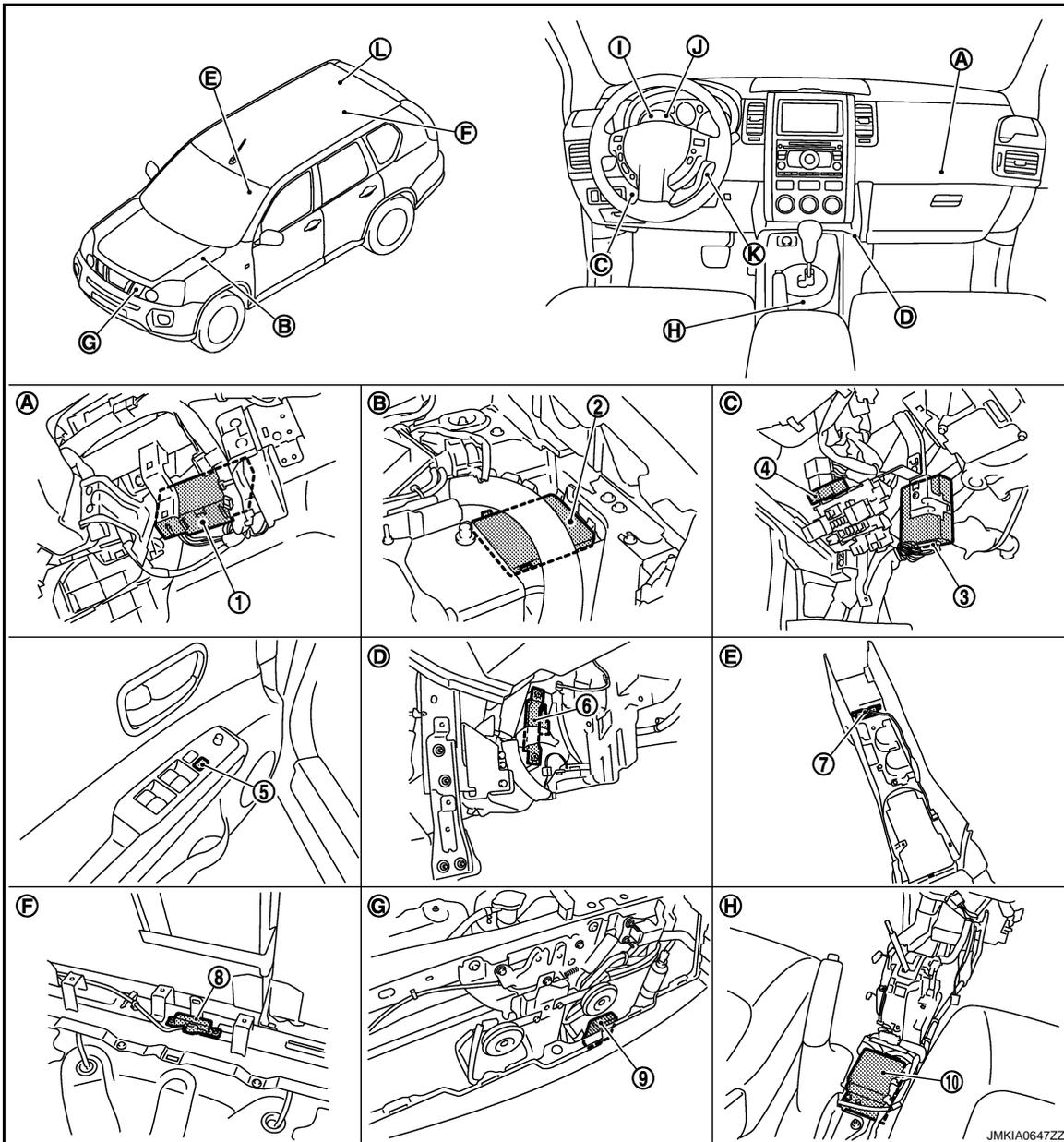
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

AIR BAG INTERLOCK UNLOCK : Component Parts Location

INFOID:000000001394656



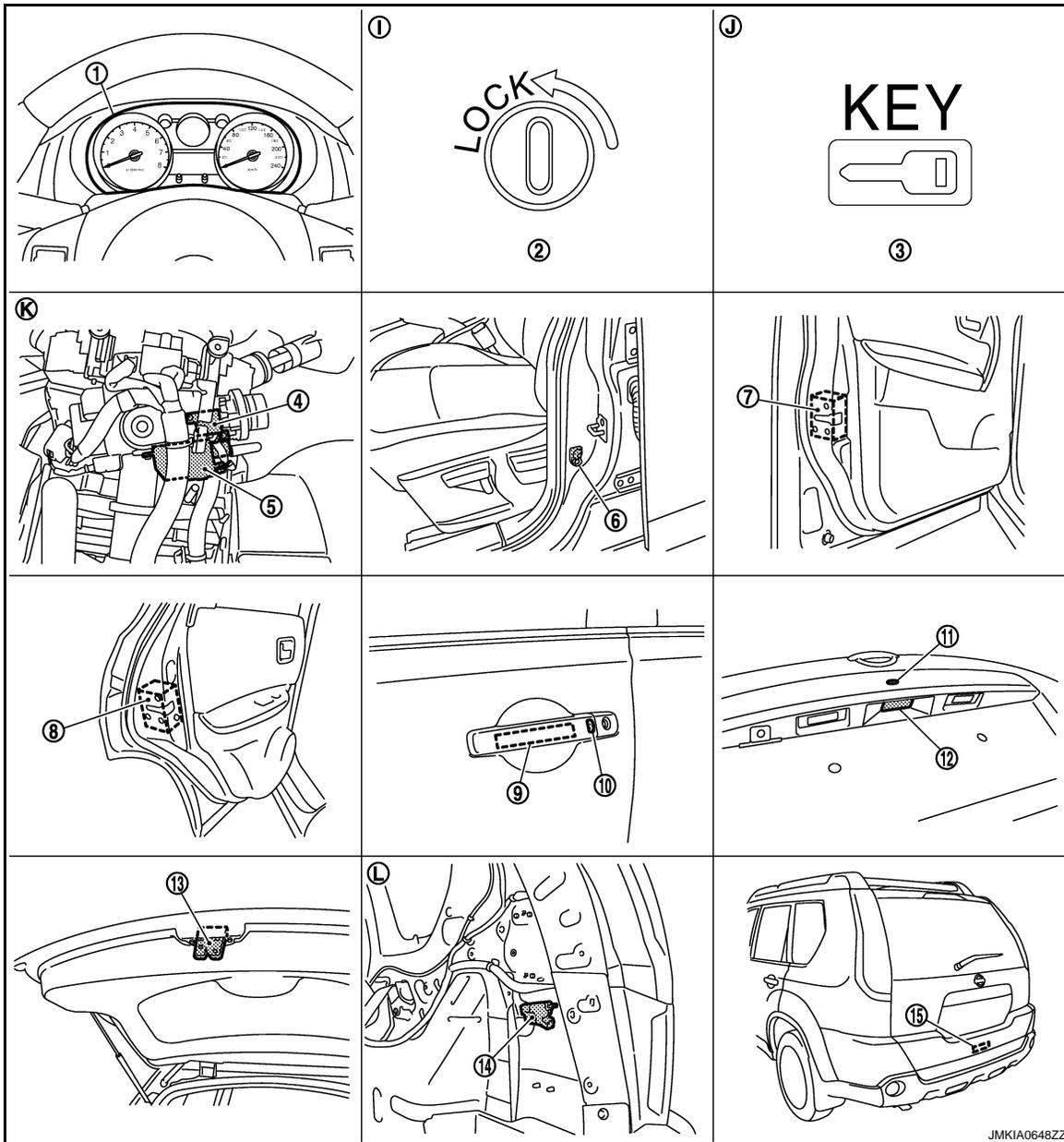
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|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Power window main switch (door lock and
unlock switch)
D5, D6 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat) | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Over the instrument lower panel (driver
side) | C. View with front bumper removed |
| D. View with lower instrument cover re-
moved | E. View with center console rear finisher re-
moved | F. View with luggage floor spacer (LH)
removed |
| G. View with rear bumper fascia removed | H. View with fuse box lid removed | |

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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]



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- | | | |
|--|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (driver side)
B34 |
| 7. Front door lock actuator (driver side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column
removed |
| L. View with luggage side lower finisher
(RH) removed. | | |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

AIR BAG INTERLOCK UNLOCK : Component Description

INFOID:000000001280417

Item	Function
BCM	Controls the door lock function.
Air bag diagnosis sensor unit	Transmits air bag deployment signal to BCM for shock sensing auto unlock.
Door lock actuator	Receives unlock signal from BCM and unlocks each door.

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BACK DOOR OPENER FUNCTION

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[WITH I-KEY, WITHOUT SUPER LOCK]

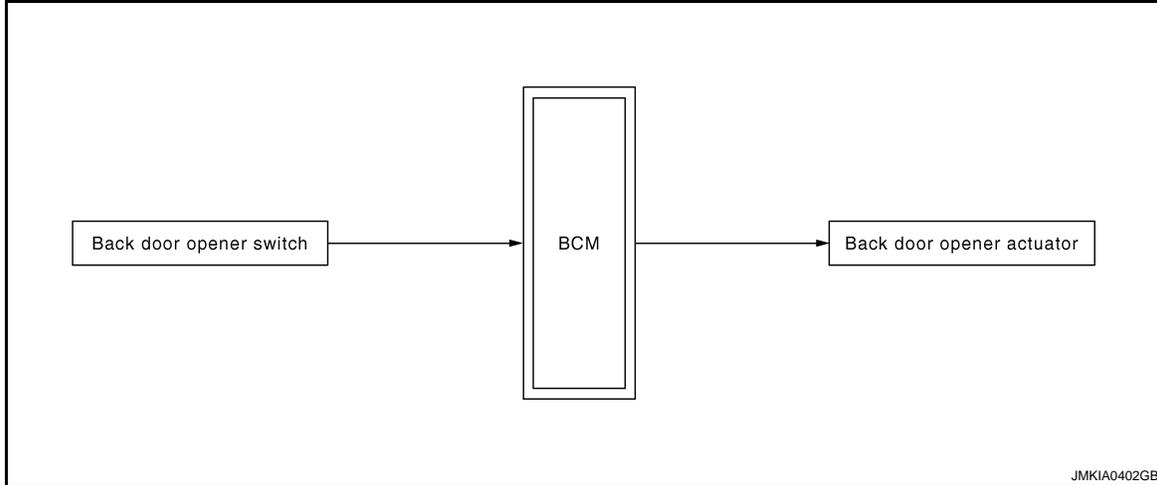
BACK DOOR OPENER FUNCTION

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : System Diagram

INFOID:000000001280418

BACK DOOR OPENER OPERATION



BACK DOOR OPENER SWITCH : System Description

INFOID:000000001280419

BACK DOOR OPENER OPERATION

When back door opener switch is pressed, BCM opens back door opener actuator.

NOTE:

Back door opener actuator is not for locking the back door. The function is only to open the back door.

OPERATION CONDITION

If the following conditions are not satisfied, back door opener operation is not performed.

Back door opener switch operation	Operation condition
Back door open	<ul style="list-style-type: none">• Vehicle speed is less than 5 km/h (3 MPH).• All doors are unlocked.

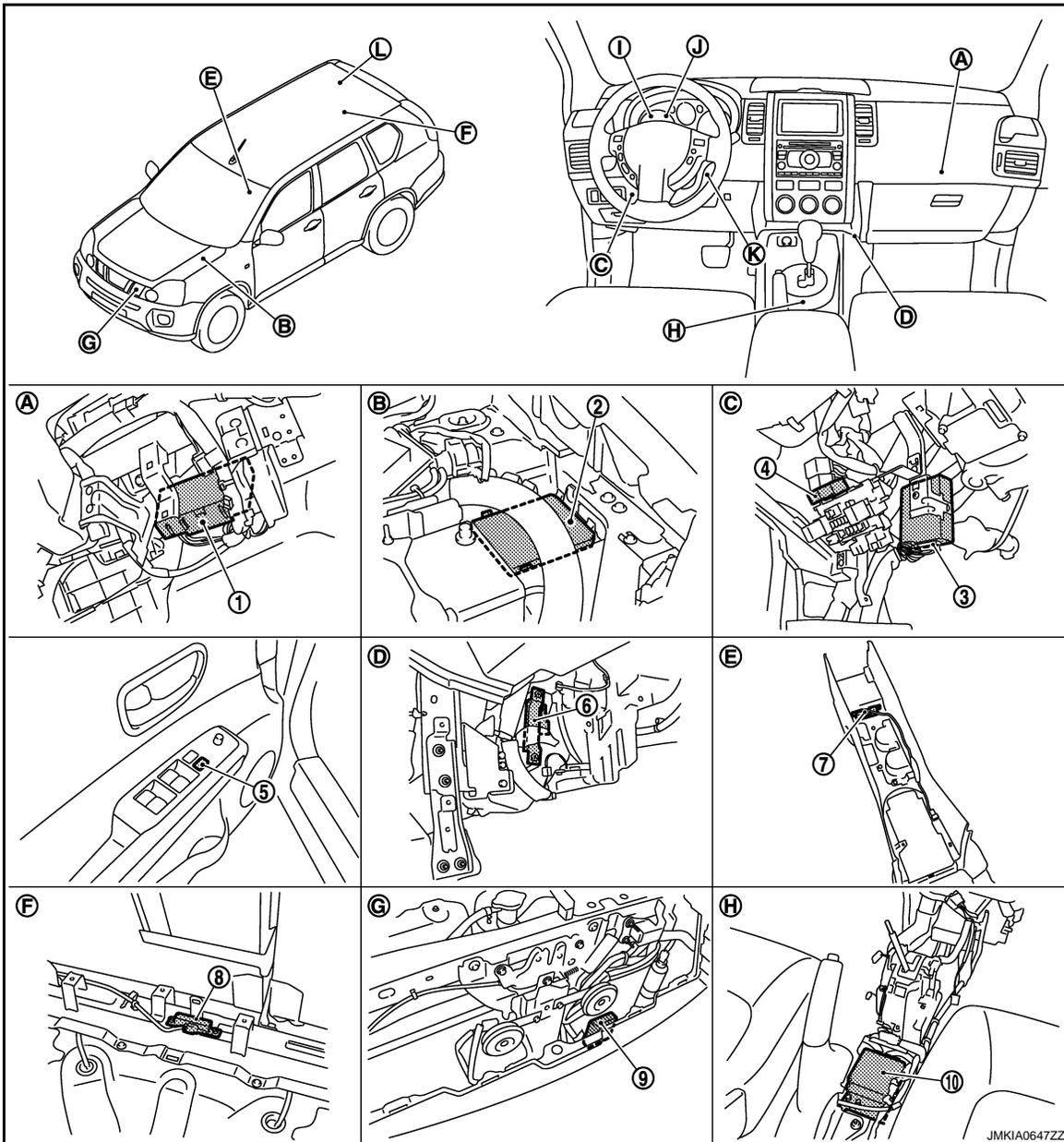
BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR OPENER SWITCH : Component Parts Location

INFOID:000000001394657



- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Power window main switch (door lock and
unlock switch)
D5, D6 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Over the instrument lower panel (driver
side) | C. View with front bumper removed |
| D. View with lower instrument cover re-
moved | E. View with center console rear finisher re-
moved | F. View with luggage floor spacer (LH)
removed |
| G. View with rear bumper fascia removed | H. View with fuse box lid removed | |

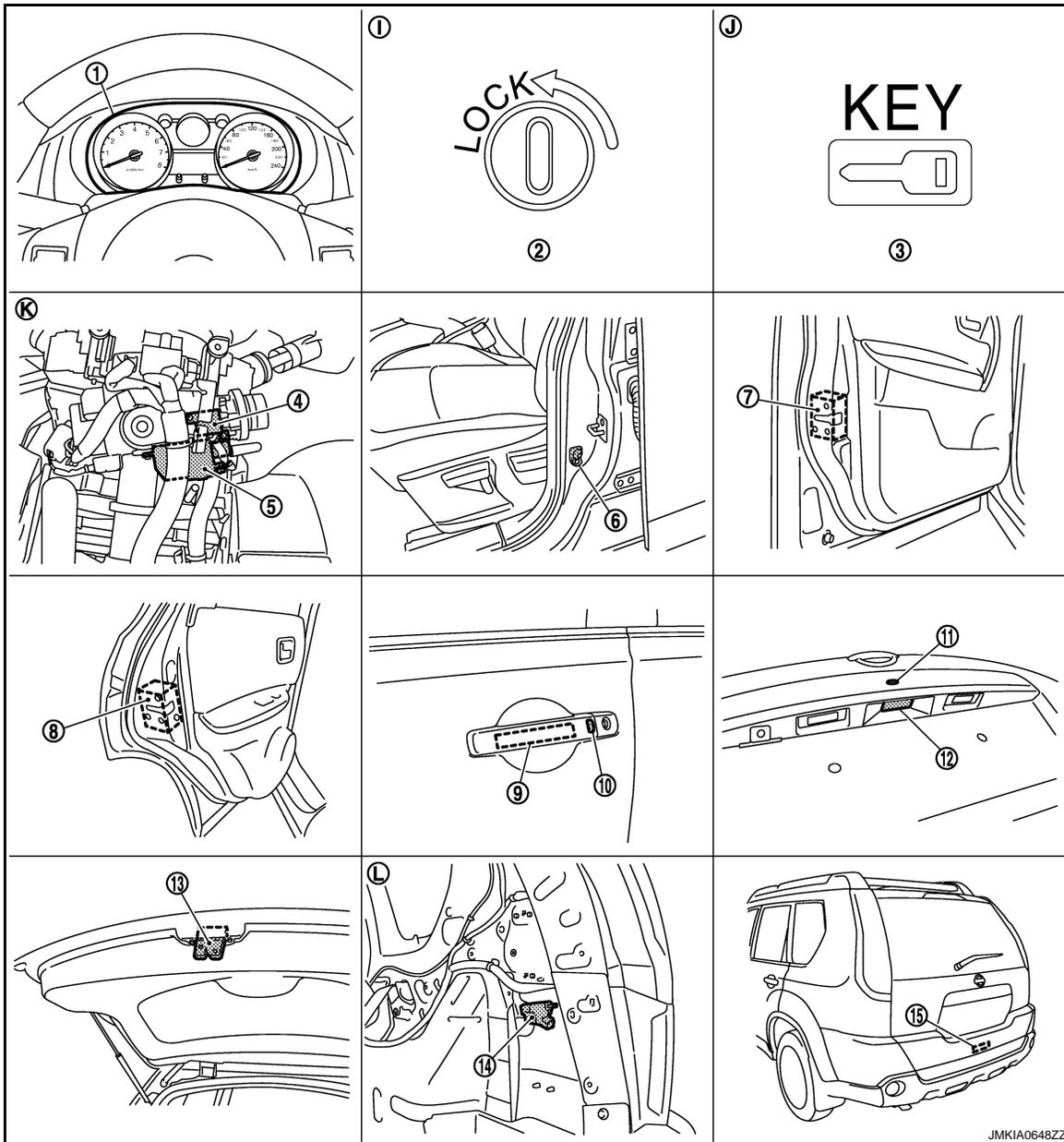
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DLK

BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]



- | | | |
|--|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (driver side)
B34 |
| 7. Front door lock actuator (driver side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column
removed |
| L. View with luggage side lower finisher
(RH) removed. | | |

BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR OPENER SWITCH : Component Description

INFOID:000000001280421

Item	Function
BCM	Controls the back door opener function.
Back door opener switch	Transmits back door opener switch operation signal to BCM.
Back door opener actuator	Opens the back door with the back door open signal from BCM.
Combination meter	Transmits vehicle speed signal to BCM via CAN communication.

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WARNING FUNCTION

< FUNCTION DIAGNOSIS >

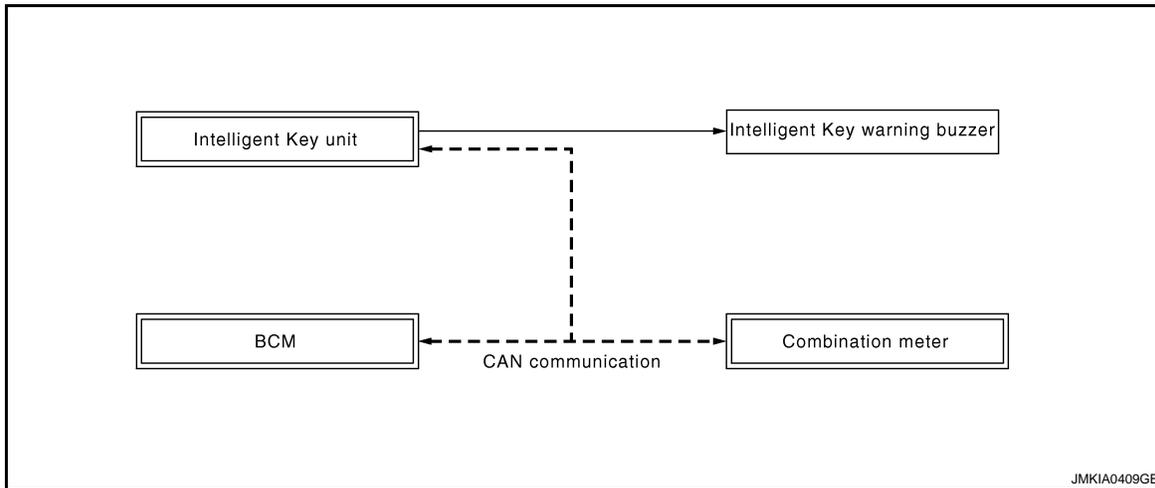
[WITH I-KEY, WITHOUT SUPER LOCK]

WARNING FUNCTION

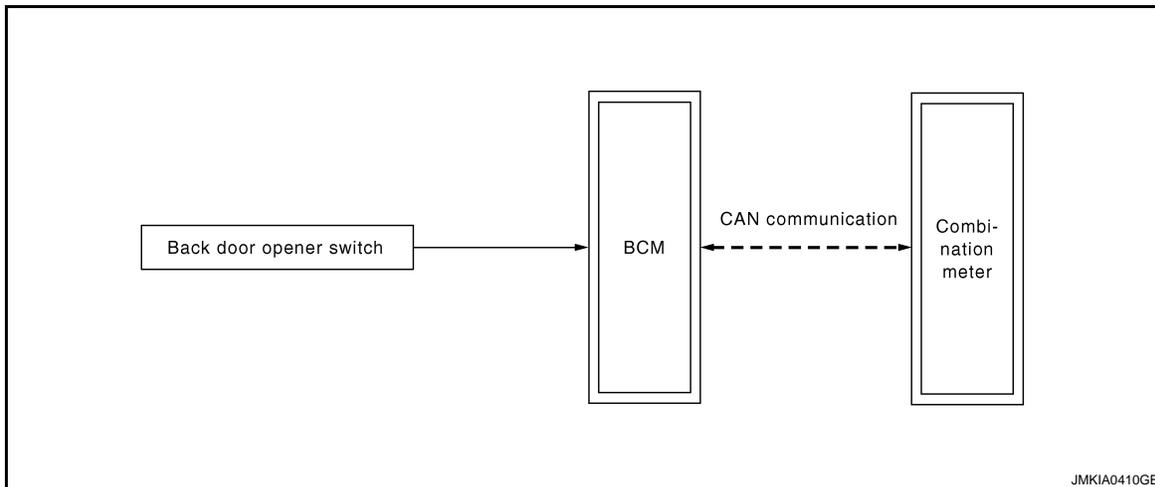
System Diagram

INFOID:000000001280422

INTELLIGENT KEY WARNING OPERATION



BACK DOOR OPEN WARNING OPERATION



System Description

INFOID:000000001280423

DESCRIPTION

The warning functions are as follows and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, key warning lamps and buzzer (built in combination meter).

INTELLIGENT KEY WARNING OPERATION

Once one of the following conditions below is established, alert or warning will be executed.

WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Warning/Information functions		Operation conditions	Warning lamp	Warning chime	
				Combination meter buzzer	Intelligent Key warning buzzer
Ignition knob return forgotten warning		When all the conditions below are met. <ul style="list-style-type: none"> Ignition knob: OFF or LOCK (knob is pressed). Door switch (driver side): ON (Door is open). 	—	Active for 5 seconds (pipipipi, pipipipi...)	—
Ignition key warning (when mechanical key is used)		When all the conditions below are met. <ul style="list-style-type: none"> Ignition switch: OFF position. Key switch: ON (inserted) Door switch (driver side): ON (Door is open). 	—	Active for 5 seconds (pipipipi, pipipipi...)	—
OFF position warning		When all the conditions below are met. <ul style="list-style-type: none"> Ignition switch is between ACC and OFF position or ignition knob is pressed in while ignition switch is in LOCK position. 3 seconds in the above state have passed. 	“LOCK” (RED blinking)	Active for 1 second (pipi, pipi...)	—
Take away warning	Any door open to all doors closed	When all the conditions below are met. <ul style="list-style-type: none"> Ignition switch: Except LOCK position. Door switch: ON to OFF (Door is open to closed). Intelligent Key cannot be detected inside the vehicle. 	“KEY” (RED blinking)	—	Active (pi, pi, pi)
	Door is open	When all the conditions below are met. <ul style="list-style-type: none"> Door switch: ON (Door is open) Key ID verification every 5 seconds when registered Intelligent Key cannot be detected inside the vehicle. 	“KEY” (RED blinking)	—	—
	Take away through window	When all the conditions below are met. <ul style="list-style-type: none"> Key ID verification: OK Every 30 seconds when registered Intelligent Key cannot be detected inside the vehicle or result of vehicle speed verification is NG. (The registered Intelligent Key cannot be detected inside the vehicle when ignition switch is ON.) Key switch: OFF (Key is removed from ignition key cylinder.) 	“KEY” (RED blinking)	Active for 3 seconds (pipipi...)	—

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WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Warning/Information functions		Operation conditions	Warning lamp	Warning chime	
				Combination meter buzzer	Intelligent Key warning buzzer
Door lock operation warning	Request switch operation	When request switch is pushed (lock operation) under the following conditions. <ul style="list-style-type: none"> Door switch: ON (Any door is open). Ignition switch is in ACC or OFF position or ignition knob is pressed in LOCK position or mechanical key is inserted into ignition key cylinder. Intelligent Key is inside vehicle. 	—	—	Active for 2 seconds (pipipi...)
	Intelligent Key button operation	When Intelligent Key button is pushed (lock operation) under the following conditions. <ul style="list-style-type: none"> Door switch: ON (Any door is open). Ignition switch is in ACC or OFF position or ignition knob is pressed in LOCK position or mechanical key is inserted into ignition key cylinder. 	—	—	Active for 2 seconds (pipipi...)
Intelligent Key low battery warning		When Intelligent Key battery voltage is low, Intelligent Key unit is detected after ignition switch is turned ON.	“KEY” (GREEN blinking for 30 seconds)	—	—

KEY WARNING LAMP & LOCK WARNING LAMP

The key indicator and lock indicator indicates Intelligent Key system status.

Operation Condition

Behavior of lamps			Operation condition
KEY	GREEN	Lighting	All the following conditions are satisfied. <ul style="list-style-type: none"> Ignition knob is pushed in LOCK position. (Ignition knob switch is ON) Ignition key is removed from ignition key cylinder. (Key switch is OFF) Intelligent Key is detected inside of the vehicle. KEY RED lighting/blinking conditions are not satisfied.
		Blinking	while Intelligent Key low battery warning is operating.
	RED	Lighting	All the following conditions are satisfied. <ul style="list-style-type: none"> Ignition knob is pushed. (Ignition knob switch is ON) Ignition key is removed from ignition key cylinder. (Key switch is OFF) Intelligent Key is not detected inside of the vehicle.
		Blinking	All the following conditions are satisfied. <ul style="list-style-type: none"> Take away warning is operating. KEY RED lighting condition is not satisfied.
LOCK		Blinking	While OFF position warning is operating.
KEY(RED) and LOCK lighting			All the following conditions are satisfied. <ul style="list-style-type: none"> Ignition switch is ON. Steering lock ID is NG.

BACK DOOR OPEN WARNING OPERATION

When back door opener switch is operated, when door lock is locked with door lock and unlock switch, speed sensing lock or only driver side is unlocked with anti-hijack function, the buzzer (built in combination meter) will sound.

KEY REMINDER OPERATION

- The buzzer (combination meter) will sound and the doors will not lock if the door lock and unlock switch is pressed while the driver door is open and mechanical key is inserted ignition key cylinder.
- The buzzer (combination meter) will sound and the doors will not lock if the door lock and unlock switch is pressed while any door other than the driver door is open.

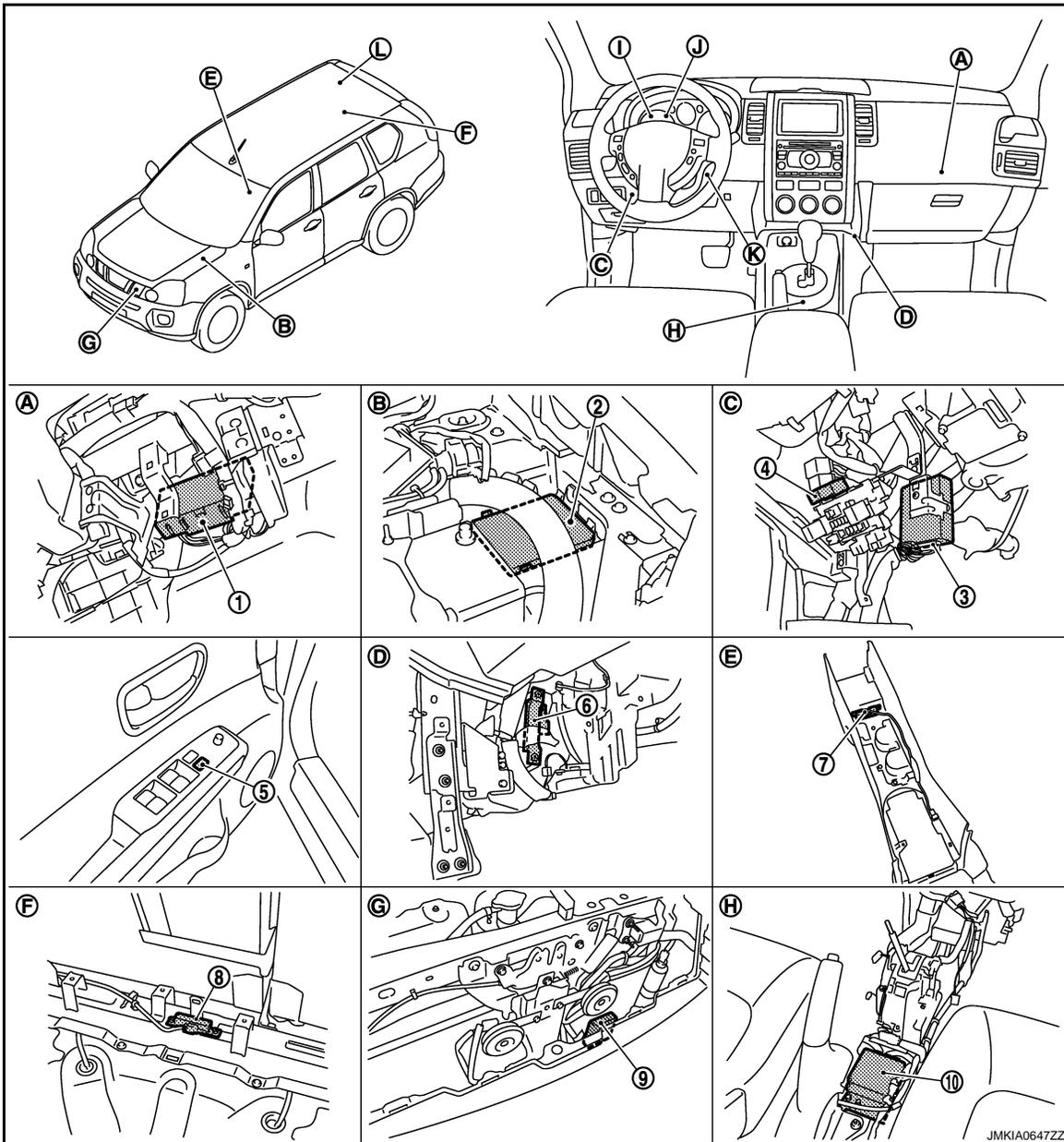
WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Component Parts Location

INFOID:000000001394658



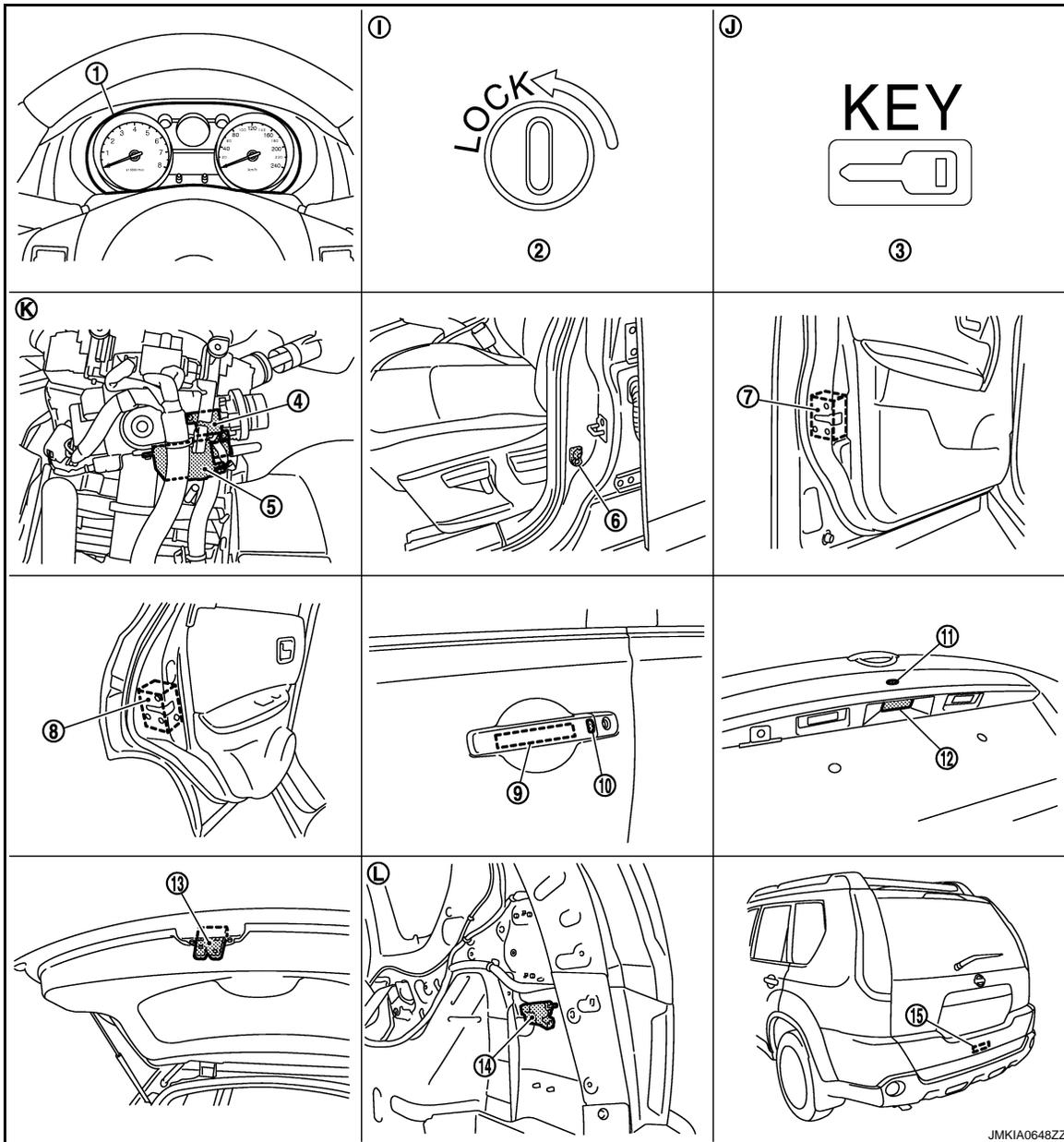
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|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Power window main switch (door lock and
unlock switch)
D5, D6 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat) | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Over the instrument lower panel (driver
side) | C. View with front bumper removed |
| D. View with lower instrument cover re-
moved | E. View with center console rear finisher re-
moved | F. View with luggage floor spacer (LH)
removed |
| G. View with rear bumper fascia removed | H. View with fuse box lid removed | |

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WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]



- | | | |
|--|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (driver side)
B34 |
| 7. Front door lock actuator (driver side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column
removed |
| L. View with luggage side lower finisher
(RH) removed. | | |

WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Component Description

INFOID:000000001280425

Item	Function
BCM	Controls the warning function with Intelligent Key unit.
Intelligent Key unit	Controls the warning function with BCM.
Key switch	Detects that mechanical key is inserted into ignition key cylinder.
Door switch	Detects door state (open or closed).
Door lock and unlock switch	Transmits door lock and unlock signal to BCM.
Intelligent Key unit	Requests to turn ON hazard warning lamp to BCM and turn signal indicator to combination meter.
Combination meter	Turns ON the LOCK indicator, KEY indicator, turn signal indicator and buzzer (built in combination meter) by the request from Intelligent Key unit via CAN communication.
Intelligent Key warning buzzer	Sounds by the request from Intelligent Key unit.
Back door opener switch	Transmits back door open signal to BCM

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HAZARD AND BUZZER REMINDER FUNCTION

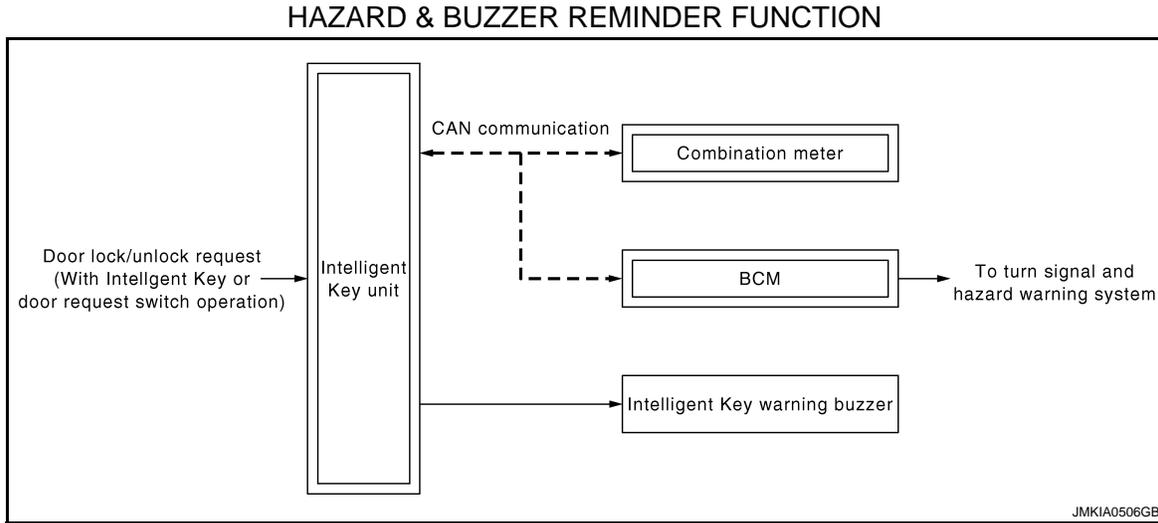
< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

HAZARD AND BUZZER REMINDER FUNCTION

System Diagram

INFOID:000000001280426



System Description

INFOID:000000001280427

HAZARD AND BUZZER REMINDER FUNCTION

When door is locked or unlocked by Intelligent Key or door request switch, Intelligent Key unit sounds buzzer and sends hazard request signal to BCM via CAN communication. Then BCM flashes hazard warning lamps as a reminder.

NOTE:

Hazard and buzzer reminder function mode can be changed with CONSULT-III. Refer to [DLK-67. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Hazard Operation

Hazard reminder setting (With CONSULT-III)		Door lock operation (with Intelligent Key or door request switch)	Hazard warning lamp flash	
HAZARD ANSWER BACK	OFF	Any	—	
		LOCK ONLY	Lock	Once
			Unlock	—
	Unlock (Anti-hijack)		—	
	UNLK ONLY	Lock	—	
		Unlock	Twice	
		Unlock (Anti-hijack)	Twice (quick)	
	LOCK/UNLK	Lock	Once	
		Unlock	Twice	
		Unlock (Anti-hijack)	Twice (quick)	

Buzzer Operation

Buzzer reminder setting (With CONSULT-III)		Door lock operation (with Intelligent Key or door request switch)	Buzzer warning sounds
ANSWER BACK WITH I-KEY LOCK	BUZZER	Lock	Once
		Unlock	Depends on other setting
		Unlock (Anti-hijack)	Depends on other setting
	OFF	Any	—

HAZARD AND BUZZER REMINDER FUNCTION

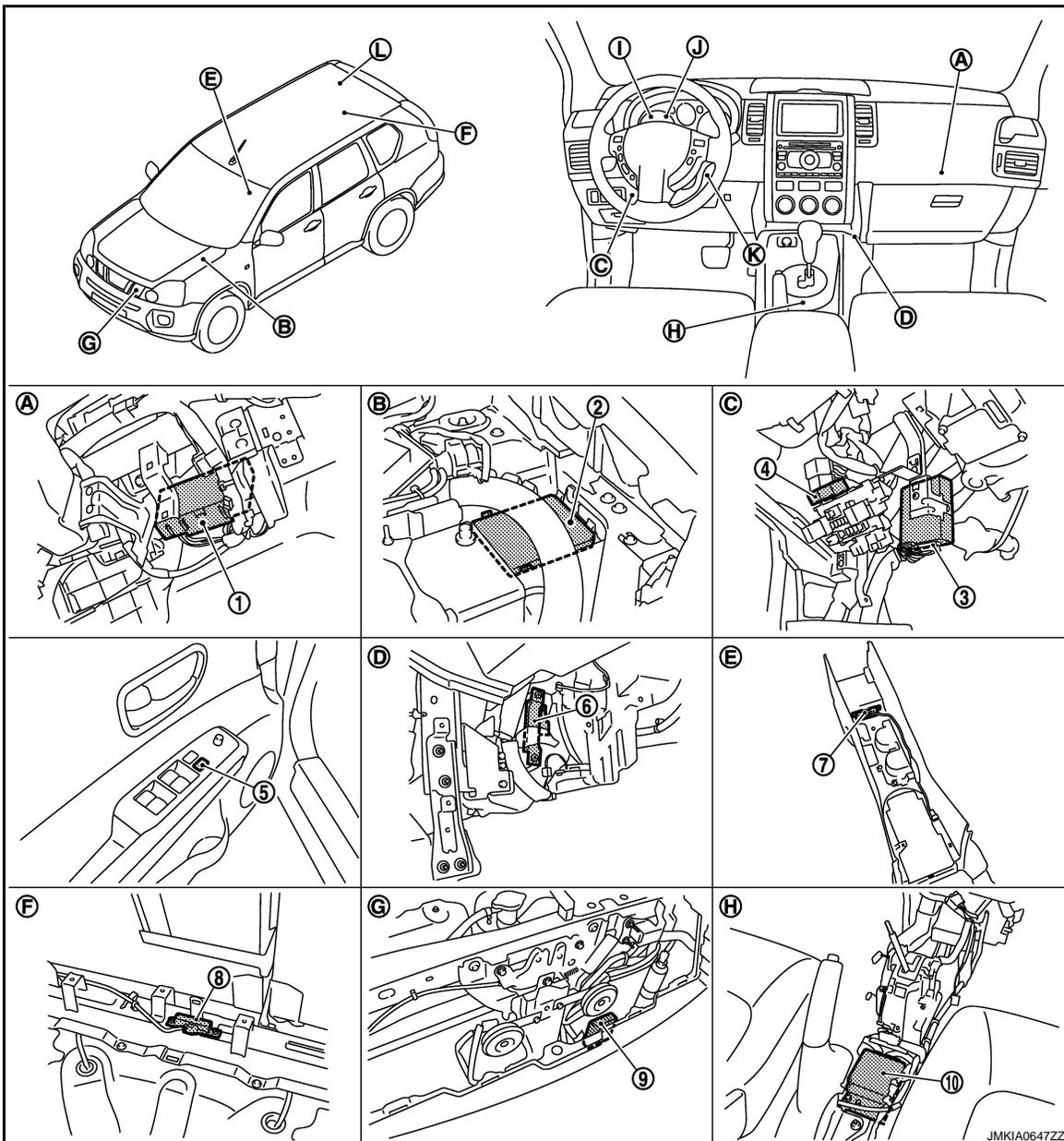
< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Buzzer reminder setting (With CONSULT-III)		Door lock operation (with Intelligent Key or door request switch)	Buzzer warning sounds
ANSWER BACK WITH I-KEY UNLOCK	BUZZER	Lock	Depends on other setting
		Unlock	Twice
		Unlock (Anti-hijack)	Twice
	OFF	Any	—
ANSWER BACK FUNC- TION	ON	Lock	Once
		Unlock	Twice
		Unlock (Anti-hijack)	Twice
	OFF	Any	—

Component Parts Location

INFOID:000000001394659



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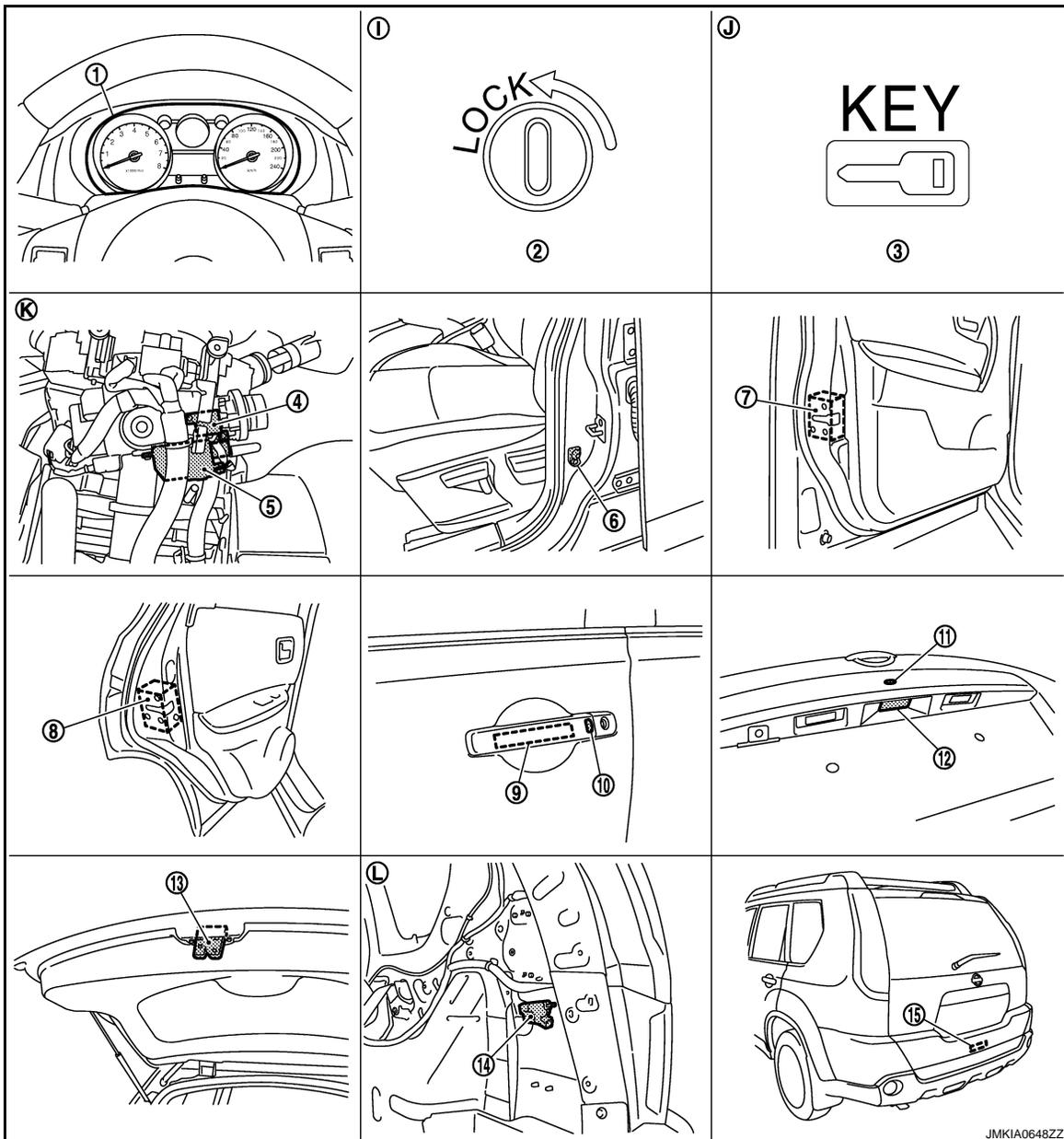
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HAZARD AND BUZZER REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Power window main switch (door lock and
unlock switch)
D5, D6 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Over the instrument lower panel (driver
side) | C. View with front bumper removed |
| D. View with lower instrument cover re-
moved | E. View with center console rear finisher re-
moved | F. View with luggage floor spacer (LH)
removed |
| G. View with rear bumper fascia removed | H. View with fuse box lid removed | |



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HAZARD AND BUZZER REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

- | | | | |
|--|---|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 | A |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (driver side)
B34 | B |
| 7. Front door lock actuator (driver side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 | C |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 | D |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 | E |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column cover re-
moved | F |
| L. View with luggage side lower finisher
(RH) removed. | | | G |

Component Description

INFOID:000000001280429

Item	Function
BCM	Controls the hazard and buzzer reminder function with Intelligent Key unit.
Intelligent Key unit	Controls the hazard and buzzer reminder function with BCM.
Combination meter	Turns ON the LOCK indicator, KEY indicator, turn signal indicator and buzzer (built in combination meter) by the request from Intelligent Key unit via CAN communication.
Intelligent Key warning buzzer	Sounds by the request signal from Intelligent Key unit.

DLK

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)

INFOID:000000001569648

APPLICATION ITEM

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description
ECU Identification	BCM part number is displayed.
Self-Diagnostic Results	Displays the diagnosis results judged by BCM. Refer to DLK-211, "DTC Index" .
Data Monitor	BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Changes the setting for each system function.
Configuration	<ul style="list-style-type: none">Read and save the vehicle specification.Write the vehicle specification when replacing BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

System	CONSULT-III sub system selection item	Diagnosis mode		
		WORK SUPPORT	DATA MONITOR	ACTIVE TEST
—	BCM	×		
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER	×	×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
—	PTC HEATER*			

*: This item is displayed, but is not function.

DOOR LOCK

DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)

INFOID:000000001280431

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

DIAGNOSIS SYSTEM (BCM)

[WITH I-KEY, WITHOUT SUPER LOCK]

< FUNCTION DIAGNOSIS >

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
PUSH SW ^{*1}	Indicates [ON/OFF] condition of ignition knob switch.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.
KEYLESS LOCK ^{*2}	Indicates [ON/OFF] condition of lock signal from key fob.
KEYLESS UNLOCK ^{*2}	Indicates [ON/OFF] condition of unlock signal from key fob.
I-KEY LOCK ^{*1}	Indicates [ON/OFF] condition of lock signal from Intelligent Key.
I-KEY UNLOCK ^{*1}	Indicates [ON/OFF] condition of unlock signal from Intelligent Key.
UNLOCK WITH DR	This item is indicated, but not monitored.
UNLOCK SHOCK	Indicates [ON/OFF] condition of signal from air bag diagnosis unit. <ul style="list-style-type: none"> • ON: During the unlock operation interlock with air bag. • OFF: Other than above.
SHOCK SENSOR	Indicates [NOMAL/ON/OFF] condition of circuit between BCM and air bag diagnosis sensor unit. <ul style="list-style-type: none"> • NORMAL: Ignition switch ON. (BCM is receiving normal condition signal from air bag diagnosis sensor unit.) • ON: During the receiving of air bag deployment signal from air bag diagnosis sensor unit. • OFF: After the receiving of air bag deployment signal from air bag diagnosis sensor unit.
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h].

^{*1}: For the Intelligent key equipped vehicle.

^{*2}: For the multi remote control system equipped vehicle.

ACTIVE TEST

Test item	Description
SUPER LOCK ^{*1}	This test is able to check super lock operation [LOCK (SET)/UNLOCK (RELEASE)].
DOOR LOCK IND	This test is able to check door lock indicator (built in door lock and unlock switch on center console) operation [ON/OFF].
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLOCK/DR UNLOCK/OTHER UNLOCK].

^{*1}: For the super lock equipped vehicle.

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Test item	Description
SECURITY DOOR LOCK SET	Anti hijack function mode can be changed in this mode. <ul style="list-style-type: none">• ON: Anti hijack mode is active.• OFF: Anti hijack mode is inactive.

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)

INFOID:000000001280432

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
DATA MONITOR	The BCM input/output signals are displayed.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
PUSH SW	Indicates [ON/OFF] condition of ignition knob switch.
I-KEY LOCK	Indicates [ON/OFF] condition of lock signal from Intelligent Key.
I-KEY UNLOCK	Indicates [ON/OFF] condition of unlock signal from Intelligent Key.

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK)

INFOID:000000001280433

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from Intelligent Key unit.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
PUSH SW ^{*1}	Indicates [ON/OFF] condition of ignition knob switch.
TRNK OPNR SW	Indicates [ON/OFF] condition of back door opener switch.
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h].

*1: For the Intelligent key equipped vehicle.

*2: For the remote keyless entry system equipped vehicle.

ACTIVE TEST

Test item	Description
TRUNK/GLASS HATCH	This test is able to check back door opener operation [ON/OFF].

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

CONSULT-III Function (INTELLIGENT KEY)

INFOID:000000001557124

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with Intelligent Key unit.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
SELF-DIAG RESULTS	Displays the diagnosis results judged by Intelligent Key unit.
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from Intelligent Key unit.
DATA MONITOR	The Intelligent Key unit input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from Intelligent Key unit.
ECU IDENTIFICATION	The Intelligent Key unit part number is displayed.

WORK SUPPORT

Support item	Description	Selection item	Condition
CONFIRM KEY FOB ID	It can check whether Intelligent Key ID code is registered or not.	—	—
TAKE OUT FROM WINDOW WARN	Take away warning chime (from window) mode can be changed.	ON	Active
		OFF	Inactive
LOW BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed.	ON	Active
		OFF	Inactive
KEYLESS FUNCTION	Door lock function with Intelligent Key can be changed.	ON	Active
		OFF	Inactive
ANSWER BACK FUNCTION	Buzzer reminder operation can be changed.	ON	Active
		OFF	Inactive
SELECTIVE UNLOCK FUNCTION	Anti-hijack mode can be changed.	ON	Active
		OFF	Inactive
HAZARD ANSWER BACK	Hazard reminder operation mode can be changed.	Refer to DLK-60 .	
ANSWER BACK WITH I-KEY LOCK	Buzzer reminder operation (lock operation) mode by each door request switch can be changed.	BUZZER	Active
		OFF	Inactive
ANSWER BACK WITH I-KEY UNLOCK	Buzzer reminder operation (unlock operation) mode by each door request switch can be changed.	BUZZER	Active
		OFF	Inactive
AUTO RELOCK TIMER	Auto door lock operation mode can be changed.	OFF	Inactive
		2 min.	Active
ENGINE START BY I-KEY	Engine start function (by Intelligent Key) mode can be changed.	ON	Active
		OFF	Inactive
LOCK/UNLOCK BY I-KEY	Door lock function by door request switch can be changed.	ON	Active
		OFF	Inactive

SELF-DIAG RESULT

Refer to [DLK-169, "DTC Index"](#).

DATA MONITOR

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Monitor Item	Condition
PUSH SW	Indicates [ON (pressed)/OFF (released)] condition of ignition knob switch.
KEY SW	Indicates [ON (inserted)/OFF (removed)] condition of key switch.
DR REQ SW	Indicates [ON (pressed)/OFF (released)] condition of door request switch (driver side).
AS REQ SW	Indicates [ON (pressed)/OFF (released)] condition of door request switch (passenger side).
BD/TR REQ SW	Indicates [ON (pressed)/OFF (released)] condition of door request switch (back door).
IGN SW	Indicates [ON (ON or START position)/OFF (other than ON and START position)] condition of ignition switch ON position.
ACC SW	Indicates [ON/OFF] condition of ignition switch ACC position.
STOP LAMP SW	Indicates [ON/OFF] condition of stop lamp switch.
DOOR LOCK SIG	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.
DOOR UNLOCK SIG	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.
DOOR SW DR	Indicates [OPEN/CLOSE] condition of front door switch (driver side) from BCM via CAN communication.
DOOR SW AS	Indicates [OPEN/CLOSE] condition of front door switch (passenger side) from BCM via CAN communication.
DOOR SW RR	Indicates [OPEN/CLOSE] condition of rear door switch (RH) from BCM via CAN communication.
DOOR SW RL	Indicates [OPEN/CLOSE] condition of rear door switch (LH) from BCM via CAN communication.
DOOR BK SW	Indicates [OPEN/CLOSE] condition of back door switch from BCM via CAN communication.
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h].

ACTIVE TEST

Test item	Description
DOOR LOCK/UNLOCK	<p>This test is able to check door lock/unlock operation.</p> <ul style="list-style-type: none"> • ALL UNLK: All door lock actuators are unlocked. • DR UNLK: Door lock actuator (driver side) is unlocked. • AS UNLK: Door lock actuator (passenger side) is unlocked. • BK UNLK: This item is indicated, but inactive. • LOCK: All door lock actuator is locked.
ANTENNA	<p>This test is able to check Intelligent Key antenna operation. When the following condition are met, LED (on Intelligent Key) blinks.</p> <ul style="list-style-type: none"> • ROOM ANT1: Inside key antenna (console) transmissions can be detected by Intelligent Key, when "ROOM ANT1" is selected. • ROOM ANT2: Inside key antenna (instrument center/rear seat) transmissions can be detected by Intelligent Key, when "ROOM ANT2" is selected. • DRIVER ANT: Outside key antenna (driver side) transmissions can be detected by Intelligent Key, when "DRIVER ANT" is selected. • ASSIST ANT: Outside key antenna (passenger side) transmissions can be detected by Intelligent Key, when "ASSIST ANT" is selected. • BK DOOR ANT: Outside key antenna (rear bumper) transmissions can be detected by Intelligent Key, when "BK DOOR ANT" is selected.
OUTSIDE BUZZER	<p>This test is able to check Intelligent Key warning buzzer operation.</p> <ul style="list-style-type: none"> • ON • OFF
INSIDE BUZZER	<p>This test is able to check warning chime in combination meter operation.</p> <ul style="list-style-type: none"> • TAKE OUT: Take away warning chime sounds. • KNOB: Ignition knob switch warning chime sounds. • KEY: Key warning chime sounds. • OFF

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Test item	Description	
INDICATOR	This test is able to check warning lamp operation. <ul style="list-style-type: none">• BLUE ON: Key warning lamp (green) illuminates.• RED ON: Key warning lamp (red) illuminates.• KNOB ON: Lock warning lamp illuminates.• BLUE IND: Key warning lamp (green) flashes.• RED IND: Key warning lamp (red) flashes.• KNOB IND: Lock warning lamp flashes.• OFF	A
		B
KEY LOCK SOLENOID* ¹	This test is able to check key interlock operation. <ul style="list-style-type: none">• LOCK: Key interlock is active.• UNLOCK: Key interlock is inactive.	C
		D

*¹: The item is only for MT model.

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U1000 CAN COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000001559403

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Signal Chart. Refer to [LAN-25, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001280437

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When Intelligent Key unit cannot communicate CAN communication signal continuously for 2 seconds or more.	In CAN communication system, any item (or items) of the following listed below is malfunctioning. <ul style="list-style-type: none">• Transmission• Receiving (BCM)• Receiving (IPDM E/R)• Receiving (ECM)• Receiving (METER/M&A)• Receiving (MULTI AV)

Diagnosis Procedure

INFOID:000000001559404

1. PERFORM SELF DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check "Self Diagnostic Result" of Intelligent Key unit.

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to [LAN-13, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to [GI-39, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000001280439

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart, refer to [LAN-25, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001280440

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	When detecting error during the initial diagnosis of CAN controller of Intelligent Key unit.	Intelligent Key unit

Diagnosis Procedure

INFOID:000000001280441

1. REPLACE INTELLIGENT KEY UNIT

When DTC [U1010] is detected, replace Intelligent Key unit.

>> Replace Intelligent Key unit.

Special Repair Requirement

INFOID:000000001280442

1. REQUIRED WORK WHEN REPLACING INTELLIGENT KEY UNIT

Initialize control unit. Refer to CONSULT-III operation manual NATS-IVIS/NVIS.

>> Work end.

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DLK

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

POWER SUPPLY AND GROUND CIRCUIT INTELLIGENT KEY UNIT

INTELLIGENT KEY UNIT : Diagnosis Procedure

INFOID:000000001280447

1.CHECK FUSE AND FUSIBLE LINK

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
11	Battery power supply	14 (10A)
6	Ignition power supply	1 (10A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Turn ignition switch ON.
3. Check voltage between Intelligent Key unit harness connector and ground.

Terminal		Voltage (V) (Approx.)
(+)	(-)	
Intelligent Key unit		Battery voltage
Connector	Terminal	
M40	11 6	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M40	12		Exists

Does continuity exist?

YES >> Intelligent Key unit power supply and ground circuit are OK.

NO >> Repair harness or connector.

BCM

BCM : Diagnosis Procedure

INFOID:000000001280448

1.CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Terminal No.	Signal name	Fuse and fusible link No.
41	Battery power supply	10 (10A)
57		J (50A)
3	Ignition power supply	1 (10A)
4	ACC power supply	20 (10A)

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Is the fuse fusing?

- YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.
 NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connectors.
3. Check voltage between BCM harness connector and ground.

Terminals		(-)	Condition	Voltage (Approx.)
(+)				
BCM				
Connector	Terminal	Ground	Turn ignition switch OFF	Battery voltage
M66	41			
M67	57			
M65	3			
	4			
		Ground	Turn ignition switch ON	Battery voltage
			Turn ignition switch ACC	

Is the measurement value normal?

- YES >> GO TO 3.
 NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	55		

Does continuity exist?

- YES >> BCM power supply and ground circuit are OK.
 NO >> Repair harness or connector.

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DLK

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH

Description

INFOID:000000001280449

Transmits door lock/unlock operation to BCM.

Component Function Check

INFOID:000000001280450

1. CHECK FUNCTION

With CONSULT-III

Check "CDL LOCK SW" and "CDL UNLOCK SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
CDL LOCK SW	LOCK : ON
	UNLOCK : OFF
CDL UNLOCK SW	LOCK : OFF
	UNLOCK : ON

Is the inspection result normal?

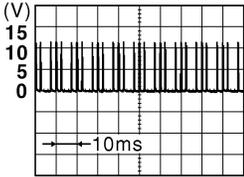
- YES >> Door lock and unlock switch is OK.
 NO >> Refer to [DLK-74, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001280451

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect power window main switch (door lock and unlock switch) connector.
- Check voltage between power window main switch (door lock and unlock switch) and ground.

Terminal (+)		Terminal (-)	Signal (Reference value)
Power window main switch (door lock and unlock switch) connector	Terminal		
D5	6	Ground	
D6	18		

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Is the inspection result normal?

- YES >> GO TO 3.
 NO >> GO TO 2.

2. CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector.
- Check continuity between BCM connector and power window main switch (door lock and unlock switch) connector.

BCM connector	Terminal	Power window main switch (door lock and unlock switch) connector	Terminal	Continuity
M65	32	D5	6	Exists
	34	D6	18	

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	32		
	34		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3. CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between power window main switch (door lock and unlock switch) connector and ground.

Power window main switch (door lock and unlock switch) connector	Terminal	Ground	Continuity
D6	17		

Is the inspection result normal?

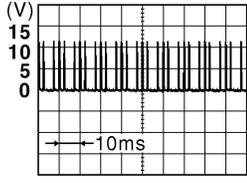
YES >> GO TO 5.

NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.

2. Check voltage between BCM connector and ground.

Terminal		Signal (Reference value)
(+)	(-)	
BCM connector	Terminal	
M65	32	
	34	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 6.

5. CHECK DOOR LOCK AND UNLOCK SWITCH

Check power window main switch (door lock and unlock switch).

Refer to [DLK-75, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace power window main switch (door lock and unlock switch). Refer to [PWC-83, "Removal and Installation"](#).

6. CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001280452

1. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Power window main switch	Terminal		Condition	Continuity
D5	6	17	LOCK	Exists
D6	18		UNLOCK	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Replace power window main switch. Refer to [PWC-83, "Removal and Installation"](#).

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001280457

Transmits lock/unlock operation to Intelligent Key unit.

DRIVER SIDE : Component Function Check

INFOID:000000001280458

1. CHECK FUNCTION

④ With CONSULT-III

Check door request switch "DR REQ SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DR REQ SW	Door request switch is pressed :ON
	Door request switch is released :OFF

Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Refer to [DLK-77, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001280459

1. CHECK INTELLIGENT KEY UNIT INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between Intelligent Key unit harness connector and ground.

Terminal (+)		Terminal (-)	Door request switch condition	Voltage (V) (Approx.)
Intelligent Key unit connector	Terminal			
M40	5	Ground	Pressed	0
			Released	5

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2. CHECK FRONT DOOR REQUEST SWITCH CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna and front door request switch (driver side) harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna and front door request switch (driver side)	Terminal	Continuity
M40	5	D30	3	Exists

3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	5		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna and front door request switch (driver side).

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between outside key antenna and front door request switch (driver side) harness connector and ground.

Outside key antenna and front door request switch (driver side) connector	Terminal	Ground	Continuity
D30	4		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace outside key antenna and front door request switch (driver side) ground circuit.

4.CHECK INTELLIGENT KEY UNIT OUTPUT SIGNAL

1. Connect Intelligent Key unit connector.
2. Check voltage between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Voltage (V) (Approx.)
M40	5		5

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 6.

5.CHECK DOOR REQUEST SWITCH

Check outside key antenna and front door request switch (driver side).

Refer to [DLK-78, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace front outside handle (driver side). Refer to [DLK-282, "OUTSIDE HANDLE : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:000000001280460

1.CHECK DOOR REQUEST SWITCH

Check outside key antenna and front door request switch (driver side).

Terminal		Door request switch condition	Continuity
Outside key antenna and front door request switch (driver side)			
3	4	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Replace front outside handle (driver side). Refer to [DLK-282, "OUTSIDE HANDLE : Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001280461

Transmits lock/unlock operation to Intelligent Key unit.

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

PASSENGER SIDE : Component Function Check

INFOID:000000001280462

1.CHECK FUNCTION

With CONSULT-III

Check door request switch "AS REQ SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
AS REQ SW	Door request switch is pressed :ON
	Door request switch is released :OFF

Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Refer to [DLK-81, "BACK DOOR : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001280463

1.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between Intelligent Key unit harness connector and ground.

Terminal (+)		Terminal (-)	Door request switch condition	Voltage (V) (Approx.)
Intelligent Key unit connector	Terminal			
M40	25	Ground	Pressed	0
			Released	5

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna and front door request switch (passenger side) harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna and front door request switch (passenger side) connector	Terminal	Continuity
M40	25	D69	3	Exists

3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	25		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna and front door request switch (passenger side).

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between outside key antenna and front door request switch (passenger side) harness connector and ground.

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DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Outside key antenna and front door request switch (passenger side) connector	Terminal	Ground	Continuity
D69	4		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace outside key antenna and front door request switch (passenger side) ground circuit.

4.CHECK INTELLIGENT KEY UNIT OUTPUT SIGNAL

1. Connect Intelligent Key unit connector.
2. Check voltage between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Voltage (V) (Approx.)
M40	25		5

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 6.

5.CHECK DOOR REQUEST SWITCH

Check outside key antenna and front door request switch (passenger side).

Refer to [DLK-82, "BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace front outside handle (passenger side). Refer to [DLK-282, "OUTSIDE HANDLE : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000001280464

1.CHECK DOOR REQUEST SWITCH

Check outside key antenna and front door request switch (passenger side).

Terminal		Door request switch condition	Continuity
Outside key antenna and front door request switch (passenger side)			
3	4	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Replace front outside handle (passenger side). Refer to [DLK-282, "OUTSIDE HANDLE : Removal and Installation"](#).

BACK DOOR

BACK DOOR : Description

INFOID:000000001280465

Transmits lock/unlock operation to Intelligent Key unit.

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR : Component Function Check

INFOID:000000001280466

1.CHECK FUNCTION

With CONSULT-III

Check door request switch "BD/TR REQ SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition	
BD/TR REQ SW	Door request switch is pressed	:ON
	Door request switch is released	:OFF

Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Refer to [DLK-81, "BACK DOOR : Diagnosis Procedure"](#).

BACK DOOR : Diagnosis Procedure

INFOID:000000001280467

1.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL

- Turn ignition switch OFF.
- Check voltage between Intelligent Key unit harness connector and ground.

Terminal		Door request switch condition	Voltage (V) (Approx.)
(+)	(-)		
Intelligent Key unit connector	Terminal	Pressed	0
M40	29		
		Released	5

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

- Disconnect Intelligent Key unit connector.
- Check continuity between Intelligent Key unit harness connector and back door opener switch assembly (request switch) harness connector.

Intelligent Key unit connector	Terminal	Back door opener switch (request switch) connector	Terminal	Continuity
M40	29	D186	3	Exists

- Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	29		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and back door opener switch assembly (request switch).

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between back door opener switch assembly request switch harness connector and ground.

Back door opener switch assembly (request switch) connector	Terminal	Ground	Continuity
D186	4		Exists

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DOOR REQUEST SWITCH

[WITH I-KEY, WITHOUT SUPER LOCK]

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace back door opener switch assembly (request switch) ground circuit.

4.CHECK INTELLIGENT KEY UNIT OUTPUT SIGNAL

1. Connect Intelligent Key unit connector.
2. Check voltage between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Voltage (V) (Approx.)
M40	29		5

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 6.

5.CHECK DOOR REQUEST SWITCH

Check back door opener switch assembly (request switch).

Refer to [DLK-82, "BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door opener switch assembly (request switch). Refer to [DLK-299, "Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR : Component Inspection

INFOID:000000001280468

1.CHECK DOOR REQUEST SWITCH

Check back door opener switch assembly (request switch).

Terminal		Door request switch condition	Continuity
Back door opener switch assembly (request switch)			
3	4	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Back door request switch is OK.

NO >> Replace back door opener switch assembly (request switch). Refer to [DLK-299, "Removal and Installation"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001280469

Detects door open/closed condition.

DRIVER SIDE : Component Function Check

INFOID:000000001280470

1.CHECK FUNCTION

With CONSULT-III

Check door switches "DOOR SW-DR" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition	
DOOR SW-DR	OPEN	:ON
	CLOSE	:OFF

Is the inspection result normal?

YES >> Front door switch (driver side) is OK.

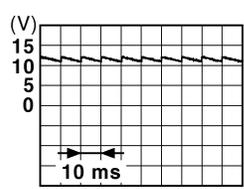
NO >> Refer to [DLK-83. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001280471

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground with oscilloscope.

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal		
M65	15	OPEN	0
		CLOSE	 <p style="text-align: right;">JPMIA0011GB</p>

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and front door switch (driver side) connector.
2. Check continuity between BCM harness connector and front door switch (driver side) harness connector.

BCM connector	Terminal	Front door switch (driver side) connector	Terminal	Continuity
M65	15	B34	2	Exists

3. Check continuity between BCM harness connector and ground.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M65	15		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to [DLK-84, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front door switch (driver side). Refer to [DLK-292, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:000000001280472

1.CHECK DOOR SWITCH

Check front door switch (driver side).

Terminal		Door switch condition	Continuity
front door switch (driver side)			
2	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Front door switch (driver side) is OK.

NO >> Replace front door switch (driver side). Refer to [DLK-292, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001280473

Detects door open/closed condition.

PASSENGER SIDE : Component Function Check

INFOID:000000001280474

1.CHECK FUNCTION

 With CONSULT-III

Check door switches "DOOR SW-AS" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DOOR SW-AS	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

YES >> Front door switch (passenger side) is OK.

NO >> Refer to [DLK-84, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001280475

1.CHECK DOOR SWITCH INPUT SIGNAL

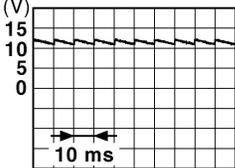
1. Turn ignition switch OFF.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

2. Check signal between BCM harness connector and ground with oscilloscope.

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal	(-)	
M65	14	Ground	0
		Ground	

JPMIA0011GB

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and front door switch (passenger side) connector.
2. Check continuity between BCM harness connector and front door switch (passenger side) harness connector.

BCM connector	Terminal	Front door switch (passenger side) connector	Terminal	Continuity
M65	14	B27	2	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	14		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Check front door switch (passenger side).

Refer to [DLK-85. "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front door switch (passenger side). Refer to [DLK-292. "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000001280476

1.CHECK DOOR SWITCH

Check front door switch (passenger side).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminal		Door switch condition	Continuity
Front door switch (passenger side)			
2	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Front door switch (passenger side) is OK.

NO >> Replace front door switch (passenger side). Refer to [DLK-292, "Removal and Installation"](#).

REAR LH

REAR LH : Description

INFOID:000000001280477

Detects door open/closed condition.

REAR LH : Component Function Check

INFOID:000000001280478

1.CHECK FUNCTION

With CONSULT-III

Check door switches "DOOR SW-RL" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DOOR SW-RL	OPEN :ON
	CLOSE :OFF

Is the inspection result normal?

YES >> Rear door switch LH is OK.

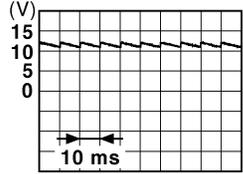
NO >> Refer to [DLK-86, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001280479

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground with oscilloscope.

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal	(-)	
M65	16	OPEN	0
		CLOSE	

JPMIA0011GB

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and rear door switch LH connector.
2. Check continuity between BCM harness connector and rear door switch LH harness connector.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BCM connector	Terminal	Rear door switch LH connector	Terminal	Continuity
M65	16	B71	2	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	16		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and rear door switch LH.

3.CHECK DOOR SWITCH

Check rear door switch LH.

Refer to [DLK-87, "REAR LH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear door switch LH. Refer to [DLK-292, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

REAR LH : Component Inspection

INFOID:000000001280480

1.CHECK DOOR SWITCH

Check rear door switch LH.

Terminal		Door switch condition	Continuity
Rear door switch LH			
2	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Rear door switch LH is OK.

NO >> Replace rear door switch LH. Refer to [DLK-292, "Removal and Installation"](#).

REAR RH

REAR RH : Description

INFOID:000000001280481

Detects door open/close condition.

REAR RH : Component Function Check

INFOID:000000001280482

1.CHECK FUNCTION

 **With CONSULT-III**

Check door switches "DOOR SW-RR" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition	
DOOR SW-RR	OPEN	:ON
	CLOSE	:OFF

Is the inspection result normal?

YES >> Rear door switch RH is OK.

NO >> Refer to [DLK-88, "REAR RH : Diagnosis Procedure"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

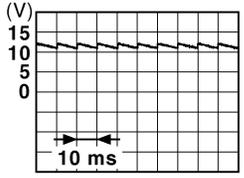
[WITH I-KEY, WITHOUT SUPER LOCK]

REAR RH : Diagnosis Procedure

INFOID:000000001280483

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM connector and ground with oscilloscope.

Terminals		Door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	12	OPEN	0
		CLOSE	

JPMIA0011GB

Is the inspection result normal?

- YES >> GO TO 4.
NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and rear door switch RH connector.
2. Check continuity between BCM harness connector and rear door switch RH harness connector.

BCM connector	Terminal	Rear door switch RH connector	Terminal	Continuity
M65	12	B53	2	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	12		Does not exist

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Check rear door switch RH.

Refer to [DLK-88, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace rear door switch RH. Refer to [DLK-290, "DOOR LOCK : Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

REAR RH : Component Inspection

INFOID:000000001280484

1.CHECK DOOR SWITCH

Check rear door switch RH.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminal		Door switch condition	Continuity
Rear door switch RH			
2	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Rear door switch RH is OK.

NO >> Replace rear door switch RH. Refer to [DLK-290, "DOOR LOCK : Removal and Installation"](#).

BACK DOOR

BACK DOOR : Description

INFOID:000000001280485

Detects back door open condition.

BACK DOOR : Component Function Check

INFOID:000000001280486

1.CHECK FUNCTION

With CONSULT-III

Check "BACK DOOR SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
BACK DOOR SW	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

YES >> Back door lock assembly (door switch) is OK.

NO >> Refer to [DLK-89, "BACK DOOR : Diagnosis Procedure"](#).

BACK DOOR : Diagnosis Procedure

INFOID:000000001280487

1.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH) INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals		Back door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	OPEN	0
M65	13		
	Ground	CLOSE	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH) CIRCUIT

1. Disconnect BCM connector back door lock assembly connector.
2. Check continuity between BCM harness connector and back door lock assembly (door switch) harness connector.

BCM connector	Terminal	Back door lock assembly (door switch) connector	Terminal	Continuity
M65	13	D190	2	Exists

3. Check continuity between BCM connector and ground.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M65	13		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and back door lock assembly (door switch).

3.CHECK BACK DOOR LOCK ASSEMBLY GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly (door switch) connector	Terminal	Ground	Continuity
D190	3		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace back door lock assembly ground circuit.

4.CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM harness connector and ground.

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	Battery voltage
M65	13	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 6.

5.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

Check back door lock assembly (door switch).

Refer to [DLK-90, "BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door lock assembly (door switch). Refer to [DLK-290, "DOOR LOCK : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR : Component Inspection

INFOID:000000001280488

1.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

Check back door lock assembly (door switch).

Terminal		Back door condition	Continuity
Back door lock assembly (door switch)			
2	1	OPEN	Exists
		CLOSE	Does not exist

Is the inspection result normal?

YES >> Back door lock assembly (door switch) is OK.

NO >> Replace back door lock assembly. Refer to [DLK-290, "DOOR LOCK : Removal and Installation"](#).

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

KEY SWITCH

Description

INFOID:000000001280489

Key switch detects that mechanical key is inserted into the key cylinder, and then transmits the signal to BCM and Intelligent Key unit.

Component Function Check

INFOID:000000001280490

1.CHECK KEY SWITCH INPUT SIGNAL

Check key switch ("KEY SW") in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
KEY SW	Insert mechanical key into key cylinder : ON
	Remove mechanical key from key cylinder : OFF

Is the inspection result normal?

- YES >> Key switch is OK.
- NO >> Refer to [DLK-91, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001280491

1.CHECK KEY SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit connector and BCM connector.
3. Check voltage between Intelligent Key unit harness connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
Intelligent Key unit connector	Terminal		
M40	7	Ground	Battery voltage
		Insert mechanical key into key cylinder	0
		Remove mechanical key from key cylinder	0

4. Check voltage between BCM harness connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	5	Ground	Battery voltage
		Insert mechanical key into key cylinder	0
		Remove mechanical key from key cylinder	0

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> GO TO 2.

2.CHECK KEY SWITCH POWER SUPPLY CIRCUIT

1. Remove mechanical key from key cylinder.
2. Disconnect ignition knob switch, key switch and key lock solenoid connector.
3. Check voltage between ignition knob switch, key switch and key lock solenoid harness connector and ground.

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminals		Voltage (V) (Approx.)
(+)	(-)	
Ignition knob switch, key switch and key lock solenoid connector	Terminal	
M25	2	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK KEY SWITCH SIGNAL CIRCUIT

1. Check continuity between Intelligent Key unit harness connector and ignition knob switch, key switch and key lock solenoid harness connector.

Intelligent Key unit connector	Terminal	Ignition knob switch, key switch and key lock solenoid connector	Terminal	Continuity
M40	7	M25	1	Exists

2. Check continuity between BCM harness connector and ignition knob switch, key switch and key lock solenoid harness connector.

BCM connector	Terminal	Ignition knob switch, key switch and key lock solenoid connector	Terminal	Continuity
M65	5	M25	1	Exists

3. Check continuity between ignition knob switch, key switch and key lock solenoid harness connector and ground.

Ignition knob switch, key switch and key lock solenoid connector	Terminal	Ground	Continuity
M25	1	Ground	Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK KEY SWITCH

Check key switch.

Refer to [DLK-92. "Component Inspection"](#).

Is the inspection result normal?

yes >> GO TO 5.

NO >> Replace key cylinder assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001280492

COMPONENT INSPECTION

1.CHECK KEY SWITCH

Check continuity between ignition knob switch, key switch and key lock solenoid terminals.

Terminal	Condition	Continuity
Ignition knob switch, key switch and key lock solenoid		

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

1	2	Insert mechanical key into key cylinder	Exists	A
		Remove mechanical key from key cylinder	Does not exist	

Is the inspection result normal?

YES >> Key switch is OK.

NO >> Replace key cylinder assembly.

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IGNITION KNOB SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

IGNITION KNOB SWITCH

Description

INFOID:000000001280493

Ignition knob switch detects that ignition knob is pressed, and then transmits the signal to Intelligent Key unit.

Component Function Check

INFOID:000000001280494

1.CHECK IGNITION KNOB SWITCH INPUT SIGNAL

Check ignition knob switch ("PUSH SW") in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
PUSH SW	Ignition knob switch is pressed : ON
	Ignition knob switch is released : OFF

Is the inspection result normal?

YES >> Ignition knob switch is OK.

NO >> Refer to [DLK-94, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001280495

1.CHECK IGNITION KNOB SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit connector.
3. Check voltage between Intelligent Key unit harness connector and ground.

Terminals			Condition	Voltage (V) (Approx.)
(+)		(-)		
Intelligent Key unit connector	Terminal			
M40	27	Ground	Ignition knob switch is pressed	Battery voltage
			Ignition knob switch is released	0

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK IGNITION KNOB SWITCH POWER SUPPLY CIRCUIT

1. Disconnect ignition knob switch, key switch and key lock solenoid connector.
2. Check voltage between ignition knob switch, key switch and key lock solenoid harness connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(-)	
Ignition knob switch, key switch and key lock solenoid connector	Terminal		
M25	4	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK IGNITION KNOB SWITCH SIGNAL CIRCUIT

1. Check continuity between Intelligent Key unit harness connector and ignition knob switch, key switch and key lock solenoid harness connector.

IGNITION KNOB SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Intelligent Key unit connector	Terminal	Ignition knob switch, key switch and key lock solenoid connector	Terminal	Continuity
M40	27	M25	3	Exists

2. Check continuity between ignition knob switch, key switch and key lock solenoid connector and ground.

Ignition knob switch, key switch and key lock solenoid connector	Terminal	Ground	Continuity
M25	3		Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK IGNITION KNOB SWITCH

Check ignition knob switch.

Refer to [DLK-95. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace ignition knob switch, key switch and key lock solenoid.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001280496

1.CHECK IGNITION KNOB SWITCH

Check continuity between ignition knob switch, key switch and key lock solenoid terminals under the following conditions.

Ignition knob switch, key switch and key lock solenoid		Condition	Continuity
Terminal			
3	4	Ignition knob switch is pressed	Exists
		Ignition knob switch is released	Does not exist

Is the inspection result normal?

YES >> Ignition knob switch, key switch and key lock solenoid is OK.

NO >> Replace ignition knob switch, key switch and key lock solenoid.

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001280497

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:000000001280498

1. CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The all door lock actuators are unlocked
	:DR UNLK	The door lock actuator (driver side) is unlocked
	:LOCK	The all door lock actuators are locked

Is the inspection result normal?

YES >> Front door lock actuator (driver side) is OK.

NO >> Refer to [DLK-96, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001280499

1. CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Ground	0 → Battery voltage → 0
M67	56		
		60	Unlock

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT 1

1. Disconnect BCM connector and front door lock actuator (driver side) connector.
2. Check continuity between BCM harness connector and front door lock actuator (driver side) harness connector.

BCM connector	Terminal	Front door lock actuator (driver side) connector	Terminal	Continuity
M67	56	D29	1	Exists
	60		2	

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist
	60		

Is the inspection result normal?

YES >> GO TO 6.

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

NO >> GO TO 3.

3. CHECK DOOR LOCK ACTUATOR CIRCUIT 2

1. Disconnect passenger side anti-hijack relay connector.
2. Check continuity between BCM harness connector and passenger side anti-hijack relay harness connector.

BCM connector	Terminal	Passenger side anti-hijack relay connector	Terminal	Continuity
M67	56	M90	3	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR LOCK ACTUATOR CIRCUIT 3

Check passenger side anti-hijack relay.

Passenger side relay connector	Terminal	Continuity
M90	3 4	Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK DOOR LOCK ACTUATOR CIRCUIT 4

1. Check continuity between passenger side anti-hijack relay harness connector and front door lock actuator (driver side) harness connector.

Passenger side anti-hijack relay connector	Terminal	Front door lock actuator (driver side) connector	Terminal	Continuity
M90	4	D29	1	Exists

2. Check continuity between passenger side anti-hijack relay harness connector and ground.

Passenger side anti-hijack relay connector	Terminal	Ground	Continuity
M90	4		Does not exist

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Description

Locks/unlocks the door with the signal from BCM.

INFOID:000000001280502

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

PASSENGER SIDE : Component Function Check

INFOID:000000001280504

1.CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item	Condition
DOOR LOCK/UNLOCK	:ALL UNLK The all door lock actuators are unlocked
	:AS UNLK The door lock actuator (passenger side) is locked
	:LOCK The all door lock actuators are locked

Is the inspection result normal?

YES >> Front door lock actuator (passenger side) is OK.

NO >> Refer to [DLK-98, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001280504

1.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Ground	0 → Battery voltage → 0
M67	56		
	54		
		Lock	0 → Battery voltage → 0
		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and front door lock actuator (passenger side) connector.
2. Check continuity between BCM harness connector and front door lock actuator (passenger side) harness connector.

BCM connector	Terminal	Front door lock actuator (passenger side) connector	Terminal	Continuity
M67	56	D68	2	Exists
	54		1	

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56	Ground	Does not exist
	54		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

REAR LH

REAR LH : Description

INFOID:000000001280506

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:000000001280507

1. CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The all door lock actuators are unlocked
	:LOCK	The all door lock actuators are locked

Is the inspection result normal?

YES >> Rear door lock actuator LH is OK.

NO >> Refer to [DLK-99. "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001280508

1. CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	56	Lock	0 → Battery voltage → 0
	54	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT 1

1. Disconnect BCM connector and rear door lock actuator LH connector.
2. Check continuity between BCM harness connector and rear door lock actuator LH harness connector.

BCM connector	Terminal	Rear door lock actuator LH connector	Terminal	Continuity
M67	56	D115	1	Exists
	54		2	

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist
	54		

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 3.

3. CHECK DOOR LOCK ACTUATOR CIRCUIT 2

1. Disconnect passenger side anti-hijack relay connector.

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

2. Check continuity between BCM harness connector and passenger side anti-hijack relay harness connector.

BCM connector	Terminal	Passenger side anti-hijack relay connector	Terminal	Continuity
M67	56	M90	3	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR LOCK ACTUATOR CIRCUIT 3

Check passenger side anti-hijack relay.

Passenger side anti-hijack relay connector	Terminal	Continuity
M90	3 4	Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK DOOR LOCK ACTUATOR CIRCUIT 4

1. Check continuity between passenger side anti-hijack relay harness connector and rear door lock actuator LH harness connector.

Passenger side anti-hijack relay connector	Terminal	Rear door lock actuator LH connector	Terminal	Continuity
M90	4	D115	1	Exists

2. Check continuity between passenger side anti-hijack relay harness connector and ground.

Passenger side anti-hijack relay connector	Terminal	Ground	Continuity
M90	4		Does not exist

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

REAR RH

REAR RH : Description

INFOID:000000001280510

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:000000001280511

1.CHECK FUNCTION

 With CONSULT-III

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The all door lock actuators are unlocked
	:LOCK	The all door lock actuators are locked

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-101, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001280512

1.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Ground	0 → Battery voltage → 0
M67	56		
		54	Unlock

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect BCM connector and rear door lock actuator RH connector.
3. Check continuity between BCM harness connector and rear door lock actuator RH harness connector.

BCM connector	Terminal	Rear door lock actuator RH connector	Terminal	Continuity
M67	56	D95	2	Exists
	54		1	

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		
	54		

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 3.

3.CHECK DOOR LOCK ACTUATOR CIRCUIT 2

1. Disconnect passenger side anti-hijack relay.
2. Check continuity between BCM harness connector and passenger side anti-hijack relay harness connector.

BCM connector	Terminal	Anti-hijack relay connector	Terminal	Continuity
M67	56	M90	3	Exists

3. Check continuity between BCM harness connector and ground.

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR LOCK ACTUATOR CIRCUIT 3

Check passenger side anti-hijack relay.

Anti-hijack relay connector	Terminal		Continuity
M90	4	3	Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK DOOR LOCK ACTUATOR CIRCUIT 4

1. Check continuity between passenger side anti-hijack relay harness connector and rear door lock actuator RH harness connector.

Passenger side anti-hijack relay connector	Terminal	Rear door lock actuator RH connector	Terminal	Continuity
M90	3	D95	3	Exists

2. Check continuity between passenger side anti-hijack relay harness connector and ground.

Passenger side anti-hijack relay connector	Terminal	Ground	Continuity
M90	3		Does not exist

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR OPENER ACTUATOR

Description

INFOID:000000001280514

Opens the back door with the signal from BCM.

Component Function Check

INFOID:000000001280515

1.CHECK FUNCTION

With CONSULT-III

Check "TRUNK/GLASS HATCH" in "Active Test" mode with CONSULT-III.

Test item	Condition
TRUNK/GLASS HATCH :OPEN	Back door opener actuator operation

Is the inspection result normal?

YES >> Back door opener actuator is OK.

NO >> Refer to [DLK-103, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001280516

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals		Condition of back door opener switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Pressed	0 → Battery voltage → 0
M66	45		

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK BACK DOOR LOCK ASSEMBLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and back door lock assembly connector.
3. Check continuity between BCM harness connector and back door lock assembly harness connector.

BCM connector	Terminal	Back door lock assembly connector	Terminal	Continuity
M66	45	D190	4	Exists

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M66	45		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BACK DOOR LOCK ASSEMBLY GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly connector	Terminal	Ground	Continuity
D190	3		Exists

Is the inspection result normal?

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BACK DOOR OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

FUEL LID OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

FUEL LID OPENER ACTUATOR

Description

INFOID:000000001297520

Locks/unlocks the fuel lid with the signal from BCM.

Component Function Check

INFOID:000000001297521

1.CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item	Condition	
DOOR LOCK/UNLOCK	:ALL UNLK	The fuel lid opener actuator are unlocked
	:DR UNLK	The fuel lid opener actuator is unlocked
	:LOCK	The fuel lid opener actuator are locked

Is the inspection result normal?

YES >> Fuel lid opener actuator is OK.

NO >> Refer to [DLK-105, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001297522

1.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	56	Lock	0 → Battery voltage → 0
	60	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK FUEL LID OPENER ACTUATOR CIRCUIT 1

1. Disconnect BCM connector and fuel lid opener actuator connector.
2. Check continuity between BCM harness connector and fuel lid opener actuator harness connector.

BCM connector	Terminal	Fuel lid opener actuator connector	Terminal	Continuity
M67	56	B58	2	Exists
	60		1	

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Continuity
M67	56	Does not exist
	60	

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 3.

3.CHECK FUEL LID OPENER ACTUATOR CIRCUIT 2

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FUEL LID OPENER ACTUATOR

[WITH I-KEY, WITHOUT SUPER LOCK]

< COMPONENT DIAGNOSIS >

1. Disconnect passenger side anti-hijack relay connector.
2. Check continuity between BCM harness connector and passenger side anti-hijack relay connector.

BCM connector	Terminal	Passenger side anti-hijack relay connector	Terminal	Continuity
M67	56	M90	3	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK FUEL LID OPENER ACTUATOR CIRCUIT 3

Check passenger side of anti-hijack relay.

Passenger side anti-hijack relay connector	Terminal		Continuity
M90	3	4	Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK DOOR LOCK ACTUATOR CIRCUIT 4

1. Check continuity between passenger side anti-hijack relay harness connector and fuel lid opener actuator harness connector.

Passenger side anti-hijack relay connector	Terminal	Fuel lid opener actuator connector	Terminal	Continuity
M90	4	B58	2	Exists

2. Check continuity between passenger side anti-hijack relay harness connector and ground.

Passenger side anti-hijack relay connector	Terminal	Ground	Continuity
M90	4		Does not exist

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR OPENER SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR OPENER SWITCH

Description

INFOID:000000001280518

Sends the back door opening signal to BCM.

Component Function Check

INFOID:000000001280519

1.CHECK FUNCTION

With CONSULT-III

Check "TRNK OPNR SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
TRNK OPNR SW	Back door opener switch is pressed :ON
	Back door opener switch is released :OFF

Is the inspection result normal?

- YES >> Back door opener switch is OK.
NO >> Refer to [DLK-107, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001280520

1.CHECK BCM INPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals		Condition of back door opener switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	29	Pressed	0
		Released	Battery voltage

Is the inspection result normal?

- YES >> GO TO 5.
NO >> GO TO 2.

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and back door opener switch assembly (opener switch) connector.
- Check continuity between BCM harness connector and back door opener switch assembly (opener switch) harness connector.

BCM connector	Terminal	Back door opener switch assembly (opener switch) connector	Terminal	Continuity
M65	29	D186	1	Exists

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	29		Does not exist

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

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BACK DOOR OPENER SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminals			Voltage (V) (Approx.)
(+)		(-)	
BCM connector	Terminal		
M65	29	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 6.

4.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

Check continuity between back door opener switch assembly (opener switch) connector and ground.

Back door opener switch assembly (opener switch) connector	Terminal	Ground	Continuity
D186	2		Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch assembly (opener switch).

Refer to [DLK-108, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door opener switch assembly. Refer to [DLK-300, "Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001280521

1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch assembly (opener switch).

Back door opener switch assembly (opener switch)	Terminal		Back door opener switch condition	Continuity
	D186	1	2	Pressed
Released				Does not exist

Is the inspection result normal?

YES >> Back door opener switch assembly (opener switch) is OK.

NO >> Replace back door opener switch assembly. Refer to [DLK-300, "Removal and Installation"](#).

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001280522

Detects whether Intelligent Key is outside the vehicle.
Integrated in front outside handle (driver side).

DRIVER SIDE : Component Function Check

INFOID:000000001280523

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
2. Touch "DRIVER ANT".
3. When Intelligent Key is in outside key antenna (driver side) detection area, LED (on Intelligent Key) blinks.

Test Item	Outside Antenna
ANTENNA :DRIVER ANT	Outside key antenna (driver side)

Is the inspection result normal?

- YES >> Outside key antenna (driver side) is OK.
NO >> Refer to [DLK-115, "BACK DOOR : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001280524

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

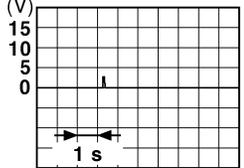
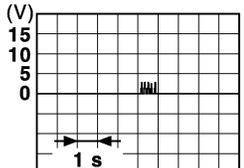
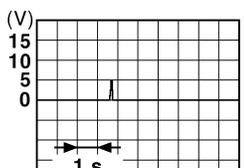
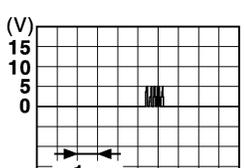
1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

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OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminals			(-)	Condition	Signal (Reference value)	
(+)		Terminal				
Intelligent Key unit connector	Terminal					
M40	Driver side (+)	19	Ground	Request switch is pressed	When Intelligent Key is in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0397ZZ</p>
				When Intelligent Key is not in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>	
	Driver side (-)	20		When Intelligent Key is in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0395ZZ</p>	
				When Intelligent Key is not in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0515ZZ</p>	

Is the inspection result normal?

- YES >> GO TO 4.
NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and outside key antenna and front door request switch (driver side) connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna and front door request switch (driver side) harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna and front door request switch (driver side) connector	Terminal	Continuity
M40	19	D30	1	Exists
	20		2	

3. Check continuity between Intelligent Key unit connector and ground.

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	19	Ground	Does not exist
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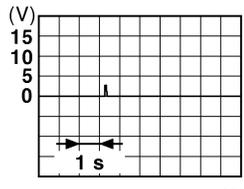
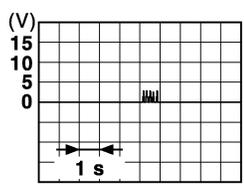
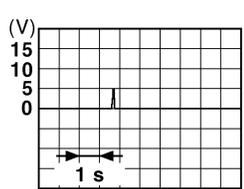
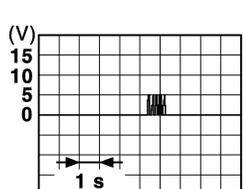
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna (driver side).

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna. (New antenna or other antenna)
2. Connect Intelligent Key unit connector and outside key antenna connector.
3. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

Terminals			(-)	Condition	Signal (Reference value)
(+)		Terminal			
Intelligent Key unit connector	Terminal				
M40	Driver side (+)	19	Ground	Door request switch is pressed	
				When Intelligent Key is in the antenna detection area.	
	Driver side (-)	20	Ground	Door request switch is pressed	
				When Intelligent Key is not in the antenna detection area.	

Is the inspection result normal?

YES >> Replace outside key antenna and front door request switch (driver side). Refer to [DLK-296](#), "[DRIVER SIDE : Removal and Installation](#)".

NO >> GO TO 4.

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OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001280525

Detects whether Intelligent Key is outside the vehicle.
Integrated in front outside handle (passenger side).

PASSENGER SIDE : Component Function Check

INFOID:000000001280526

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
2. Touch "ASSIST ANT".
3. When Intelligent Key is in outside key antenna (passenger side) detection area, LED (on Intelligent Key) blinks.

Test Item	Outside Antenna
ANTENNA :ASSIST ANT	Outside key antenna (passenger side)

Is the inspection result normal?

- YES >> Outside key antenna (passenger side) is OK.
NO >> Refer to [DLK-112. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001280527

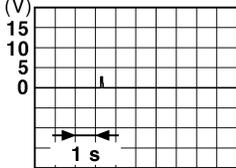
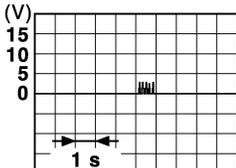
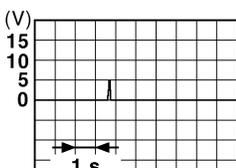
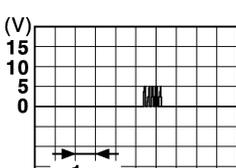
1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminals			(-)	Condition	Signal (Reference value)	
(+)		Terminal				
Intelligent Key unit connector	Terminal					
M40	Passenger side (+)	37	Ground	Request switch is pressed	When Intelligent Key is in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0397ZZ</p>
	Passenger side (+)	37		When Intelligent Key is not in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>	
	Passenger side (-)	38		When Intelligent Key is in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0395ZZ</p>	
	Passenger side (-)	38		When Intelligent Key is not in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0515ZZ</p>	

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and outside key antenna and front door request switch (passenger side) connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna and front door request switch (passenger side) harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna and front door request switch (passenger side) connector	Terminal	Continuity
M40	37	D69	1	Exists
	38		2	

3. Check continuity between Intelligent Key unit harness connector and ground.

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OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	37	Ground	Does not exist
	38		

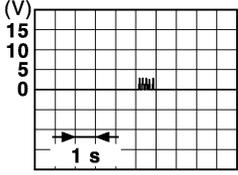
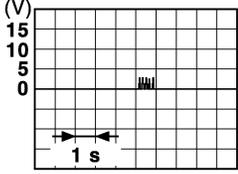
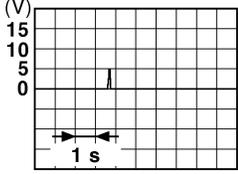
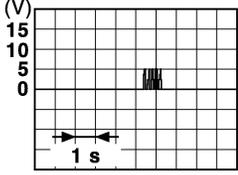
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna and front door request switch (passenger side).

3.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna. (New antenna or other antenna)
2. Connect Intelligent Key unit connector and outside key antenna connector.
3. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

Terminal		(-)	Condition	Signal (Reference value)
(+)				
Intelligent Key unit connector	Terminal			
M40	Passenger side (+)	37	When Intelligent Key is in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>
	Passenger side (+)	37	When Intelligent Key is not in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>
	Passenger side (-)	38	When Intelligent Key is in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0395ZZ</p>
	Passenger side (-)	38	When Intelligent Key is not in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0515ZZ</p>

Is the inspection result normal?

YES >> Replace outside key antenna and front door request switch (passenger side). Refer to [DLK-296](#), "[PASSENGER SIDE : Removal and Installation](#)".

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

NO >> GO TO 4.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR

BACK DOOR : Description

INFOID:000000001280528

Detects whether Intelligent Key is outside the vehicle.
Installed in rear bumper.

BACK DOOR : Component Function Check

INFOID:000000001280529

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
2. Touch "BK DOOR ANT".
3. When Intelligent Key is in outside key antenna (rear bumper) detection area, LED (on Intelligent Key) blinks.

Test Item	Outside Antenna
ANTENNA :BK DOOR ANT	Outside key antenna (rear bumper)

Is the inspection result normal?

YES >> Outside key antenna (back door) is OK.

NO >> Refer to [DLK-115, "BACK DOOR : Diagnosis Procedure"](#).

BACK DOOR : Diagnosis Procedure

INFOID:000000001280530

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

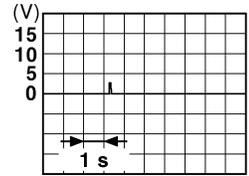
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OUTSIDE KEY ANTENNA

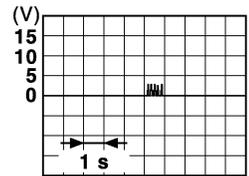
< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

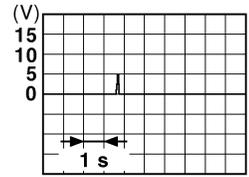
Terminal		(-)	Condition	Signal (Reference value)
(+)				
Intelligent Key unit connector	Terminal			
M40	Rear bumper (+)	17	Request switch is pressed	When Intelligent Key is in the antenna detection area.
				When Intelligent Key is not in the antenna detection area.
				When Intelligent Key is in the antenna detection area.
				When Intelligent Key is not in the antenna detection area.
		Ground		
		Ground		
		17		
		18		



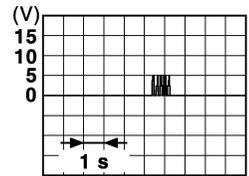
JMKIA0397ZZ



JMKIA0514ZZ



JMKIA0395ZZ



JMKIA0515ZZ

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and outside key antenna (back door) connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna (back door) harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna (back door) connector	Terminal	Continuity
M40	17	D191	1	Exists
	18		2	

3. Check continuity between Intelligent Key unit harness connector and ground.

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	17		
	18		

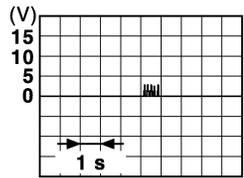
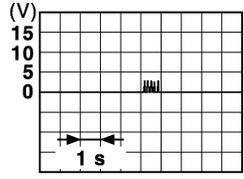
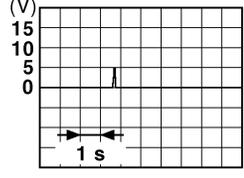
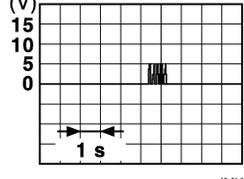
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna (back door).

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna. (New antenna or other antenna)
2. Connect Intelligent Key unit connector and outside key antenna (back door) connector.
3. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

Terminal			Condition	Signal (Reference value)
(+)		(-)		
Intelligent Key unit connector	Terminal			
M40	Rear bumper (+)	17	Door request switch is pressed	When Intelligent Key is in the antenna detection area.  <small>JMKIA0514ZZ</small>
	Rear bumper (-)	18		When Intelligent Key is not in the antenna detection area.  <small>JMKIA0514ZZ</small>
			Ground	When Intelligent Key is in the antenna detection area.  <small>JMKIA0395ZZ</small>
				When Intelligent Key is not in the antenna detection area.  <small>JMKIA0515ZZ</small>

Is the inspection result normal?

YES >> Replace outside key antenna (back door). Refer to [DLK-296. "BACK DOOR : Removal and Installation"](#).

NO >> GO TO 4.

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OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

INSIDE KEY ANTENNA INSTRUMENT CENTER

A

INSTRUMENT CENTER : Description

INFOID:000000001280531

Detects whether Intelligent Key is inside the vehicle.

B

INSTRUMENT CENTER : Component Function Check

INFOID:000000001280532

C

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

D

④ With CONSULT-III

1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
2. Touch "ROOM ANT 2".
3. When Intelligent Key is in inside key antenna (instrument center) detection area, LED (on Intelligent Key) blinks.

E

Test Item	Inside Antenna
ANTENNA :ROOM ANT 2	Inside key antenna (instrument center)

F

Is the inspection result normal?

G

YES >> Inside key antenna (instrument center) is OK.

NO >> Refer to [DLK-119, "INSTRUMENT CENTER : Diagnosis Procedure"](#).

INSTRUMENT CENTER : Diagnosis Procedure

INFOID:000000001280533

H

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

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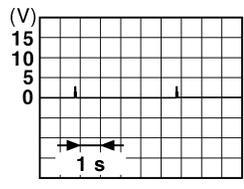
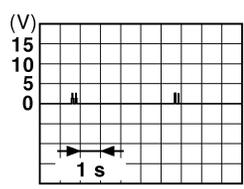
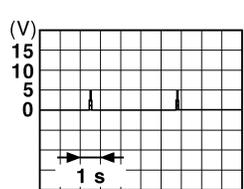
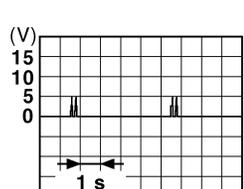
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INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminals			(-)	Condition	Signal (Reference value)
(+)		Terminal			
Intelligent Key unit connector	Terminal				
M40	Instrument center (+)	33	Ground	When Intelligent Key is in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
				When Intelligent Key is not in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0391ZZ</p>
	Instrument center (-)	34		When Intelligent Key is in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
				When Intelligent Key is not in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0390ZZ</p>

Is the inspection result normal?

- YES >> GO TO 4.
NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and inside key antenna (instrument center) connector.
2. Check continuity between Intelligent Key unit harness connector and inside key antenna (instrument center) harness connector.

Intelligent Key unit connector	Terminal	Inside key antenna (instrument center) connector	Terminal	Continuity
M40	33	M56	1	Exists
	34		2	

3. Check continuity between Intelligent Key unit harness connector and ground.

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	33	Ground	Does not exist
	34		

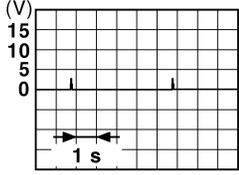
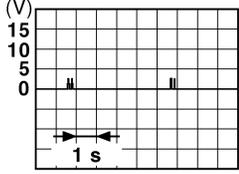
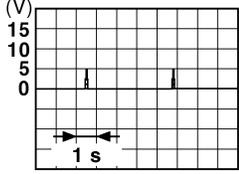
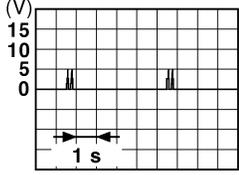
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and inside key antenna (instrument center).

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace inside key antenna. (New antenna or other antenna)
2. Connect Intelligent Key unit connector and inside key antenna (instrument center) connector.
3. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

Terminals			Condition	Signal (Reference value)
(+)		(-)		
Intelligent Key unit connector	Terminal			
M40	Instrument center (+)	33	Ground • All doors are closed • Ignition knob switch is pressed	When Intelligent Key is in the antenna detection area.  <p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
				When Intelligent Key is not in the antenna detection area.  <p style="text-align: right; font-size: small;">JMKIA0391ZZ</p>
				When Intelligent Key is in the antenna detection area.  <p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
				When Intelligent Key is not in the antenna detection area.  <p style="text-align: right; font-size: small;">JMKIA0390ZZ</p>

Is the inspection result normal?

YES >> Replace inside key antenna (instrument center). Refer to [DLK-293, "INSTRUMENT CENTER : Removal and Installation"](#).

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

NO >> GO TO 4.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

CONSOLE

CONSOLE : Description

INFOID:000000001280534

Detects whether Intelligent Key is inside the vehicle.

CONSOLE : Component Function Check

INFOID:000000001280535

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
2. Touch "ROOM ANT 1".
3. When Intelligent Key is in inside key antenna (console) detection area, LED (on Intelligent Key) blinks.

Test Item	Inside Antenna
ANTENNA :ROOM ANT 1	Inside key antenna (console)

Is the inspection result normal?

YES >> Inside key antenna (console) is OK.

NO >> Refer to [DLK-122, "CONSOLE : Diagnosis Procedure"](#).

CONSOLE : Diagnosis Procedure

INFOID:000000001280536

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminal			(-)	Condition	Signal (Reference value)
(+)		Terminal			
Intelligent Key unit connector	Terminal				
M40	Console (+)	15	Ground	When Intelligent Key is in the antenna de- tection area.	<p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
				When Intelligent Key is not in the antenna de- tection area.	<p style="text-align: right; font-size: small;">JMKIA0391ZZ</p>
				When Intelligent Key is in the antenna de- tection area.	<p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
				When Intelligent Key is not in the antenna de- tection area.	<p style="text-align: right; font-size: small;">JMKIA0390ZZ</p>

Is the inspection result normal?

- YES >> GO TO 4.
NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and inside key antenna (console) connector.
2. Check continuity between Intelligent Key unit harness connector and inside key antenna (console) harness connector.

Intelligent Key unit connector	Terminal	Inside key antenna (console) connector	Terminal	Continuity
M40	15	M252	1	Exists
	16		2	

3. Check continuity between Intelligent Key unit harness connector and ground.

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INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	15		Does not exist
	16		

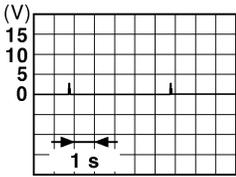
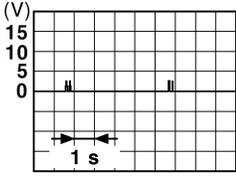
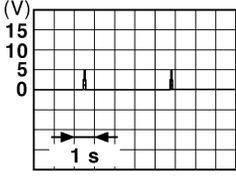
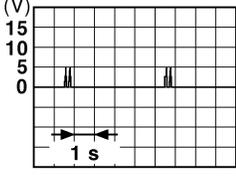
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and inside key antenna (console).

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace inside key antenna. (New antenna or other antenna)
2. Connect Intelligent Key unit connector and inside key antenna (console) connector.
3. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

Terminal		(-)	Condition	Signal (Reference value)
(+)				
Intelligent Key unit connector	Terminal			
M40	Console (+)	15	Ground	<p>When Intelligent Key is in the antenna detection area.</p>  <p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
	Console (+)	15	Ground	<p>When Intelligent Key is not in the antenna detection area.</p>  <p style="text-align: right; font-size: small;">JMKIA0391ZZ</p>
	Console (-)	16	Ground	<p>When Intelligent Key is in the antenna detection area.</p>  <p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
	Console (-)	16	Ground	<p>When Intelligent Key is not in the antenna detection area.</p>  <p style="text-align: right; font-size: small;">JMKIA0390ZZ</p>

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to [DLK-294, "CONSOLE : Removal and Installation"](#).

NO >> GO TO 4.

4. CHECK INTERMITTENT INCIDENT

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

REAR SEAT

REAR SEAT : Description

INFOID:000000001280537

Detects whether Intelligent Key is inside the vehicle.

REAR SEAT : Component Function Check

INFOID:000000001280538

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
2. Touch "ROOM ANT 2".
3. When Intelligent Key is in inside key antenna (rear seat) detection area, LED (on Intelligent Key) blinks.

Test Item	Inside Antenna
ANTENNA :ROOM ANT 2	Inside key antenna (rear seat)

Is the inspection result normal?

YES >> Inside key antenna (rear seat) is OK.

NO >> Refer to [DLK-125. "REAR SEAT : Diagnosis Procedure"](#).

REAR SEAT : Diagnosis Procedure

INFOID:000000001280539

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

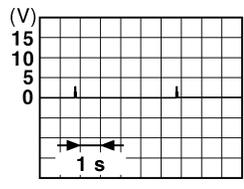
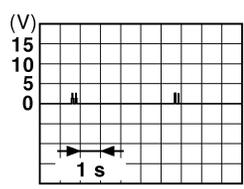
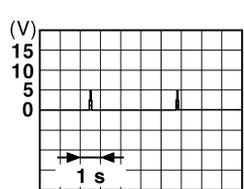
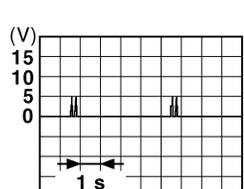
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INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminal		(-)	Condition	Signal (Reference value)
(+)				
Intelligent Key unit connector	Terminal			
M40	Rear seat (+)	13	• All doors are closed • Ignition knob switch is pressed	When Intelligent Key is in the antenna detection area. <div style="text-align: right;">  <p style="font-size: small;">(V) 15 10 5 0 1 s</p> <p style="font-size: x-small;">JMKIA0393ZZ</p> </div>
				When Intelligent Key is not in the antenna detection area. <div style="text-align: right;">  <p style="font-size: small;">(V) 15 10 5 0 1 s</p> <p style="font-size: x-small;">JMKIA0391ZZ</p> </div>
	Rear seat (-)	14		When Intelligent Key is in the antenna detection area. <div style="text-align: right;">  <p style="font-size: small;">(V) 15 10 5 0 1 s</p> <p style="font-size: x-small;">JMKIA0392ZZ</p> </div>
				When Intelligent Key is not in the antenna detection area. <div style="text-align: right;">  <p style="font-size: small;">(V) 15 10 5 0 1 s</p> <p style="font-size: x-small;">JMKIA0390ZZ</p> </div>

Is the inspection result normal?

- YES >> GO TO 4.
 NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and inside key antenna (rear seat) connector.
2. Check continuity between Intelligent Key unit harness connector and inside key antenna (rear seat) harness connector.

Intelligent Key unit connector	Terminal	Inside key antenna (rear seat) connector	Terminal	Continuity
M40	13	B45	1	Exists
	14		2	

3. Check continuity between Intelligent Key unit harness connector and ground.

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	13		
	14		

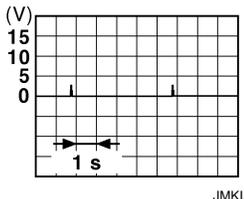
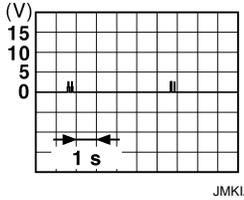
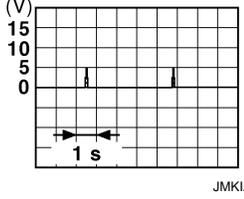
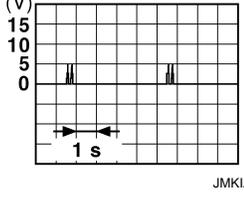
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and inside key antenna (rear seat).

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace inside key antenna. (New antenna or other antenna)
2. Connect Intelligent Key unit connector and inside key antenna (rear seat) connector.
3. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

Terminal		(-)	Condition	Signal (Reference value)
(+)				
Intelligent Key unit connector	Terminal			
M40	Rear seat (+)	13	<ul style="list-style-type: none"> All doors are closed Ignition knob switch is pressed 	When Intelligent Key is in the antenna detection area. 
				When Intelligent Key is not in the antenna detection area. 
	Rear seat (-)	14		When Intelligent Key is in the antenna detection area. 
				When Intelligent Key is not in the antenna detection area. 

Is the inspection result normal?

YES >> Replace inside key antenna (rear seat). Refer to [DLK-295. "REAR : Removal and Installation"](#).

NO >> GO TO 4.

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INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

ANTI-HIJACK RELAY

[WITH I-KEY, WITHOUT SUPER LOCK]

< COMPONENT DIAGNOSIS >

ANTI-HIJACK RELAY PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001280540

Receives anti-hijack signal from Intelligent Key unit.

PASSENGER SIDE : Component Function Check

INFOID:000000001280541

1.CHECK FUNCTION

1. All doors are locked using Intelligent Key or door request switch.
2. Press door request switch (passenger side), only passenger side door is UNLOCK.

Is the inspection result normal?

- YES >> Anti-hijack relay is OK.
NO >> Refer to [DLK-129. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001280542

1.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL 1

Check voltage between Intelligent Key unit harness connector and ground.

Terminal		Condition	Voltage (V) (Approx.)
(+)	(-)		
Intelligent Key unit connector	Terminal		
M40	11	Ignition switch OFF	Battery voltage

Is the inspection result normal?

- YES >> GO TO 2.
NO >> GO TO 6.

2.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL 2

Check voltage between Intelligent Key unit harness connector and ground.

Terminal		Condition	Voltage (V) (Approx.)
(+)	(-)		
Intelligent Key unit connector	Terminal		
M40	40	Press front door request switch (passenger side)	Battery voltage → 0 → Battery voltage
		Anti-hijack operation	Battery voltage
		Other than above	Battery voltage

Is the inspection result normal?

- YES >> GO TO 3.
NO >> GO TO 4.

3.CHECK INTELLIGENT KEY UNIT GROUND CIRCUIT

Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	12		Exists

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Repair harness or connector.

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ANTI-HIJACK RELAY

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

4.CHECK PASSENGER SIDE ANTI-HIJACK RELAY GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect passenger side anti-hijack relay connector and Intelligent Key unit connector.
3. Check voltage between passenger side anti-hijack relay harness connector and ground.

Terminal		Condition	Voltage (V) (Approx.)
(+)	(-)		
Passenger side anti-hijack relay connector	Terminal		
M90	2	Ground	Battery voltage

4. Check continuity between passenger side anti-hijack relay harness connector and Intelligent Key unit connector.

Passenger side anti-hijack relay connector	Terminal	Intelligent Key unit connector	Terminal	Continuity
M90	1	M40	40	Exists

5. Check continuity between passenger side anti-hijack relay harness connector and ground.

Passenger side anti-hijack relay connector	Terminal	Ground	Continuity
M90	1		Does not exist

Is the inspection result normal?

- YES >> GO TO 5.
NO >> GO TO 6.

5.CHECK PASSENGER SIDE ANTI-HIJACK RELAY

Check passenger side anti-hijack relay.

Refer to [DLK-130, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 6.
NO >> Replace passenger side anti-hijack relay. Refer to [DLK-28, "DOOR LOCK AND UNLOCK SWITCH : Component Parts Location"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000001280543

1.CHECK ANTI-HIJACK RELAY

Check continuity passenger side anti-hijack relay terminals.

Passenger side anti-hijack relay connector	Terminal		Condition	Continuity
M90	4	3	Battery voltage direct current supply between terminals 1 and 2	Does not exist
			Other than above	Exists

Is the inspection result normal?

- YES >> Passenger side anti-hijack relay is OK.
NO >> Replace passenger side anti-hijack relay. Refer to [DLK-28, "DOOR LOCK AND UNLOCK SWITCH : Component Parts Location"](#).

INTELLIGENT KEY WARNING BUZZER

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

INTELLIGENT KEY WARNING BUZZER

Description

INFOID:000000001280544

Answers back and warns about an inappropriate operation.

Component Function Check

INFOID:000000001280545

1.CHECK FUNCTION

With CONSULT-III

Check Intelligent Key warning buzzer "OUTSIDE BUZZER" in "Active Test" mode with CONSULT-III.

Is the inspection result normal?

YES >> Intelligent Key warning buzzer is OK.

NO >> Refer to [DLK-131, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001280546

1.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL 1

Check voltage between Intelligent Key unit harness connector and ground.

Terminal		Warning buzzer operation condition	Voltage (V) (Approx.)
(+)			
Intelligent Key unit connector	Terminal		
M40	4	Ground	0
			Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key warning buzzer connector.
3. Check voltage between Intelligent Key warning buzzer harness connector and ground.

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Terminal		Voltage (V) (Approx.)
(+)		
Intelligent Key warning buzzer connector	Terminal	
E25	1	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace Intelligent Key warning buzzer power supply circuit.

3.CHECK HARNESS CONTINUITY

1. Disconnect Intelligent Key unit connector.
2. Check continuity between Intelligent Key warning buzzer harness connector and Intelligent Key unit harness connector.

Intelligent Key warning buzzer connector	Terminal	Intelligent Key unit connector	Terminal	Continuity
E25	3	M40	4	Exists

3. Check continuity between Intelligent Key warning buzzer harness connector and ground.

INTELLIGENT KEY WARNING BUZZER

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Intelligent Key warning buzzer connector	Terminal	Ground	Continuity
E25	3		Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness between Intelligent Key warning buzzer and Intelligent Key unit.

4.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-132. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-298. "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001280547

1.CHECK INTELLIGENT KEY WARNING BUZZER

Connect battery power supply to Intelligent Key warning buzzer terminals 1 and 3, and check the operation.

Intelligent Key warning buzzer connector	Terminal		Operation
	(+)	(-)	
E25	1	3	Buzzer sounds

Is the inspection result normal?

YES >> Intelligent Key warning buzzer is OK.

NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-298. "Removal and Installation"](#).

BUZZER (COMBINATION METER)

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BUZZER (COMBINATION METER)

Description

INFOID:000000001280548

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:000000001280549

1.CHECK FUNCTION

With CONSULT-III

Check the operation with "INSIDE BUZZER" in "Active Test" with CONSULT-III.

Test item	Condition	
INSIDE BUZZER	:TAKE OUT	Take away warning chime sounds
	:KNOB	Ignition knob switch warning chime sounds
	:KEY	Key warning chime sounds

Is the inspection result normal?

- Yes >> Warning buzzer in combination meter is OK.
- No >> Refer to [DLK-133, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001280550

1.CHECK BUZZER (COMBINATION METER) CIRCUIT

Refer to [DLK-133, "Component Function Check"](#).

Is the inspection result normal?

- Yes >> GO TO 2.
- No >> Repair or replace buzzer (combination meter) circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

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KEY WARNING LAMP

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

KEY WARNING LAMP

Description

INFOID:000000001280551

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:000000001280552

1.CHECK FUNCTION

With CONSULT-III

Check the operation with "INDICATOR" in "Active Test" mode with CONSULT-III.

Test item	Condition	
INDICATOR	:BLUE ON	Key warning lamp (green) illuminates
	:RED ON	Key warning lamp (red) illuminates
	:BLUE IND	Key warning lamp (green) flashes
	:RED IND	Key warning lamp (red) flashes

Is the inspection result normal?

Yes >> Key warning lamp in combination meter is OK.

No >> Refer to [DLK-134, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001280553

1.CHECK KEY WARNING LAMP CIRCUIT

Refer to [DLK-134, "Component Function Check"](#) .

Is the inspection result normal?

Yes >> GO TO 2.

No >> Repair or replace key warning lamp circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

LOCK WARNING LAMP

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

LOCK WARNING LAMP

Description

INFOID:000000001280554

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:000000001280555

1.CHECK FUNCTION

With CONSULT-III

Check the operation with "INDICATOR" in "Active Test" mode with CONSULT-III.

Test item	Condition	
INDICATOR	:KNOB ON	Lock warning lamp illuminates
	:KNOB IND	Lock warning lamp flashes

Is the inspection result normal?

- Yes >> Lock warning lamp in combination meter is OK.
- No >> Refer to [DLK-135, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001280556

1.CHECK LOCK WARNING LAMP CIRCUIT

Refer to [DLK-135, "Component Function Check"](#).

Is the inspection result normal?

- Yes >> GO TO 2.
- No >> Repair or replace lock warning lamp circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

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HAZARD WARNING LAMPS

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

HAZARD WARNING LAMPS

Description

INFOID:000000001280557

Performs answer-back for each operation with the number of blinks.

Component Function Check

INFOID:000000001280558

1.CHECK FUNCTION

Ⓟ With CONSULT-III

Check hazard warning lamp "FLASHER" in "Active Test" mode with CONSULT-III.

Is the inspection result normal?

- YES >> Hazard warning lamp circuit is OK.
- NO >> Refer to [DLK-136, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001280559

1.CHECK HAZARD SWITCH CIRCUIT

Check hazard switch circuit.

Refer to [DLK-136, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace hazard warning switch circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

VEHICLE SPEED SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

VEHICLE SPEED SIGNAL CIRCUIT

Description

INFOID:000000001280560

Displays the vehicle speed signal received from combination meter as a numerical value (km/h).

Component Function Check

INFOID:000000001280561

1.CHECK FUNCTION

Check that all doors are automatically locked at the vehicle speed of more than 25 km/h (16 MPH).

Is the inspection result normal?

YES >> Vehicle speed signal circuit is OK.

NO >> Refer to [DLK-137, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001280562

1.CHECK VEHICLE SPEED SIGNAL CIRCUIT

Check vehicle speed signal "VEHICLE SPEED" in "Data Monitor" mode with CONSULT-III.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace vehicle speed signal circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

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INTELLIGENT KEY BATTERY

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

INTELLIGENT KEY BATTERY

Description

INFOID:000000001280563

The following functions are available when having and carrying electronic ID.

- Door lock and unlock
- Engine start

Remote control entry function and panic alarm function are available when operating the button.

Component Function Check

INFOID:000000001280564

1.CHECK INTELLIGENT KEY FUNCTION

Does door lock and unlock operate when operating Intelligent Key switch?

Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Refer to [DLK-138, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001280565

1.CHECK INTELLIGENT KEY BATTERY

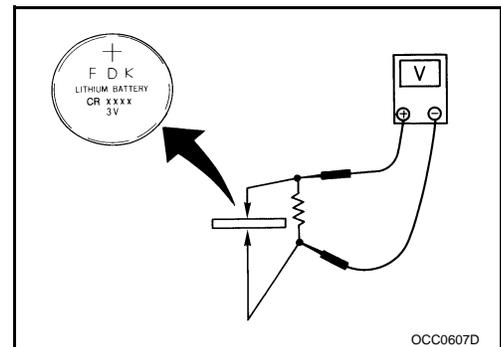
Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0V

Is the measurement value within the specification?

YES >> Replace Intelligent Key.

NO >> Replace Intelligent Key battery. Refer to [DLK-138, "Component Function Check"](#).



INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

ECU DIAGNOSIS

INTELLIGENT KEY UNIT

Reference Value

INFOID:000000001280576

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status	
PUSH SW	Ignition knob	Release	OFF
		Press	ON
KEY ON SW	Mechanical key	Removed	OFF
		Inserted	ON
DR REQ SW	Door request switch (driver)	Release	OFF
		Press	ON
AS REQ SW	Door request switch (passenger)	Release	OFF
		Press	ON
BD/TR REQ SW	Door request switch (back door)	Release	OFF
		Press	ON
IGN SW	Ignition switch	Other than ON position	OFF
		ON position	ON
ACC SW	Ignition switch	Other than ACC or ON position	OFF
		ACC or ON position	ON
STOP LAMP SW	Brake pedal	Press	OFF
		Release	ON
DOOR LOCK SIG	Lock button of Intelligent Key	Release	OFF
		Press	ON
DOOR UNLOCK SIG	Unlock button of Intelligent Key	Release	OFF
		Press	ON
DOOR SW DR	Door (driver side)	Close	OFF
		Open	ON
DOOR SW AS	Door (passenger side)	Close	OFF
		Open	ON
DOOR SW RR	Door (rear RH)	Close	OFF
		Open	ON
DOOR SW RL	Door (rear LH)	Close	OFF
		Open	ON
DOOR BK SW	Back door	Close	OFF
		Open	ON
VEHICLE SPEED	While driving	Equivalent to speedometer reading	

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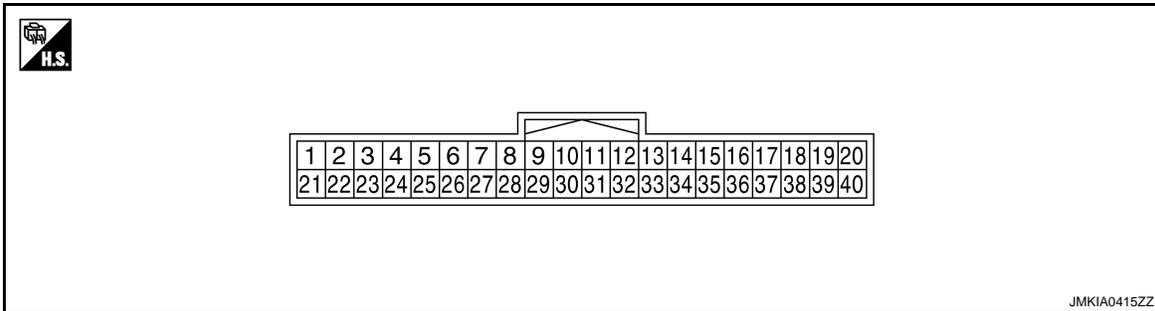
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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No.		Wire color	Description		Condition	Value [V] (Approx.)	
+	-		Signal name	Input/Output			
1	Ground	LG	Steering lock unit power supply	Output	—	5	
2	Ground	L	CAN - H	Input/Output	—	—	
3	Ground	P	CAN - L	Input/Output	—	—	
4	Ground	LG	Intelligent Key warning buzzer	Output	Intelligent Key warning buzzer	Sounding	0
					Not sounding	Battery voltage	
5	Ground	P	Front door request switch (driver side)	Input	Front door request switch (driver side)	ON (Pressed)	0
					OFF (Released)	5	
6	Ground	W	Ignition switch power supply	Input	Ignition switch	OFF or ACC	0
					ON or START	Battery voltage	
7	Ground	V	Key switch	Input	When ignition key is inserted into ignition key cylinder	Battery voltage	
					When ignition key is not inserted into ignition key cylinder	0	
11	Ground	V	Battery power supply	Input	Ignition switch OFF	Battery voltage	
12	Ground	B	Ground	—	Ignition switch ON	0	
13	Ground	Y	Inside key antenna (+) (rear seat)	Output	Ignition knob is pressed.	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
					When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0391ZZ</p>	

INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No.		Wire color	Description		Condition	Value [V] (Approx.)
+	-		Signal name	Input/Output		
14	Ground	W	Inside key antenna (-) (rear seat)	Output	Ignition knob is pressed.	<p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
						<p style="text-align: right; font-size: small;">JMKIA0390ZZ</p>
15	Ground	SB	Inside key antenna (+) (console)	Output	Ignition knob is pressed.	<p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
						<p style="text-align: right; font-size: small;">JMKIA0391ZZ</p>
16	Ground	BR	Inside key antenna (-) (console)	Output	Ignition knob is pressed.	<p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
						<p style="text-align: right; font-size: small;">JMKIA0390ZZ</p>

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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No.		Wire color	Description		Condition	Value [V] (Approx.)
+	-		Signal name	Input/Output		
17	Ground	SB	Outside key antenna (+) (rear bumper)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0397ZZ</p>
					When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>
18	Ground	V	Outside key antenna (-) (rear bumper)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0395ZZ</p>
					When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0515ZZ</p>
19	Ground	L	Outside key antenna (+) (driver side)	Output	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0397ZZ</p>
					When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>

INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No.		Wire color	Description		Condition		Value [V] (Approx.)
+	-		Signal name	Input/Output			
20	Ground	BR	Outside key antenna (-) (driver side)	Output	When the front door request switch (driver side) is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	
						When Intelligent Key is not in the antenna detection area	
22*1	Ground	W	Key lock solenoid	Output	Key lock solenoid	LOCK*2	Battery voltage
						UNLOCK*2	0
25	Ground	BR	Front door request switch (passenger side)	Input	Front door request switch (passenger side)	ON (Pressed)	0
						OFF (Released)	5
26	Ground	R	Stop lamp switch	Input	Depress the brake pedal	Battery voltage	
						Release the brake pedal	0
27	Ground	L	Ignition knob switch	Input	Ignition switch OFF	When ignition knob switch is pressed	Battery voltage
						When ignition knob switch is released	0
28	Ground	O	Unlock sensor	Input	Lock (ON)	5	
						Unlock (OFF)	0
29	Ground	GR	Back door request switch	Input	Back door request switch	ON (Pressed)	0
						OFF (Released)	5
31	Ground	GR	Steering lock unit ground	—	—	—	0
32	Ground	P	Steering lock unit communication	Input/Output	Steering lock	LOCK status	5
						LOCK or UNLOCK	

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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

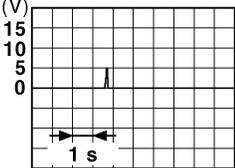
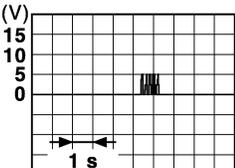
< ECU DIAGNOSIS >

Terminal No.		Wire color	Description		Condition	Value [V] (Approx.)
+	-		Signal name	Input/ Output		
33	Ground	O	Inside key antenna (+) (instrument center)	Output	Ignition knob is pressed.	<p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
					Ignition knob is pressed.	<p style="text-align: right; font-size: small;">JMKIA0391ZZ</p>
34	Ground	G	Inside key antenna (-) (instrument center)	Output	Ignition knob is pressed.	<p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
					Ignition knob is pressed.	<p style="text-align: right; font-size: small;">JMKIA0390ZZ</p>
37	Ground	L	Outside key antenna (+) (passenger side)	Output	When the front door request switch (passenger side) is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0397ZZ</p>
					When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>

INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No.		Wire color	Description		Condition	Value [V] (Approx.)
+	-		Signal name	Input/Output		
38	Ground	O	Outside key antenna (-) (passenger side)	Output	When the front door request switch (passenger side) is operated with ignition switch OFF	
					When Intelligent Key is not in the antenna detection area	
40	Ground	Y	Passenger side anti-hijack relay	Input	Anti-hijack operation	Battery voltage → 0 → Battery voltage
					Other than above	Battery voltage

*1: Only for MT model.

*2: Key interlock operation is only for M/T model for operation condition, refer to [SEC-16, "System Description"](#).

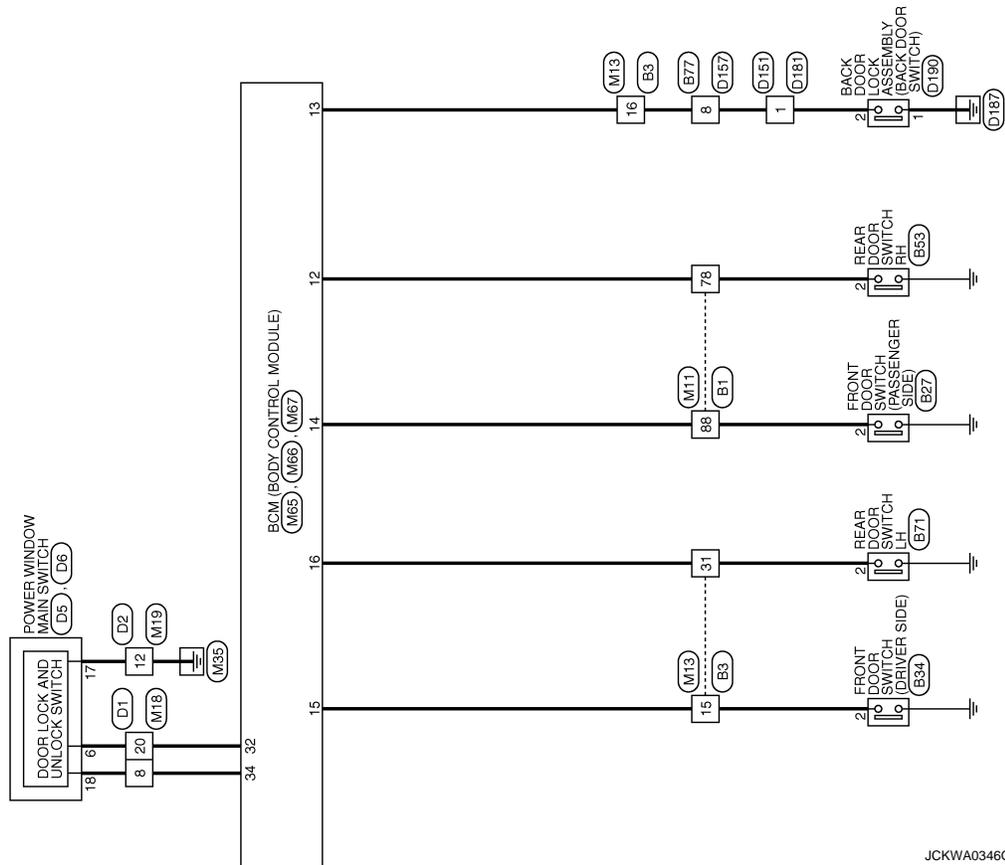
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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >



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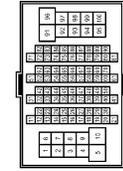
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



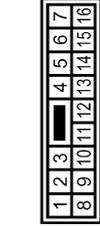
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	O	-
78	Y	-
88	BR	-
97	V	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



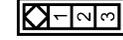
Terminal No.	Color of Wire	Signal Name [Specification]
15	P	-
16	V	-
31	GR	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS18MW-CS



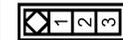
Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	O	-

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



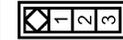
Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	[LHD models]

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



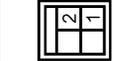
Terminal No.	Color of Wire	Signal Name [Specification]
2	P	[LHD models]

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



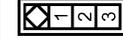
Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-

Connector No.	B59
Connector Name	FUEL LID OPENER ACTUATOR
Connector Type	M04FW-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	UNLOCK
2	V	LOCK

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-

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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10WV-CS




Terminal No.	Color of Wire	Signal Name [Specification]
8	V	-

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	O	-

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	O	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH




Terminal No.	Color of Wire	Signal Name [Specification]
8	G	-
20	BR	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
12	B	-

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



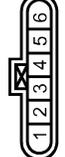

Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS09FW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
17	B	-
18	G	-

Connector No.	D9
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	E08FGY-RS

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-

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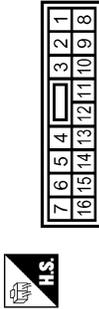
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
8	V	-

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	ED8FGY-RS



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	V	-

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	G	-

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	ED8FGY-RS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	G	-

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	ED8FGY-RS



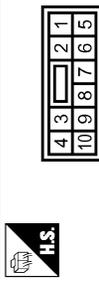
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	V	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS8BFR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
8	V	-

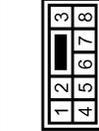
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NSJ3MBR-CS



Terminal No.	1	2	3	4	5	6	7	8
Color of Wire	V	V						
Signal Name [Specification]								

Connector No.	D180
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NSJ4FW-CS



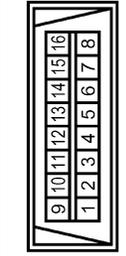
Terminal No.	1	2
Color of Wire	B	V
Signal Name [Specification]		

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



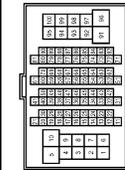
Terminal No.	5
Color of Wire	Y
Signal Name [Specification]	

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD18FW



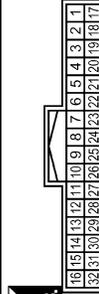
Terminal No.	6	14
Color of Wire	L	P
Signal Name [Specification]		

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



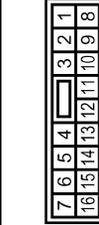
Terminal No.	1	3	78	88	97
Color of Wire	G	G	LG	BR	V
Signal Name [Specification]					

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



Terminal No.	15	16	31
Color of Wire	P	V	GR
Signal Name [Specification]			

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	6	14
Color of Wire	V	O
Signal Name [Specification]		

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	8	20
Color of Wire	P	BR
Signal Name [Specification]		

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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
12	B	-

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK08MGY



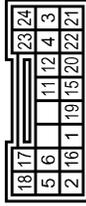
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB4DFW



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M59
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TR20FY-EX-SC



Terminal No.	Color of Wire	Signal Name [Specification]
19	R	DEPLOYMENT INFORMATION(LHD models with side air bag)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAB40FB



Terminal No.	Color of Wire	Signal Name [Specification]
5	LG	KEY SW (With Intelligent Key)
12	LG	DOOR SW (RR)
13	V	DOOR SW (BACK)(LHD models)
14	BR	DOOR SW (AS)(LHD models)
15	P	DOOR SW (DR)(LHD models)
16	GR	DOOR SW (RL)(LHD models)
21	P	CAN-L
22	L	CAN-H
28	R	SHOCK DETECT SW(LHD models with side air bag)
32	BR	LOCK UNLOCK SW (UNLOCK)
34	P	LOCK UNLOCK SW (UNLOCK)(LHD models)

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12FBR



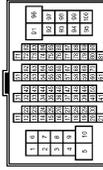
Terminal No.	Color of Wire	Signal Name [Specification]
41	LG	BAT(FUSE)

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA08FB



Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER(LHD models)
55	B	GND
56	Y	DOOR LOCK OUTPUT (ALL)
57	Y	BAT(F/L)
60	G	DOOR UNLOCK/RELEASE OUTPUT(DR)(LHD models)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TR80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-

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INTELLIGENT KEY UNIT

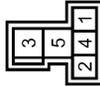
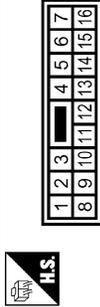
[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

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POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	MB2
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Connector No.	MB0
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS03FB-M2

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
8	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	V	-
4	V	-

INTELLIGENT KEY UNIT

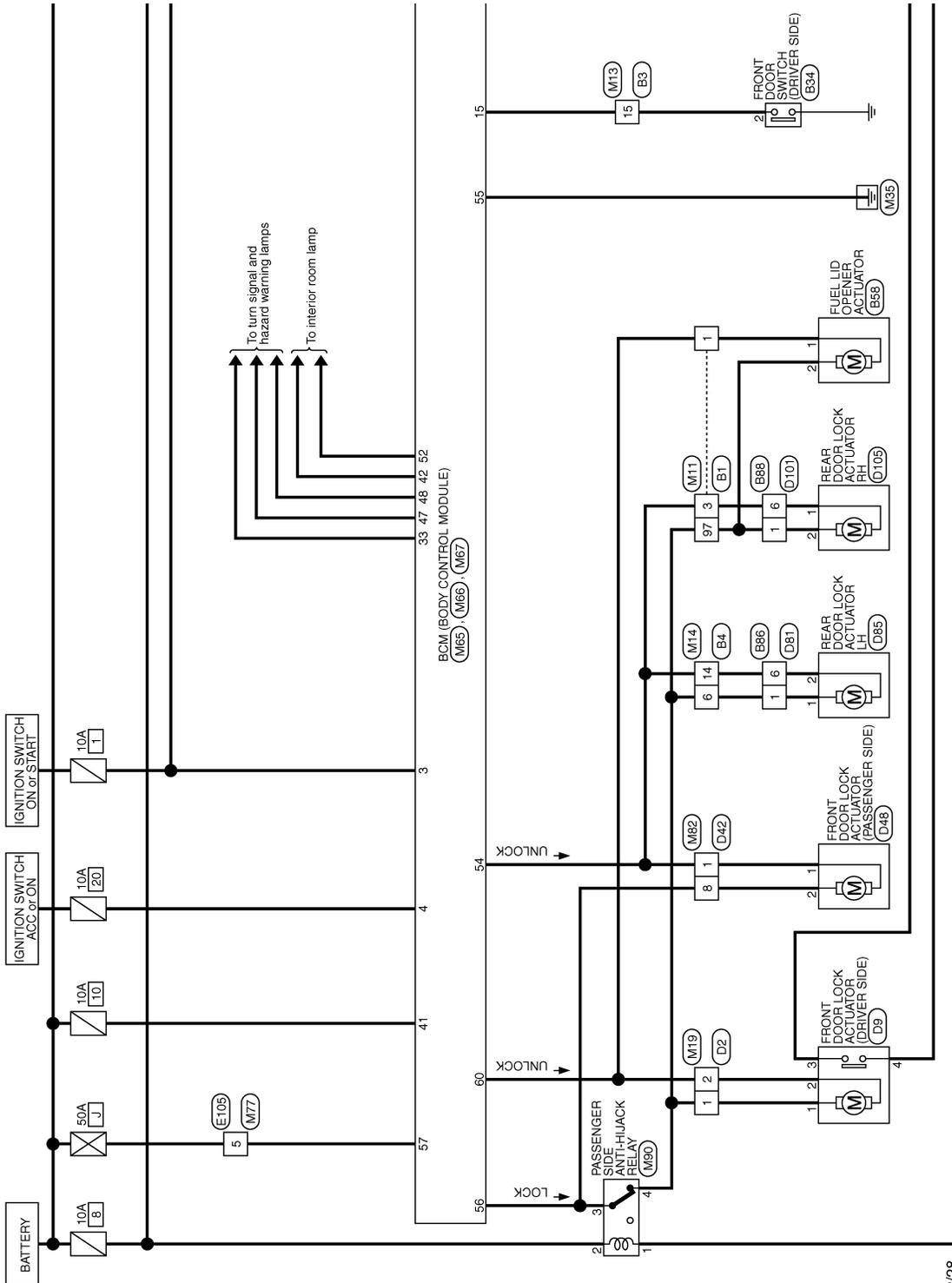
[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - INTELLIGENT KEY CONTROL SYSTEM -

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INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)



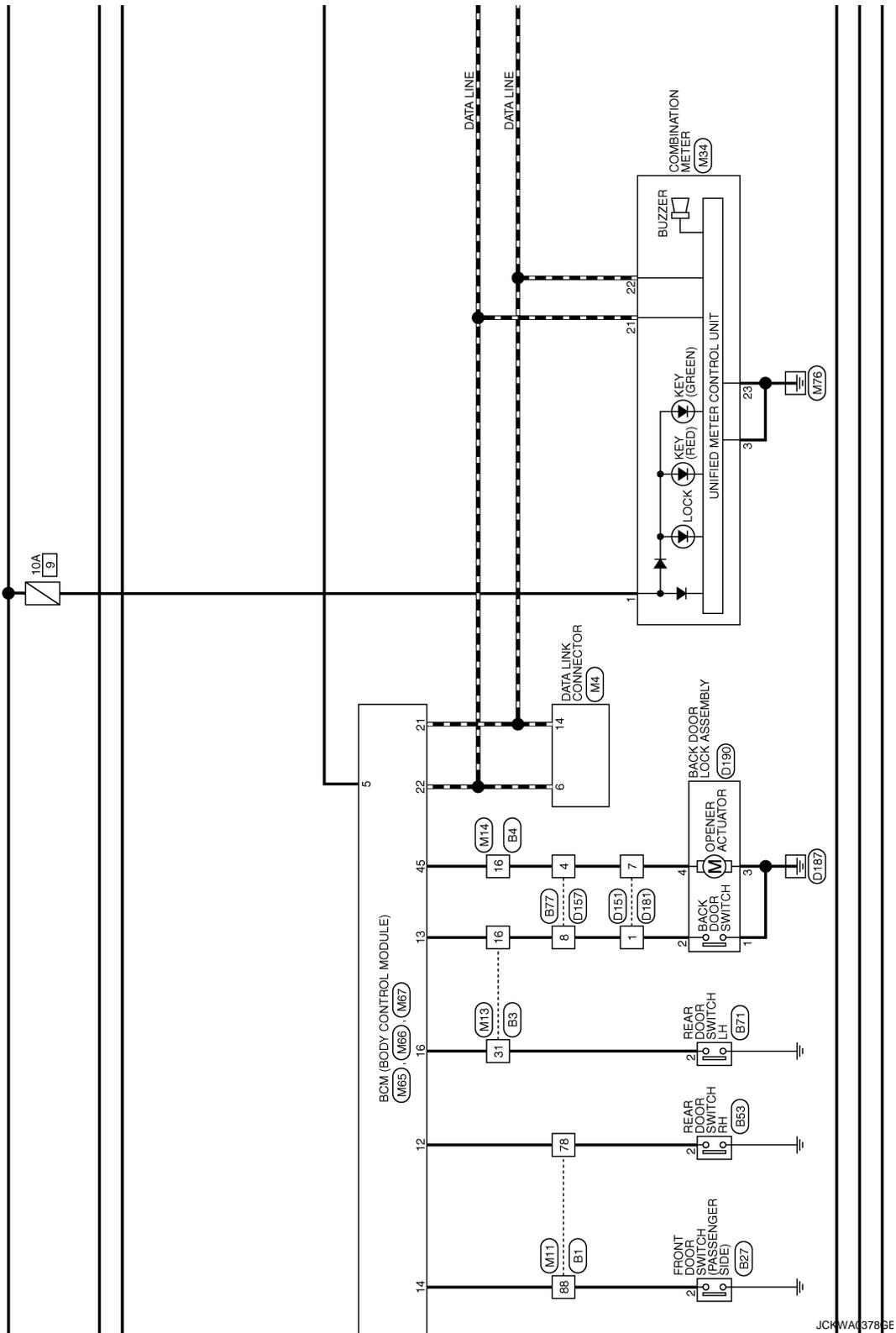
2007/02/28

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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

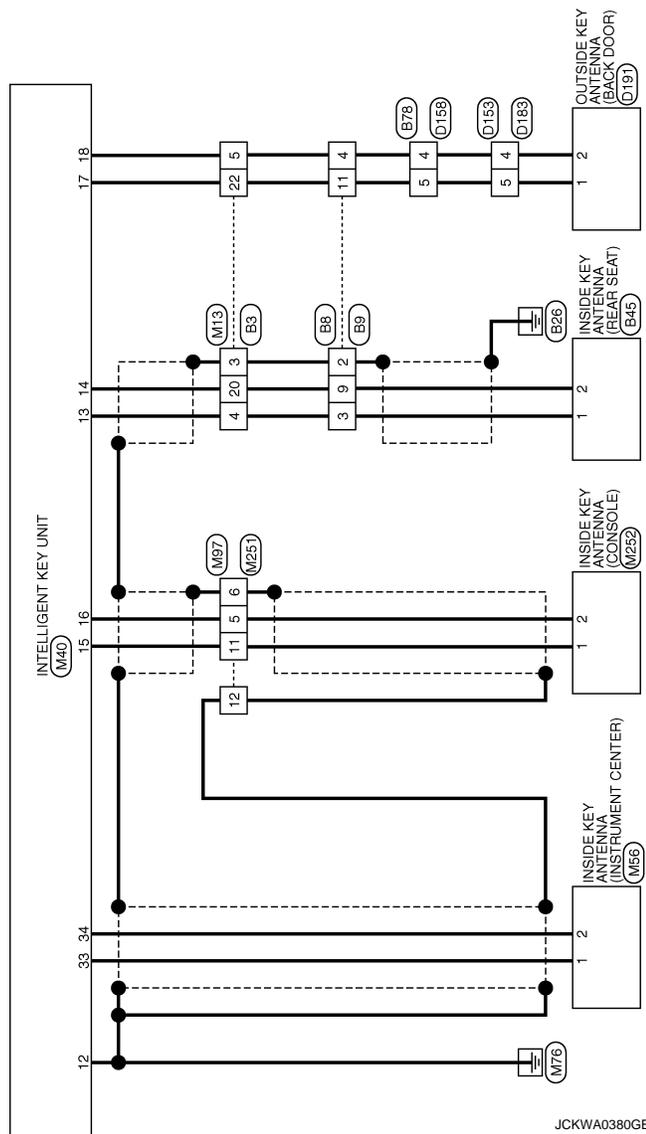


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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >



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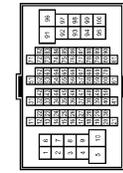
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

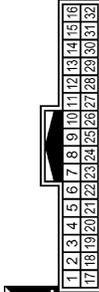
< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

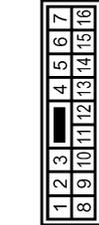
Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



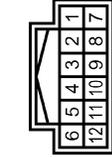
Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS18MW-CS



Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	O	-
78	Y	-
88	BR	-
97	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-
4	P	-
5	R	-
15	P	-
16	V	-
20	L	-
21	SB	-
22	BR	-
31	GR	-

Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	O	-
16	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	-
3	P	-
4	R	-
9	L	-
10	SB	-
11	BR	-

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Connector No.	B45
Connector Name	INSIDE KEY ANTENNA (REAR SEAT)
Connector Type	RK02F5Y



Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	-
3	P	-
4	R	-
9	L	-
10	SB	-
11	BR	-

Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [LHD models]

Terminal No.	Color of Wire	Signal Name [Specification]
2	P	- [LHD models]

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	L	-

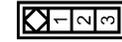
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

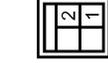
INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	AQ3FW



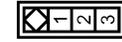
Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-

Connector No.	B58
Connector Name	FUEL LID OPENER ACTUATOR
Connector Type	MG4FW-LC



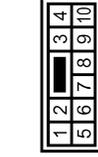
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	UNLOCK
2	V	LOCK

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	AQ3FW



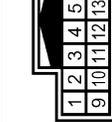
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



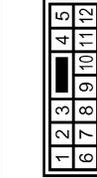
Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
8	V	-

Connector No.	B78
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



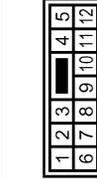
Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	BR	-
6	SB	-

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



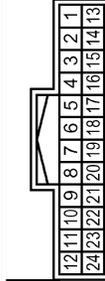
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	O	-

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	O	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
10	GR	-
11	BR	-
22	W	-
23	O	-

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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
12	B	-

Connector No.	D9
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	ED8FGY-RS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	W	-
4	B	-

Connector No.	D10
Connector Name	OUTSIDE KEY ANTENNA AND FRONT DOOR REQUEST SWITCH (DRIVER SIDE)
Connector Type	RH04MB



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	GR	-
4	B	-

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
6	B	-
8	V	-
12	BR	-
13	P	-
14	V	-

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	ED8FGY-RS



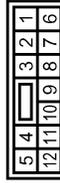
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	V	-

Connector No.	D49
Connector Name	OUTSIDE KEY ANTENNA AND FRONT DOOR REQUEST SWITCH (PASSENGER SIDE)
Connector Type	RH04MB



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	P	-
3	BR	-
4	B	-

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	G	-

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	ED8FGY-RS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-

INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



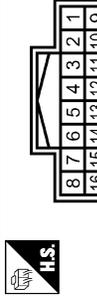
Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	ED8FGY-RS



Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FER-CS



Connector No.	D153
Connector Name	WIRE TO WIRE
Connector Type	TH18FW-NH



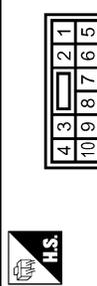
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
7	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	W	-
6	SB	-

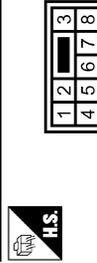
Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	TH18FW-NH



Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MR-CS



Connector No.	D183
Connector Name	WIRE TO WIRE
Connector Type	TH18MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
8	V	- [LHD models]

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	W	-
6	SB	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
7	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	W	-
6	SB	-

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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK06AW-1V



Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	PASSIVE UNIT
4	B	GND

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-
3	B	-
4	W	-

Connector No.	D191
Connector Name	OUTSIDE KEY ANTENNA (BACK DOOR)
Connector Type	RK02FCY



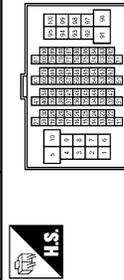
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	R	-

Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03FBR



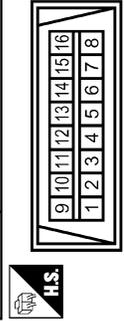
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	LG	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



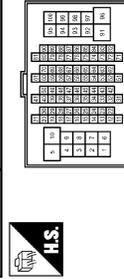
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
71	Y	-
72	LG	-

Connector No.	IM4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



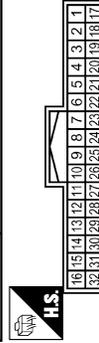
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	- [LHD models]
3	G	- [LHD models]
78	LG	-
88	BR	-
87	V	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH82FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	B	-
5	Y	-
15	P	-
16	V	- [LHD models]
20	W	-
21	SB	-
22	BR	-
31	GR	- [LHD models]

JCKWA0385GE

INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	O	-[LHD models]
16	V	-[LHD models]

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Terminal No.	Color of Wire	Signal Name [Specification]
10	GR	-
11	BR	-
22	O	-
23	O	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS18MW-CS



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
12	B	-

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK08MGY



1	2	3	4	5	6	7
---	---	---	---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R	-
3	G	-[LHD models]
4	BR	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	BAT
3	B	GND
21	L	CAN-H
22	P	CAN-L
23	B	GND

Connector No.	M40
Connector Name	INTELLIGENT KEY UNIT
Connector Type	TH40FW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Terminal No.	Color of Wire	Signal Name [Specification]
2	L	CAN-H
3	P	CAN-L
4	LG	BUZZER
5	GR	REQUEST SW (DR)
6	W	IGN SW
7	LG	KEY SW
11	R	BATT-[LHD models]
12	B	GND
13	B	REAR SEAT (+)
14	W	REAR SEAT (-)
15	R	CONSOLE (+)

16	G	CONSOLE (-)
17	BR	BACK DOOR (+)
18	Y	BACK DOOR (-)
19	BR	DRIVER DOOR (+)
20	O	DRIVER DOOR (-)
23	BR	REQUEST SW (AS)
27	G	DR LOCK STATE SW
28	O	KNOB SW[LHD models]
29	SB	REQUEST SW (BD)
31	L	INSTRUMENT (+)
33	L	INSTRUMENT (-)
34	P	PASSENGER DOOR (+)
37	V	PASSENGER DOOR (-)[LHD models]
38	P	AS ANTI-HIJACK
40	V	-

Connector No.	M56
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02F5Y



2	1
---	---

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

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A B C D E F G H I J L M N O P

DLK

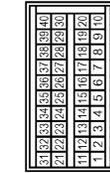
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

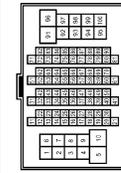
INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAB40FE



Terminal No.	Color of Wire	Signal Name [Specification]
3	W	IGN SW
4	SB	ACC SW
5	LG	KEY SW (With Intelligent Key)
12	LG	DOOR SW (RR)
13	V	DOOR SW (BACK) (LHD models)
14	BR	DOOR SW (AS) (LHD models)
15	P	DOOR SW (DR) (LHD models)
16	GR	DOOR SW (RL) (LHD models)
21	P	CAN-L
22	L	CAN-H
33	W	HAZARD SW (With xenon headlamps and daytime light system)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	THB0W-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
71	Y	-
72	LG	-

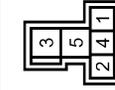
33	Y	HAZARD SW (Except with xenon headlamp and daytime light system)
----	---	---

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12FB



Terminal No.	Color of Wire	Signal Name [Specification]
41	LG	BAT(FUSE)
42	V	ROOM LAMP POWER SUPPLY
45	V	BACK DOOR OPEN OUTPUT (LHD models)
47	BR	FRASHER OUTPUT (LH)
48	GR	FRASHER OUTPUT (RH)
52	R	ROOM LAMP CONTROL

Connector No.	M80
Connector Name	PASSENGER SIDE ANTI-HACK RELAY
Connector Type	MSD2FB-M2



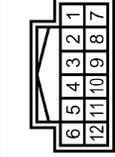
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	V	-
4	V	-

Connector No.	M87
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA08FB



Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER (LHD models))
55	B	GNL
56	V	DOOR LOCK OUTPUT (ALL)
57	Y	BAT(F/L)
60	G	DOOR UNLOCK/RELEASE OUTPUT (LHD models)

Connector No.	M97
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	B	-
6	G	-
11	R	-
12	B	-

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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	M251
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	G	-
6	SHIELD	-
11	R	-
12	SHIELD	-

Connector No.	M252
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	PK02FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-

A
B
C
D
E
F
G
H
I
J
L
M
N
O
P

DLK

JCKWA0388GE

INTELLIGENT KEY UNIT

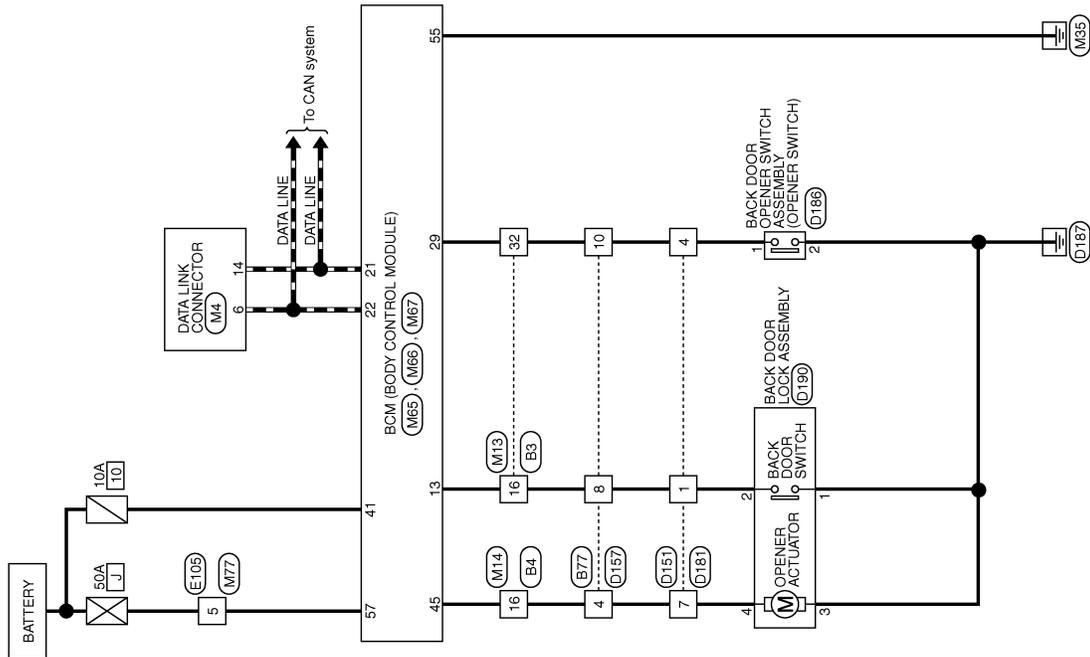
[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

INFOID:000000001280579

BACK DOOR OPENER SYSTEM



JCKWA0409GE

2007/02/28

INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH22MW-NH




Terminal No.	Color of Wire	Signal Name [Specification]
16	V	-
32	G	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
16	W	-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
8	V	-
10	G	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS28FER-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	LG	-
7	W	-

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



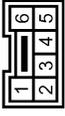

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	- [LHD models]
4	V	- [RHD models]
8	V	-
10	G	-

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS30MBR-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	G	-
7	W	-

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK08MW-TV

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	B	BCM
		GNB

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS24FW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-
3	B	-
4	W	-

A
B
C
D
E
F
G
H
I
J
DLK
L
M
N
O
P

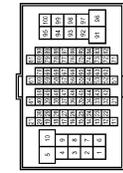
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

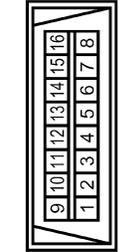
BACK DOOR OPENER SYSTEM

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-GS16-TM4



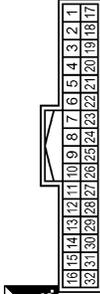
Terminal No.	5	Y	-
Color of Wire			
Signal Name [Specification]			

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



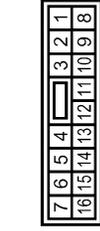
Terminal No.	6	L	-
Color of Wire			
Signal Name [Specification]			
Terminal No.	14	P	-
Color of Wire			
Signal Name [Specification]			

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



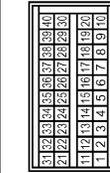
Terminal No.	16	V	- [LHD models]
Color of Wire			
Signal Name [Specification]			
Terminal No.	16	Y	- [RHD models]
Color of Wire			
Signal Name [Specification]			
Terminal No.	32	O	-
Color of Wire			
Signal Name [Specification]			

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-GS



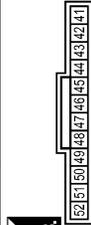
Terminal No.	16	V	- [LHD models]
Color of Wire			
Signal Name [Specification]			
Terminal No.	16	P	- [RHD models]
Color of Wire			
Signal Name [Specification]			

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAB40FB



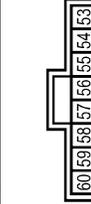
Terminal No.	13	V	DOOR SW (BACK) [LHD models]
Color of Wire			
Signal Name [Specification]			
Terminal No.	13	Y	DOOR SW (BACK) [RHD models]
Color of Wire			
Signal Name [Specification]			
Terminal No.	21	P	CAN-L
Color of Wire			
Signal Name [Specification]			
Terminal No.	22	L	CAN-H
Color of Wire			
Signal Name [Specification]			
Terminal No.	28	O	BACK DOOR OPEN SW
Color of Wire			
Signal Name [Specification]			

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12FB



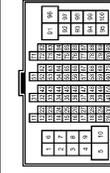
Terminal No.	41	LG	BAT(FUSE)
Color of Wire			
Signal Name [Specification]			
Terminal No.	45	V	BACK DOOR OPEN OUTPUT [LHD models]
Color of Wire			
Signal Name [Specification]			
Terminal No.	45	P	BACK DOOR OPEN OUTPUT [RHD models]
Color of Wire			
Signal Name [Specification]			

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA08FB



Terminal No.	55	B	GND
Color of Wire			
Signal Name [Specification]			
Terminal No.	57	Y	BAT(F/L)
Color of Wire			
Signal Name [Specification]			

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-GS16-TM4



Terminal No.	5	Y	-
Color of Wire			
Signal Name [Specification]			

JCKWA0411GE

INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Fail Safe

INFOID:000000001280581

Display contents of CONSULT-III	Fail-safe	Cancellation
B2013: STRG COMM 1	<ul style="list-style-type: none"> Inhibits steering lock unlocking 	Erase DTC
B2552: INTELLIGENT KEY	<ul style="list-style-type: none"> Inhibits steering lock unlocking Inhibits engine cranking (BCM) Fuel cut (ECM) 	Erase DTC
B2590: NATS MALFUNCTION	<ul style="list-style-type: none"> Inhibits steering lock unlocking Inhibits engine cranking (BCM) Fuel cut (ECM) 	Erase DTC

DTC Inspection Priority Chart

INFOID:000000001280581

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC
1	<ul style="list-style-type: none"> U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN) B2552: INTELLIGENT KEY
2	<ul style="list-style-type: none"> B2013: STRG COMM 1 B2590: NATS MALFUNCTION

DTC Index

INFOID:000000001280582

NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

DLK

CONSULT display	Detection condition	Fail-safe	Diagnosis
No DTC is detected. further testing may be required.	—	—	—
U1000: CAN COMM CIRCUIT	Intelligent Key unit cannot receive CAN communication signal continuously for 2 seconds or more.	—	Check CAN communication system. Refer to DLK-70
U1010: CONTROL UNIT (CAN)	Intelligent Key unit detects internal CAN communication circuit malfunction.	—	Replace Intelligent Key unit.
B2013: STRG COMM 1	The ID verification result between Intelligent key unit and steering lock unit are NG. Or Intelligent Key unit cannot communicate with steering lock unit.	×	Perform steering lock unit ID registration with CONSULT-III
B2552: INTELLIGENT KEY	Intelligent Key unit internal malfunction.	×	Replace Intelligent Key unit.
B2590: ID DISCORD BCM-I-KEY	The ID verification result between Intelligent key unit and BCM are NG. Or Intelligent Key unit cannot communicate with BCM.	×	Check NATS Refer to SEC-57

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000001557105

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
VEHICLE SPEED	While driving	Equivalent to speedometer reading
IGN ON SW	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the unlock side	On
DOOR SW-DR	Driver's door closed	Off
	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
BACK DOOR SW	Back door closed	Off
	Back door opened	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
PUSH SW	Return to ignition switch to "LOCK" position	Off
	Press ignition switch	On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
	"UNLOCK" button of key fob is pressed	On
SHOCK SENSOR	Ignition switch ON	NOMAL
	After the reception of air bag deployment signal from air bag diagnosis sensor unit	Off
	During the reception of air bag deployment signal from air bag diagnosis sensor unit	On
UNLOCK SHOCK	Other than the following	Off
	During the unlock operation interlocked with air bag	On
UNLOCK WITH DR	NOTE:	On
	The item is indicated, but not monitored	Off

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Monitor Item	Condition	Value/Status	
LOCK WITH SPEED	Vehicle speed sensing auto door lock function does not operate	Off	A
	Vehicle speed sensing auto door lock function is operating	On	
ACC ON SW	Ignition switch OFF	Off	B
	Ignition switch ACC or ON	On	
REAR DEF SW	Rear window defogger switch OFF	Off	C
	Rear window defogger switch ON	On	
TAIL LAMP SW	Lighting switch OFF	Off	D
	Lighting switch 1ST	On	
TURN SIGNAL R	Turn signal switch OFF	Off	E
	Turn signal switch RH	On	
TURN SIGNAL L	Turn signal switch OFF	Off	F
	Turn signal switch LH	On	
HI BEAM SW	Lighting switch OFF	Off	G
	Lighting switch HI	On	
HEAD LAMP SW 1	Lighting switch OFF	Off	H
	Lighting switch 2ND	On	
HEAD LAMP SW 2	Lighting switch OFF	Off	I
	Lighting switch 2ND	On	
PASSING SW	Other than lighting switch PASS	Off	J
	Lighting switch PASS	On	
AUTO LIGHT SW	Lighting switch OFF	Off	K
	Lighting switch AUTO	On	
FR FOG SW	Front fog lamp switch OFF	Off	L
	Front fog lamp switch ON	On	
RR FOG SW	Rear fog lamp switch OFF	Off	M
	Rear fog lamp switch ON	On	
ENGINE RUN	Engine stopped	Off	N
	Engine running	On	
LIT-SEN FAIL	Light & rain sensor is in normal condition	OK	O
	Light & rain sensor is with error	NOTOK	
AUT LIGHT SYS	Outside of the room is dark	On	P
	Outside of the room is bright	Off	
HD LIGHT TIME	—	Displays a setting time of the follow me home function set by the work support	
IGN SW CAN	Ignition switch OFF or ACC	Off	
	Ignition switch ON	On	
FR WIPER HI	Front wiper switch OFF	Off	
	Front wiper switch HI	On	
FR WIPER LOW	Front wiper switch OFF	Off	
	Front wiper switch LO	On	
FR WIPER INT	Front wiper switch OFF	Off	
	Front wiper switch INT	On	
FR WASHER SW	Front washer switch OFF	Off	
	Front washer switch ON	On	

DLK

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

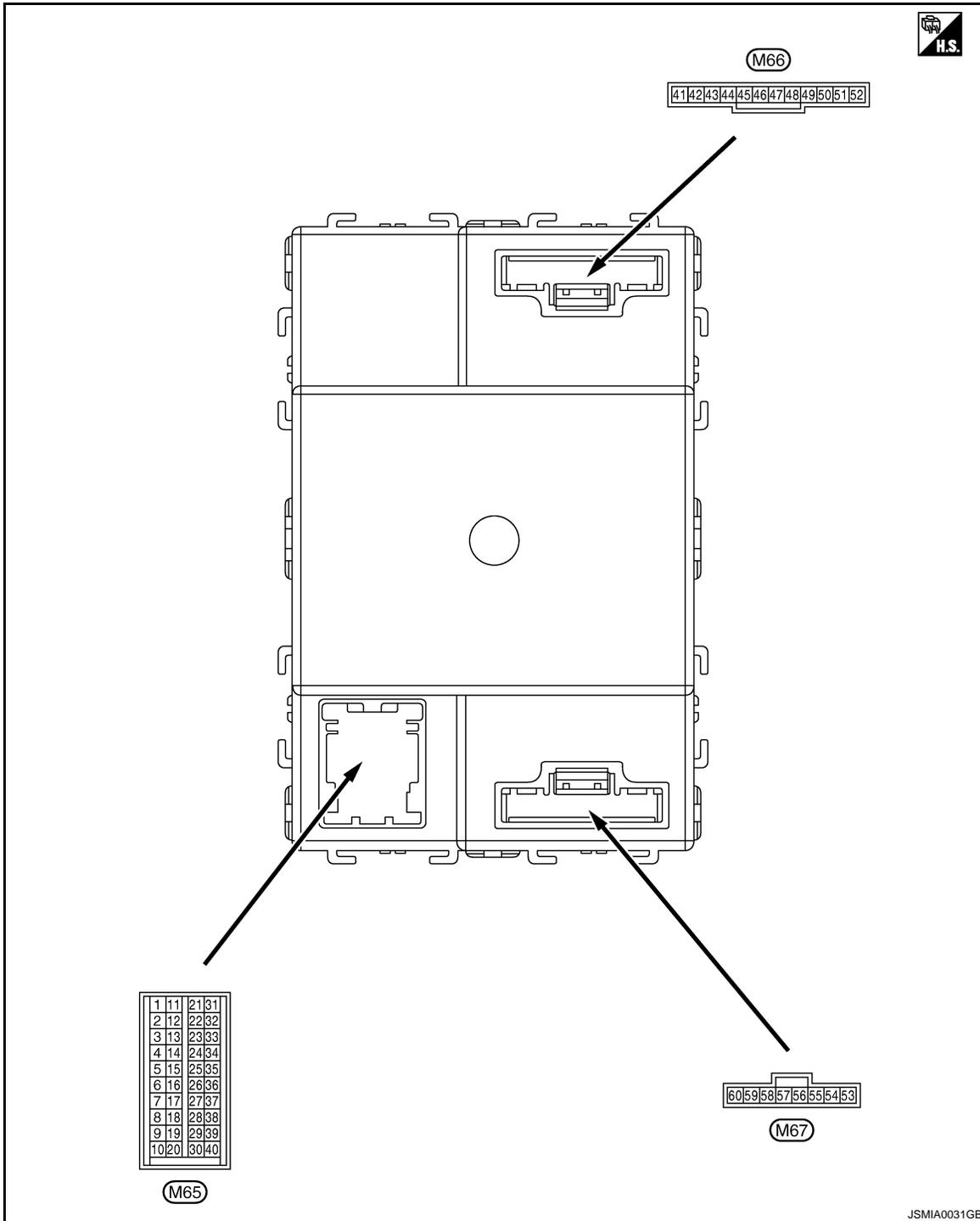
Monitor Item	Condition	Value/Status
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
FR WIPER STOP	Any position other than front wiper stop position	Off
	Front wiper stop position	On
RR WIPER ON	Rear wiper switch OFF	Off
	Rear wiper switch ON	On
RR WIPER INT	Rear wiper switch OFF	Off
	Rear wiper switch INT	On
RR WIPER STOP	Rear wiper stop position	Off
	Other than rear wiper stop position	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
REVERSE SW CAN	NOTE: The item is indicated, but not monitored	Off
		On
H/L WASH SW	When headlamp washer switch is not pressed	Off
	When headlamp washer switch is pressed	On
FAN ON SIG	Blower fan motor switch OFF	Off
	Blower fan motor switch ON (other than OFF)	On
AIR COND SW	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off
	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On
HAZARD SW	Hazard switch OFF	Off
	Hazard switch ON	On
BRAKE SW	Brake pedal is not depressed	Off
	Brake pedal is depressed	On
TRNK OPNR SW	When back door opener switch is not pressed	Off
	When back door opener switch is pressed	On
HOOD SW	Close the hood NOTE: Vehicles without theft warning system are OFF-fixed	Off
	Open the hood	On
AUTO RELOCK	Auto lock function does not operate	Off
	Auto lock function is operating	On
GLS BREAK SEN	The vehicle without glass break sensor	Off
	The vehicle with glass break sensor	On
OIL PRESS SW	<ul style="list-style-type: none"> • Ignition switch OFF or ACC • Engine running 	Off
	Ignition switch ON	On

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

TERMINAL LAYOUT



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PHYSICAL VALUES

CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to [BCS-28, "COMB SW : CONSULT-III Function \(BCM - COMB SW\)"](#).
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to [BCS-9, "System Description"](#).

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

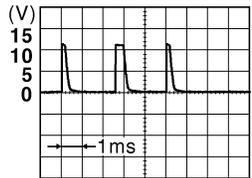
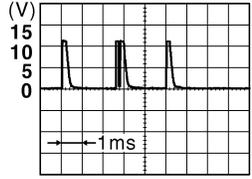
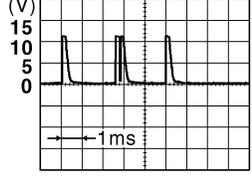
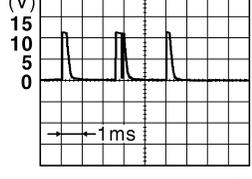
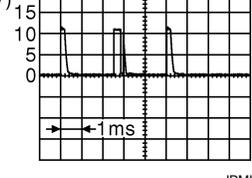
[WITH I-KEY, WITHOUT SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
1 (W)	Ground	NATS antenna amp.	Input/ Output	Insert mechanical key into ignition key cylinder	Just after Insert mechanical key into ignition key cylinder. Pointer of tester should move
2 (G)	Ground	NATS antenna amp.	Input/ Output	Insert mechanical key into ignition key cylinder	Just after Insert mechanical key into ignition key cylinder. Pointer of tester should move
3 (W)	Ground	Ignition power supply	Input	Ignition switch OFF or ACC	0 V
				Ignition switch ON or START	Battery voltage
4 (SB)	Ground	ACC power supply	Input	Ignition switch OFF	0 V
				Ignition switch ON or ACC	Battery voltage
5 (LG) ^{*1} (R) ^{*2}	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder	Battery voltage
				Remove mechanical key from ignition key cylinder	0 V

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
6 (L)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right;">1.4 V</p>
					Lighting switch HI (Wiper intermittent dial 4)	 <p style="text-align: right;">1.3 V</p>
					Lighting switch 2ND (Wiper intermittent dial 4)	 <p style="text-align: right;">1.3 V</p>
					Rear washer switch ON	 <p style="text-align: right;">1.3 V</p>
					Any of the condition below with all switch OFF	 <p style="text-align: right;">1.3 V</p>

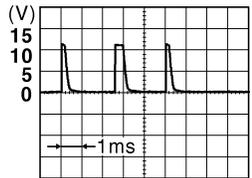
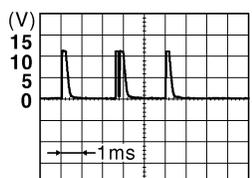
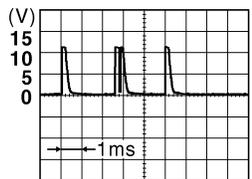
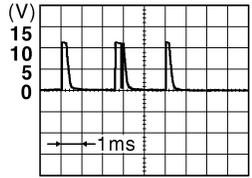
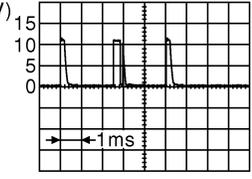
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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

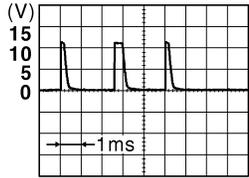
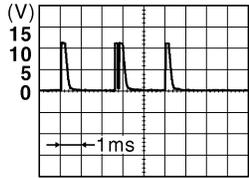
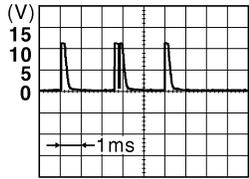
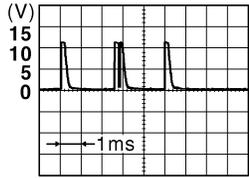
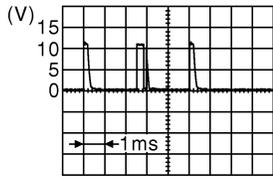
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)		
+	-	Signal name	Input/ Output				
7 (GR)	Ground	Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0165GB</p> <p style="text-align: center;">1.4 V</p>	
					Lighting switch 1ST (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0166GB</p> <p style="text-align: center;">1.3 V</p>	
					Lighting switch AUTO (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0168GB</p> <p style="text-align: center;">1.3 V</p>	
					Any of the condition below with all switch OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 6 	 <p style="text-align: right; font-size: small;">JPMIA0169GB</p> <p style="text-align: center;">1.3 V</p>
					Rear wiper INT (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0196GB</p> <p style="text-align: center;">1.3 V</p>	

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
8 (V)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF <div style="text-align: right;">  <p>1.4 V</p> </div>
					Turn signal switch RH <div style="text-align: right;">  <p>1.3 V</p> </div>
					Turn signal switch LH <div style="text-align: right;">  <p>1.3 V</p> </div>
					Front wiper switch LO <div style="text-align: right;">  <p>1.3 V</p> </div>
					Front washer switch ON <div style="text-align: right;">  <p>1.3 V</p> </div>

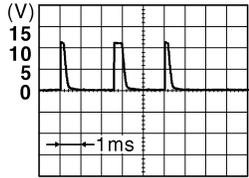
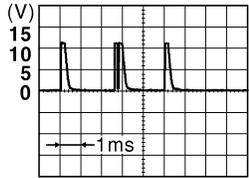
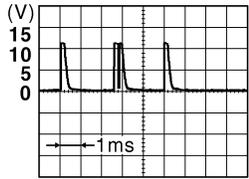
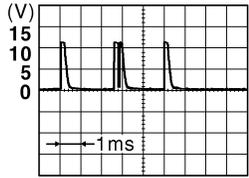
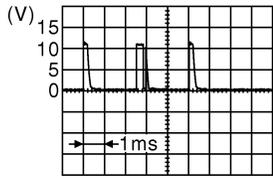
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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

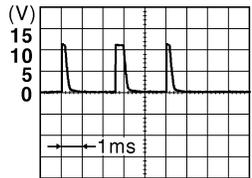
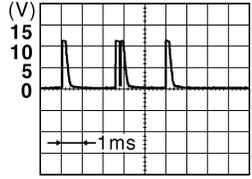
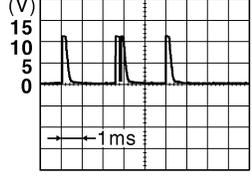
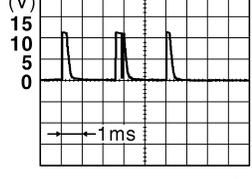
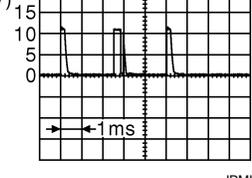
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
9 (G) ^{*3} (B) ^{*4}	Ground	Combination switch INPUT 2	Input	All switch OFF	 <p style="text-align: center;">1.4 V</p>
				Lighting switch 2ND	 <p style="text-align: center;">1.3 V</p>
				Lighting switch PASS	 <p style="text-align: center;">1.3 V</p>
				Front wiper switch INT	 <p style="text-align: center;">1.3 V</p>
				Front wiper switch HI	 <p style="text-align: center;">1.3 V</p>

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
10 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0165GB</p> <p style="text-align: center;">1.3 V</p>
					Front fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0167GB</p> <p style="text-align: center;">1.3 V</p>
					Rear fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0168GB</p> <p style="text-align: center;">1.3 V</p>
					Rear wiper switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0169GB</p> <p style="text-align: center;">1.3 V</p>
					Any of the condition below with all switch OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7  <p style="text-align: right; font-size: small;">JPMIA0196GB</p> <p style="text-align: center;">1.3 V</p>
11 (B)	Ground	Audio link	Input/ Output	—	—	

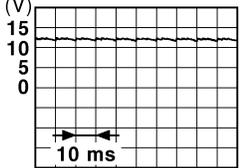
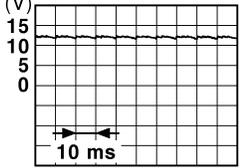
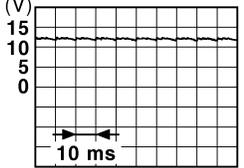
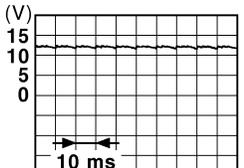
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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

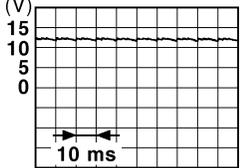
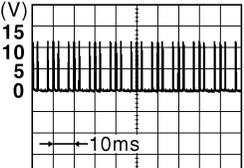
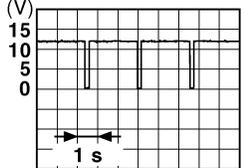
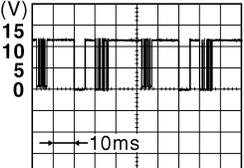
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
12 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	 11.2 V
				Rear door switch RH	ON (When rear door RH opened)	0 V
13 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	 11.2 V
				Back door switch	ON (When back door opened)	0 V
14 (P) ^{*3} (BR) ^{*4}	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	 11.2 V
				Passenger door switch	ON (When passenger door opened)	0 V
15 (BR) ^{*3} (P) ^{*4}	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	 11.2 V
				Driver door switch	ON (When driver door opened)	0 V

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
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16 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	 <p style="text-align: right; font-size: small;">PKID0924E</p> <p style="text-align: center;">11.2 V</p>
					ON (When rear door LH opened)	0 V
17 (L)	Ground	Door lock status indicator	Output	Door lock status indicator	ON	12 V
					OFF	0 V
20 (SB)	Ground	Rear window defogger switch	Input	Rear window defogger switch	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p> <p style="text-align: center;">1.1 V</p>
					While pressing	0 V
21 (P)	—	CAN-L	Input/ Output	—	—	—
22 (L)	—	CAN-H	Input/ Output	—	—	—
23 (V)	Ground	Security indicator	Output	Security indicator	ON	0 V
					Blinking	 <p style="text-align: right; font-size: small;">JPMIA0014GB</p> <p style="text-align: center;">10.3 V</p>
24 (GR)	Ground	Light & rain sensor serial link	Input/ Output	Ignition switch OFF or ACC	12 V	
				Ignition switch ON	 <p style="text-align: right; font-size: small;">JPMIA0156GB</p> <p style="text-align: center;">8.7 V</p>	
25 (G)	Ground	Alarm link	Output	—	—	

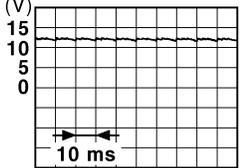
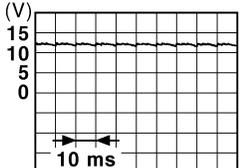
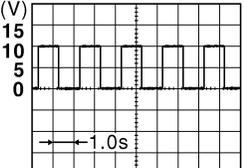
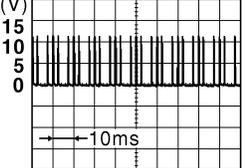
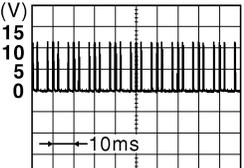
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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

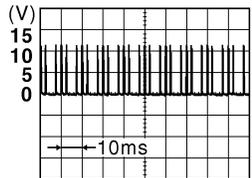
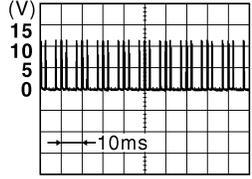
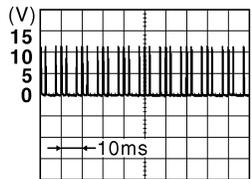
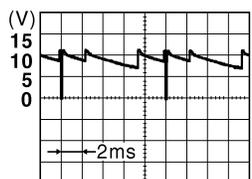
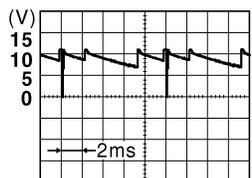
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
26 (GR) ^{*5} (LG) ^{*6}	Ground	Blower fan motor switch	Input	Blower fan mo- tor switch	OFF	 <small>PKID0924E</small> 11.2 V
					ON (other than OFF)	0 V
27 (P) ^{*5} (Y) ^{*6}	Ground	A/C switch	Input	Ignition switch ON	Compressor ON is not re- quested from auto amp. (A/C indicator OFF, blow- er fan motor switch OFF or etc.)	 <small>PKID0924E</small> 11.2 V
					Compressor ON is re- quested from auto amp. (A/C indicator ON and blower fan motor switch ON).	0 V
28 (LG) ^{*7} (R) ^{*8}	Ground	Shock detect sensor	Input	Ignition switch OFF or ACC	0 V	
				Ignition switch ON	 <small>JPMIA0155GB</small> 6.0 V	
29 (LG) ^{*3} (O) ^{*4}	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	 <small>JPMIA0154GB</small> 1.2 V
					Pressed	0 V
32 (BR)	Ground	Door lock/unlock switch (Unlock)	Input	Door lock/un- lock switch	Not pressed	 <small>JPMIA0154GB</small> 1.2 V
					Pressed to the unlock side	0 V

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
33 (W) ^{*9} (Y) ^{*10}	Ground	Hazard switch	Input	Hazard switch	OFF	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p> <p style="text-align: center;">1.3 V</p>
					ON	0 V
34 (SB) ^{*3} (P) ^{*4}	Ground	Door lock/unlock switch (Lock)	Input	Door lock/un- lock switch	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p> <p style="text-align: center;">1.2 V</p>
					Pressed to the lock side	0 V
35 (G)	Ground	Headlamp washer switch	Input	Headlamp washer switch	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p> <p style="text-align: center;">1.2 V</p>
					Pressed to the lock side	0 V
36 (G)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Turn signal switch RH	 <p style="text-align: right; font-size: small;">JPMIA0164GB</p> <p style="text-align: center;">9.1 V</p>
					Lighting switch 2ND	
					Lighting switch HI	
					Lighting switch 1ST	
37 (R)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0161GB</p> <p style="text-align: center;">9.1 V</p>
					Rear washer switch ON (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	
					Rear wiper switch ON (Wiper intermittent dial 4)	

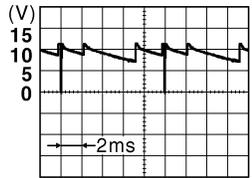
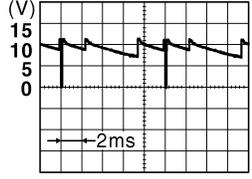
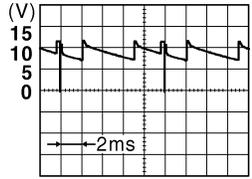
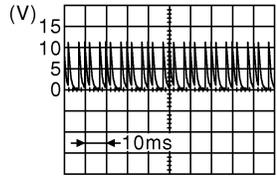
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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

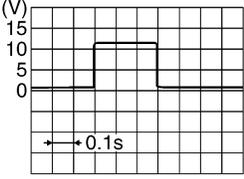
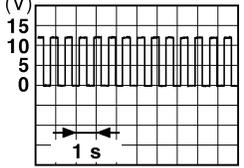
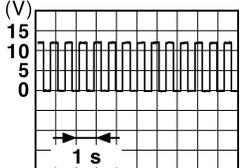
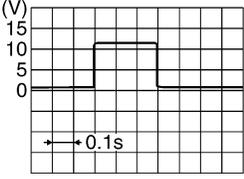
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
38 (W)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Front wiper switch LO	
					Front wiper switch MIST	
					Front wiper switch INT	
					Lighting switch AUTO	
					Rear fog lamp switch ON	
39 (Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Turn signal switch LH	
					Lighting switch PASS	
					Lighting switch 2ND	
					Front fog lamp switch ON	
40 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF	
					• Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	
Rear wiper switch INT (Wiper intermittent dial 4)	9.1 V					
41 (LG)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage	
42 (V)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver activation	0 V	
				Interior room lamp battery saver no activation	12 V	
43 (SB)	Ground	Rear wiper motor	Output	Rear wiper switch OFF	0 V	
				Rear wiper switch ON	12 V	
44 (B)	Ground	Rear wiper auto stop	Input	Ignition switch ON	Rear wiper stop position	
					Any position other than rear wiper stop position	

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
45 (V)	Ground	Back door lock actuator	Output	Back door opener switch	Pressed	 SKIA9232E
					Not pressed	0 V
47 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKID0926E 6.5 V
48 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V
49 (Y)	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V
					ON	12 V
50 (G)	Ground	Unlock sensor	Input	Driver's door	Unlock	5 V
					lock	0 V
51 (R)	Ground	Stop lamp switch	Input	Depress the brake pedal		Battery voltage
				Release the brake pedal		0 V
52 (R)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	12 V
					ON	0 V
53 (L)	Ground	Power window power supply (IGN)	Output	Ignition switch	OFF or ACC	0 V
					ON	12 V
54 (O)	Ground	Door unlock (All other than driver's door)	Output	Door lock/unlock switch	Pressed to the unlock side	 SKIA9232E
					Not pressed	0 V
55 (B)	Ground	Ground	—	Ignition switch ON		0 V

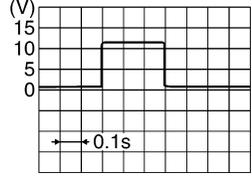
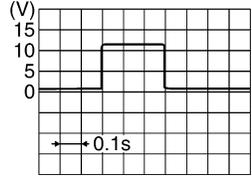
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
56 (V)	Ground	Door lock (All) and fuel lid lock	Output	Door lock/un- lock switch	Not pressed	0 V
					Pressed to the lock side	 <p style="text-align: right; font-size: small;">SKIA9232E</p>
57 (Y)	Ground	Battery power sup- ply	Input	Ignition switch OFF		Battery voltage
58 (P)	Ground	Power window pow- er supply (BAT)	Output	Ignition switch OFF		12 V
59 (R)	Ground	Super lock	Output	When lock button of key fob or Intelligent Key is not pressed		0 V
				When lock button of key fob or Intelligent Key is pressed		12 V
60 (G)	Ground	Driver's door unlock and fuel lid unlock	Output	Door lock/un- lock switch	Pressed to the unlock side	 <p style="text-align: right; font-size: small;">SKIA9232E</p>
					Not pressed	0 V

- *1: With Intelligent Key
- *2: Without Intelligent Key
- *3: RHD models
- *4: LHD models
- *5: With gasoline engine
- *6: With diesel engine
- *7: RHD models with side air bag
- *8: LHD models with side air bag
- *9: With xenon headlamp and daytime light system
- *10: Except with xenon headlamp and daytime light system

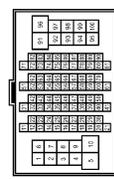
BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

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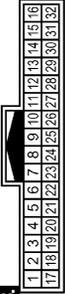
POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	THROW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	O	-
78	Y	-
88	BR	-
97	V	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



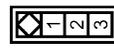
Terminal No.	Color of Wire	Signal Name [Specification]
15	P	-
16	V	-
31	GR	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS18MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	O	-

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [LHD models]

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	- [LHD models]

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



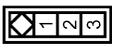
Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-

Connector No.	B58
Connector Name	FUEL LID OPENER ACTUATOR
Connector Type	M04FW-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	UNLOCK
2	V	LOCK

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-

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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
8	V	-

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	O	-

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



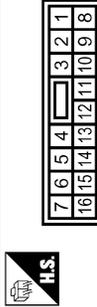
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	O	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



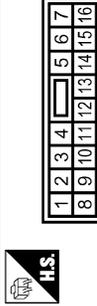
Terminal No.	Color of Wire	Signal Name [Specification]
8	G	-
20	BR	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
12	B	-

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
17	B	-
18	G	-

Connector No.	D9
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	E06FGY-RS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
8	V	-

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	EOBFGY-RS




Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	V	-

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	G	-

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	EOBFGY-RS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	G	-

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	EOBFGY-RS



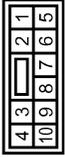

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	V	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FB-RS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
8	V	-

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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS32MBR-CS



Terminal No.	1	2	3	4	5	6	7	8
Color of Wire	V							
Signal Name [Specification]								

Connector No.	D180
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS34FW-CS



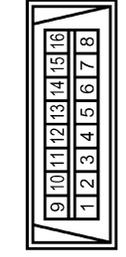
Terminal No.	1	2
Color of Wire	B	V
Signal Name [Specification]		

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



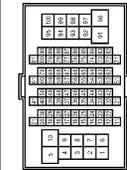
Terminal No.	5
Color of Wire	Y
Signal Name [Specification]	

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



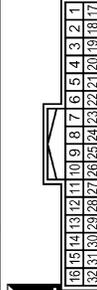
Terminal No.	6	14
Color of Wire	L	P
Signal Name [Specification]		

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



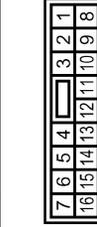
Terminal No.	1	3	78	88	97
Color of Wire	G	G	LG	BR	V
Signal Name [Specification]		-[LHD models]	-[LHD models]		

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



Terminal No.	15	16	31
Color of Wire	P	V	GR
Signal Name [Specification]		-[LHD models]	-[LHD models]

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	6	14
Color of Wire	V	O
Signal Name [Specification]		-[LHD models]

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	8	20
Color of Wire	P	BR
Signal Name [Specification]		

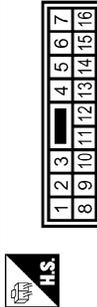
BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



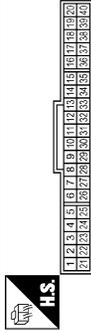
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
12	B	-

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK10BMGY



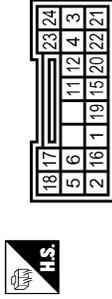
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M59
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TK20FY-EX-5C



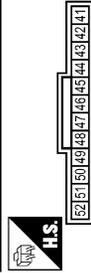
Terminal No.	Color of Wire	Signal Name [Specification]
19	R	DEPLOYMENT INFORMATION(LHD models with side air bag)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FA8M0FE



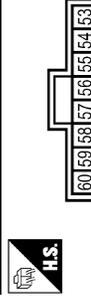
Terminal No.	Color of Wire	Signal Name [Specification]
5	LG	KEY SW(With Intelligent Key)
12	LG	DOOR SW (BR)
13	V	DOOR SW (BACK)(LHD models)
14	BR	DOOR SW (AS)(LHD models)
15	P	DOOR SW (DR)(LHD models)
16	GR	DOOR SW (RL)(LHD models)
21	P	CAN-L
22	L	CAN-H
28	R	SHOCK DETECT SW(LHD models with side air bag)
32	BR	LOCK UNLOCK SW (UNLOCK)
34	P	LOCK UNLOCK SW (UNLOCK)(LHD models)

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12EBR



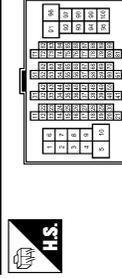
Terminal No.	Color of Wire	Signal Name [Specification]
41	LG	BAT(FUSE)

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	F14A8FB



Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER(LHD models))
55	B	GND
56	Y	DOOR LOCK OUTPUT (ALL)
57	Y	BAT(F/L)
60	G	DOOR UNLOCK/RELEASE OUTPUT(DRLHD models)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-

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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
8	V	-

Connector No.	M80
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS303FB-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	V	-
4	V	-

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BCM (BODY CONTROL MODULE)

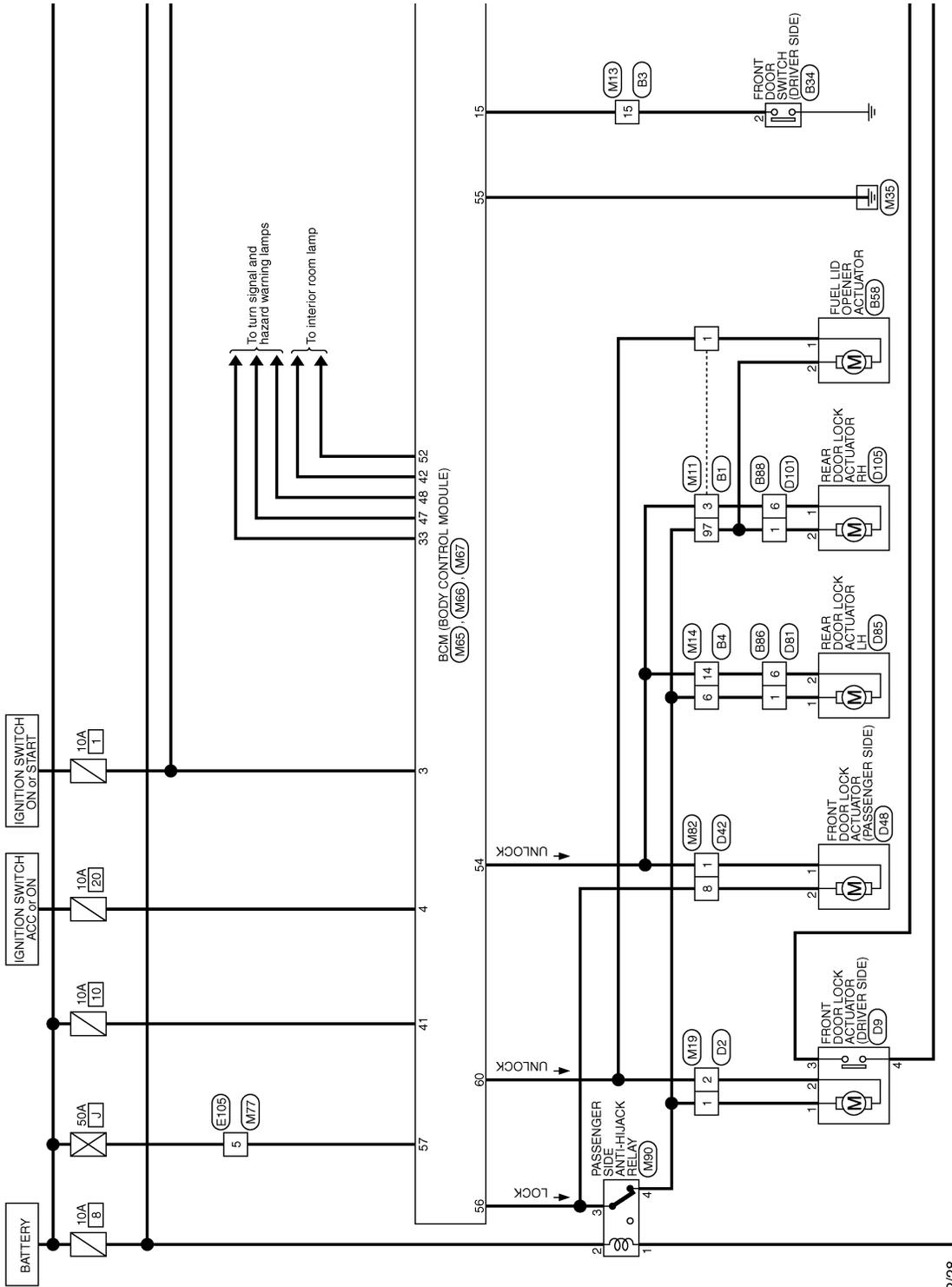
[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - INTELLIGENT KEY CONTROL SYSTEM -

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INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)



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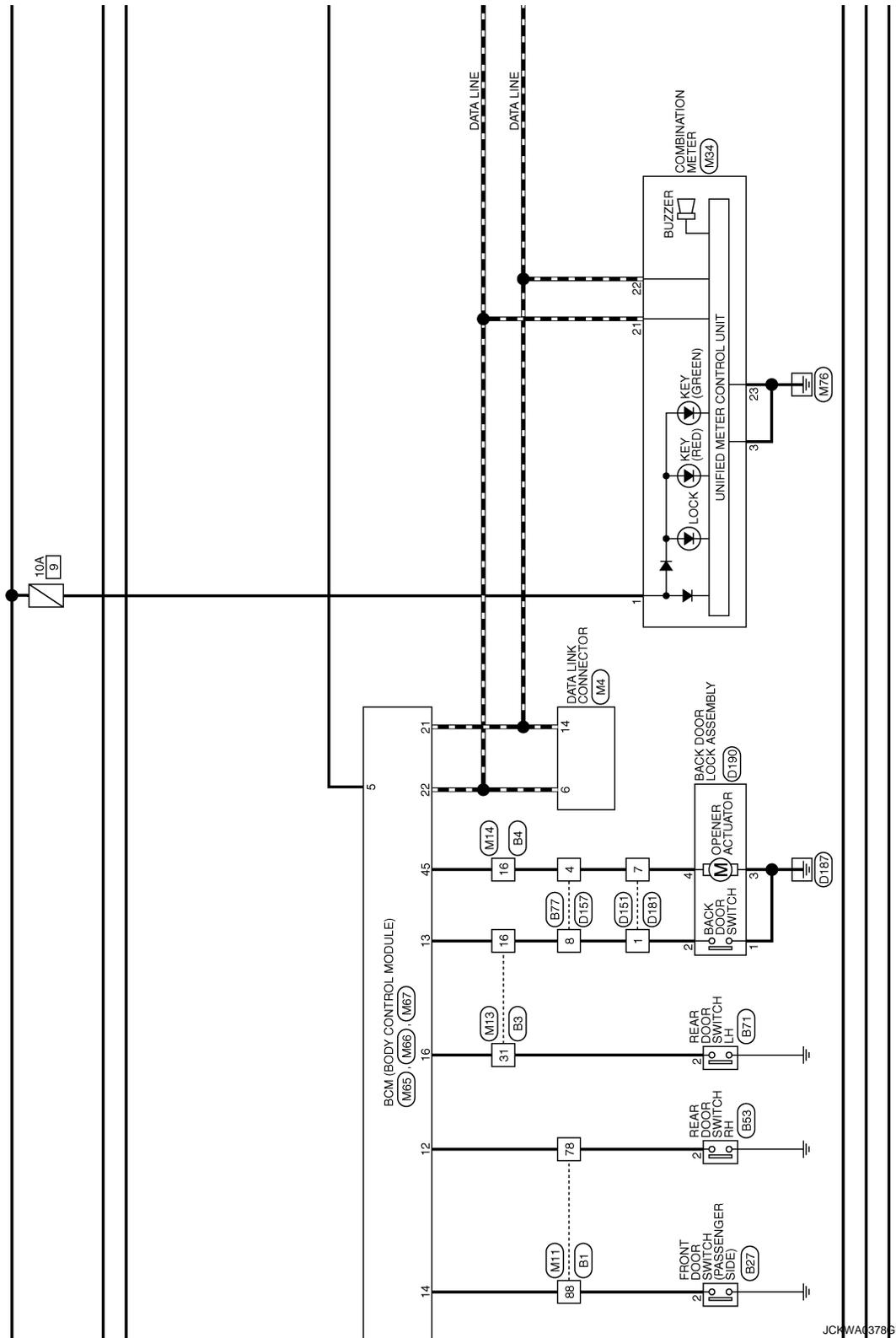
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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

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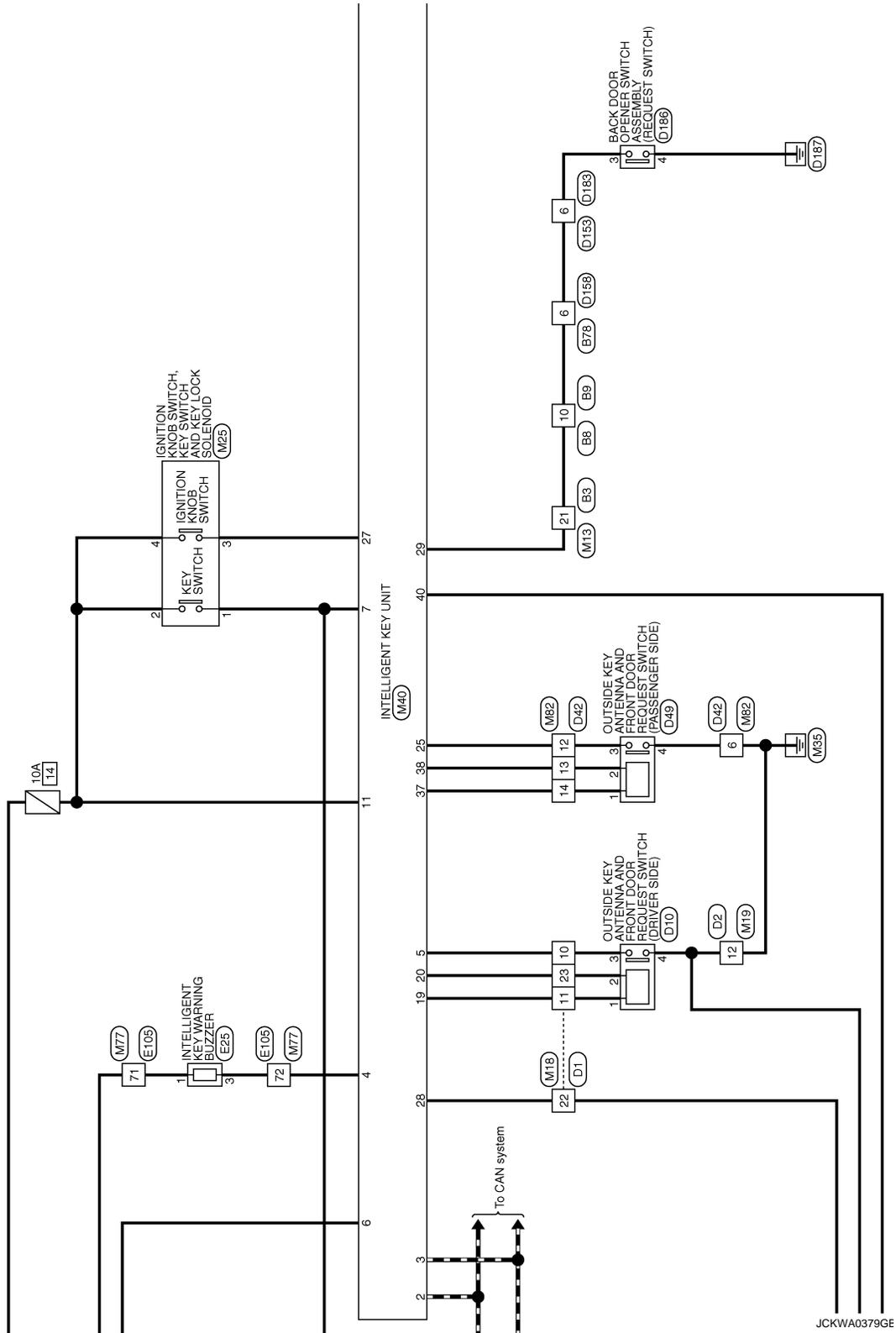


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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

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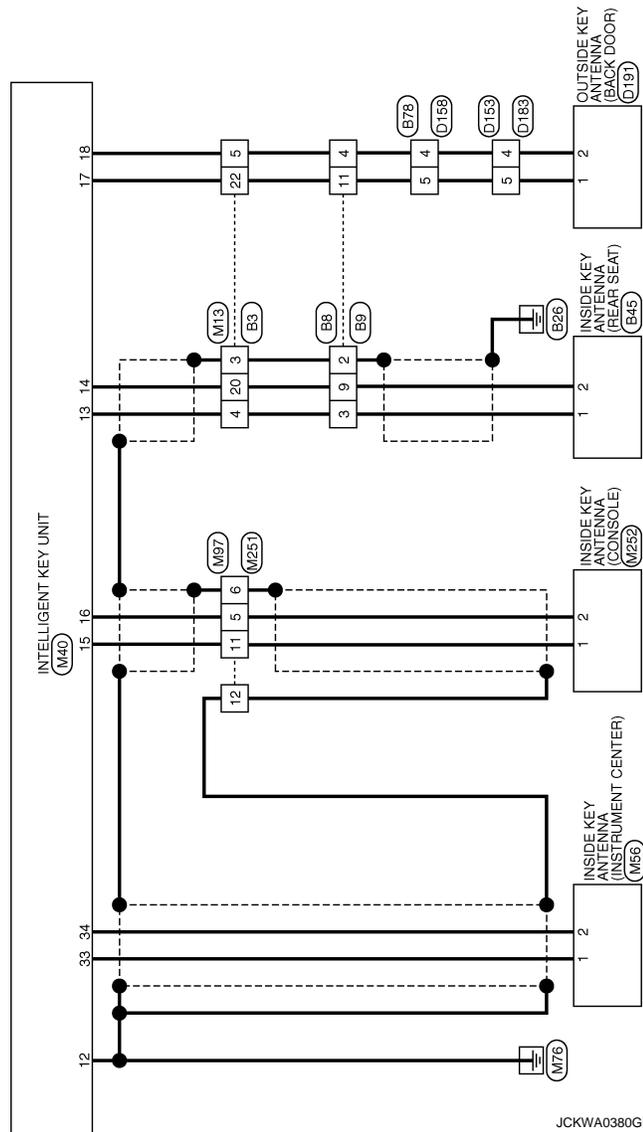


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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

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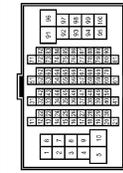
BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-TM4



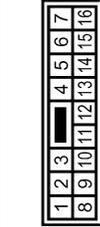
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	O	-
78	Y	-
88	BR	-
97	V	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



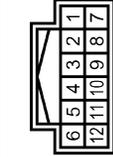
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-
4	P	-
5	R	-
15	P	-
16	V	-
20	L	-
21	SB	-
22	BR	-
31	GR	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS18MW-CS



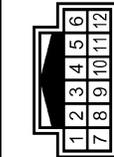
Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	O	-
16	W	-

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Type	TH12W-NH



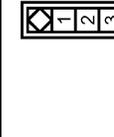
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	-
3	P	-
4	R	-
9	L	-
10	SB	-
11	BR	-

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



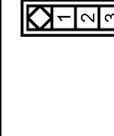
Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	-
3	P	-
4	R	-
9	L	-
10	SB	-
11	BR	-

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	-[LHD models]

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	-[LHD models]

Connector No.	B45
Connector Name	INSIDE KEY ANTENNA (REAR SEAT)
Connector Type	RK02FY



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	L	-

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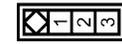
BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

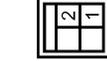
INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	AG3FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-

Connector No.	B58
Connector Name	FUEL LID OPENER ACTUATOR
Connector Type	MG4FW-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	UNLOCK
2	V	LOCK

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	AG3FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



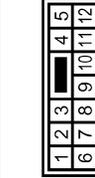
Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
8	V	-

Connector No.	B78
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



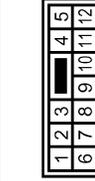
Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	BR	-
6	SB	-

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	O	-

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	O	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
10	GR	-
11	BR	-
22	W	-
23	O	-

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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
12	B	-

Connector No.	D9
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	E08FGY-RS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	W	-
4	B	-

Connector No.	D10
Connector Name	OUTSIDE KEY ANTENNA AND FRONT DOOR REQUEST SWITCH (DRIVER SIDE)
Connector Type	RH04MB



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	GR	-
4	B	-

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
6	B	-
8	V	-
12	BR	-
13	P	-
14	V	-

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	E08FGY-RS



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	V	-

Connector No.	D49
Connector Name	OUTSIDE KEY ANTENNA AND FRONT DOOR REQUEST SWITCH (PASSENGER SIDE)
Connector Type	RH04MB



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	P	-
3	BR	-
4	B	-

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	G	-

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	E08FGY-RS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-

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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

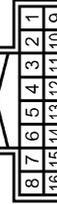
Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	ED8FGY-RS



Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS



Connector No.	D153
Connector Name	WIRE TO WIRE
Connector Type	TH18FW-NH

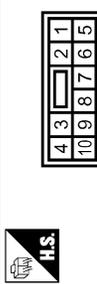
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
6	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	V	-

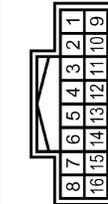
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
7	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	W	-
6	SB	-

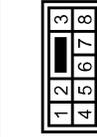
Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



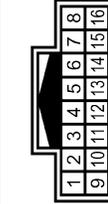
Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	TH18FW-NH



Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS



Connector No.	D183
Connector Name	WIRE TO WIRE
Connector Type	TH18MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
8	V	- [LHD models]

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	W	-
6	SB	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
7	W	-

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	W	-
6	SB	-

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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TKG8AW-1V



Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	PASSIVE UNIT
4	B	GND

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NSJ04FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	
2	V	
3	B	
4	W	

Connector No.	D191
Connector Name	OUTSIDE KEY ANTENNA (BACK DOOR)
Connector Type	RK02FGY



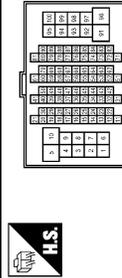
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	
2	R	

Connector No.	E23
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03FER



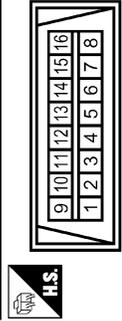
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	
3	LG	

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



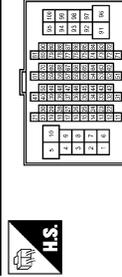
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	
71	Y	
72	LG	

Connector No.	IM4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
14	P	

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	
3	G	-[LHD models]
78	LG	-[LHD models]
88	BR	
97	V	

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH82FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	
4	B	
5	Y	
15	P	
16	V	-[LHD models]
21	W	
22	BR	
31	GR	-[LHD models]

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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AA84WE



31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

Terminal No.	Color of Wire	Signal Name [Specification]
3	W	IGN SW
4	SB	ACC SW
5	LG	KEY SW [With Intelligent Key]
12	LG	DOOR SW (RR)
13	V	DOOR SW (BACK) [LHD models]
14	BR	DOOR SW (AS) [LHD models]
15	P	DOOR SW (DR) [LHD models]
16	GR	DOOR SW (RL) [LHD models]
21	P	CAN-L
22	L	CAN-H
33	W	HAZARD SW [With xenon headlamps and daytime light system]

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80W-CS16-TM4



1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	32	33	34	35

Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
71	Y	-
72	LG	-

33	Y	HAZARD SW [Except with xenon headlamp and daytime light system]
----	---	---

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12FER



62	61	60	59	49	48	47	46	45	44	43	42	41
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Terminal No.	Color of Wire	Signal Name [Specification]
41	LG	BAT(FUSE)
42	V	ROOM LAMP POWER SUPPLY
45	V	BACK DOOR OPEN OUTPUT [LHD models]
47	BR	FRASHER OUTPUT (LH)
48	GR	FRASHER OUTPUT (RH)
52	R	ROOM LAMP CONTROL

Connector No.	M80
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS08FB-M2



3	5
2	4
1	6

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	V	-
4	V	-

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA08FB



60	59	58	57	56	55	54	53
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Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER [LHD models])
55	B	GND
56	V	DOOR LOCK OUTPUT (ALL)
57	Y	BAT(F/L)
60	G	DOOR UNLOCK RELEASE OUTPUT (DR [LHD models])

Connector No.	M97
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



6	5	4	3	2	1
12	11	10	9	8	7

Terminal No.	Color of Wire	Signal Name [Specification]
5	G	-
6	B	-
11	R	-
12	B	-

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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	M251
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	G	-
6	SHIELD	-
11	R	-
12	SHIELD	-

Connector No.	M252
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-

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BCM (BODY CONTROL MODULE)

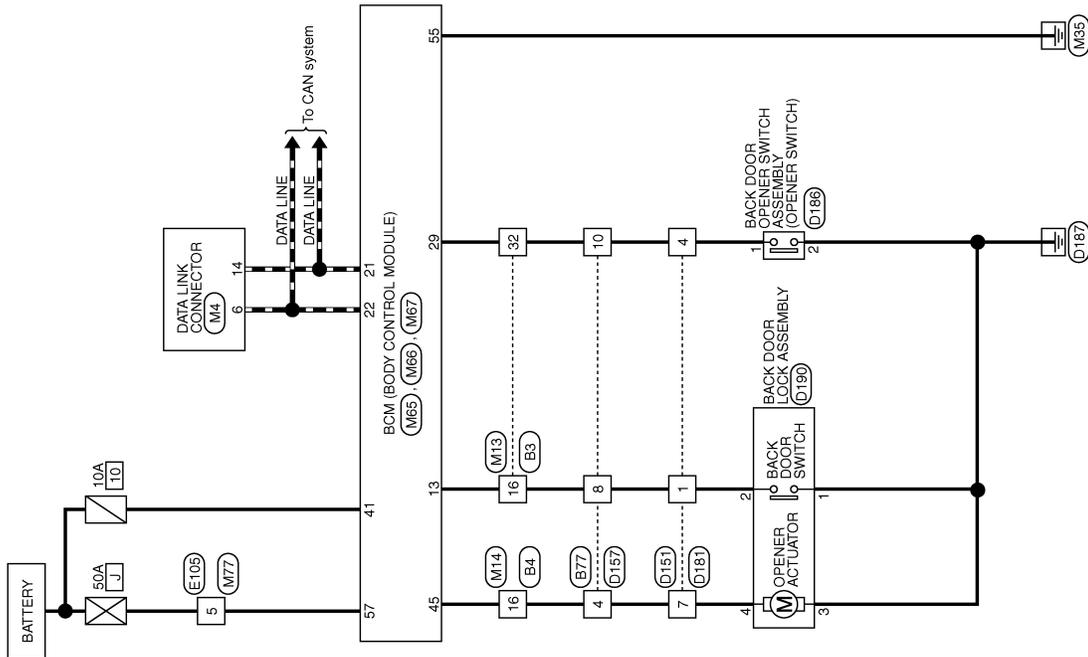
[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

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BACK DOOR OPENER SYSTEM



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2007/02/28

JCKWA0409GE

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH




Terminal No.	Color of Wire	Signal Name [Specification]
16	V	-
32	G	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
16	W	-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
8	V	-
10	G	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FB-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	LG	-
7	W	-

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



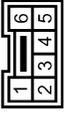

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-[LHD models]
4	V	-[RHD models]
8	V	-
10	G	-

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	G	-
7	W	-

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK08MW-TV

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	BCM
2	B	GND

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-
3	B	-
4	W	-

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Connector No.	Terminal No.	Color of Wire	Signal Name [Specification]
BACK DOOR OPENER SYSTEM			
E105	5	Y	-
WIRE TO WIRE			
TH80FW-CS16-TM4			
BACK DOOR OPENER SYSTEM			
M4	6	L	-
DATA LINK CONNECTOR			
BD16FW			
BACK DOOR OPENER SYSTEM			
M5	13	V	DOOR SW (BACK) [LHD models]
WIRE TO WIRE			
TH80FW-CS16-TM4			
BACK DOOR OPENER SYSTEM			
M6	41	LG	BAT(F)ISE
DOOR SW (BACK) [LHD models]			
TH80FW-CS16-TM4			
BACK DOOR OPENER SYSTEM			
M6	45	V	BACK DOOR OPEN OUTPUT [LHD models]
DOOR SW (BACK) [RHD models]			
TH80FW-CS16-TM4			
BACK DOOR OPENER SYSTEM			
M6	45	P	BACK DOOR OPEN OUTPUT [RHD models]
DOOR SW (BACK) [RHD models]			
TH80FW-CS16-TM4			
BACK DOOR OPENER SYSTEM			
M5	21	Y	CAN-L
WIRE TO WIRE			
TH80FW-CS16-TM4			
BACK DOOR OPENER SYSTEM			
M5	28	O	BACK DOOR OPEN SW
WIRE TO WIRE			
TH80FW-CS16-TM4			
BCM (BODY CONTROL MODULE)			
M7	5	Y	-
WIRE TO WIRE			
TH80MW-CS16-TM4			
BCM (BODY CONTROL MODULE)			
M6	55	B	GND
BCM (BODY CONTROL MODULE)			
F14A8FB			
BCM (BODY CONTROL MODULE)			
M6	57	Y	BAT(F)L
BCM (BODY CONTROL MODULE)			
F14A8FB			
BCM (BODY CONTROL MODULE)			
M6	52	L	-
BCM (BODY CONTROL MODULE)			
FEA12EB			
BCM (BODY CONTROL MODULE)			
M6	42	P	-
BCM (BODY CONTROL MODULE)			
FEA12EB			
BCM (BODY CONTROL MODULE)			
M6	32	O	-
BCM (BODY CONTROL MODULE)			
F14A8FB			
BCM (BODY CONTROL MODULE)			
M6	16	V	- [LHD models]
WIRE TO WIRE			
TH80FW-CS16-TM4			
BCM (BODY CONTROL MODULE)			
M6	16	Y	- [RHD models]
WIRE TO WIRE			
TH80FW-CS16-TM4			
BCM (BODY CONTROL MODULE)			
M6	16	P	- [RHD models]
WIRE TO WIRE			
TH80FW-CS16-TM4			
BCM (BODY CONTROL MODULE)			
M6	16	V	- [LHD models]
WIRE TO WIRE			
TH80FW-CS16-TM4			
BCM (BODY CONTROL MODULE)			
M6	16	Y	- [RHD models]
WIRE TO WIRE			
TH80FW-CS16-TM4			
BCM (BODY CONTROL MODULE)			
M6	16	P	- [RHD models]
WIRE TO WIRE			
TH80FW-CS16-TM4			

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Fail Safe

FAIL-SAFE CONTROL BY DTC
BCM performs fail-safe control when any DTC is detected.

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DTC	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC
B2191: DIFFERENCE OF KEY	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC
B2192: ID DISCORD BCM-ECM	Fuel cut (ECM)	Erase DTC
B2193: CHAIN OF BCM-ECM	Fuel cut (ECM)	Erase DTC
B2194: DISCORD BCM-I-KEY	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC
B2195: ANTI SCANNING	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC
B2196: DONGLE NG	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper auto stop signal.

When the rear wiper auto stop signal does not change more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

1. Turn ignition switch OFF.
2. Pass more than 1 minute after the rear wiper stop.
3. Turn ignition switch ON.
4. Operate the rear wiper switch.

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status from the terminal voltage.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

FAIL-SAFE CONTROL BY LIGHT & RAIN SENSOR MALFUNCTION

BCM detects the light & rain sensor serial link error and the light & rain sensor malfunction.

BCM controls the following fail-safe when light & rain sensor has a malfunction.

Fail-safe Control

- Auto light control: Headlamp is turned ON.
- Front wiper control: The condition just before the activation of fail-safe is maintained until the front wiper switch is turned OFF.

DTC Inspection Priority Chart

INFOID:000000001557108

Priority	DTC
1	<ul style="list-style-type: none"> U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
2	<ul style="list-style-type: none"> B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2194: DISCORD BCM-I-KEY B2195: ANTI SCANNING B2196: DONGLE NG

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

DTC Index

INFOID:000000001557109

NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- PAST: Displays when there is a malfunction that is detected in the past and stored.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

DTC	TIME		Fail-safe	Reference
	0	1 - 39		
U1000: CAN COMM CIRCUIT	0	1 - 39	—	BCS-33
U1010: CONTROL UNIT (CAN)	0	1 - 39	—	BCS-34
B2190: NATS ANTENNA AMP	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-41 • Without Intelligent Key system: SEC-254
B2191: DIFFERENCE OF KEY	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-43 • Without Intelligent Key system: SEC-256
B2192: ID DISCORD BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-38 • Without Intelligent Key system: SEC-251
B2193: CHAIN OF BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-40 • Without Intelligent Key system: SEC-253
B2194: DISCORD BCM-I-KEY	CRNT	PAST	×	SEC-53
B2195: ANTI SCANNING	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-54 • Without Intelligent Key system: SEC-264
B2196: DONGLE NG	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-55 • Without Intelligent Key system: SEC-265

DLK

DOOR LOCK

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

SYMPTOM DIAGNOSIS

DOOR LOCK

Symptom Table

INFOID:000000001515567

The diagnostics item numbers show the sequence for inspection. Inspection in order from item 1.

NO.	Function	Operation condition	Symptom	Diagnostic Item	Reference page
1	Door lock and unlock switch function	Press door lock and unlock switch.	Door does not lock/unlock	All doors	DLK-214
				Driver side	DLK-215
				Passenger side	DLK-215
				Rear LH	DLK-216
				Rear RH	DLK-216
2	Intelligent Key function	Press Intelligent Key button.	Door does not lock/unlock	—	DLK-217
			Anti-hijack function does not operate	—	DLK-218
3	Door request switch function	Press driver side door request switch.	Door does not lock/unlock	—	DLK-219
		Press passenger side door request switch.		—	DLK-219
		Press back door request switch.		—	DLK-220
		Press driver side door request switch, when all doors are locked.	Anti-hijack function does not operate	Driver side door	DLK-222
		Press passenger side door request switch, when all doors are locked.		Passenger side door	DLK-222
4	Key reminder function	Lock all doors with door lock and unlock switch, when Intelligent Key is inside of the vehicle.	Key reminder function does not operate	—	DLK-224
5	Auto door lock function	Unlock all doors and wait more than 2 minutes.	Auto door lock operation does not operate	—	DLK-225
6	Vehicle speed sensing auto door lock function	Vehicle speed is more than 25km/h.	Vehicle speed sensing auto door lock operation does not operate	—	DLK-226
7	Back door opener function	Press back door opener switch.	Back door does not open	—	DLK-227

DOOR LOCK

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

NO.	Function	Operation condition	Symptom	Diagnostic Item	Reference page
8	Warning function	Door is opened under the following condition. • Ignition knob is OFF or LOCK position.	Ignition knob return forgotten warning does not operate	—	DLK-228
		Driver side door is opened under the following conditions. • Ignition switch is OFF position. • Mechanical key is inserts into ignition key cylinder.	Ignition key warning does not operate	—	DLK-229
		Door is opened under the following condition. • Ignition knob is between ACC and OFF position or ignition knob is pressed in while ignition switch is in LOCK position.	OFF position warning does not operate	Warning lamp Buzzer (Combination meter)	DLK-230 DLK-230
		Door is opened under the following conditions and wait more than 5 seconds. • Engine is running. • Take Intelligent Key out of the vehicle.	Take away warning does not operate	Warning lamp	DLK-231
		Any door open to all door close under the following conditions. • Engine is running. • Take Intelligent Key out of the vehicle.		Intelligent Key warning buzzer	DLK-232
		Take away through window Intelligent Key under the following condition and wait more than 30 seconds. • Engine is running.		Warning lamp	DLK-232
		Take away through window Intelligent Key under the following condition and wait more than 30 seconds. • Engine is running.		Buzzer (Combination meter)	DLK-233
		Turn ignition switch ON position, when Intelligent Key battery is low voltage.	Intelligent Key low battery warning does not operate	Warning lamp	DLK-234
		Press door request switch under the following conditions. • Door is opened. • Ignition switch is in ACC or OFF position or ignition knob is pressed in LOCK position or mechanical key is inserts into ignition key cylinder. • Intelligent Key is inside vehicle.	Door lock operation warning chime does not operate	—	DLK-235
		Press Intelligent Key button under the following conditions. • Door is opened. • Ignition switch is in ACC or OFF position or ignition knob is pressed in LOCK position or mechanical key is inserts into ignition key cylinder.		—	DLK-236
		Press back door opener switch under the following conditions. • Door is locked with door lock and unlock switch. • Speed sensing lock or only driver side is unlocked with anti-hijack function.	Back door open warning does not operate	—	DLK-237
9	Hazard and buzzer reminder function	Press door request switch or Intelligent Key button.	Buzzer reminder operation does not operate	—	DLK-238
		Press door request switch or Intelligent Key button.	Hazard reminder operation does not operate	—	DLK-239

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DLK

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH < SYMPTOM DIAGNOSIS > [WITH I-KEY, WITHOUT SUPER LOCK]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Description

INFOID:000000001515568

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

ALL DOOR : Diagnosis Procedure

INFOID:000000001515569

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to [DLK-72, "BCM : Diagnosis Procedure"](#) (BCM).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.

Refer to [DLK-138, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-84, "PASSENGER SIDE : Component Function Check"](#) (passenger side).

Refer to [DLK-86, "REAR LH : Component Function Check"](#) (rear LH).

Refer to [DLK-87, "REAR RH : Component Function Check"](#) (rear RH).

Refer to [DLK-89, "BACK DOOR : Component Function Check"](#) (back door).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.

Refer to [DLK-138, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

DRIVER SIDE

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DRIVER SIDE : Description

INFOID:000000001515570

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001515571

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).

Refer to [DLK-96. "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001515572

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001515573

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (passenger side).

Refer to [DLK-98. "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

REAR LH

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

REAR LH : Description

INFOID:000000001515574

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

REAR LH : Diagnosis Procedure

INFOID:000000001515575

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator LH.

Refer to [DLK-99, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR RH

REAR RH : Description

INFOID:000000001515576

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

REAR RH : Diagnosis Procedure

INFOID:000000001515577

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator RH.

Refer to [DLK-100, "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description

INFOID:000000001515578

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock and unlock switch operations are normal.
- Emergency key is removed from ignition key cylinder.
- All doors are closed.
- Ignition knob is not pressed.
- No Intelligent keys are inside the vehicle.

Diagnosis Procedure

INFOID:000000001515579

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to [DLK-72. "INTELLIGENT KEY UNIT : Diagnosis Procedure"](#) (Intelligent Key unit).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DRIVER SIDE DOOR SWITCH

Check drive side door switch.

Refer to [DLK-83. "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK KEY SWITCH

Check key switch.

Refer to [DLK-91. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK IGNITION KNOB SWITCH

Check ignition knob switch.

Refer to [DLK-94. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.

Refer to [DLK-138. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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ANTI-HIJACK FUNCTION DOES NOT OPERATE WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

ANTI-HIJACK FUNCTION DOES NOT OPERATE WITH INTELLIGENT KEY

Description

INFOID:000000001515580

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock and unlock switch operations are normal.
- Emergency key is removed from ignition key cylinder.
- All doors are closed.
- Ignition knob is not pressed.
- No Intelligent Keys are inside the vehicle.

Diagnosis Procedure

INFOID:000000001515581

1. CHECK “SELECTIVE UNLOCK FUNCTION” SETTING IN “WORK SUPPORT”

Check “SELECTIVE UNLOCK FUNCTION” setting in “Work Support”.

Refer to [DLK-67. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set “SELECTIVE UNLOCK FUNCTION” of “Work Support”. Refer to [DLK-67. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001515584

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Intelligent Key operation is normal.
- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- Emergency key is removed from ignition key cylinder.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001515585

1.CHECK “LOCK/UNLOCK BY I-KEY” SETTING IN “WORK SUPPORT”

Check “LOCK/UNLOCK BY I-KEY” setting in “Work Support”.

Refer to [DLK-67, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set “LOCK/UNLOCK BY I-KEY” of “Work Support”. Refer to [DLK-67, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

2.CHECK DOOR REQUEST SWITCH

Check door request switch.

Refer to [DLK-77, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.

Refer to [DLK-109, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check Intermittent Incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001515586

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Intelligent Key operation is normal.
- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- Emergency key is removed from ignition key cylinder.
- Ignition switch is in OFF position.

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

- No Intelligent Keys are inside the vehicle.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001515587

1.CHECK DOOR REQUEST SWITCH

Check door request switch.

Refer to [DLK-79. "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.

Refer to [DLK-112. "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check Intermittent Incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

BACK DOOR

BACK DOOR : Description

INFOID:000000001515588

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Intelligent Key operation is normal.
- "LOCK/UNLOCK BY I-KEY" is ON when setting on CONSULT-III.
- Emergency key is removed from ignition key cylinder.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

BACK DOOR : Diagnosis Procedure

INFOID:000000001515589

1.CHECK DOOR REQUEST SWITCH

Check back door request switch.

Refer to [DLK-81. "BACK DOOR : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.

Refer to [DLK-115. "BACK DOOR : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

[WITH I-KEY, WITHOUT SUPER LOCK]

< SYMPTOM DIAGNOSIS >

YES >> Check Intermittent Incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> GO TO 1.

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ANTI-HIJACK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

ANTI-HIJACK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001548077

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Intelligent Key operation is normal.
- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- Emergency key is removed from ignition key cylinder.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001548076

1.CHECK “SELECTIVE UNLOCK FUNCTION” SETTING IN “WORK SUPPORT”

Check “SELECTIVE UNLOCK FUNCTION” setting in “Work Support”.

Refer to [DLK-67, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set “SELECTIVE UNLOCK FUNCTION” of “Work Support”. Refer to [DLK-67, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001515590

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Intelligent Key operation is normal.
- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- Emergency key is removed from ignition key cylinder.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001515591

1.CHECK PASSENGER SIDE ANTI-HIJACK RELAY

Check passenger side anti-hijack relay.

Refer to [DLK-129, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

ANTI-HIJACK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> GO TO 1.

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KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

KEY REMINDER FUNCTION DOES NOT OPERATE

Description

INFOID:000000001515592

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22, "Work Flow"](#).
- Understand the operation when does it work, refer to [DLK-37, "KEY REMINDER : System Description"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Diagnosis Procedure

INFOID:000000001515593

1.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-83, "DRIVER SIDE : Component Function Check"](#). (Driver side)

Refer to [DLK-84, "PASSENGER SIDE : Component Function Check"](#). (Passenger side)

Refer to [DLK-86, "REAR LH : Component Function Check"](#). (Rear LH)

Refer to [DLK-87, "REAR RH : Component Function Check"](#). (Rear RH)

Refer to [DLK-89, "BACK DOOR : Component Function Check"](#). (Back door)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-119, "INSTRUMENT CENTER : Component Function Check"](#). (Instrument center)

Refer to [DLK-122, "CONSOLE : Component Function Check"](#). (Console)

Refer to [DLK-125, "REAR SEAT : Component Function Check"](#). (Rear seat)

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Description

INFOID:000000001515594

NOTE:

- "AUTO RELOCK TIMER" is not OFF when setting on CONSULT-III.
 - Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22, "Work Flow"](#).
 - Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
 - Understand the operation when does it work, refer to [DLK-40, "AUTO DOOR LOCK : System Description"](#).
- Conditions of Vehicle (Operating Conditions)
- Request switch operation and door lock and unlock switch operation are normal.

Diagnosis Procedure

INFOID:000000001515595

1. CHECK "AUTO RELOCK TIMER" SETTING IN "WORK SUPPORT"

Check "AUTO RELOCK TIMER" setting in "Work Support".

Refer to [DLK-67, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE
< SYMPTOM DIAGNOSIS > **[WITH I-KEY, WITHOUT SUPER LOCK]**

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

Description

INFOID:000000001515596

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-22. "Work Flow"](#).
- Understand the operation when does it work, refer to [DLK-43. "VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Diagnosis Procedure

INFOID:000000001515597

1. CHECK VEHICLE SPEED SIGNAL

Check vehicle speed signal.

Refer to [DLK-137. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

BACK DOOR DOES NOT OPENED

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR DOES NOT OPENED

Description

INFOID:000000001515598

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock function is normal.
- Vehicle speed is less than 5 km/h (3MPH).
- All doors are unlocked.

Diagnosis Procedure

INFOID:000000001515599

1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-107. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK BACK DOOR OPENER ACTUATOR

Check back door opener actuator.

Refer to [DLK-103. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

IGNITION KNOB RETURN FORGOTTEN WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

IGNITION KNOB RETURN FORGOTTEN WARNING DOES NOT OPERATE

Description

INFOID:000000001515600

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-54. "System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001515601

1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-133. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

IGNITION KEY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

IGNITION KEY WARNING DOES NOT OPERATE

Description

INFOID:000000001515602

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-54. "System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001515603

1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-133. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

OFF POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

OFF POSITION WARNING DOES NOT OPERATE

WARNING LAMP

WARNING LAMP : Description

INFOID:000000001515604

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-54, "System Description"](#).
- Door lock function is normal.

WARNING LAMP : Diagnosis Procedure

INFOID:000000001515605

1.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-131, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Description

INFOID:000000001515606

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-54, "System Description"](#).
- Door lock function is normal.

BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:000000001515607

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-133, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

TAKE AWAY WARNING DOES NOT OPERATE (DOOR IS OPENED)

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

TAKE AWAY WARNING DOES NOT OPERATE (DOOR IS OPENED)

WARNING LAMP

WARNING LAMP : Description

INFOID:000000001515616

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-54, "System Description"](#).
- Door lock function is normal.

WARNING LAMP : Diagnosis Procedure

INFOID:000000001515617

1. CHECK KEY WARNING LAMP

Check KEY warning lamp.

Refer to [DLK-134, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

TAKE AWAY WARNING DOES NOT OPERATE (ANY DOOR OPEN TO ALL DOORS CLOSE)

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

TAKE AWAY WARNING DOES NOT OPERATE (ANY DOOR OPEN TO ALL DOORS CLOSE)

WARNING LAMP

WARNING LAMP : Description

INFOID:000000001515612

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-54, "System Description"](#).
- Door lock function is normal.

WARNING LAMP : Diagnosis Procedure

INFOID:000000001515613

1.CHECK KEY WARNING LAMP

Check KEY warning lamp.

Refer to [DLK-134, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

INTELLIGENT KEY WARNING BUZZER

INTELLIGENT KEY WARNING BUZZER : Description

INFOID:000000001515614

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-54, "System Description"](#).
- Door lock function is normal.

INTELLIGENT KEY WARNING BUZZER : Diagnosis Procedure

INFOID:000000001515615

1.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-131, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

TAKE AWAY WARNING DOES NOT OPERATE (TAKE AWAY THROUGH WINDOW)

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

TAKE AWAY WARNING DOES NOT OPERATE (TAKE AWAY THROUGH WINDOW)

WARNING LAMP

WARNING LAMP : Description

INFOID:000000001515618

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-54, "System Description"](#).
- Door lock function is normal.

WARNING LAMP : Diagnosis Procedure

INFOID:000000001515619

1. CHECK KEY WARNING LAMP

Check KEY warning lamp.

Refer to [DLK-134, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Description

INFOID:000000001515620

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-54, "System Description"](#).
- Door lock function is normal.

BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:000000001515621

1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-133, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Description

INFOID:000000001515622

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-54. "System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001515623

1. CHECK “LOW BATT OF KEY FOB WARN” SETTING IN “WORK SUPPORT”

Check “LOW BATT OF KEY FOB WARN” setting in “Work Support”.

Refer to [DLK-67. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set “LOW BATT OF KEY FOB WARN” setting in “Work Support”. Refer to [DLK-67. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

2. CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.

Refer to [DLK-138. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK KEY WARNING LAMP

Check KEY warning lamp.

Refer to [DLK-134. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR LOCK OPERATION WARNING CHIME DOES NOT OPERATE WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR LOCK OPERATION WARNING CHIME DOES NOT OPERATE WITH DOOR REQUEST SWITCH

Description

INFOID:000000001515626

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-54. "System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001515627

1. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-131. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

DOOR LOCK OPERATION WARNING CHIME DOES NOT OPERATE WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR LOCK OPERATION WARNING CHIME DOES NOT OPERATE WITH INTELLIGENT KEY

Description

INFOID:000000001515624

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-54. "System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001515625

1. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-131. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

BACK DOOR OPEN WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR OPEN WARNING DOES NOT OPERATE

Description

INFOID:000000001515628

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock function and back door opener function is normal.

Diagnosis Procedure

INFOID:000000001515629

1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-133. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

BUZZER REMINDER OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BUZZER REMINDER OPERATION DOES NOT OPERATE

Description

INFOID:000000001515630

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- “ANSWER BACK WITH I-KEY LOCK”, “ANSWER BACK WITH I-KEY UNLOCK” and “ANSWER BACK FUNCTION” are ON when setting on CONSULT-III.
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001515631

1. CHECK SETTING OF BUZZER REMINDER WITH CONSULT-III

Check “ANSWER BACK WITH I-KEY LOCK” and “ANSWER BACK WITH I-KEY UNLOCK” setting in “Work Support”.

Refer to [DLK-67. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set “ANSWER BACK WITH I-KEY LOCK” and “ANSWER BACK WITH I-KEY UNLOCK” setting in “WORK SUPPORT”. Refer to [DLK-67. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

HAZARD REMINDER OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

HAZARD REMINDER OPERATION DOES NOT OPERATE

Description

INFOID:000000001515632

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-22. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- “HAZARD ANSWER BACK” is ON when setting on CONSULT-III.
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001515633

1. CHECK SETTING OF BUZZER REMINDER WITH CONSULT-III

Check “HAZARD ANSWER BACK” setting in “Work Support”.

Refer to [DLK-67. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set “HAZARD ANSWER BACK” setting in “Work Support”. Refer to [DLK-67. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

SQUEAK AND RATTLE TROUBLE DIAGNOSES

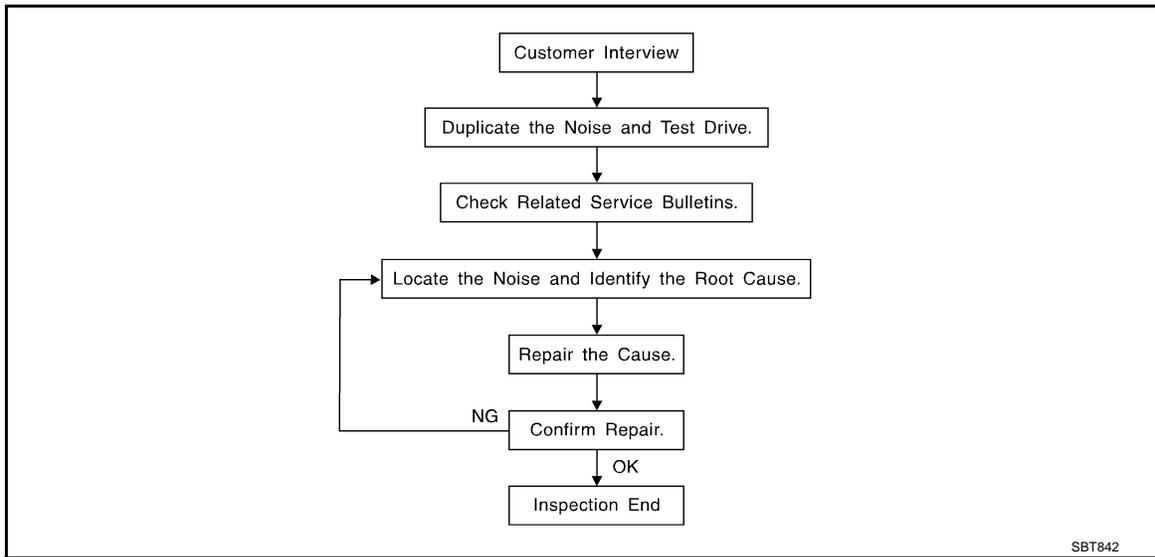
< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000001537518



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of the customer's comments; refer to [DLK-244, "Diagnostic Worksheet"](#). This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by a test drive with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)
Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)
Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)
Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)
Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumble bee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on A/T model).
 - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
 - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Engine Ear or mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - removing the components in the area that you suspect the noise is coming from.
Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
 - tapping or pushing/pulling the component that you suspect is causing the noise.
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
 - placing a piece of paper between components that you suspect are causing the noise.
 - looking for loose components and contact marks.
Refer to [DLK-242, "Inspection Procedure"](#).

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
 - separate components by repositioning or loosening and retightening the component, if possible.
 - insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape are available through your authorized Nissan Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged.

NOTE:

- URETHANE PADS
Insulates connectors, harness, etc.
- INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
- INSULATOR (Light foam block)
- FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
The following materials, not available through NISSAN Parts Department, can also be used to repair squeaks and rattles.
- UHMW(TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications.
- SILICONE GREASE
Used in place of UHMW tape that will be visible or not fit.
Note: Will only last a few months.
- SILICONE SPRAY
Use when grease cannot be applied.
- DUCT TAPE
Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Inspection Procedure

INFOID:000000001537519

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. Cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

1. Shifter assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner.

In addition look for:

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment
3. Trunk lid torsion bars knocking together
4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

SEATS

When isolating seat noise it is important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. Rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Diagnostic Worksheet

INFOID:000000001537520



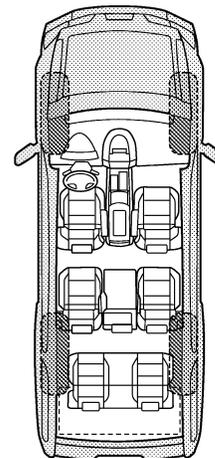
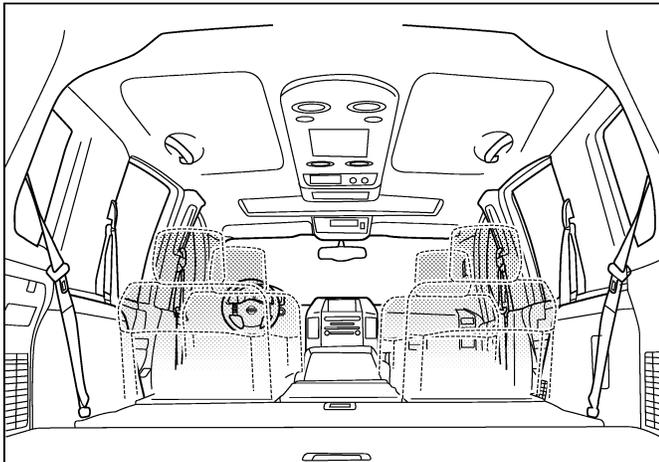
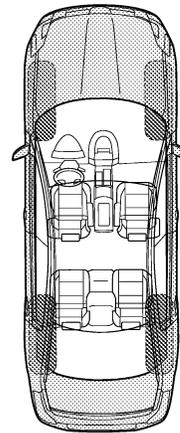
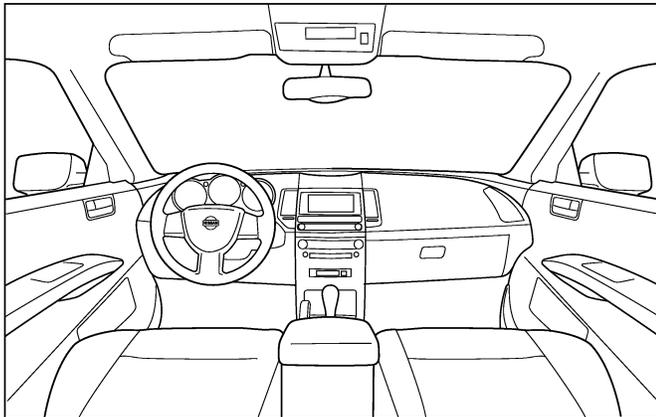
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

PIIB8740E

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| <input type="checkbox"/> anytime | <input type="checkbox"/> after sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> when it is raining or wet |
| <input type="checkbox"/> only when it is cold outside | <input type="checkbox"/> dry or dusty conditions |
| <input type="checkbox"/> only when it is hot outside | <input type="checkbox"/> other: |

III. WHEN DRIVING:

- through driveways
- over rough roads
- over speed bumps
- only about ____ mph
- on acceleration
- coming to a stop
- on turns: left, right or either (circle)
- with passengers or cargo
- other: _____
- after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- squeak (like tennis shoes on a clean floor)
- creak (like walking on an old wooden floor)
- rattle (like shaking a baby rattle)
- knock (like a knock at the door)
- tick (like a clock second hand)
- thump (heavy, muffled knock noise)
- buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise verified on test drive	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise source located and repaired	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Follow up test drive performed to confirm repair	<input type="checkbox"/>	<input type="checkbox"/>	_____

VIN: _____ Customer Name: _____
 W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

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PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000001524327

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIRBAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:000000001524328

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYSTEM).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NATS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.

NOTE:

Supply power using jumper cables if battery is discharged.

2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
4. Perform the necessary repair operation.
5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
6. Perform a self-diagnosis check of all control units using CONSULT-III.

PRECAUTIONS

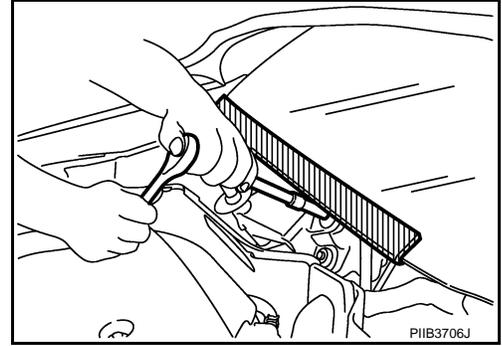
< PRECAUTION >

[WITH I-KEY, WITHOUT SUPER LOCK]

Precaution for Procedure without Cowl Top Cover

INFOID:000000001280618

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



Work

INFOID:000000001280619

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operational.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

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PREPARATION

< PREPARATION >

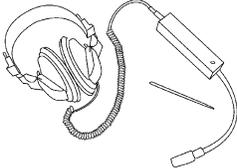
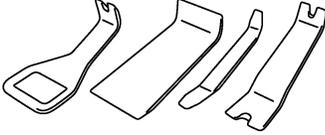
[WITH I-KEY, WITHOUT SUPER LOCK]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000001280620

Tool name	Description
<p data-bbox="191 520 302 541">Engine ear</p>  <p data-bbox="802 632 867 646">SIA0995E</p>	<p data-bbox="1000 520 1182 541">Locating the noise</p>
<p data-bbox="191 772 326 793">Remover tool</p>  <p data-bbox="802 884 867 898">PIIB7923J</p>	<p data-bbox="1000 772 1403 793">Remove the clips, pawls, and metal clips</p>
<p data-bbox="191 1024 302 1045">Power tool</p>  <p data-bbox="802 1136 867 1150">PIIB1407E</p>	

HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

ON-VEHICLE REPAIR

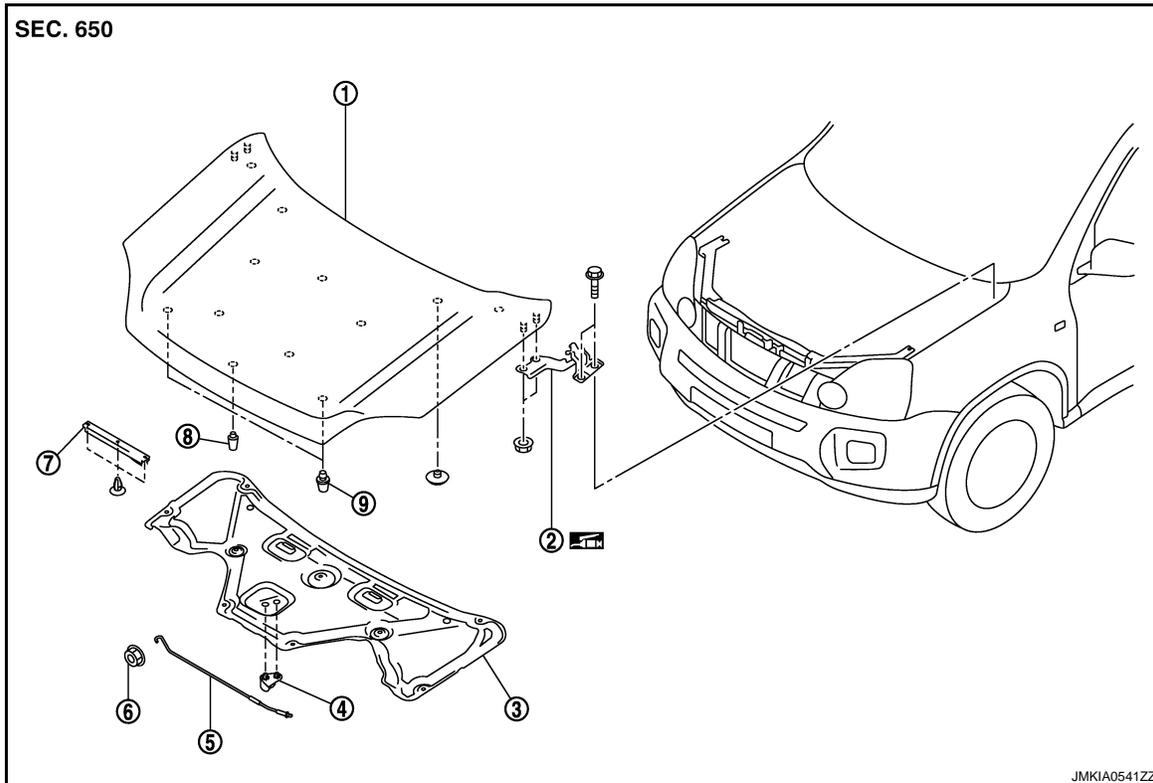
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000001280622

REMOVAL



- | | | |
|-----------------------|------------------------------|----------------------------|
| 1. Hood assembly | 2. Hood hinge | 3. Hood insulator |
| 4. Clamp | 5. Hood support rod | 6. Grommet |
| 7. Radiator core seal | 8. Hood bumper rubber center | 9. Hood bumper rubber side |

Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

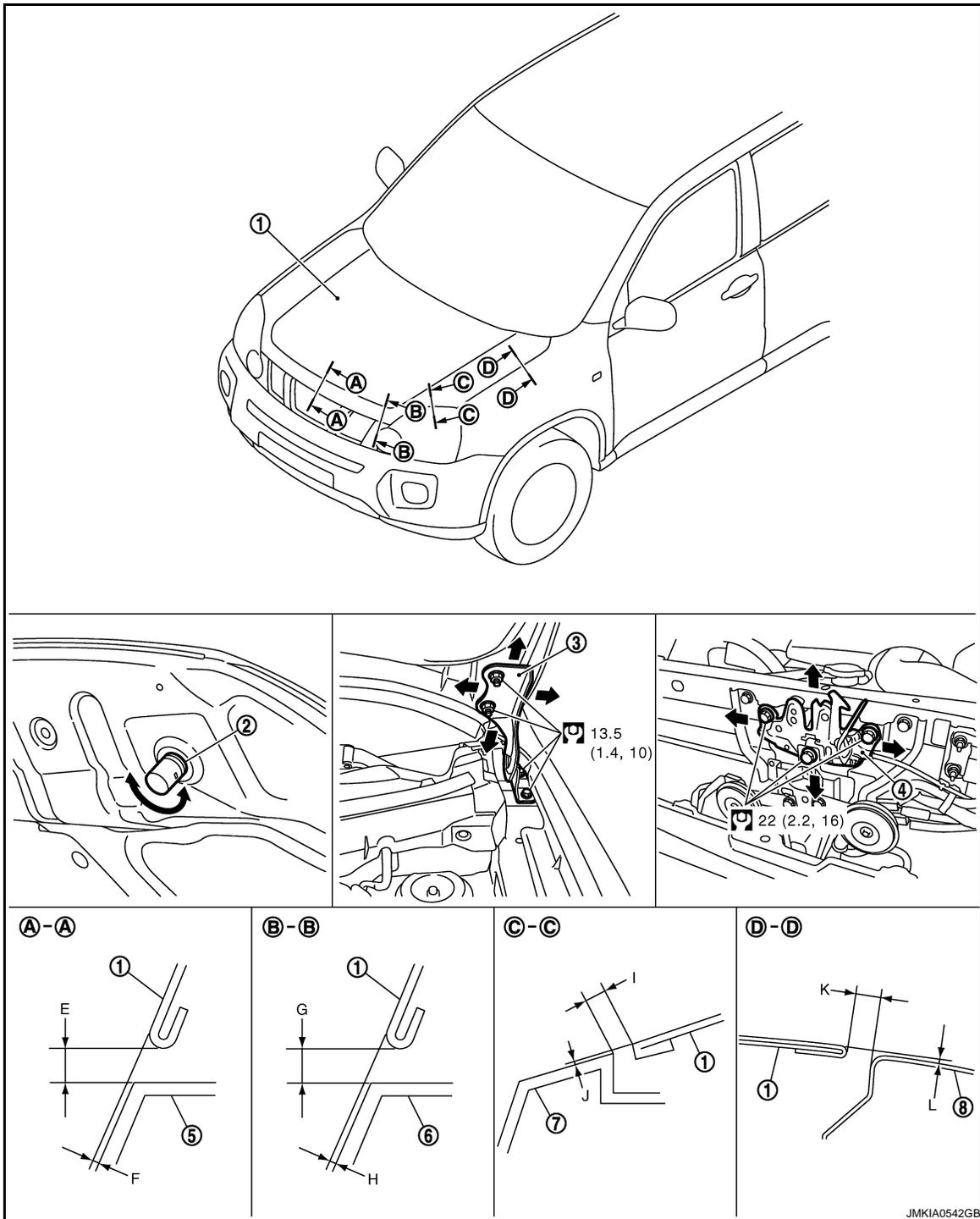
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HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]



JMKIA0542GB

- | | | |
|---------------------------|----------------------------|-----------------|
| 1. Hood assembly | 2. Hood bumper rubber side | 3. Hood hinge |
| 4. Hood lock assembly | 5. Front grille | 6. Front bumper |
| 7. Front combination lamp | 8. Front fender | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:000000001280623

REMOVAL

1. Support the hood lock assembly with the proper material to prevent it from falling.

WARNING:

HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

Bodily injury may occur if no supporting rod is holding the hood open when removing the hood stay.

- Remove the hood hinge mounting nuts on the hood to remove the hood assembly.

CAUTION:

Perform work with 2 workers, because of its heavy weight.

- Remove the following parts after removing the hood assembly.
 - Hood insulator
 - Clamp
 - Hood support rod
 - Grommet
 - Radiator core seal
 - Hood bumper rubber center
 - Hood bumper rubber side

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installing, perform hood fitting adjustment. Refer to [DLK-251, "HOOD ASSEMBLY : Adjustment"](#).

HOOD ASSEMBLY : Adjustment

INFOID:000000001280624

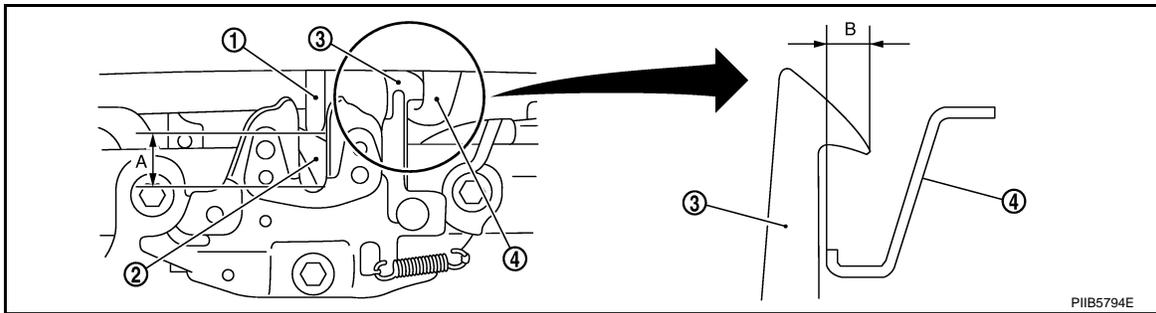
				mm(in)
Portion			Standard	
Hood – Front grill	A – A	E	Clearance	4.0 – 8.0 (0.157 – 0.315)
		F	Surface height	- 0.4 – 4.0 (- 0.016 – 0.157)
Hood – Front bumper	B – B	G	Clearance	4.0 – 8.0 (0.157 – 0.315)
		H	Surface height	- 0.4 – 4.0 (- 0.016 – 0.157)
Hood – Front combination lamp	C – C	I	Clearance	1.8 – 6.2 (0.071 – 0.244)
		J	Surface height	- 1.3 – 2.7 (- 0.051 – 0.106)
Hood – Front fender	D – D	K	Clearance	2.6 – 4.6 (0.102 – 0.181)
		L	Surface height	- 1.0 – 1.0 (- 0.039 – 0.039)

- Check the clearance and the surface height between the hood and each part by visually and touching. (Fitting standard dimension in the table below should be satisfied.)
- Remove the front grille. Refer to [EXT-18, "Removal and Installation"](#).
- In case any parts are out of specification, adjust them according to the procedures shown below.
- Remove the hood lock and adjust the height by rotating the hood bumper rubber side until the hood becomes 1 to 1.5 mm (0.04 to 0.059 in) lower than the fender.
- Temporarily tighten the hood lock, and position by engaging it with the hood striker. Check the lock and striker for looseness and adjust the clearance and evenness with the striker to satisfy the specification.
- Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately. 200 mm (7.87 in) height or by pressing the hood lightly [approximately. 29 N (3 kg)].

HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]



- 1. Hood striker
- 2. Primary latch
- 3. Secondary striker
- 4. Secondary latch

A : 20.0 mm (0.787 in)

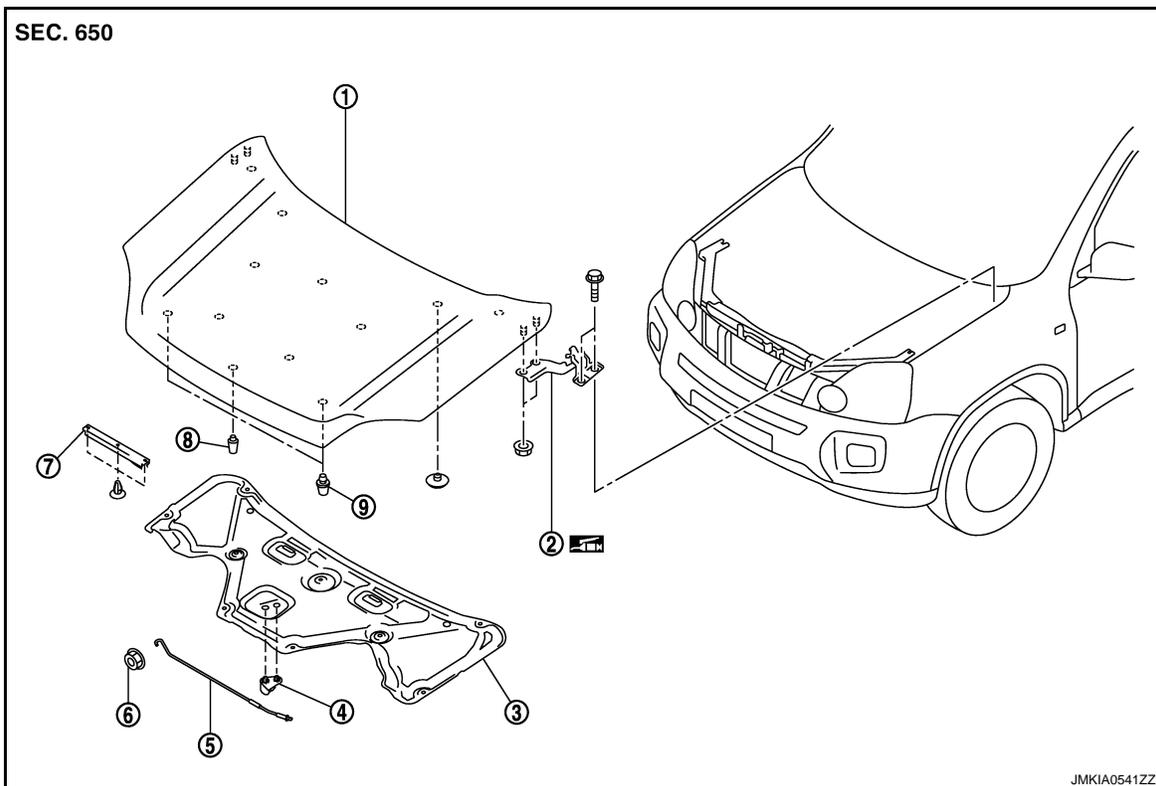
B : 6.8 mm (0.268 in)

7. After adjustment tighten lock bolts to the specified torque.

HOOD HINGE

HOOD HINGE : Exploded View

INFOID:000000001280625



- 1. Hood assembly
- 2. Hood hinge
- 3. Hood insulator
- 4. Clamp
- 5. Hood support rod
- 6. Gromet
- 7. Radiator core seal
- 8. Hood bumper rubber center
- 9. Hood bumper rubber side

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD HINGE : Removal and Installation

INFOID:000000001280626

REMOVAL

HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

1. Remove the hood assembly. Refer to [DLK-250, "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove the front fender. Refer to [DLK-258, "Removal and Installation"](#).
3. Remove the hood hinge mounting bolts, and then remove the hood hinge.

INSTALLATION

Install in the reverse order of removal.

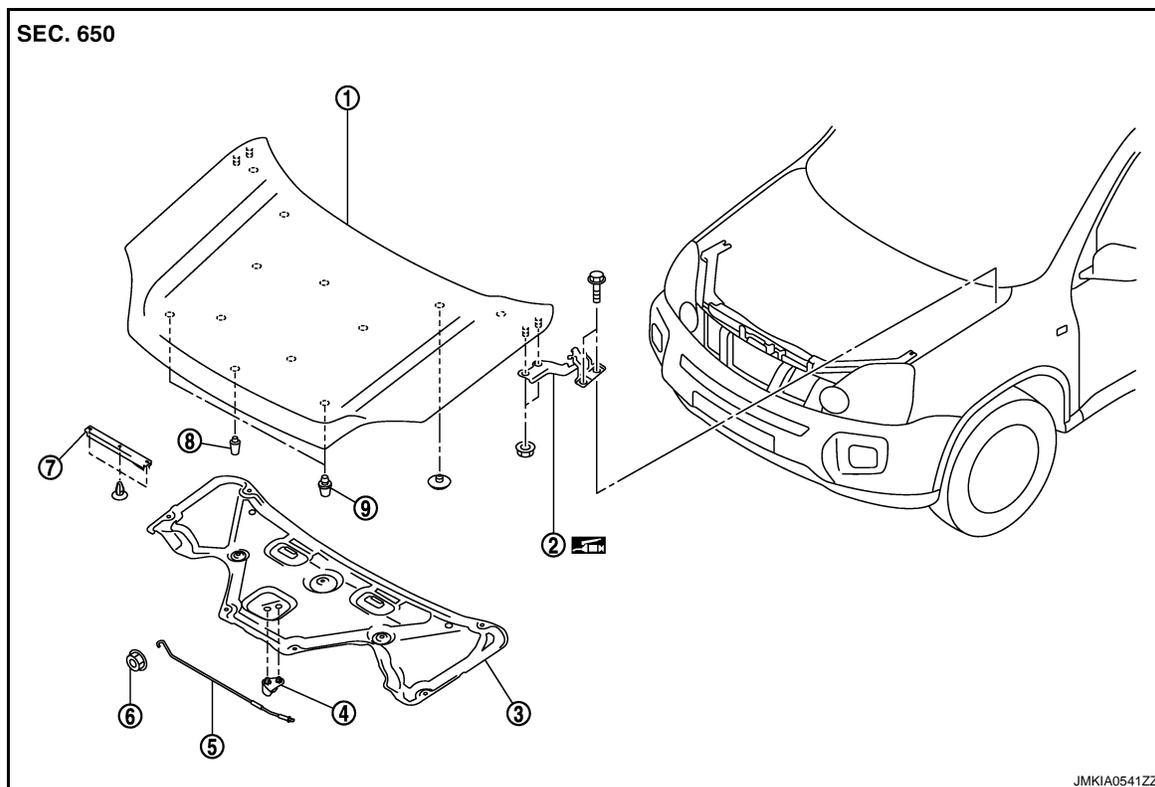
CAUTION:

- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.
- After installation, perform hood fitting adjustment. Refer to [DLK-251, "HOOD ASSEMBLY : Adjustment"](#).

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Exploded View

INFOID:000000001298150



- | | | |
|-----------------------|------------------------------|----------------------------|
| 1. Hood assembly | 2. Hood hinge | 3. Hood insulator |
| 4. Clamp | 5. Hood support rod | 6. Grommet |
| 7. Radiator core seal | 8. Hood bumper rubber center | 9. Hood bumper rubber side |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000001280628

REMOVAL

1. Support the hood lock assembly with the proper material to prevent it from falling.
WARNING:
Bodily injury may occur if no supporting rod is holding the hood open when removing the hood stay.
2. Remove the hood support rod from the grommet.

INSTALLATION

HOOD

< ON-VEHICLE REPAIR >

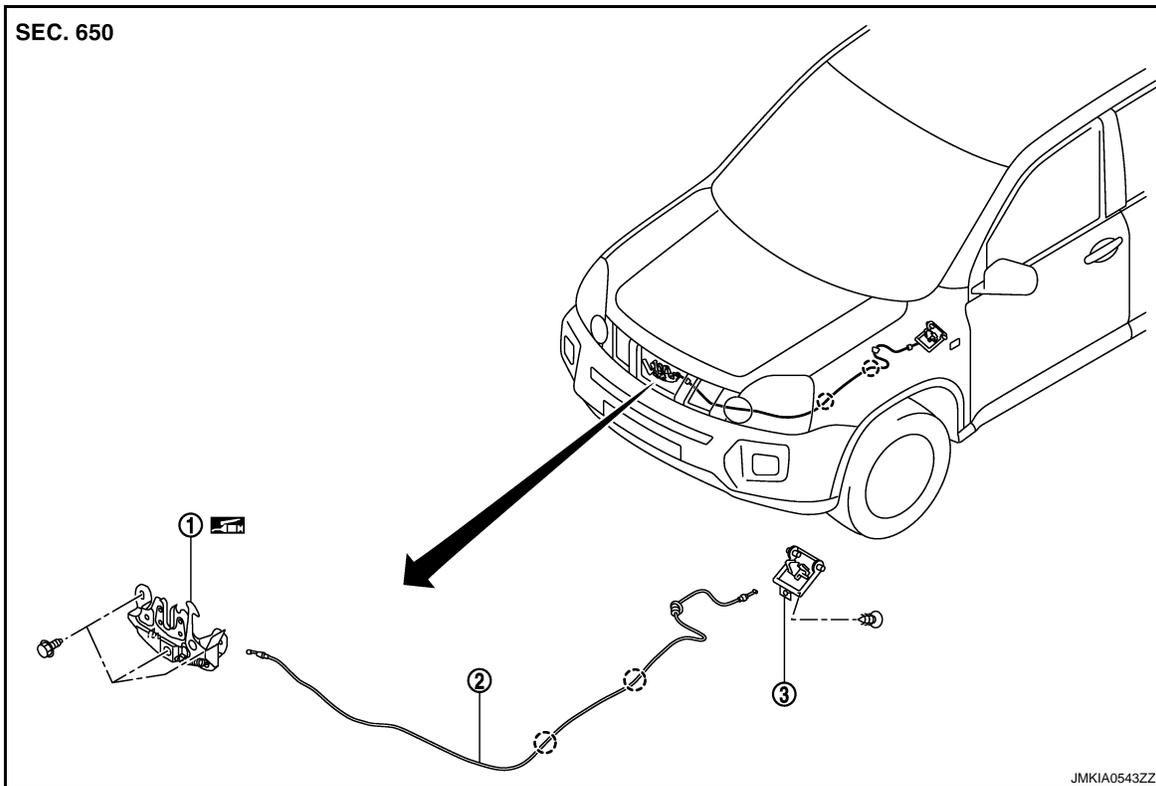
[WITH I-KEY, WITHOUT SUPER LOCK]

Install in the reverse order of removal.

HOOD LOCK CONTROL

HOOD LOCK CONTROL : Exploded View

INFOID:000000001280629



1. Hood lock assembly

2. Hood lock control cable

3. Hood lock opener

○ :Clip

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD LOCK CONTROL : Removal and Installation

INFOID:000000001280630

REMOVAL

1. Remove the hood lock opener mounting bolts, and then remove the hood lock opener.
2. Remove the front grille. Refer to [EXT-18. "Removal and Installation"](#).
3. Remove the fender protector. Refer to [EXT-21. "Removal and Installation"](#).
4. Remove the hood lock mounting bolts, and then remove the hood lock.
5. Disconnect the hood lock cable from hood lock, and clip it from the hoodledge.
6. Remove the grommet on the dash lower panel, and pull the hood lock control cable toward the passenger compartment.

CAUTION:

While pulling, do not to damage (peeling) the outside of the hood lock control cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

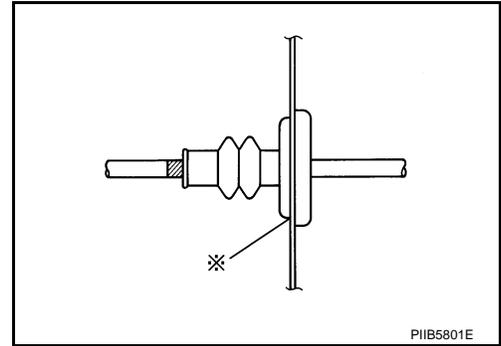
- Do not to bend the cable too much, keeping the radius 100 mm (3.94 in) or more.

HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

- Check that the cable is not offset from the positioning grommet, and apply the sealant to the grommet (at *mark) properly.



- Check that the hood lock control cable is properly engaged with the hood lock.
- After installation, perform hood fitting adjustment. Refer to [DLK-251, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform the hood lock control inspection. Refer to [DLK-255, "HOOD LOCK CONTROL : Inspection"](#).

HOOD LOCK CONTROL : Inspection

INFOID:000000001280631

NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Check that the secondary latch is properly engaged with the secondary striker [6.8 mm (0.268 in) shown in the figure] by hood weight.
2. While operating the hood opener, carefully check that the front end of the hood is raised by approximately 20.0 mm (0.787 in). Also check that the hood opener returns to the original position.
3. Check that the hood opener operating is condition 49 N (5.0 kg) or below.
4. Install so that static closing face of hood is 94 – 490 N·m (9.6 – 50.0 kg·m).

NOTE:

- Exert vertical force on right side and left side of hood lock.
 - Do not press simultaneously both sides.
5. Check the hood lock lubrication condition. If necessary, apply body grease to the hood lock.

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RADIATOR CORE SUPPORT

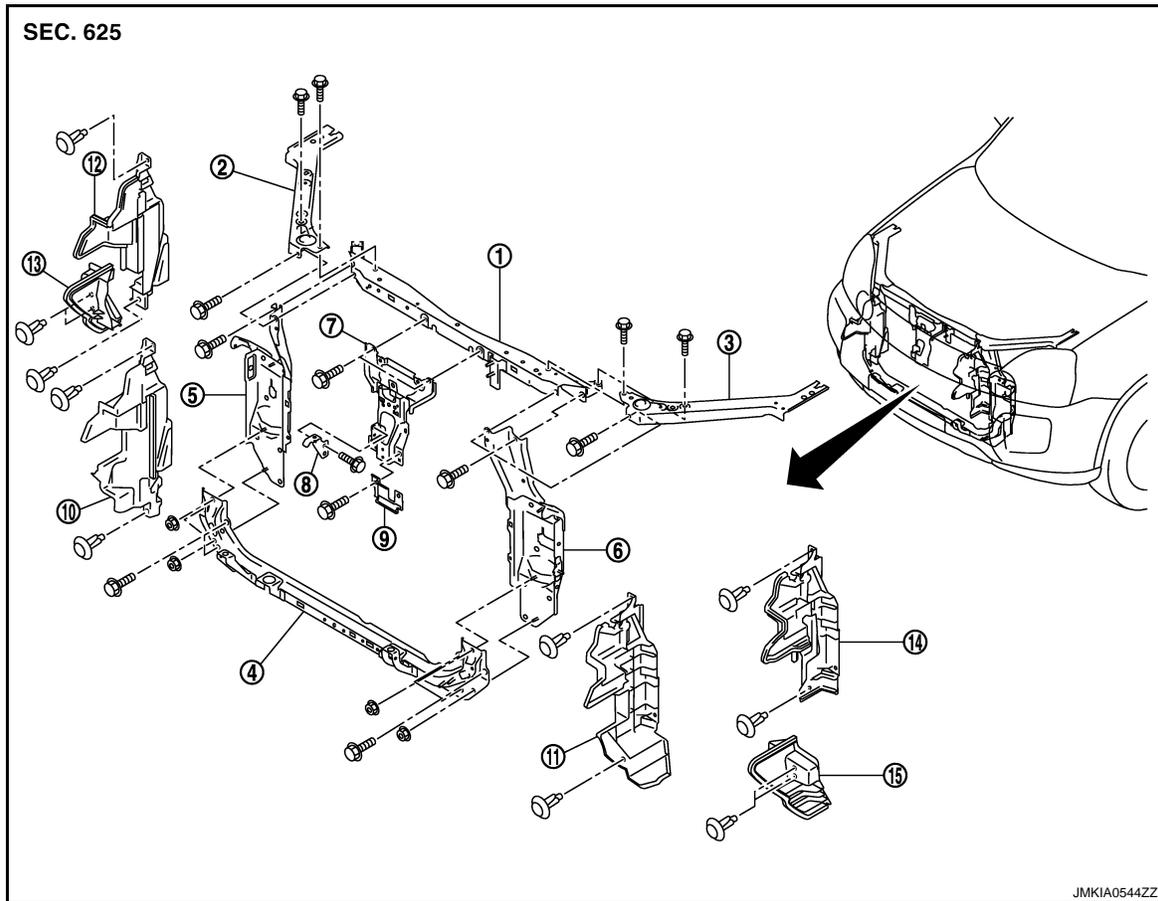
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

RADIATOR CORE SUPPORT

Exploded View

INFOID:000000001280632



- | | | |
|---------------------------------------|---------------------------------------|------------------------------------|
| 1. Radiator core support upper center | 2. Radiator core support upper RH | 3. Radiator core support upper LH |
| 4. Radiator core support lower | 5. Radiator core support side RH | 6. Radiator core support side LH |
| 7. Hood lock support stay assembly | 8. Front bumper fascia center bracket | 9. Sensor bracket |
| 10. Air guide RH | 11. Air guide LH | 12. Air guide upper RH (M9R model) |
| 13. Air guide lower RH (M9R model) | 14. Air guide upper LH (M9R model) | 15. Air guide lower LH (M9R model) |

Removal and Installation

INFOID:000000001280633

REMOVAL

1. Remove the front bumper fascia and the energy absorber. Refer to [EXT-13, "Removal and Installation"](#).
2. Remove the bumper reinforcement. Refer to [EXT-13, "Removal and Installation"](#).
3. Disconnect the liquid tank connector. Refer to [HA-66, "Exploded View"](#).
4. Remove the front combination lamp. Refer to [EXL-213, "Removal and Installation"](#) (XENON TYPE), [EXL-409, "Removal and Installation"](#) (HALOGEN TYPE).
5. Remove the washer tank. Refer to [WW-104, "Removal and Installation"](#).
6. Remove the air inlet hose (LH) and air inlet tube (LH). Refer to [EM-266, "Exploded View"](#) (M9R model).
7. Remove the charge air cooler. Refer to [EM-266, "Removal and Installation"](#) (M9R model).
8. Disconnect the hood lock control cable clamp, and then remove the hood lock assembly. Refer to [DLK-254, "HOOD LOCK CONTROL : Removal and Installation"](#).
9. Remove the air guide mounting clips, and remove the air guide (LH/RH).
10. Remove the horn. Refer to [HRN-6, "Removal and Installation"](#).

DLK-256

RADIATOR CORE SUPPORT

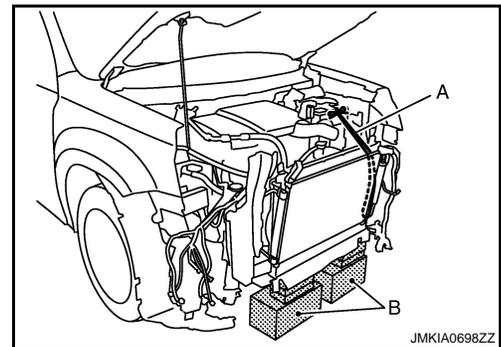
[WITH I-KEY, WITHOUT SUPER LOCK]

< ON-VEHICLE REPAIR >

11. Remove the Intelligent Key warning buzzer (with Intelligent Key systems). Refer to [DLK-298, "Removal and Installation"](#).
 12. Disconnect the harness clips from the hood lock stay.
 13. Remove the hood lock stay mounting bolts, and then remove the hood lock stay.
 14. Remove the crush zone sensor. Refer to [SR-15, "Removal and Installation"](#).
 15. Place securely the hood support rod inside the engine mounting bracket hole.
- CAUTION:**
Check that the hood is securely fix.
16. Remove the radiator core support upper side (RH,LH) mounting bolts, and remove the radiator core support side (RH,LH).
 17. Remove the radiator core support upper center mounting bolts, and remove the radiator core support upper center.
 18. Disconnect the harness clamp from radiator core support side (LH).
 19. Remove the radiator core support lower assembly mounting bolts.
 20. Remove the radiator core support lower assembly while other worker is holding the radiator and condenser assembly to prevent the radiator and condenser from falling.

- CAUTION:**
Operate with two workers, because of its heavy weight.
21. Put some wooden blocks (B) under the radiator and condenser, and use a rope (A) to suspend it to prevent it from falling.

CAUTION:
Operate with two workers, because of its heavy weight.



22. Remove the radiator core support side (RH,LH) mounting nuts, and remove the radiator core support side (RH,LH) from radiator core support lower.

INSTALLATION

Install in the reverse order of removal.

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DLK

FRONT FENDER

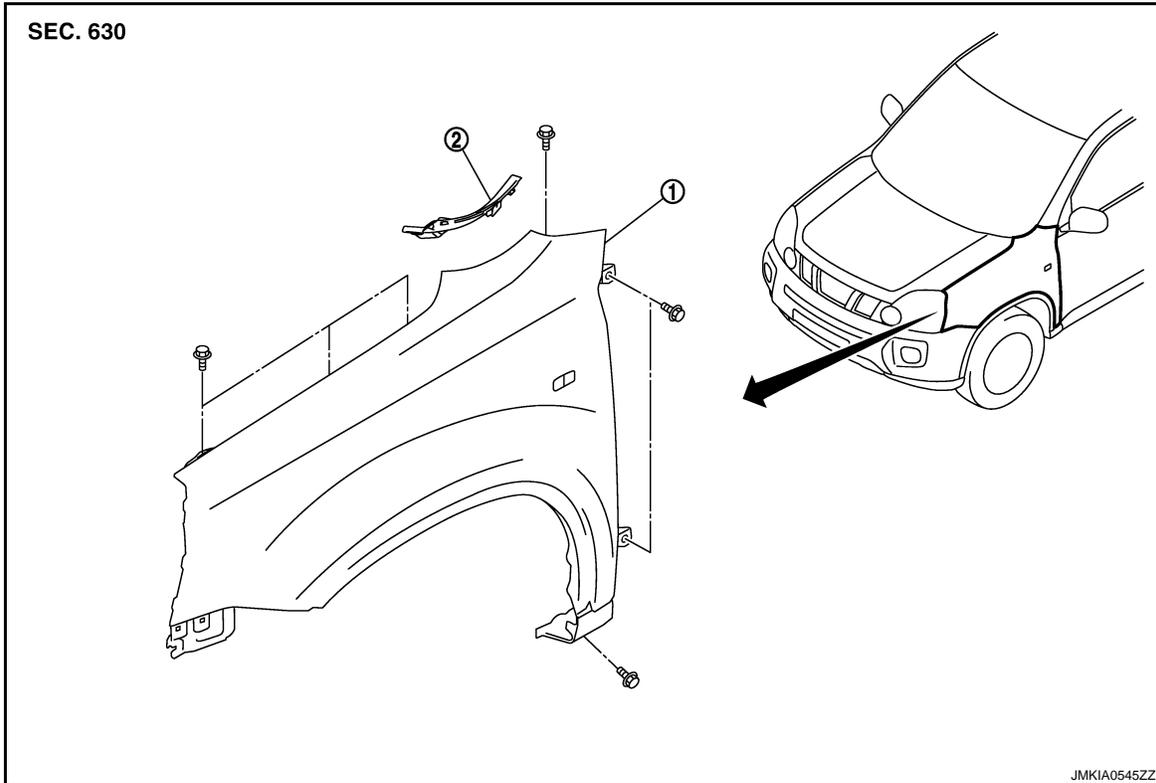
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

FRONT FENDER

Exploded View

INFOID:000000001280634



1. Front fender

2. Front fender finisher

Removal and Installation

INFOID:000000001280635

REMOVAL

1. Remove the fillet molding. Refer to [EXT-24, "Removal and Installation"](#).
2. Remove the front grille. Refer to [EXT-18, "Removal and Installation"](#).
3. Remove the front bumper fascia. Refer to [EXT-13, "Removal and Installation"](#).
4. Remove the front combination lamp. Refer to [EXL-213, "Removal and Installation"](#) (XENON TYPE), [EXL-409, "Removal and Installation"](#) (HALOGEN TYPE).
5. Remove the inner fender protector. Refer to [EXT-21, "Removal and Installation"](#).
6. Remove the front fender finisher.
7. Remove the side turn signal lamp. Refer to [EXL-222, "Removal and Installation"](#).
8. Remove the mounting bolts and remove the front fender.

CAUTION:

Use a shop cloth to protect the body from being damaged during removal.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- After installation, check the front fender adjustment. Refer to [DLK-251, "HOOD ASSEMBLY : Adjustment"](#) and [DLK-261, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply the touch-up paint (the body color) onto the head of the front fender mounting bolts.

FRONT DOOR

< ON-VEHICLE REPAIR >

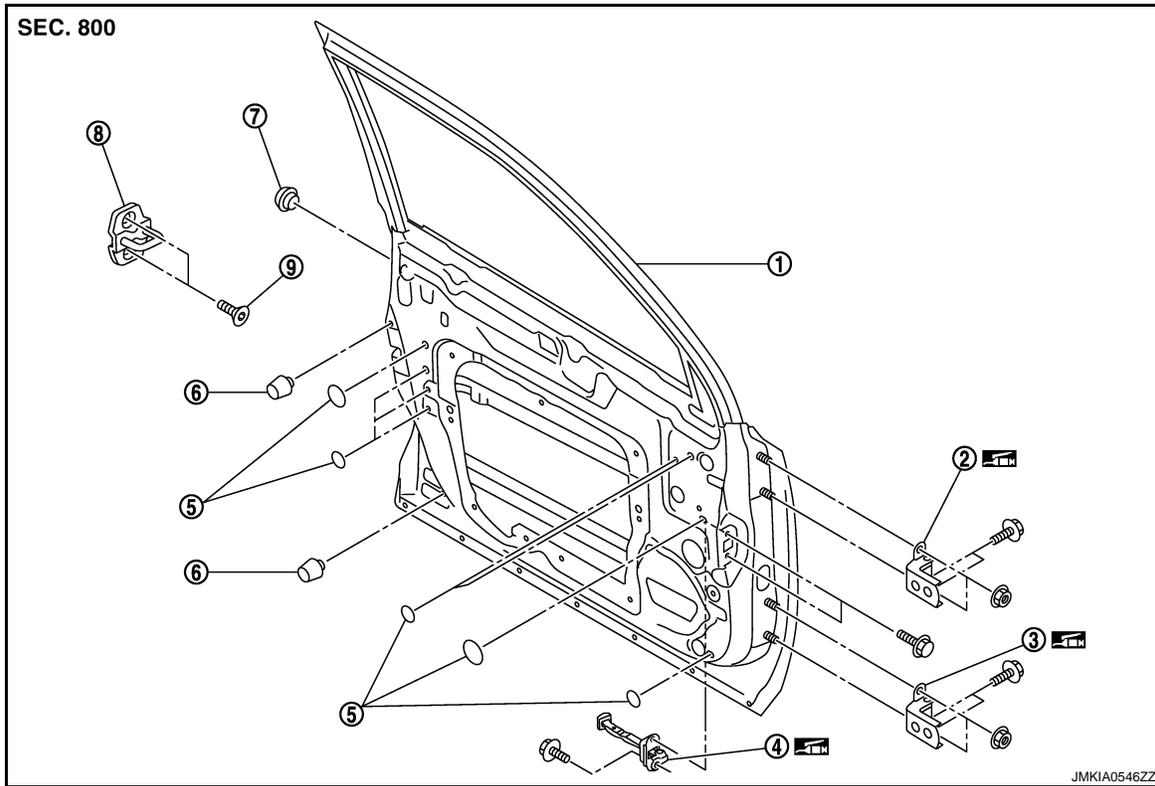
[WITH I-KEY, WITHOUT SUPER LOCK]

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001280636

REMOVAL



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

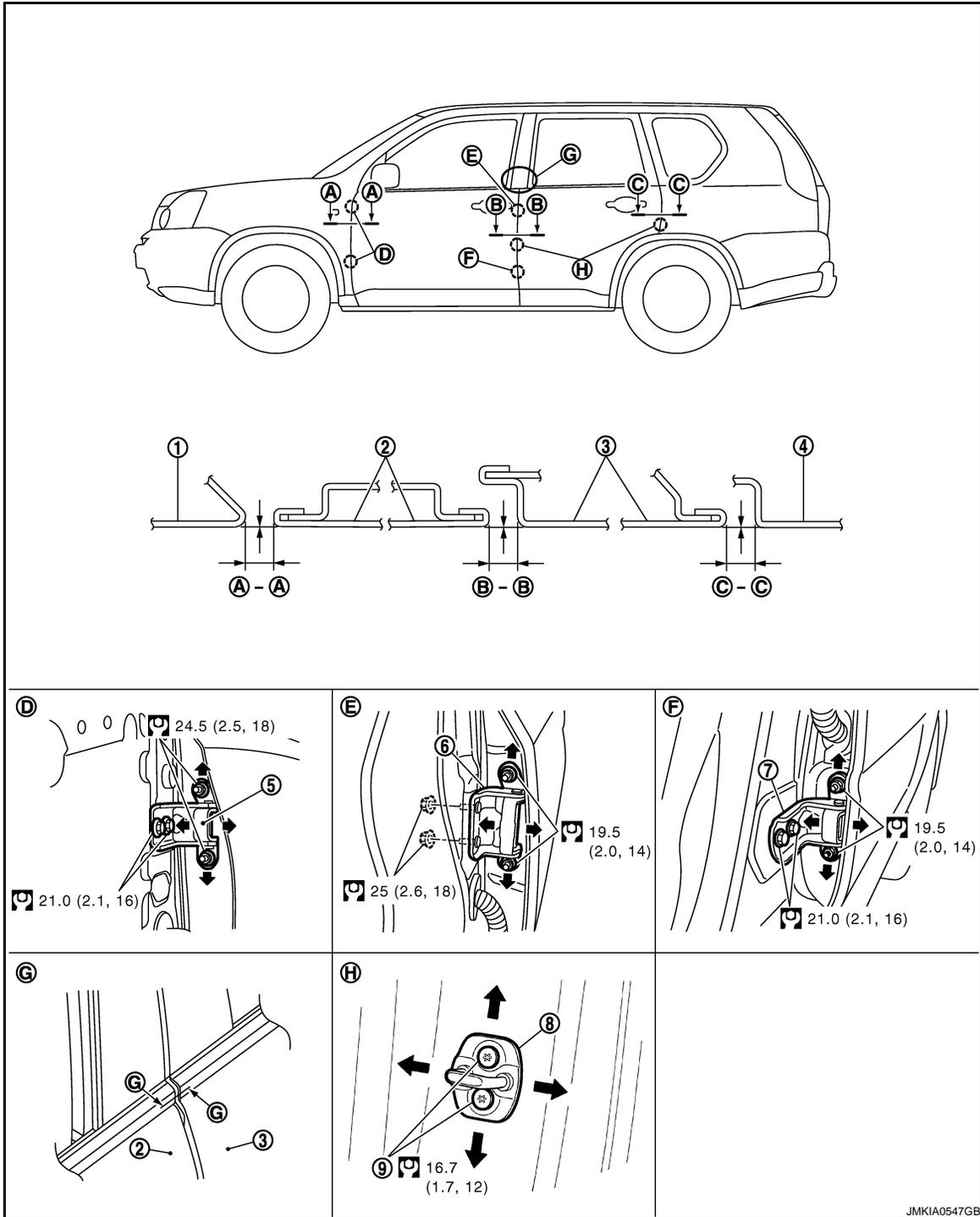
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DLK

FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]



JMKIA0547GB

- | | | |
|----------------------------|---------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Front door hinge | 6. Rear door hinge (upper) |
| 7. Rear door hinge (lower) | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001280637

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.

FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

REMOVAL

1. Remove the mounting bolts of the door check link on the vehicle.
2. Remove the front door harness grommet, and then pull out the harness from the vehicle.
3. Disconnect the front door harness connector.
4. Remove the door hinge mounting nuts (door side), and then remove the door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the front door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-261, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.

DOOR ASSEMBLY : Adjustment

INFOID:000000001280638

CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

mm(in)

Portion		Clearance	Surface height
Front fender – Front door	A – A	3.4 – 5.4 (0.134 – 0.213)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	B – B	3.5 – 5.5 (0.138 – 0.217)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	G – G	3.0 – 6.0 (0.118 – 0.236)	- 1.0 – 1.0 (- 0.039 – 0.039)

1. Check the clearance and surface height and surface mismatch between the front door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the front fender. Refer to refer to [DLK-258, "Removal and Installation"](#).
4. Loosen the door hinge mounting nuts on door side.
5. Adjust the surface height and surface mismatch of the front door according to the fitting standard dimension.
6. Temporarily tighten the hinge mounting nuts on door side.
7. Loosen the door hinge mounting bolts on body side.
8. Raise the front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
9. After adjustment tighten bolts and nuts to the specified torque.
10. Install the front fender. Refer to refer to [DLK-258, "Removal and Installation"](#).

CAUTION:

After installation, check the front fender adjustment. Refer to [DLK-261, "DOOR ASSEMBLY : Adjustment"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.

DOOR STRIKER

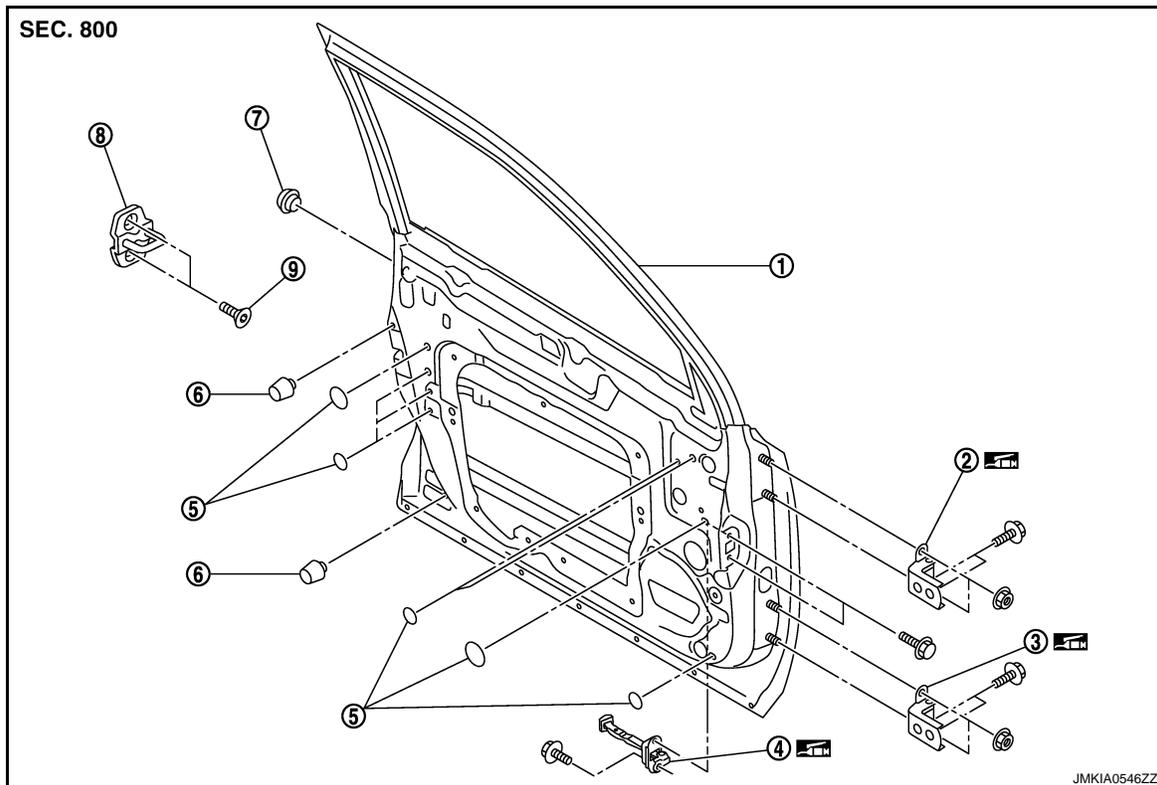
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001280639



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001280640

REMOVAL

Remove the TORX bolts, and then remove the door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the front door open/close operation after installation.
- When removing and installing the door striker, be sure to perform the fitting adjustment. Refer to [DLK-261, "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

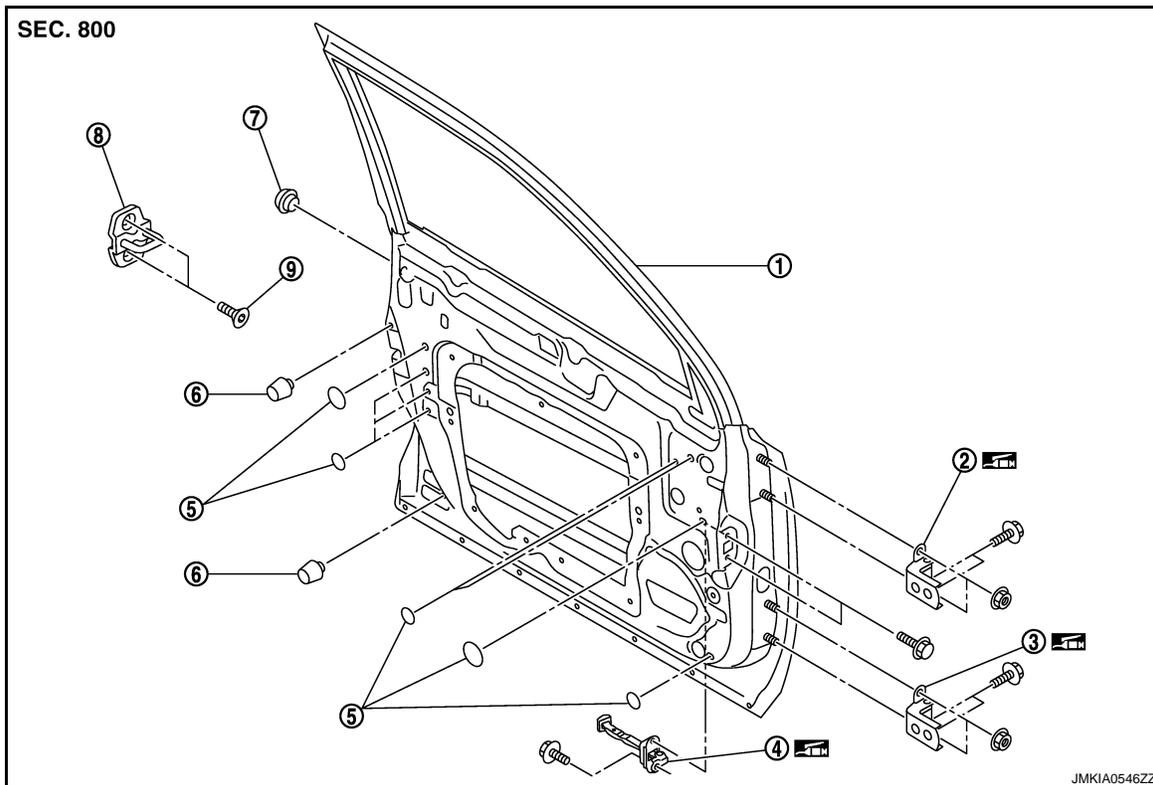
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001298151



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001280642

DLK

REMOVAL

1. Remove the front door assembly. Refer to [DLK-260. "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove the door hinge mounting bolts, and then remove the front door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the front door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-261. "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.

DOOR CHECK LINK

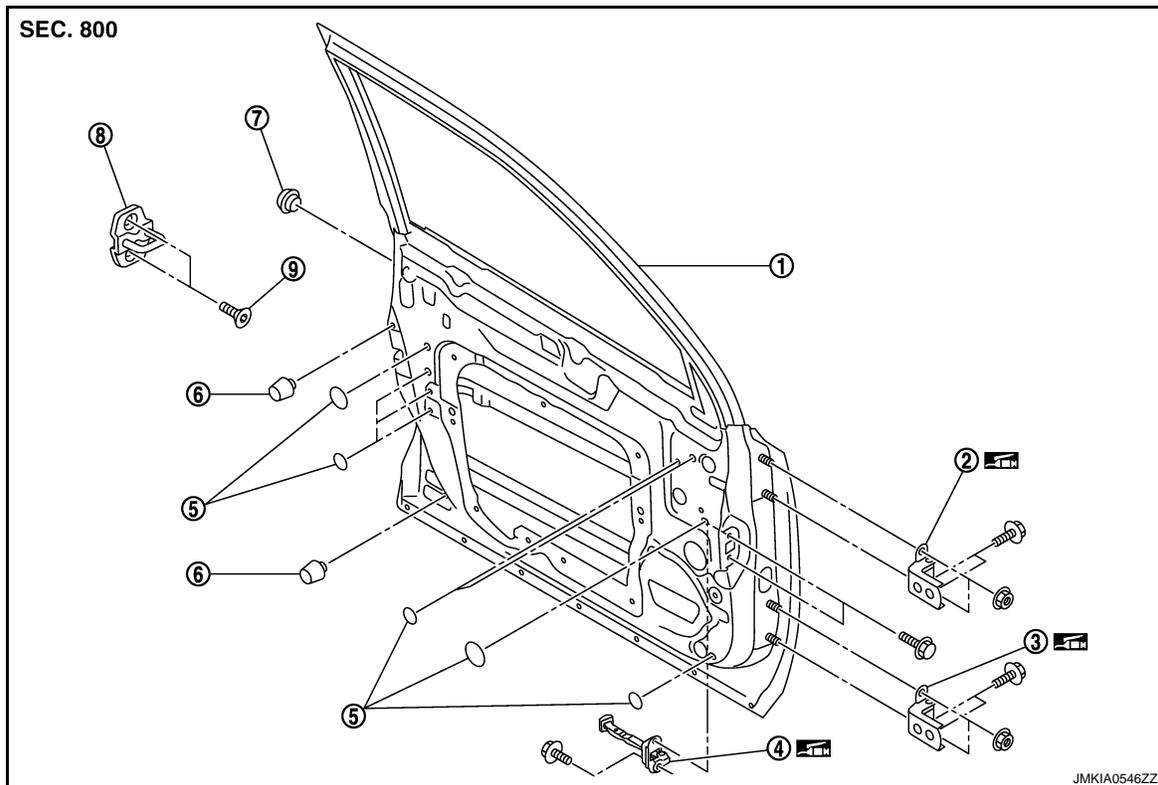
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001298152



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001280644

REMOVAL

1. Fully close the front door window.
2. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
3. Remove the front door speaker. Refer to [AV-38, "Removal and Installation"](#).
4. Remove the mounting bolts of the door check link on the vehicle.
5. Remove the mounting bolts of the door check link on the door panel.
6. Take the door check link out from the hole of the door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the front door open/close operation after installation.

REAR DOOR

< ON-VEHICLE REPAIR >

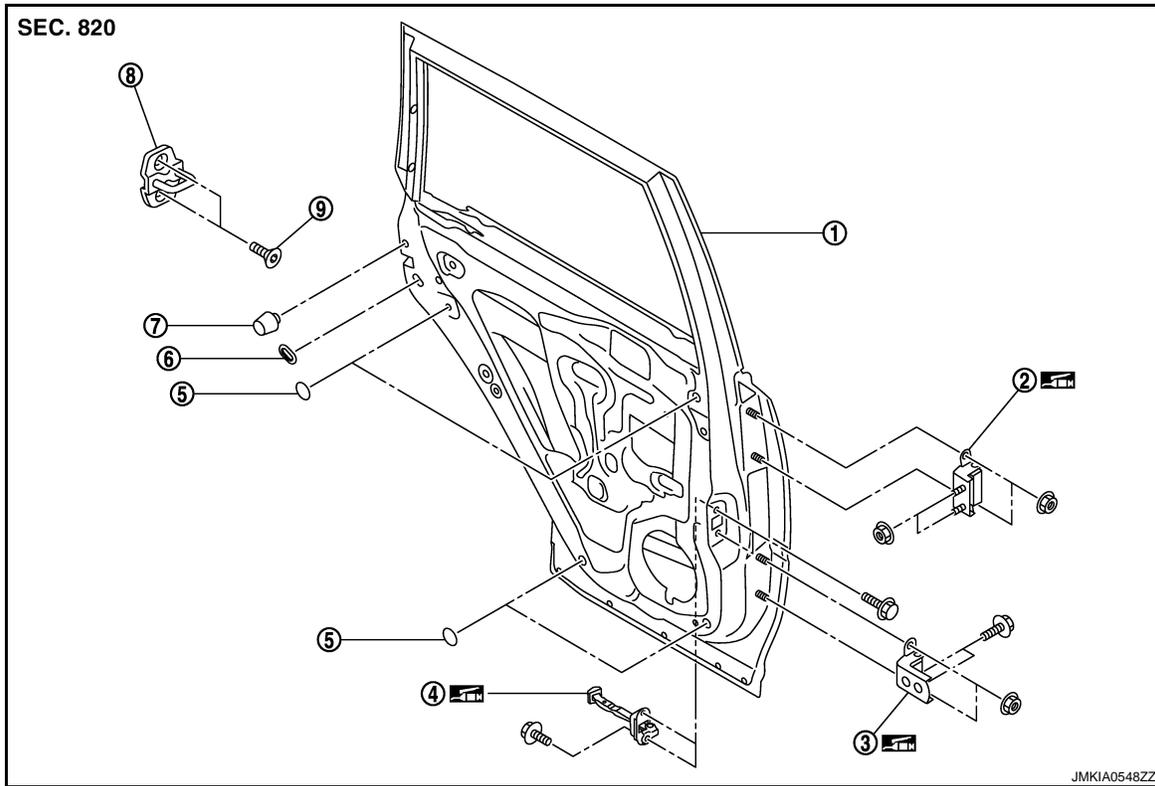
[WITH I-KEY, WITHOUT SUPER LOCK]

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001280645

REMOVAL



- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

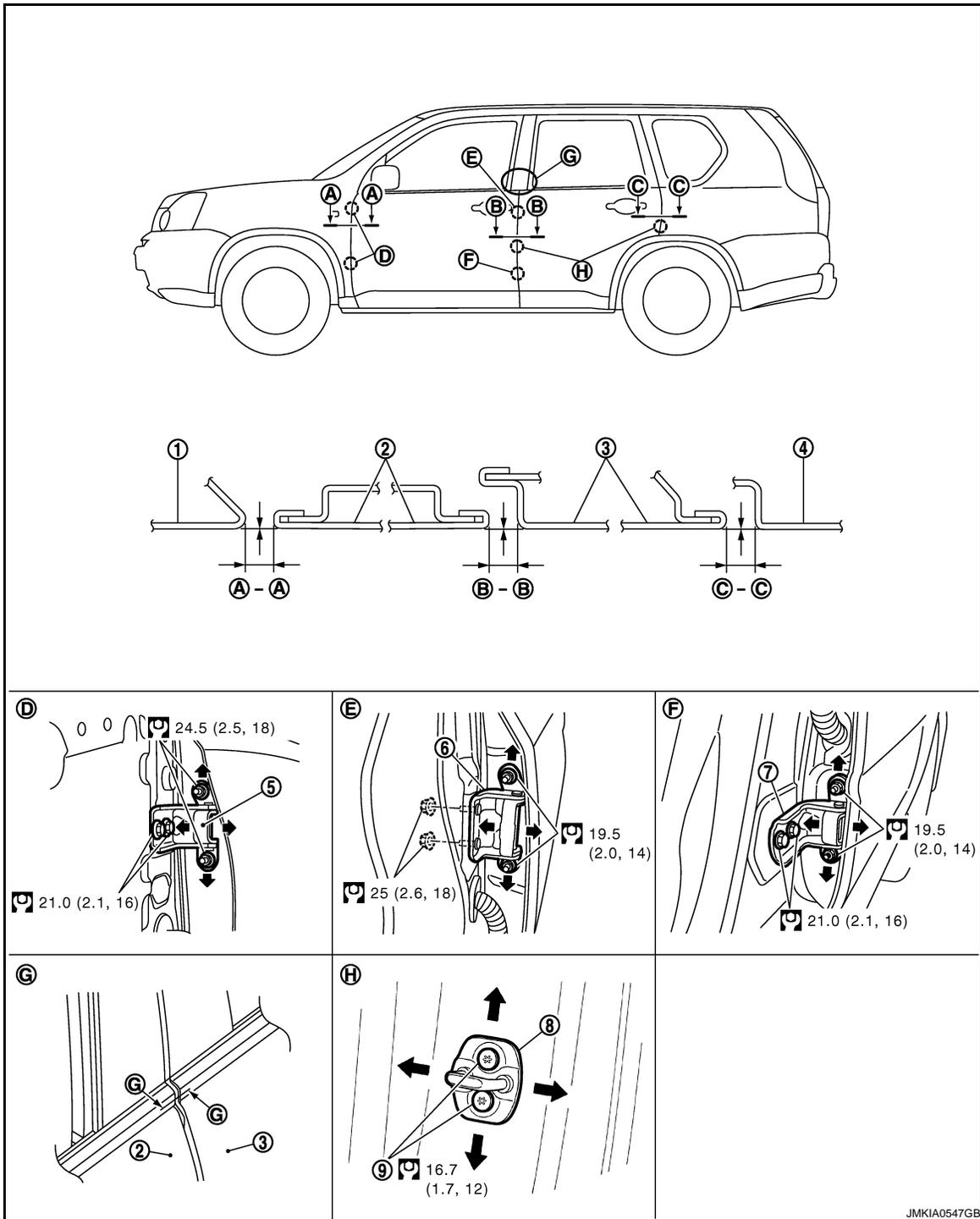
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DLK

REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]



- | | | |
|----------------------------|---------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Front door hinge | 6. Rear door hinge (upper) |
| 7. Rear door hinge (lower) | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001280646

CAUTION:

- Perform work with 2 workers, because of it's heavy weight.
- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.

REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

REMOVAL

1. Remove the mounting bolts of the door check link on the vehicle.
2. Remove the rear door harness grommet, and then pull out the door harness from the vehicle.
3. Disconnect the rear door harness connector.
4. Remove the door hinge mounting nuts (door side), and then remove the rear door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the rear door lock/unlock operation after installation.
- Check the rear door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to [DLK-267, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.

DOOR ASSEMBLY : Adjustment

INFOID:000000001280647

CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

Portion		Clearance	Surface height
Front door – Rear door	B – B	3.5 – 5.5 (0.138 – 0.217)	-1.0 – 1.0 (-0.039 – 0.039)
Rear door – Body side outer	C – C	3.5 – 5.5 (0.138 – 0.217)	-1.0 – 1.0 (-0.039 – 0.039)
Front door – Rear door	G – G	3.0 – 6.0 (0.118 – 0.236)	-1.5 – 1.5 (-0.059 – 0.059)

1. Check the clearance and surface height and surface mismatch between the rear door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the center pillar lower garnish. Refer to [INT-16, "Removal and Installation"](#).
4. Loosen the door hinge mounting nuts on door side.
5. Adjust the surface height and surface mismatch of the rear door according to the fitting standard dimension.
6. Temporarily tighten the hinge mounting nuts on door side.
7. Loosen the door hinge mounting nuts and bolts on body side.
8. Raise the rear door at rear end to adjust clearance of the rear door according to the fitting standard dimension.
9. After adjustment tighten bolts and nuts to the specified torque.
10. Install the center pillar lower garnish. Refer to [INT-16, "Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.

DOOR STRIKER

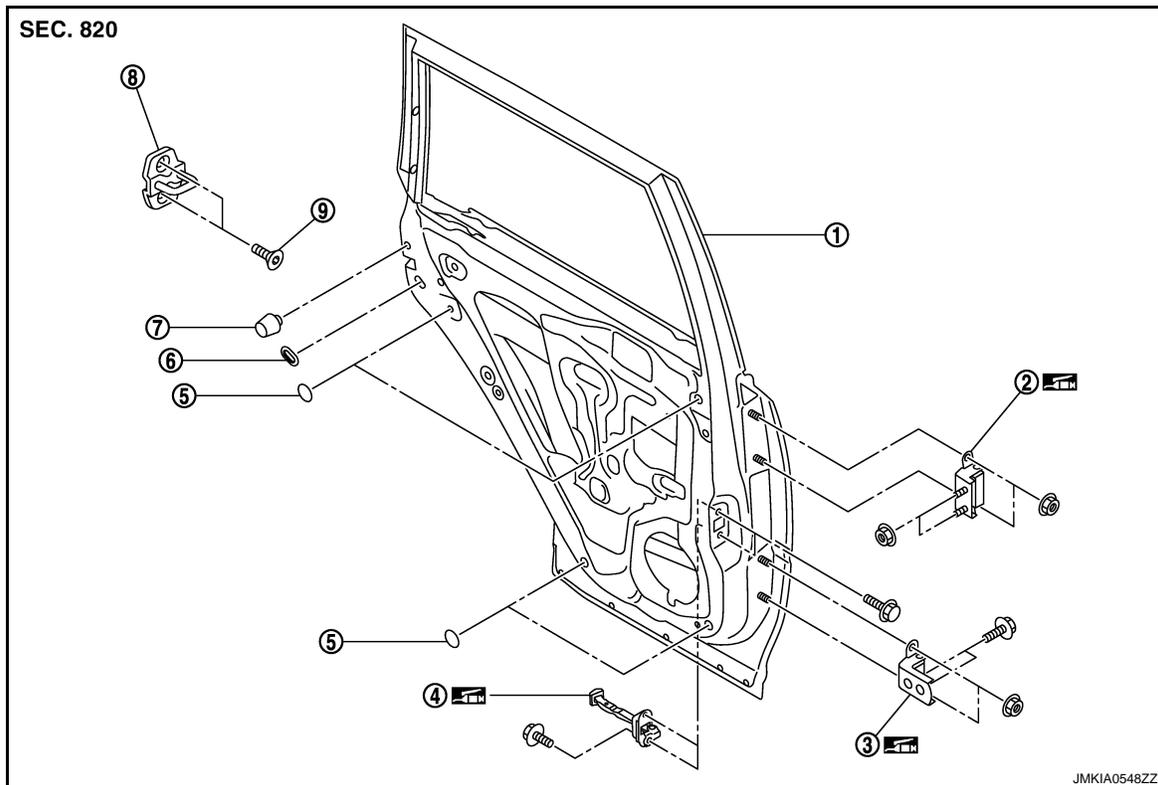
REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001280648



- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001280649

REMOVAL

Remove the TORX bolts, and then remove the door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the rear door open/close operation after installation.
- When removing and installing the door striker, be sure to perform the fitting adjustment. Refer to [DLK-267. "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

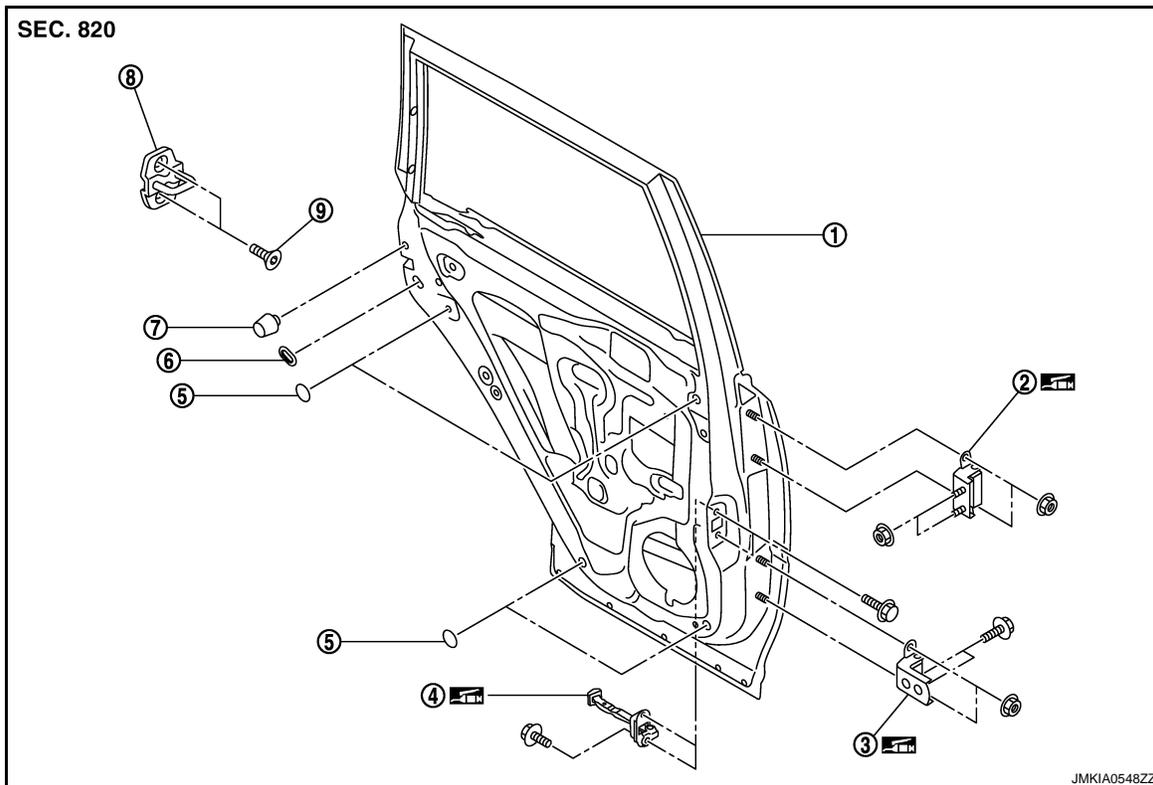
REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001298153



- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001280651

REMOVAL

1. Remove the center pillar lower garnish. Refer to [INT-16. "Removal and Installation"](#).
2. Remove the rear door assembly. Refer to [DLK-266. "DOOR ASSEMBLY : Removal and Installation"](#).
3. Remove the rear door hinge mounting bolts and nuts (body side), and then remove the door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the rear door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the rear door assembly, perform the fitting adjustment. Refer to [DLK-267. "DOOR ASSEMBLY : Adjustment"](#).
- After installing, apply the touch-up paint (the body color) onto the head of the hinge mounting nuts.

DOOR CHECK LINK

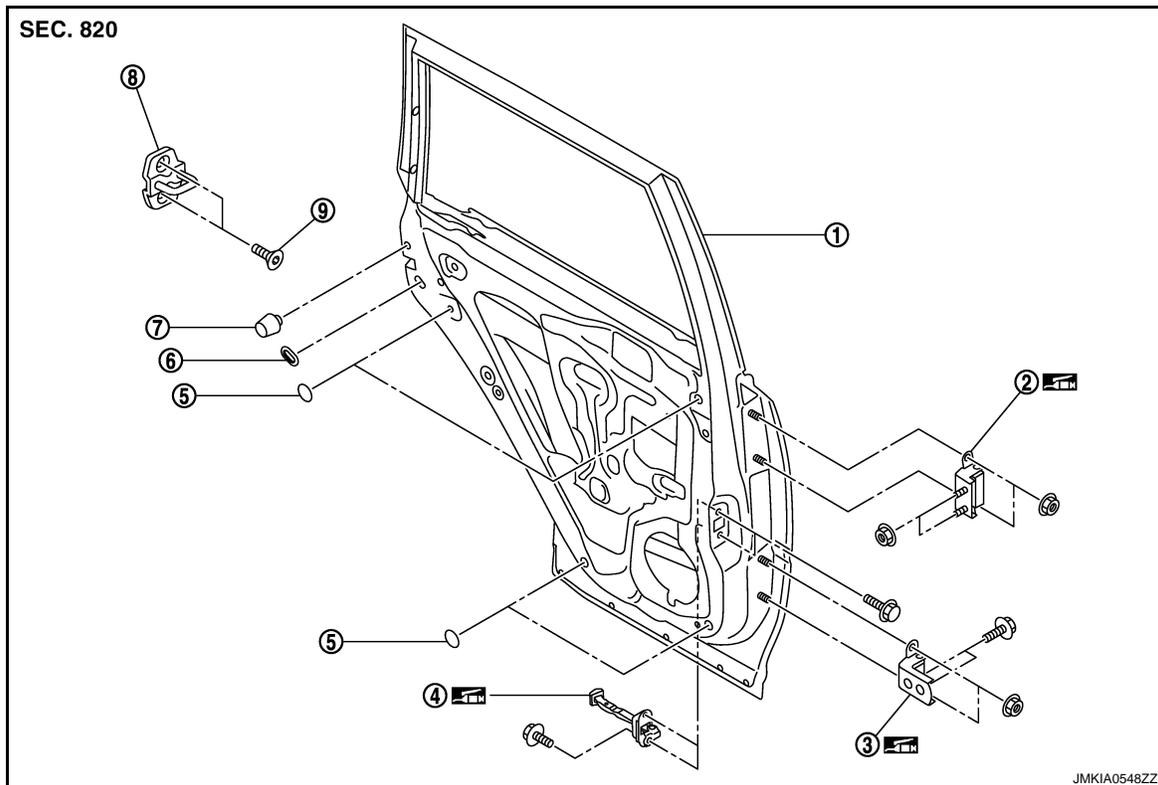
REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001298154



- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001280653

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove the rear door speaker.
3. Remove the mounting bolts of the check link on the vehicle.
4. Remove the door check link mounting bolts on the door panel.
5. Remove the door check link.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check front door open/close operation after installation.

BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

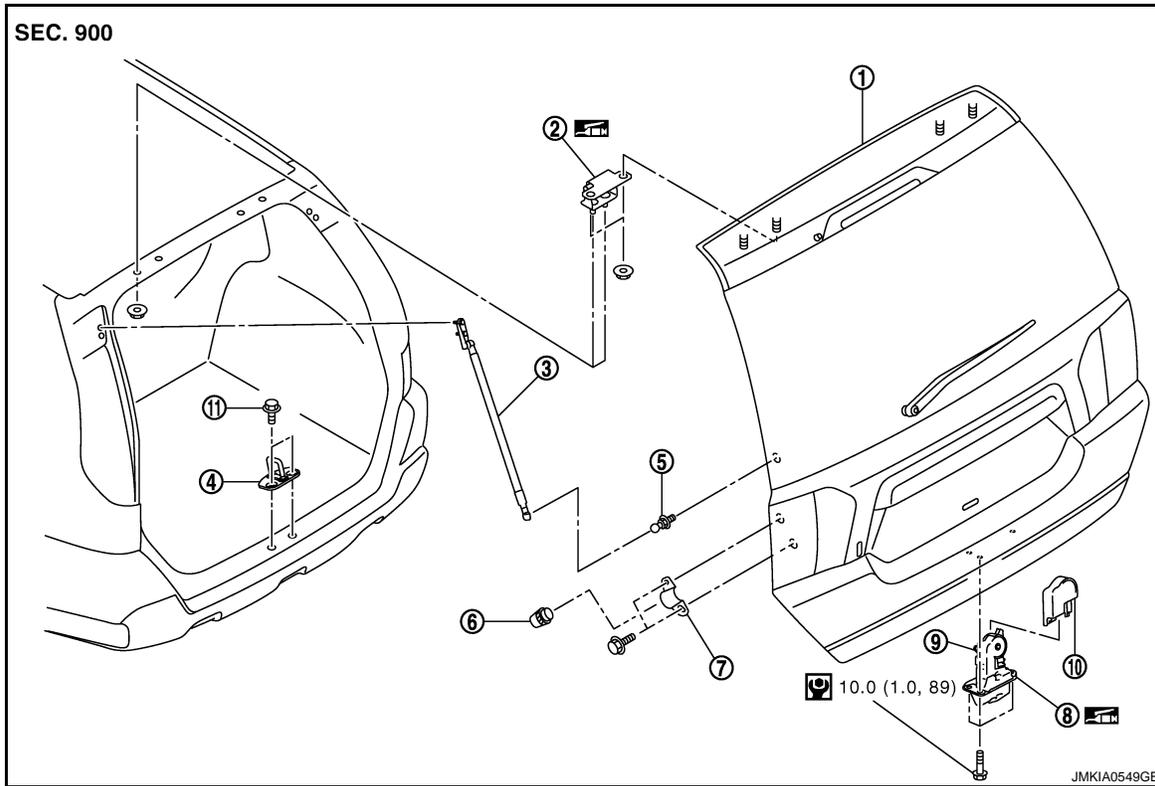
BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:000000001280654

REMOVAL



- | | | |
|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

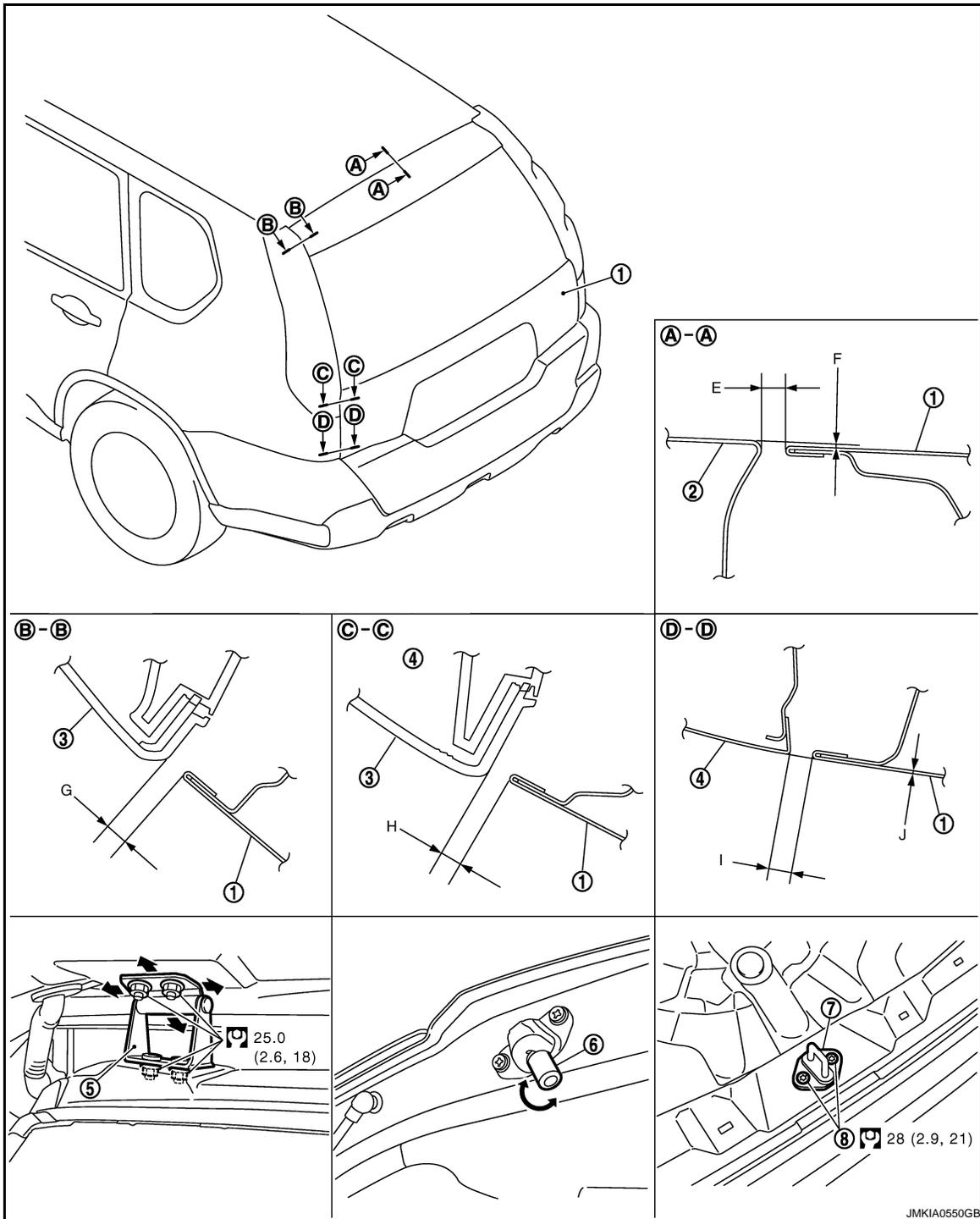
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DLK

BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]



- | | | |
|----------------------|--------------------|--------------------------|
| 1. Back door | 2. Roof | 3. Rear combination lamp |
| 4. Body side outer | 5. Back door hinge | 6. Bumper rubber |
| 7. Back door striker | 8. TORX bolt | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000001280655

REMOVAL

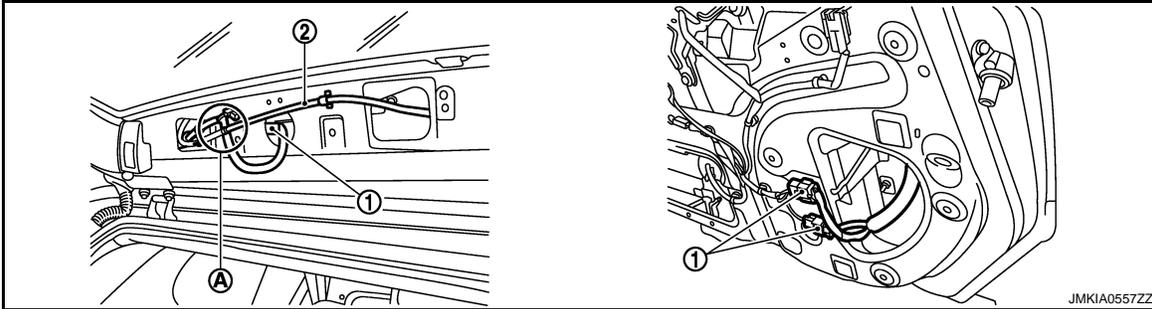
1. Remove the back door finisher inner (upper, lower, side LH). Refer to [INT-31, "Removal and Installation"](#).
2. Disconnect the connectors in the back door, and then remove the grommet, and pull out the harness.

BACK DOOR

< ON-VEHICLE REPAIR >

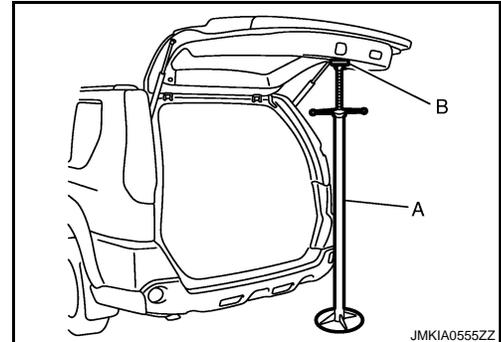
[WITH I-KEY, WITHOUT SUPER LOCK]

- Remove the grommet, and then disconnect the connectors (1), and pull out the washer tube (2) at (A).



- Pull the harness out of the back door.
- Support the back door lock with the proper material to prevent it from falling.

- A : Jack
- B : Shop cloth



- Remove the back door stay bracket mounting bolts on the back door.
- Remove the back door hinge mounting nuts on the back door and remove the back door assembly.

CAUTION:

Perform work with 2 workers, because of its heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the back door open/close operation after installation.
- Check the back door lock/unlock operation after installation.
- After installation, perform fitting adjustment. Refer to [DLK-273, "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR ASSEMBLY : Adjustment

INFOID:000000001280656

				mm(in)
Portion				Standard
Back door panel – Roof panel	A – A	E	Clearance	5.0 – 7.0 (0.197 – 0.276)
		F	Surface height	-0.3 – 1.7 (-0.012 – 0.067)
Back door panel – Rear combination lamp	B – B	G	Clearance	4.0 – 8.0 (0.157 – 0.315)
Back door panel – Rear combination lamp	C – C	H	Clearance	4.0 – 8.0 (0.157 – 0.315)
Back door panel – Body side outer	D – D	I	Clearance	5.0 – 7.0 (0.197 – 0.276)
		J	Surface height	-1.0 – 1.1 (0.039 – 0.043)

FITTING ADJUSTMENT

- Check the clearance and the evenness between the back door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
- In case any parts are out of specification, adjust them according to the procedures shown below.
- Loosen the bumper rubber.
- Loosen the back door striker mounting bolts.

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DLK

BACK DOOR

< ON-VEHICLE REPAIR >

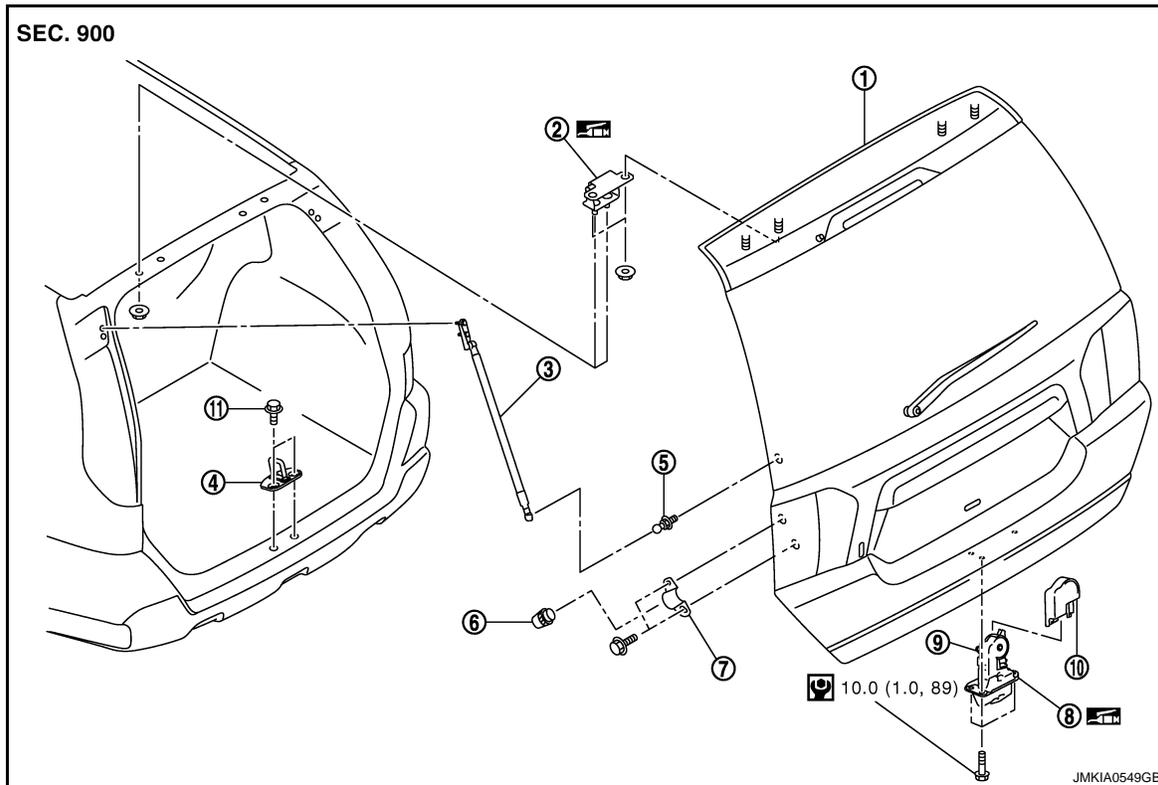
[WITH I-KEY, WITHOUT SUPER LOCK]

5. Lift up the back door approximately 100 – 150 mm (3.937 – 5.906 in) height then close it lightly and check that it is engaged firmly with the back door closed.
6. Check the clearance and evenness.
7. Finally tighten the back door striker.

BACK DOOR STRIKER

BACK DOOR STRIKER : Exploded View

INFOID:000000001280657



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|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STRIKER : Removal and Installation

INFOID:000000001280658

REMOVAL

Remove the TORX bolts, and then remove the back door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the back door open/close operation after installation.
- When removing and installing the back door striker, be sure to perform the fitting adjustment. Refer to [DLK-273. "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR HINGE

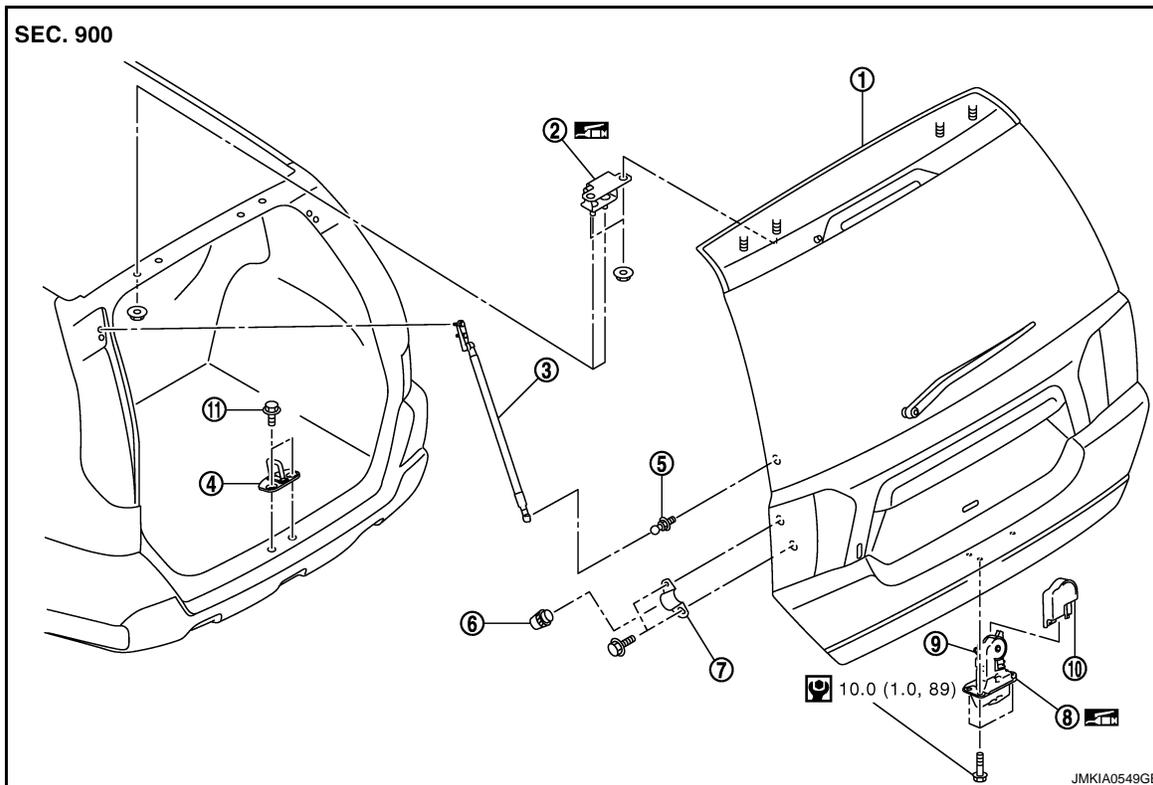
BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR HINGE : Exploded View

INFOID:000000001298155



- | | | |
|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR HINGE : Removal and Installation

INFOID:000000001280660

REMOVAL

1. Remove the back door assembly. Refer to [DLK-272. "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove the back door weather-strip. Refer to [DLK-277. "BACK DOOR WEATHER-STRIP : Removal and Installation"](#).
3. Remove the luggage side lower finisher. Refer to [INT-28. "Removal and Installation"](#).
4. Remove the luggage side upper finisher. Refer to [INT-28. "Removal and Installation"](#).
5. Using remover tool, remove the headlining clip at the rear side of the headlining. Refer to [INT-22. "NORMAL ROOF : Exploded View"](#) (NORMAL ROOF), [INT-25. "SUNROOF : Exploded View"](#) (SUNROOF).
6. Remove the rear side of the headlining.
7. Remove the back door hinge mounting nuts (body side), and then remove the back door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the back door open/close operation after installation.
- Check the hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the back door assembly, perform the fitting adjustment. Refer to [DLK-273. "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting nuts.

BACK DOOR

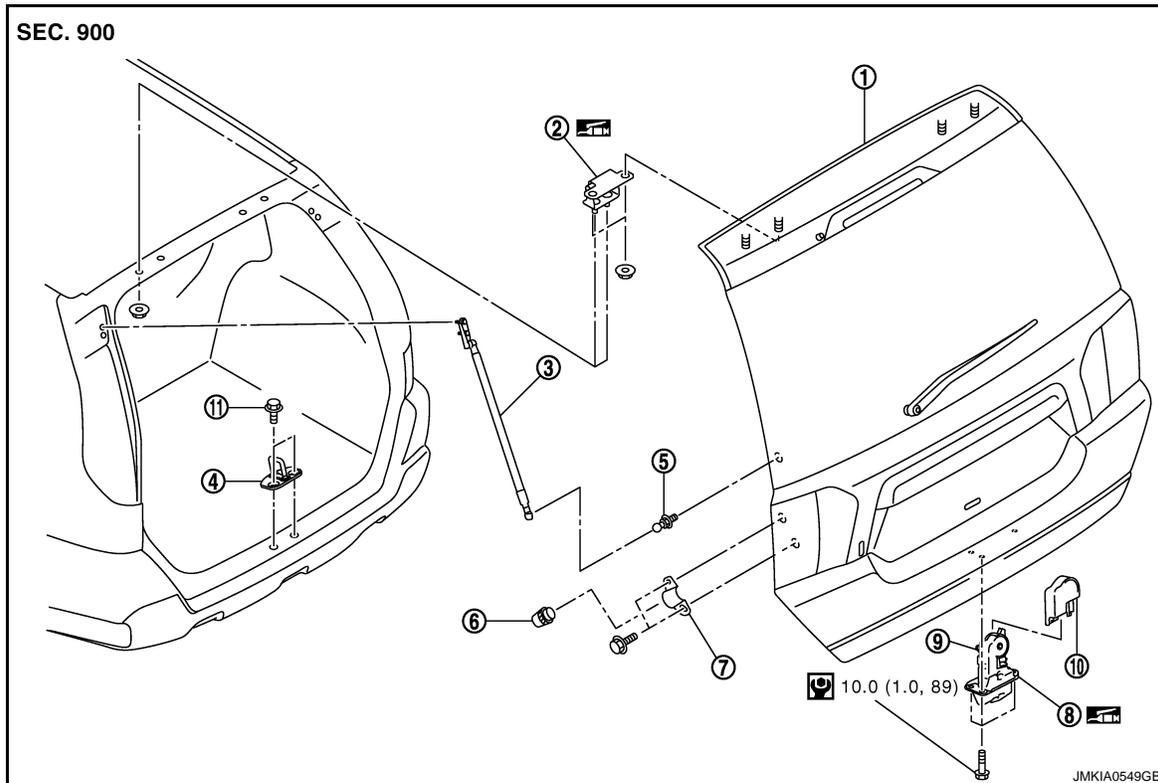
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:000000001298156



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|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STAY : Removal and Installation

INFOID:000000001280662

REMOVAL

1. Remove the mounting bolts (body side), and then remove the back door stay bracket.
2. Remove the stud ball (back door side), and then remove the back door stay.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the back door open/close operation after installation.

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Exploded View

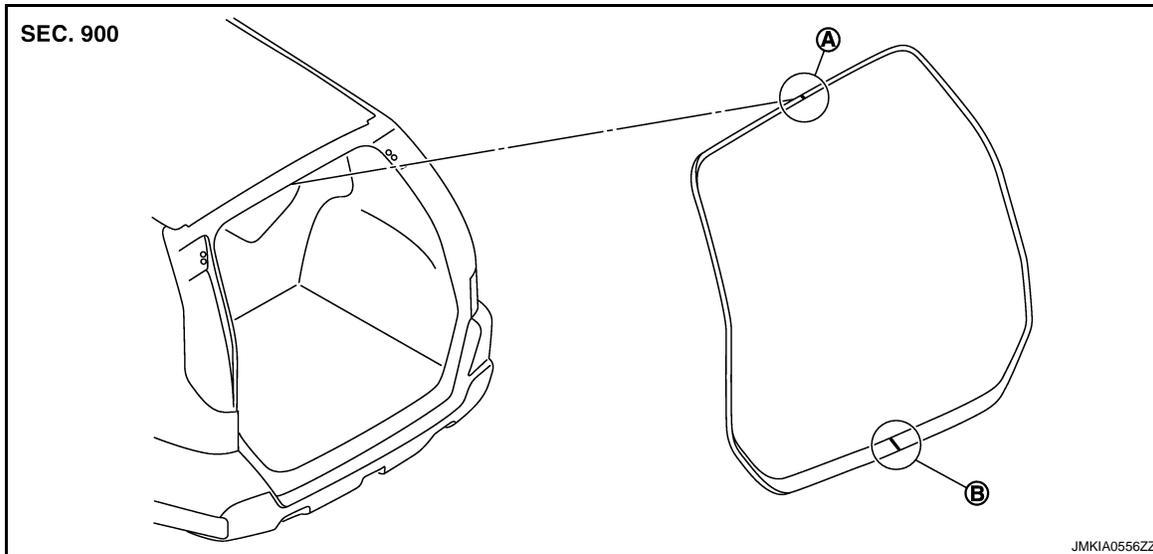
INFOID:000000001280663

REMOVAL

BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]



1. Back door weather-strip
- A. Mark (upper)
- B. Mark (lower)

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000001280664

REMOVAL

Pull up and remove engagement with body from the weather-strip joint.

CAUTION:

After removal, do not pull strongly on the weather-strip.

INSTALLATION

1. Working from the upper section, align the weather-strip mark with vehicle center position mark and install the weather-strip onto the vehicle.
2. For the lower section, align the weather-strip seam with center of the back door striker.
3. After installation, pull the weather-strip gently to ensure that there is no loose section.

NOTE:

Make sure that the weather-strip is fit tightly at each corner and the luggage rear plate.

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DLK

FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

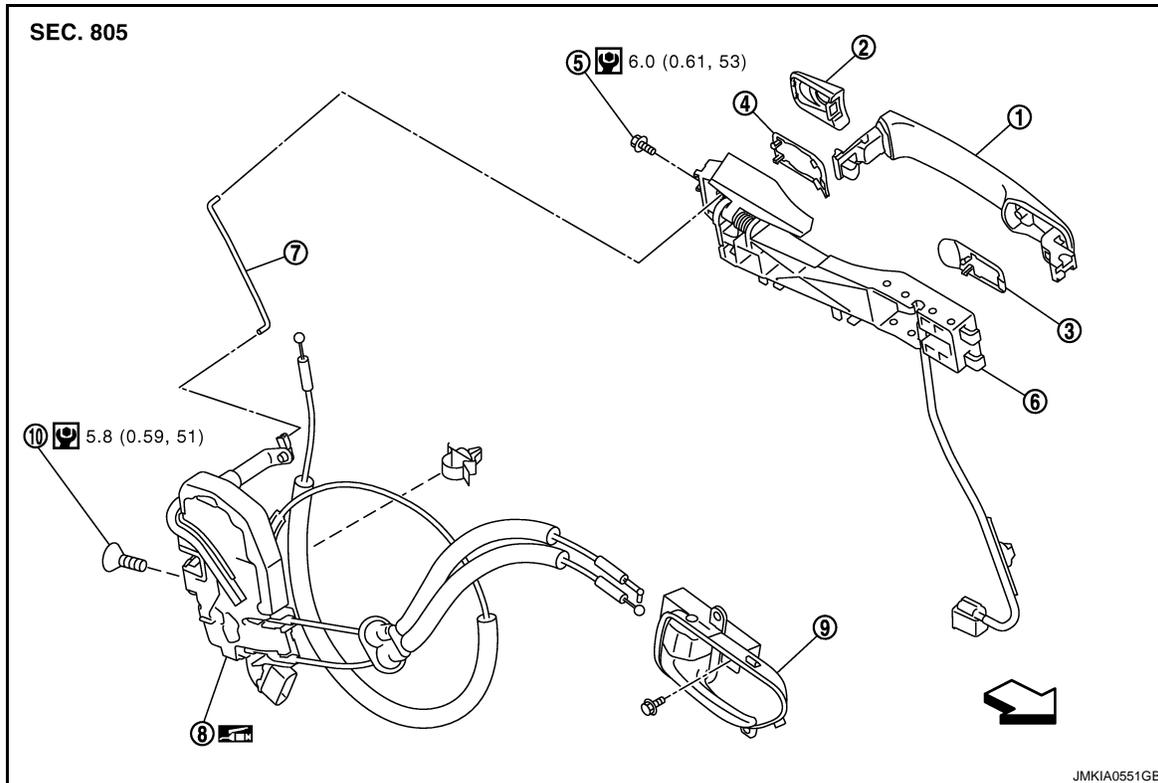
[WITH I-KEY, WITHOUT SUPER LOCK]

FRONT DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001280665



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|----------------------------|---|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder assembly (driver side) | 3. Front gasket |
| | Outside handle escutcheon (passenger side) | |
| 4. Rear gasket | 5. TORX bolt | 6. Outside handle bracket |
| 7. Key rod | 8. Door lock assembly | 9. Inside handle |
| 10. TORX bolt | | |

← :Vehicle front

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001280666

REMOVAL

1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable and the lock knob cable.
3. Remove the front door glass. Refer to [GW-17. "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-17. "Exploded View"](#).
5. Disconnect the door antenna and the door request switch connector and remove the harness clamp (models with Intelligent Key system).

FRONT DOOR LOCK

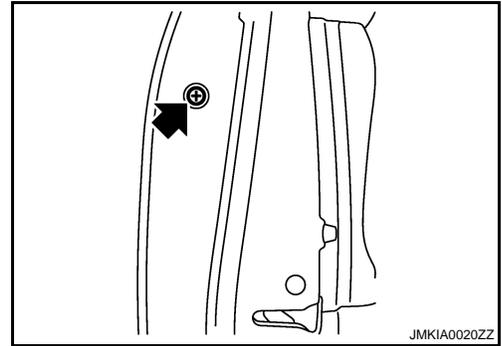
[WITH I-KEY, WITHOUT SUPER LOCK]

< ON-VEHICLE REPAIR >

6. Remove the door side grommet, and loosen the TORX bolt.

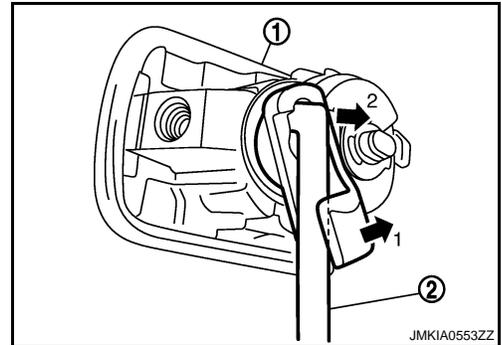
CAUTION:

Do not forcibly remove the TORX bolt.

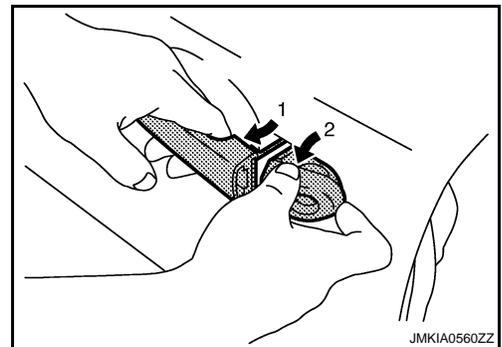


7. Reach in to separate the door key cylinder rod connection (on the handle) (driver side).

1. Door key cylinder assembly
2. Key rod

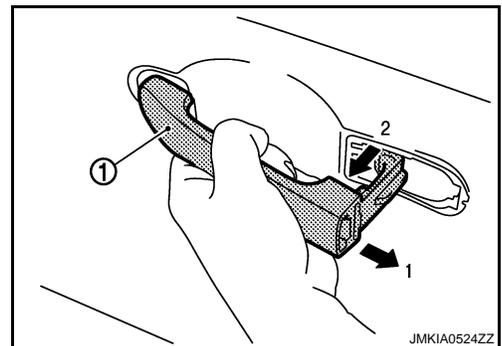


8. While pulling the outside handle, remove door key cylinder assembly.



9. Disconnect front door request switch harness connector (models with Intelligent Key system).

10. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



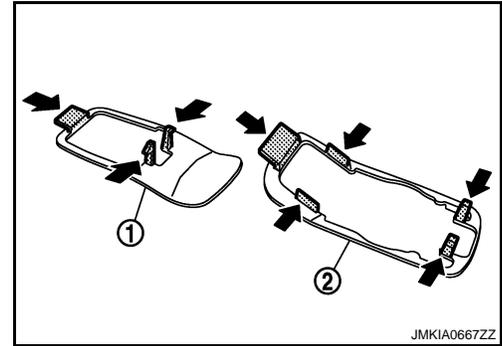
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FRONT DOOR LOCK

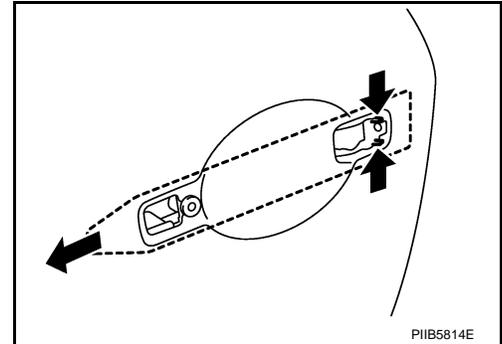
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

11. Remove the front gasket (1) and the rear gasket (2).



12. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



13. Reach in to separate the outside handle cable connection.
14. Remove the door lock assembly TORX bolts.
15. Disconnect the door lock actuator connector, and then remove the door lock assembly.
16. Remove the key rod from door lock assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

INSIDE HANDLE

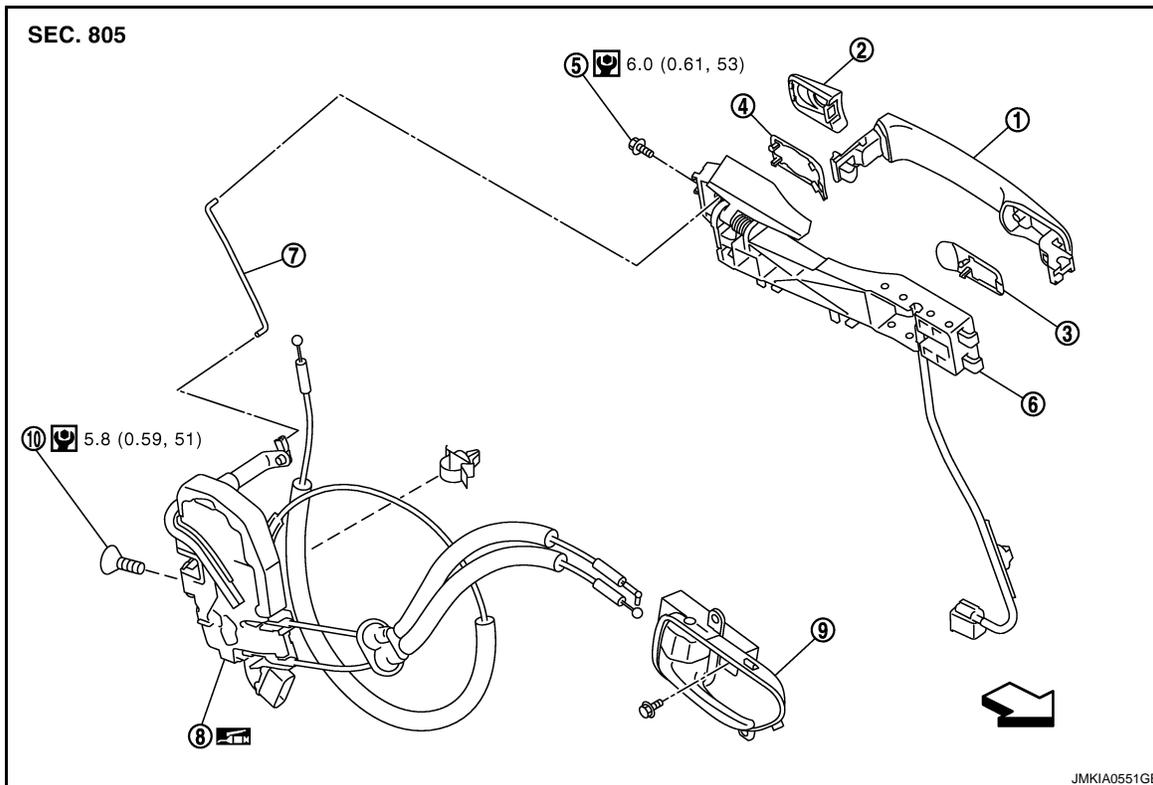
FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

INSIDE HANDLE : Exploded View

INFOID:000000001298157



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|----------------------------|---|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder assembly (driver side)
Outside handle escutcheon (passenger side) | 3. Front gasket |
| 4. Rear gasket | 5. TORX bolt | 6. Outside handle bracket |
| 7. Key rod | 8. Door lock assembly | 9. Inside handle |
| 10. TORX bolt | | |

← :Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001280668

REMOVAL

1. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolts.
3. Disconnect the inside handle knob cable and the lock knob cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

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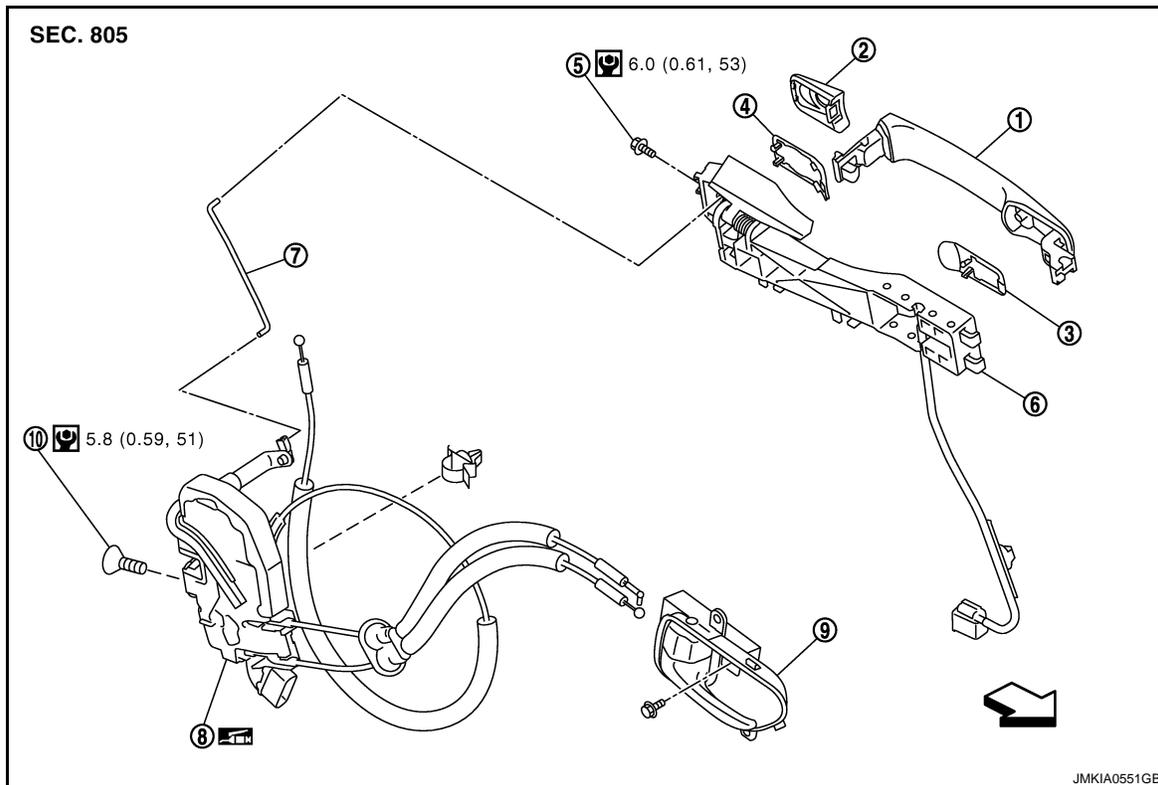
FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

OUTSIDE HANDLE : Exploded View

INFOID:000000001298158



- | | | |
|----------------------------|---|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder assembly (driver side) | 3. Front gasket |
| | Outside handle escutcheon (passenger side) | |
| 4. Rear gasket | 5. TORX bolt | 6. Outside handle bracket |
| 7. Key rod | 8. Door lock assembly | 9. Inside handle |
| 10. TORX bolt | | |

← :Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

INFOID:000000001280670

REMOVAL

1. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable and the lock knob cable.
3. Remove the front door glass. Refer to [GW-17, "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-17, "Exploded View"](#).
5. Disconnect the connector and remove the harness clamp (models with Intelligent Key system).

FRONT DOOR LOCK

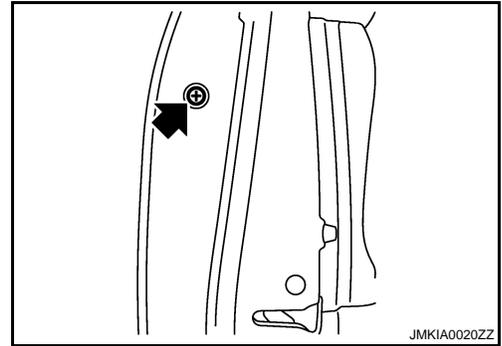
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

6. Remove the door side grommet, and loosen the TORX bolt.

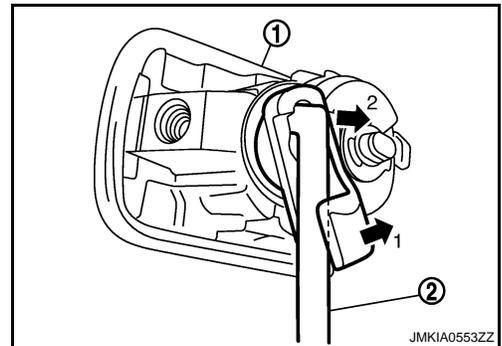
CAUTION:

Do not forcibly remove the TORX bolt.

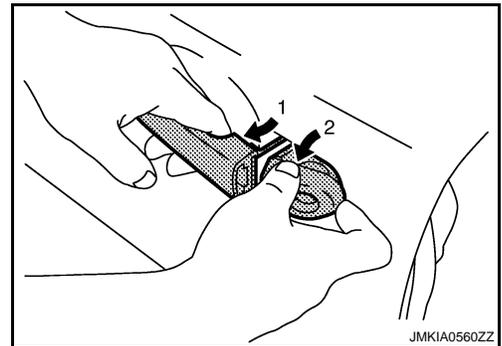


7. Reach in to separate the door key cylinder rod connection (on the handle) (driver side).

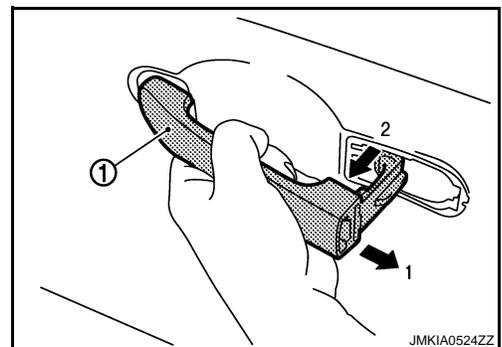
1. Door key cylinder assembly
2. Key rod



8. Disconnect the door key cylinder switch harness connector.
9. While pulling the outside handle, remove the door key cylinder assembly (driver side) or outside handle escutcheon (passenger side).



10. Disconnect the front door request switch harness connector (models with Intelligent Key system).
11. While pulling the outside handle, slide toward rear of vehicle to remove the outside handle (1).



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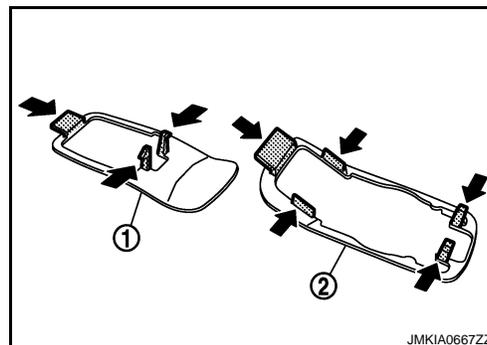
DLK

FRONT DOOR LOCK

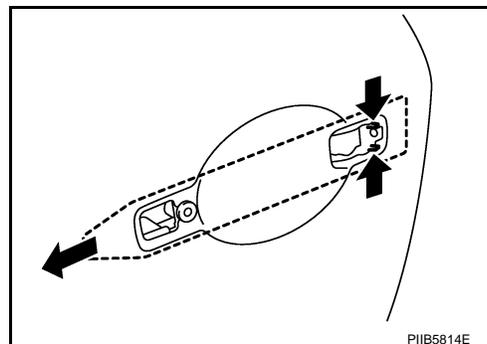
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

12. Remove the front gasket (1) and rear gasket (2).



13. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



14. Reach in to separate the outside handle cable connection.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

REAR DOOR LOCK

< ON-VEHICLE REPAIR >

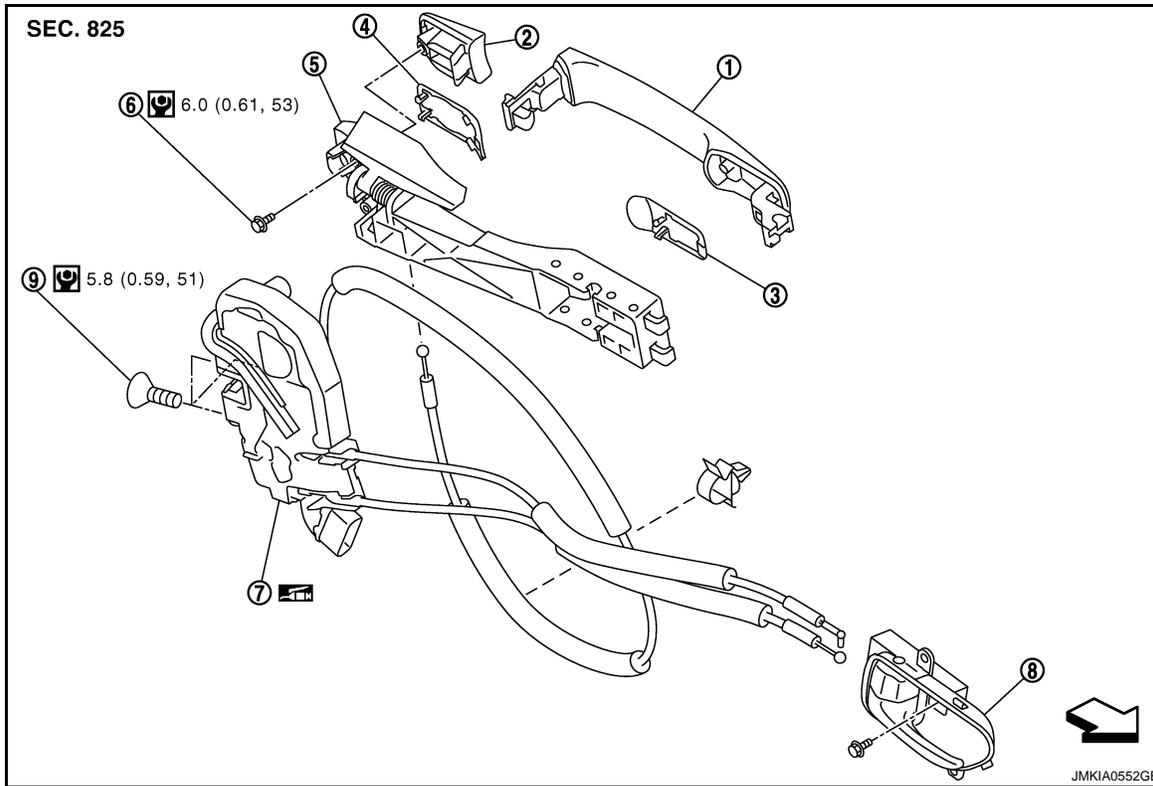
[WITH I-KEY, WITHOUT SUPER LOCK]

REAR DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001280671



- | | | |
|----------------------------|------------------------------|-----------------|
| 1. Outside handle assembly | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. TORX bolt |
| 7. Door lock assembly | 8. Inside handle | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001280672

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable.
3. Remove the door sealing screen. Refer to [GW-23, "Removal and Installation"](#).
4. Remove the lower partition sash. Refer to [GW-17, "Removal and Installation"](#).
5. Remove the corner piece assembly. Refer to [GW-17, "Removal and Installation"](#).
6. Remove the door lock assembly TORX bolts.
7. Disconnect the door lock actuator connector.

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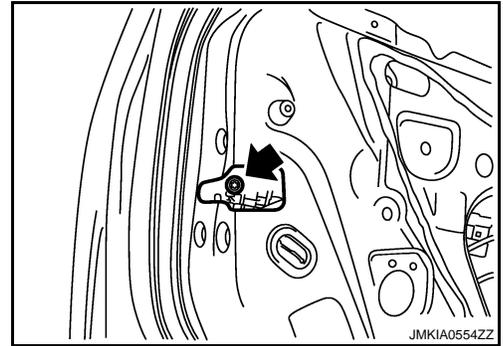
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REAR DOOR LOCK

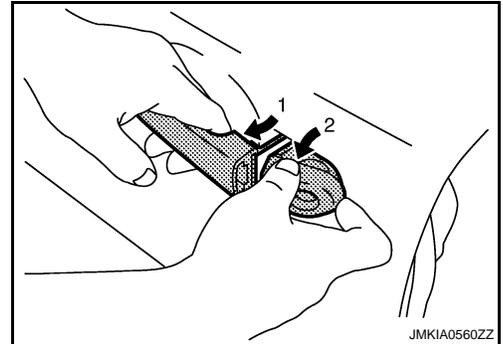
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

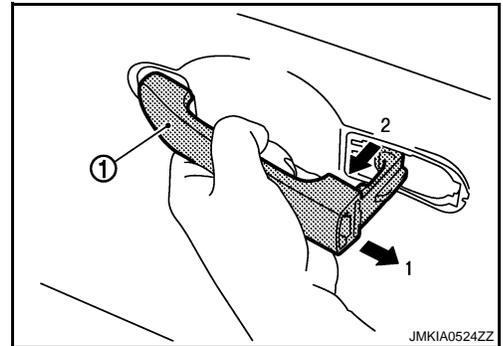
8. Slide the door lock assembly from the inside the door panel until the outside handle escutcheon TORX bolt can be seen.



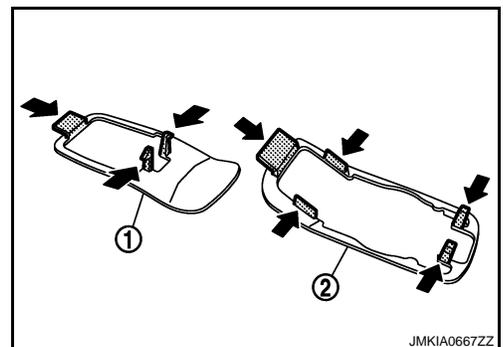
9. While pulling the outside handle, remove the outside handle escutcheon.



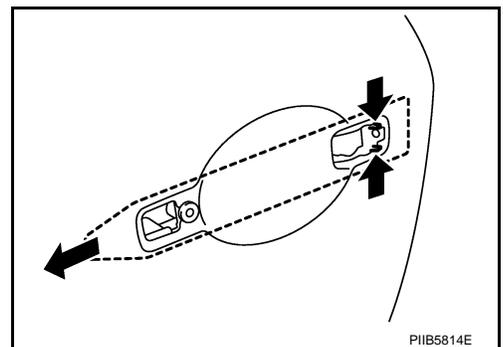
10. While pulling the outside handle(1), slide toward rear of vehicle to remove the outside handle.



11. Remove the front gasket (1) and the rear gasket (2).



12. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

13. Reach in to separate the outside handle cable connection.
14. Remove the door lock assembly.

INSTALLATION

Install in the reverse order of removal.

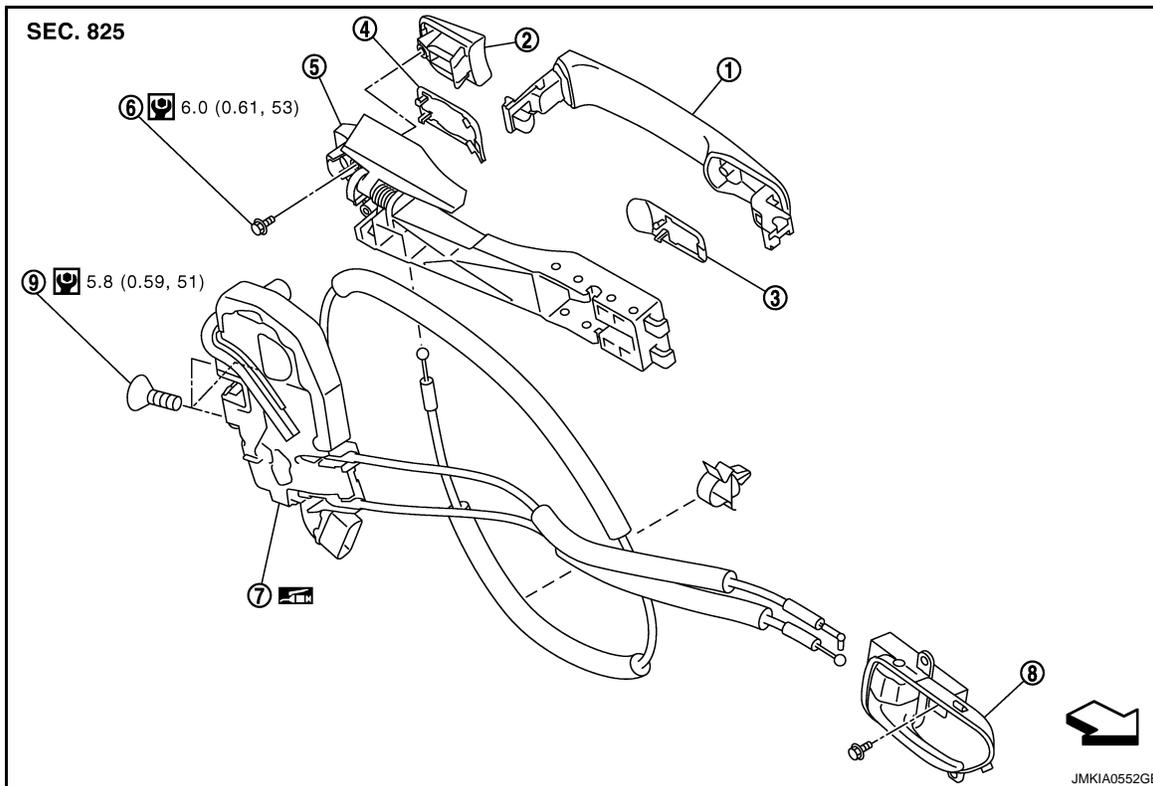
CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000001298159



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|----------------------------|------------------------------|-----------------|
| 1. Outside handle assembly | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. TORX bolt |
| 7. Door lock assembly | 8. Inside handle | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001280674

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting screws.
3. Disconnect the inside handle knob cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

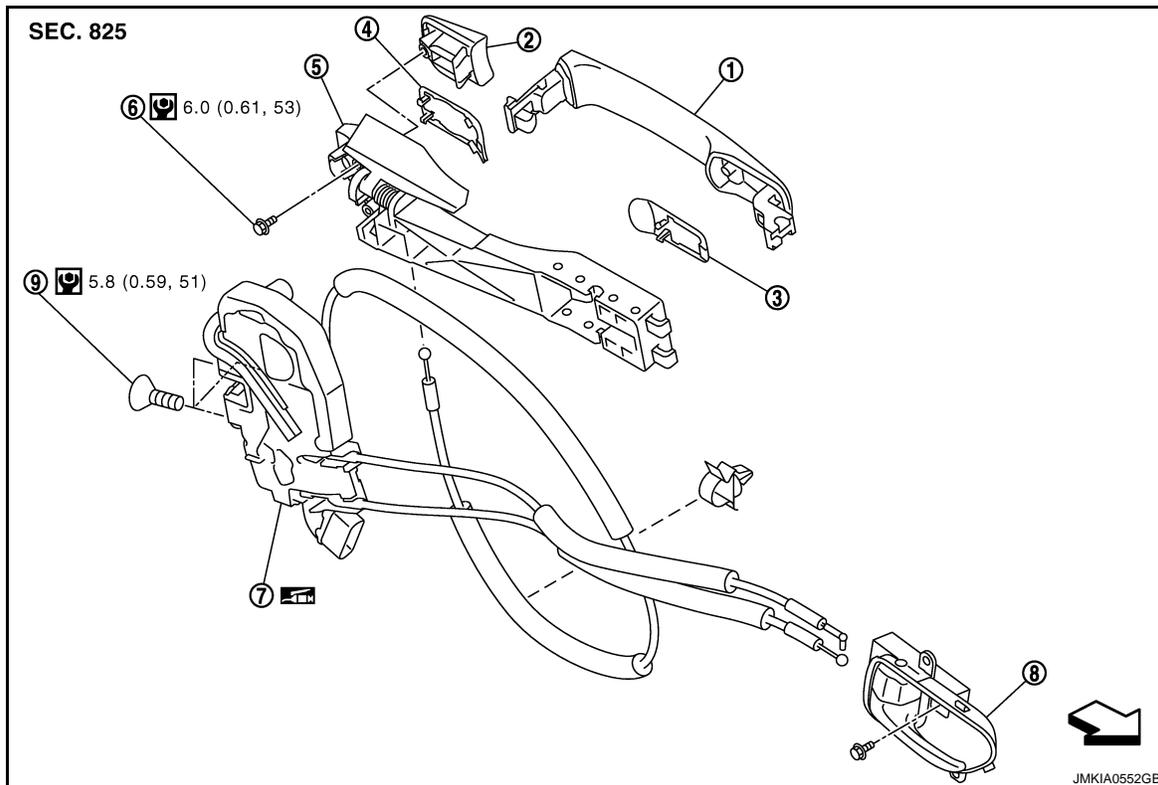
REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

OUTSIDE HANDLE : Exploded View

INFOID:000000001298160



- | | | |
|----------------------------|------------------------------|-----------------|
| 1. Outside handle assembly | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. TORX bolt |
| 7. Door lock assembly | 8. Inside handle | 9. TORX bolt |

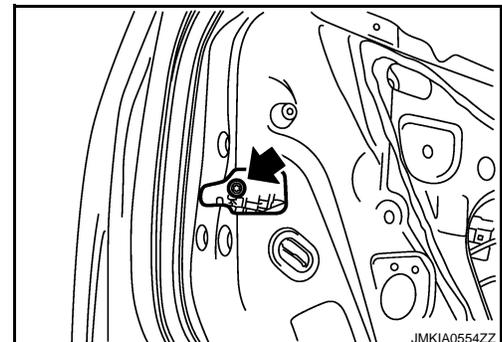
Refer to [GI-4. "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

INFOID:000000001280676

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable.
3. Remove the door sealing screen. Refer to [GW-23. "Removal and Installation"](#).
4. Remove the lower partition sash. Refer to [GW-17. "Removal and Installation"](#).
5. Remove the corner piece assembly. Refer to [GW-17. "Removal and Installation"](#).
6. Remove the door lock assembly TORX bolts.
7. Disconnect the door lock actuator connector.
8. Slide the door lock assembly from the inside the door panel until the outside handle escutcheon TORX bolt can be seen.

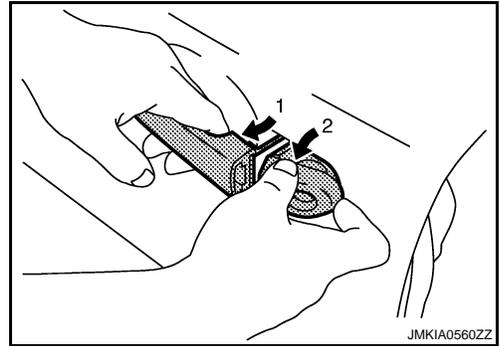


REAR DOOR LOCK

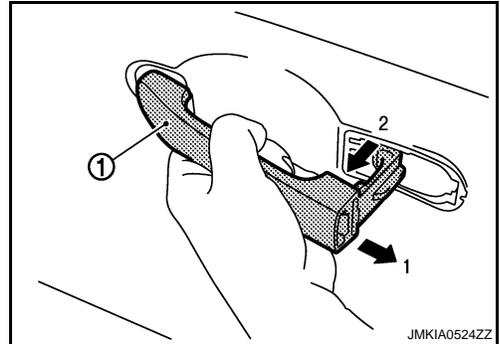
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

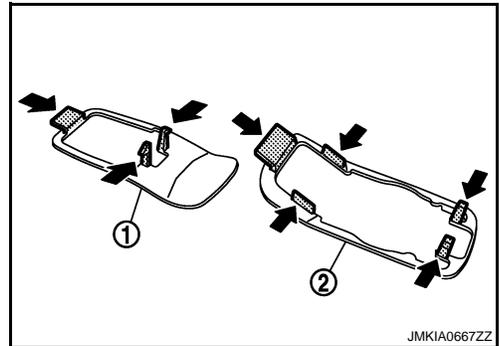
9. While pulling the outside handle, remove the outside handle escutcheon.



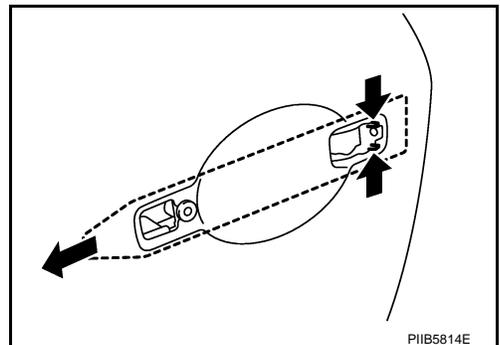
10. While pulling the outside handle(1), slide toward rear of vehicle to remove the outside handle.



11. Remove the front gasket (1) and the rear gasket (2).



12. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



13. Reach in to separate the outside handle cable connection.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

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BACK DOOR LOCK

< ON-VEHICLE REPAIR >

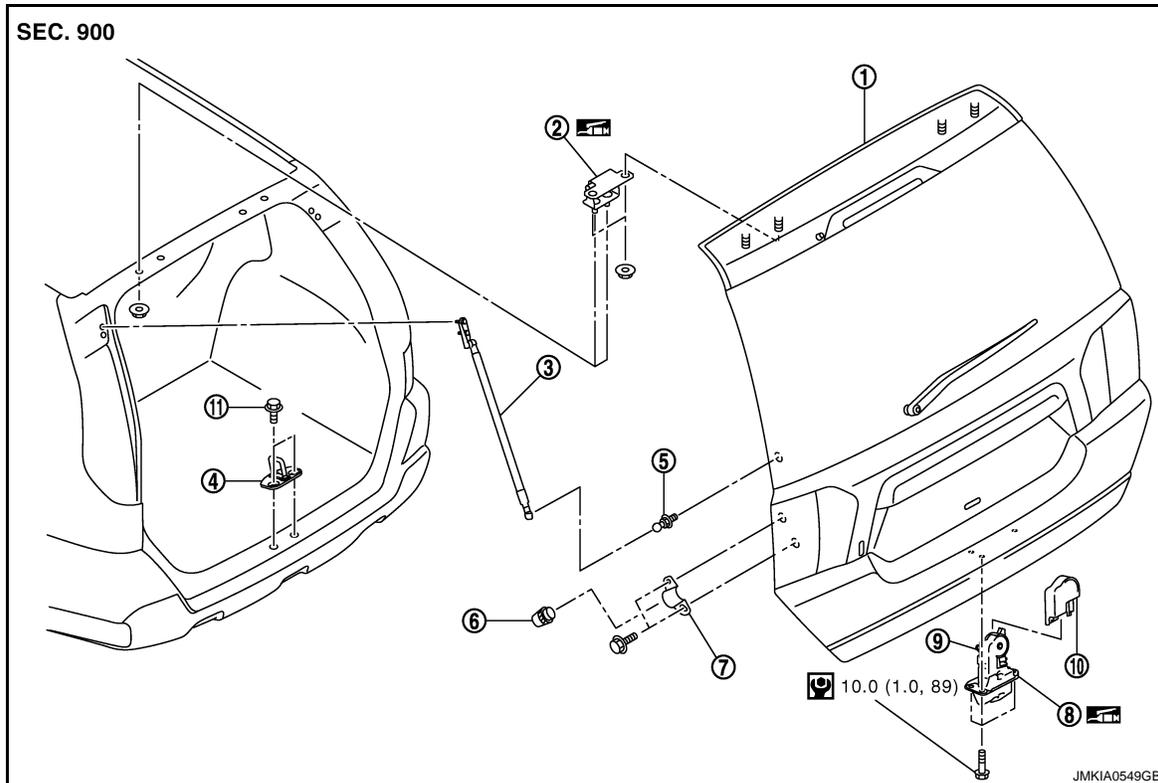
[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001298161



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|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001280678

REMOVAL

1. Remove the back door trim finisher lower. Refer to [INT-31. "Removal and Installation"](#).
2. Disconnect the back door lock assembly and back door opener switch connectors.
3. Remove the back door lock mounting bolts, and then remove the back door lock and actuator.

INSTALLTION

Install in the reverse order of removal.

CAUTION:

Check the back door lock/unlock operation after installation.

FUEL FILLER LID OPENER

< ON-VEHICLE REPAIR >

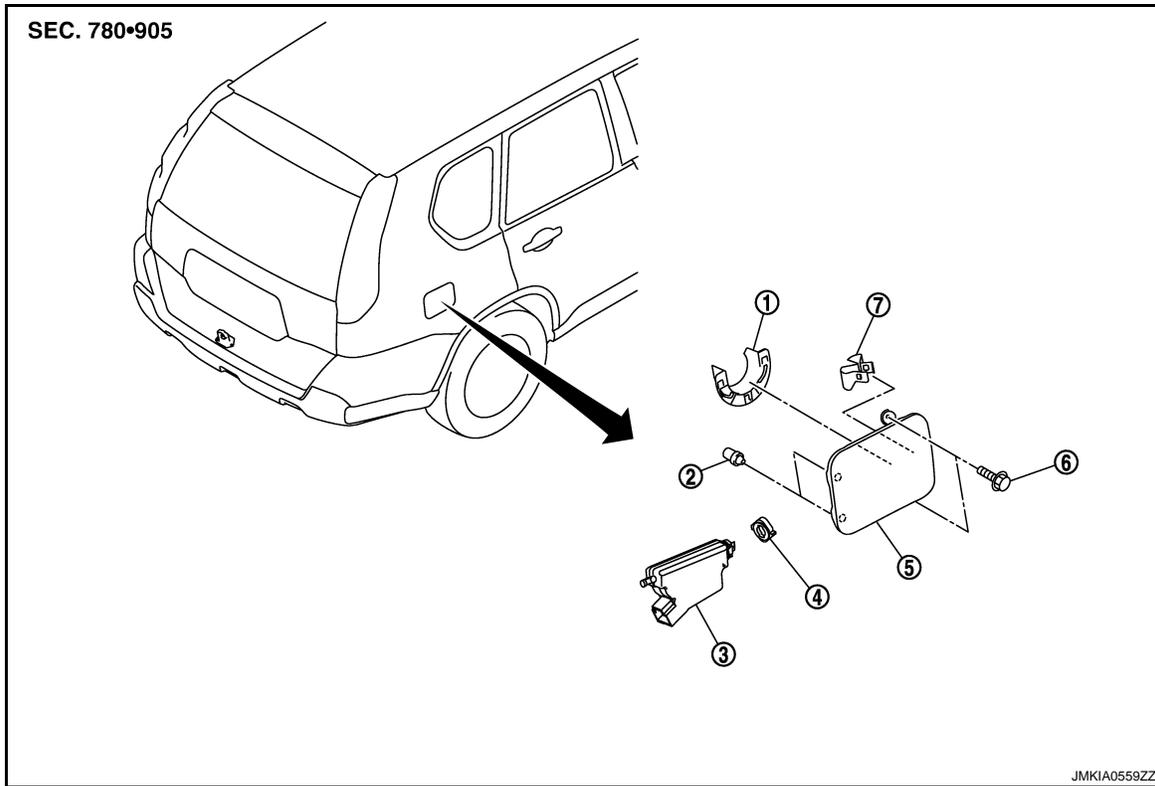
[WITH I-KEY, WITHOUT SUPER LOCK]

FUEL FILLER LID OPENER

FUEL FILLER LID

FUEL FILLER LID : Exploded View

INFOID:000000001280679



- | | | |
|------------------------------|-----------------------------|----------------------------------|
| 1. Fuel filler cap holder | 2. Bumper rubber | 3. Fuel filler lid lock actuator |
| 4. Fuel filler lid lock seal | 5. Fuel filler lid assembly | 6. TORX bolt |
| 7. Spring | | |

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FUEL FILLER LID : Removal and Installation

INFOID:000000001280680

REMOVAL

1. Fully open the fuel filler lid.
2. Remove the filler cap.
3. Remove the TORX bolts, and then remove the fuel filler lid assembly.
4. Remove the following parts after removing the fuel filler lid assembly.
 - Fuel filler cap holder
 - Bumper rubber
 - Spring

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the fuel filler lid open/close operation after installation.
- After installation, apply the touch-up paint (the body color) onto the head of the mounting screws.

NOTE:

After installation, perform fitting adjustment.

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	Clearance	Evenness
Fuel filler lid— – Body side outer	2.0 – 4.0 (0.079 – 0.157)	-1.0 – 1.0 (-0.039 – 0.039)

DOOR SWITCH

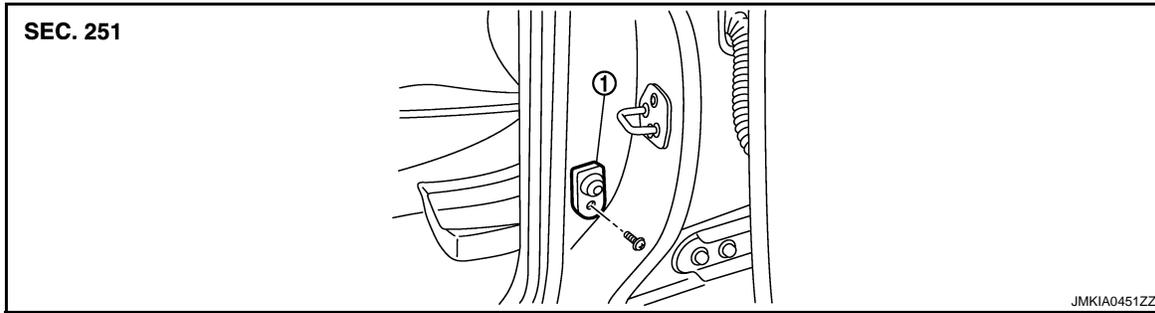
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR SWITCH

Exploded View

INFOID:000000001495975



1. Door switch (driver side)

Removal and Installation

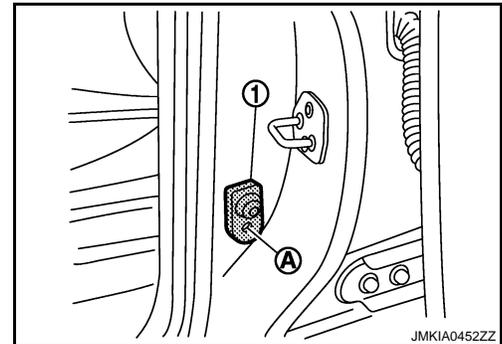
INFOID:000000001495976

REMOVAL

1. Remove the door switch mounting bolt (A), and then remove door switch (1).

NOTE:

The same procedure is also performed for door switch (passenger side, rear LH and rear RH).



INSTALLATION

Install in the reverse order of removal.

INSIDE KEY ANTENNA

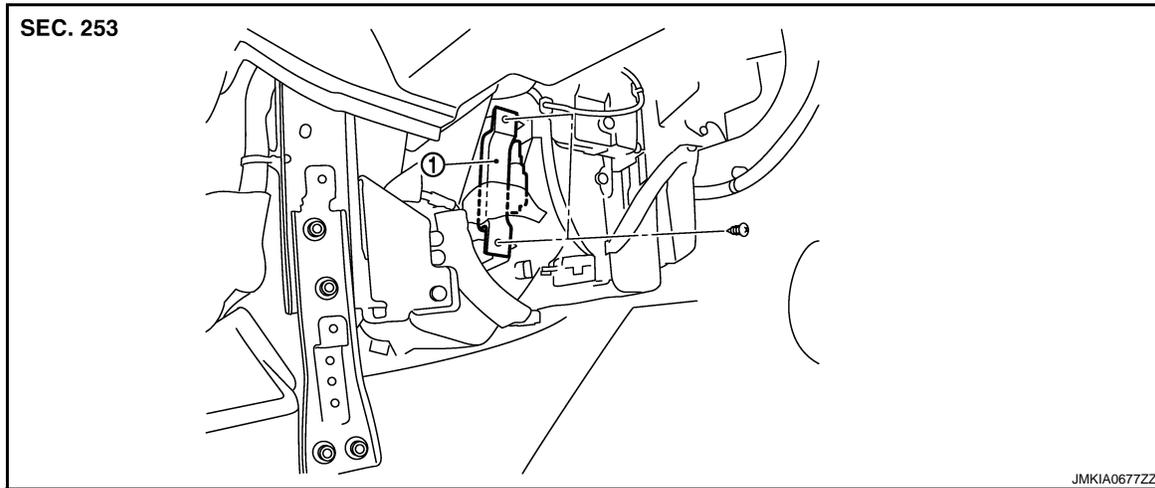
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Exploded View

INFOID:000000001495977



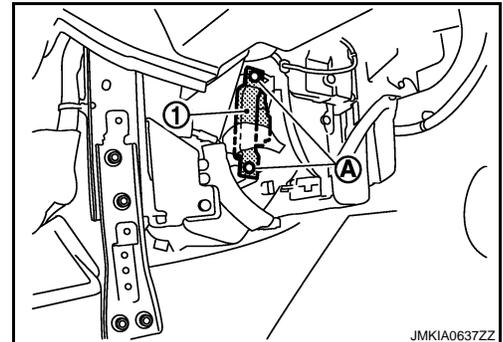
1. Inside key antenna (instrument center)

INSTRUMENT CENTER : Removal and Installation

INFOID:000000001495978

REMOVAL

1. Instrument lower cover RH. Refer to [IP-12. "Removal and Installation"](#).
2. Remove the inside key antenna (instrument center) mounting screw (A), and then remove inside key antenna (instrument center) (1).



INSTALLATION

Install in the reverse order of removal.

CONSOLE

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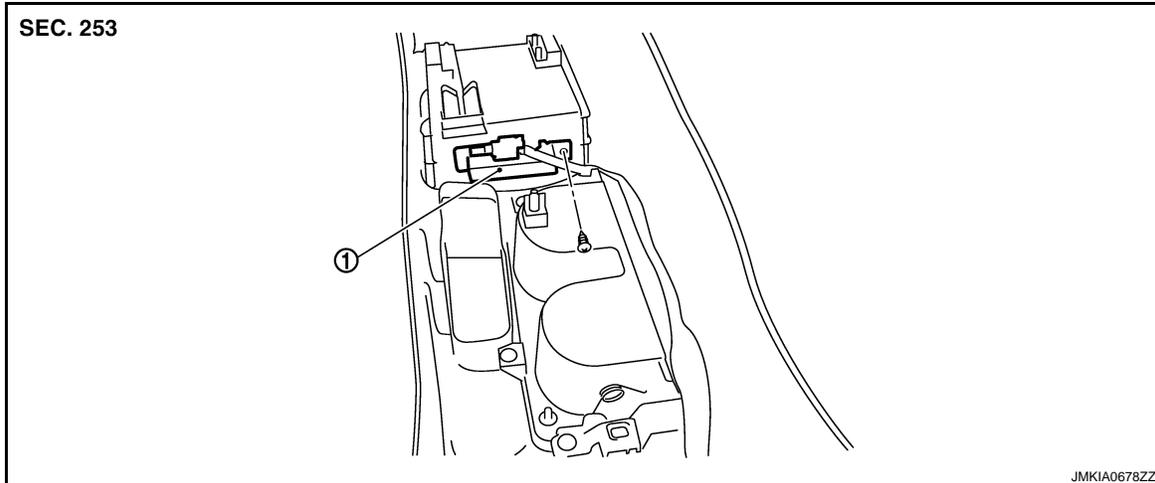
INSIDE KEY ANTENNA

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

CONSOLE : Exploded View

INFOID:000000001495979



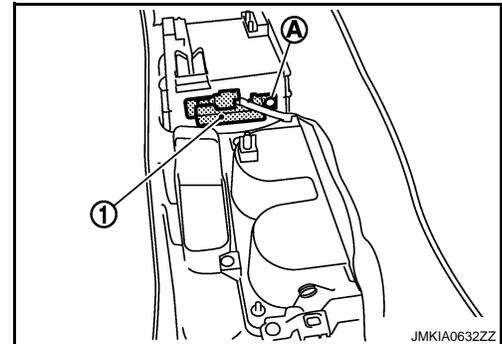
1. Inside key antenna (console)

CONSOLE : Removal and Installation

INFOID:000000001495980

REMOVAL

1. Remove the center console. Refer to [IP-21, "Removal and Installation"](#).
2. Remove the inside key antenna mounting screw (A), and then remove inside key antenna (console) (1).



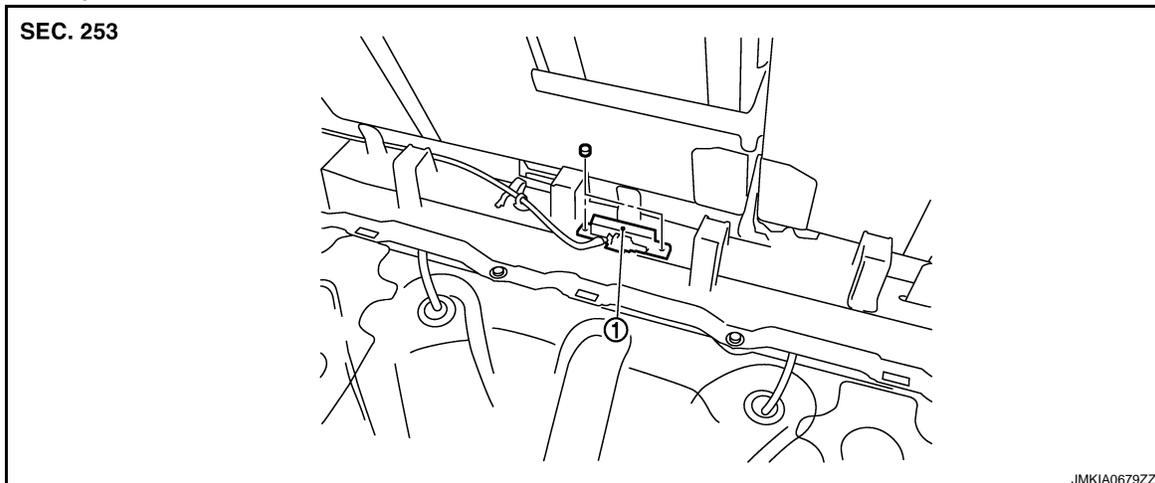
INSTALLATION

Install in the reverse order of removal.

REAR

REAR : Exploded View

INFOID:000000001495981



1. Inside key antenna (rear seat)

INSIDE KEY ANTENNA

< ON-VEHICLE REPAIR >

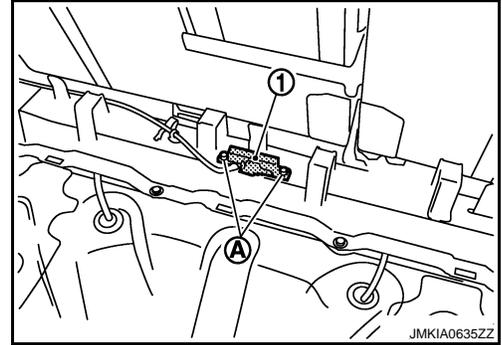
[WITH I-KEY, WITHOUT SUPER LOCK]

REAR : Removal and Installation

INFOID:000000001495982

REMOVAL

1. Remove the luggage floor spacer. Refer to [INT-28. "Removal and Installation"](#).
2. Remove the inside key antenna (rear seat) mounting clips (A), and then remove inside key antenna (rear seat) (1).



INSTALLATION

Install in the reverse order of removal.

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OUTSIDE KEY ANTENNA

[WITH I-KEY, WITHOUT SUPER LOCK]

< ON-VEHICLE REPAIR >

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:000000001495983

Refer to [DLK-282. "OUTSIDE HANDLE : Removal and Installation"](#).

DRIVER SIDE : Removal and Installation

INFOID:000000001495984

REMOVAL

Remove the front outside handle LH. Refer to [DLK-575. "OUTSIDE HANDLE : Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:000000001495985

Refer to [DLK-282. "OUTSIDE HANDLE : Exploded View"](#).

PASSENGER SIDE : Removal and Installation

INFOID:000000001495986

REMOVAL

Remove the front outside handle RH. Refer to [DLK-282. "OUTSIDE HANDLE : Removal and Installation"](#).

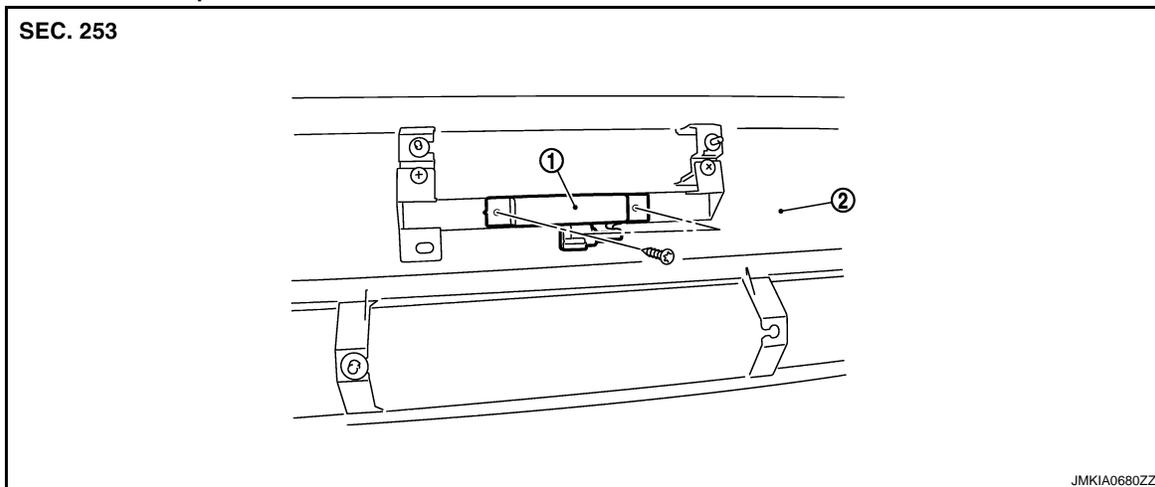
INSTALLATION

Install in the reverse order of removal.

BACK DOOR

BACK DOOR : Exploded View

INFOID:000000001495987



1. Outside key antenna (back door)
2. Back door lower finisher

BACK DOOR : Removal and Installation

INFOID:000000001495988

REMOVAL

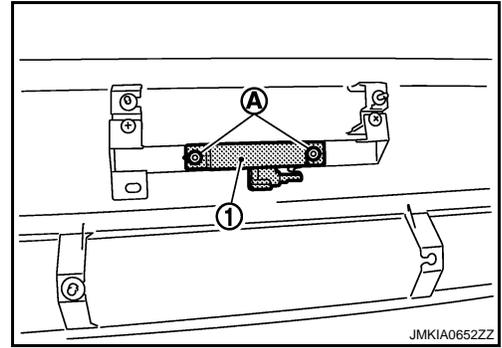
1. Remove the back door lower finisher. Refer to [EXT-36. "Removal and Installation"](#).

OUTSIDE KEY ANTENNA

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

- Remove the outside key antenna (back door) (1) from back door finisher (2).



INSTALLATION

Install in the reverse order of removal.

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INTELLIGENT KEY WARNING BUZZER

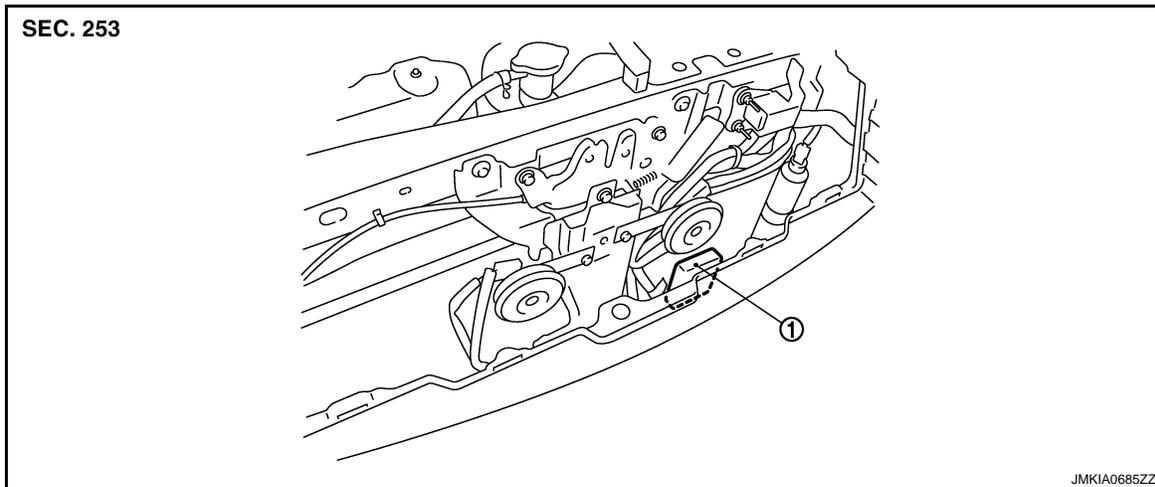
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

INTELLIGENT KEY WARNING BUZZER

Exploded View

INFOID:000000001495989



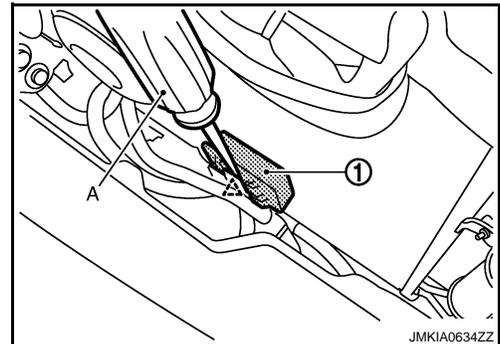
1. Intelligent Key warning buzzer

Removal and Installation

INFOID:000000001495990

REMOVAL

1. Remove the front grille. Refer to [EXT-18. "Removal and Installation"](#).
2. Remove the Intelligent Key warning buzzer using flat-bladed screw driver (A) etc.



INSTALLATION

Install in the reverse order of removal.

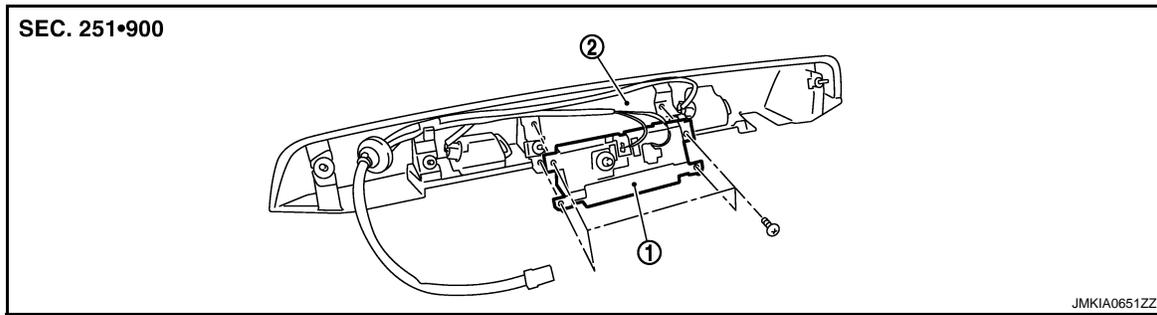
BACK DOOR REQUEST SWITCH

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR REQUEST SWITCH

Exploded View



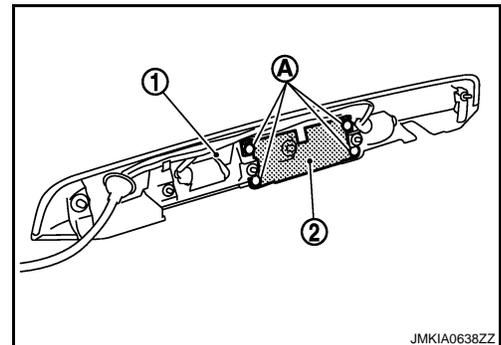
1. Back door opener switch assembly
2. Back door finisher

Removal and Installation

INFOID:000000001495992

REMOVAL

1. Remove the back door finisher. Refer to [EXT-34, "Removal and Installation"](#).
2. Remove the back door opener switch assembly mounting bolt (A).
3. Remove the back door opener switch assembly (2) from back door finisher (1).



INSTALLATION

Install in the reverse order of removal.

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BACK DOOR OPENER SWITCH

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR OPENER SWITCH

Exploded View

INFOID:000000001495993

Refer to [DLK-592. "Exploded View"](#).

Removal and Installation

INFOID:000000001495994

REMOVAL

Refer to [DLK-592. "Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

INTELLIGENT KEY BATTERY

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

INTELLIGENT KEY BATTERY

Exploded View

INFOID:000000001495995

Refer to [DLK-138, "Diagnosis Procedure"](#).

Removal and Installation

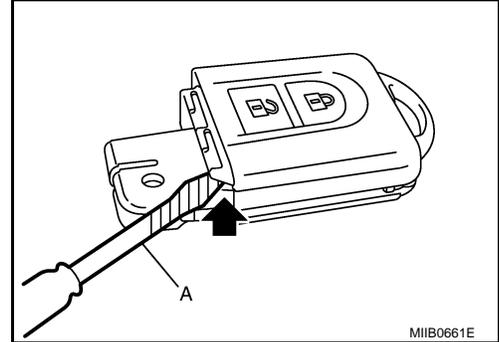
INFOID:000000001495996

REMOVAL

1. Remove Intelligent Key cover.
2. Insert a flat-bladed screwdriver (A) wrapped with tape as shown in the illustration and then separate lower and upper cases by twisting screwdriver.

CAUTION:

- Do not touch the circuit board or battery terminal.
- The Intelligent Key is water-resistant. However, if it does get wet, immediately wipe it dry.



3. Remove the circuit board assembly from the upper case (1). [Substrate assembly: circuit board (3) + rubber (2)]
4. Gently press the rubber (2) and remove the circuit board (3).
5. Remove the battery (4) from the lower case (5) and replace it.

Battery replacement : Coin-type lithium battery (CR2032)

CAUTION:

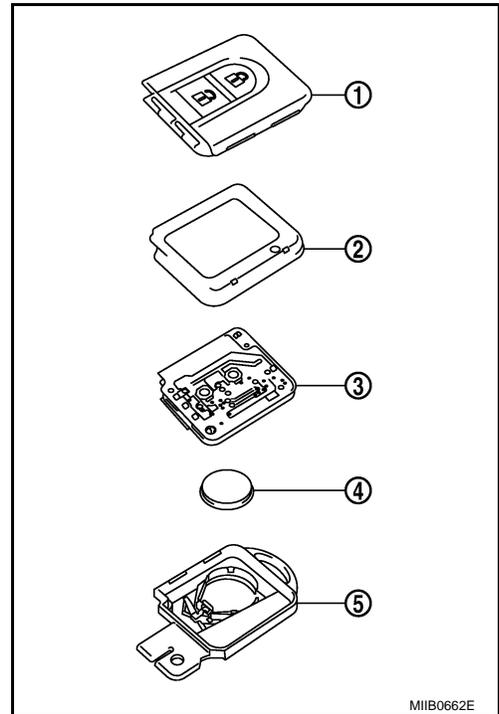
When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.

6. After replacement, assemble the upper and lower cases by engaging the hooks on their circumference while being careful not to pinch the rubber, etc.

CAUTION:

After replacing the battery, check that all Intelligent Key functions work normally.

Refer to [DLK-138, "Component Function Check"](#).



INSTALLATION

Install in the reverse order of removal.

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INTELLIGENT KEY UNIT

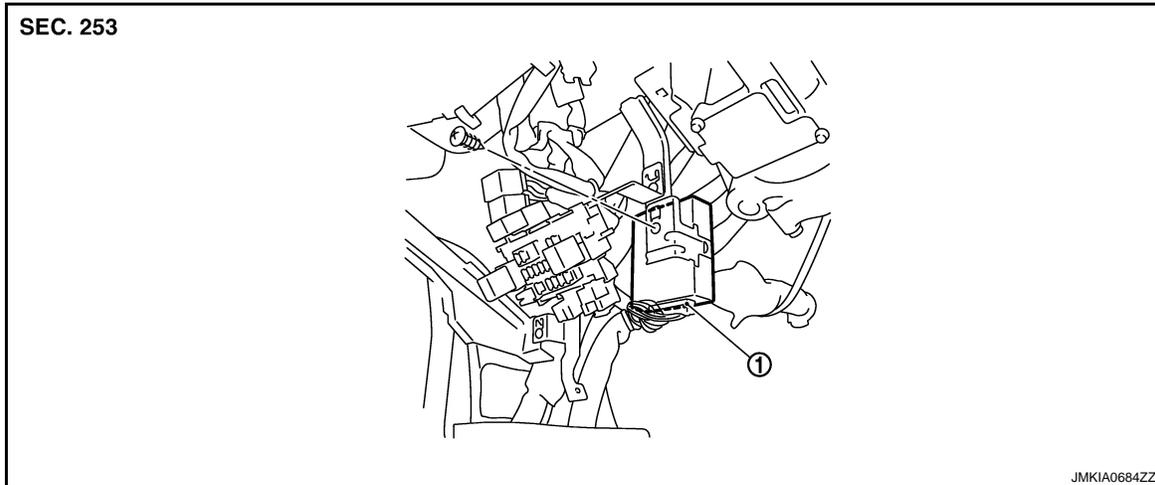
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

INTELLIGENT KEY UNIT

Exploded View

INFOID:000000001495997



1. Intelligent Key unit M40

Removal and Installation

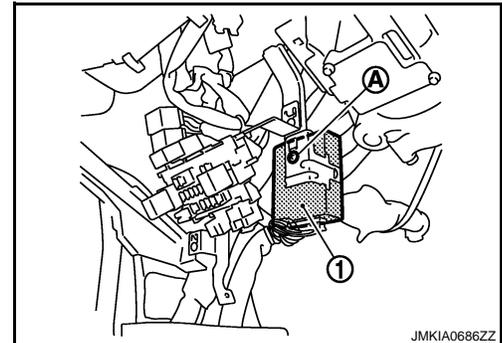
INFOID:000000001495998

REMOVAL

1. Remove lower instrument panel (driver side). Refer to [JP-12. "Removal and Installation"](#).
2. Remove the Intelligent Key unit mounting screw (A), and then remove Intelligent Key unit (1).

NOTE:

Perform the system initialization when replacing Intelligent Key unit. Refer to [DLK-25. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).



INSTALLATION

Install in the reverse order of removal.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH I-KEY & SUPER LOCK]

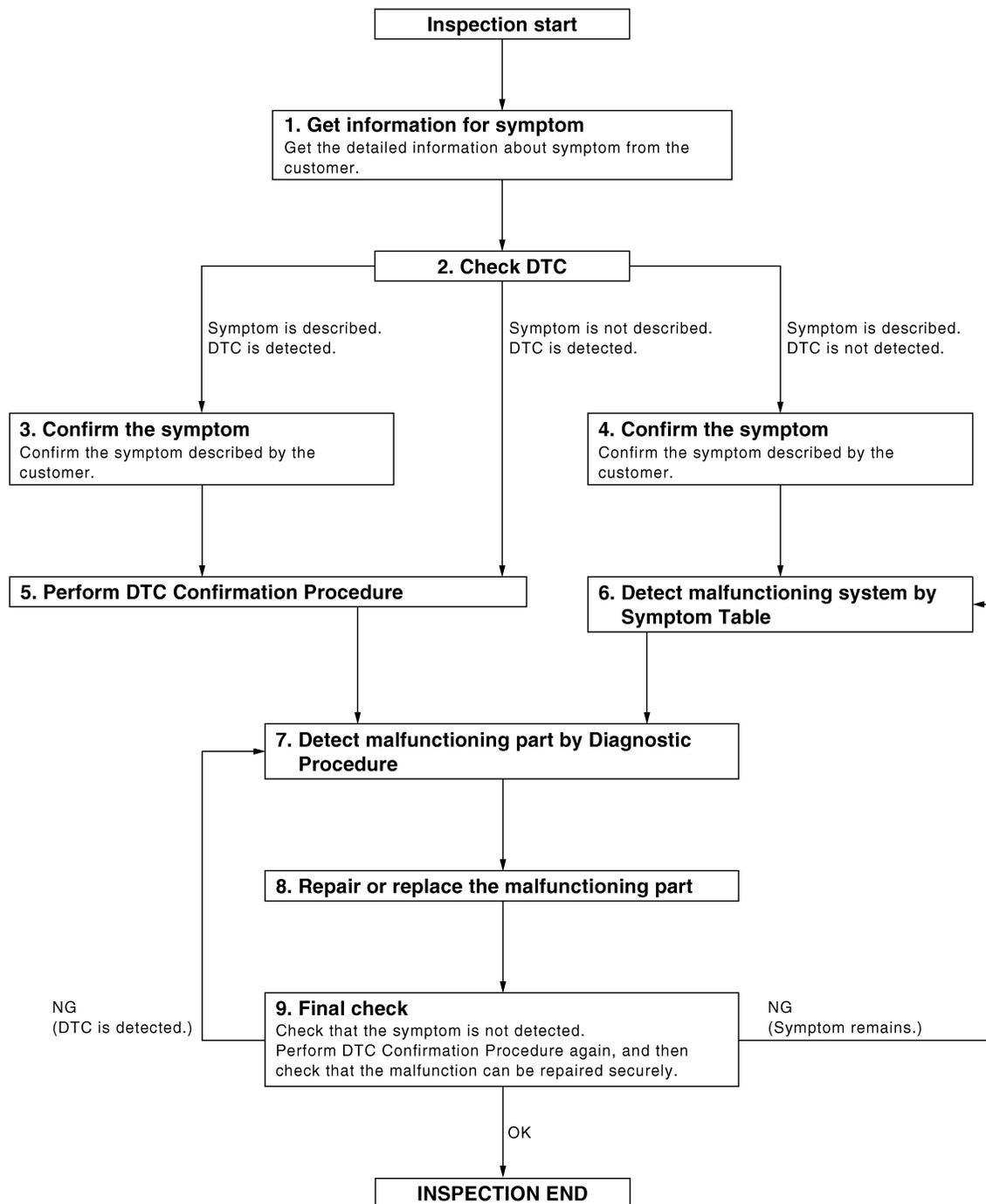
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000001569819

OVERALL SEQUENCE



DETAILED FLOW

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH I-KEY & SUPER LOCK]

1.GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2.CHECK DTC

1. Check DTC for Intelligent Key unit and BCM.
2. Perform the following procedure if DTC is displayed.
 - Erase DTC.
 - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

- Symptom is described, DTC is displayed>>GO TO 3.
- Symptom is described, DTC is not displayed>>GO TO 4.
- Symptom is not described, DTC is displayed>>GO TO 5.

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real-time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR " mode and check real-time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.
If two or more DTCs are detected, refer to [DLK-458, "DTC Inspection Priority Chart"](#) (Intelligent Key unit), [DLK-499, "DTC Inspection Priority Chart"](#) (BCM) and determine trouble diagnosis order.

Is DTC detected?

- YES >> GO TO 7.
- NO >> Refer to [GI-39, "Intermittent Incident"](#).

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to Symptom Table based on the confirmed symptom in step 4.

>> GO TO 7.

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

The Diagnostic Procedure is described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

>> GO TO 8.

8.REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
3. Check DTC. If DTC is displayed, erase it.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH I-KEY & SUPER LOCK]

>> GO TO 9.

9.FINAL CHECK

When DTC was detected in step 9, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunctions have been fully repaired.

When symptom was described by the customer, refer to the confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Are all malfunctions corrected?

NO (DTC is detected)>>GO TO 7.

NO (Symptom remains)>>GO TO 6.

YES >> **INSPECTION END**

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITH I-KEY & SUPER LOCK]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000001280712

Perform the system initialization when replacing Intelligent Key unit, replacing Intelligent Key or registering an additional Intelligent Key.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000001280713

Refer to the CONSULT-III Operation Manual-NATS.

FUNCTION DIAGNOSIS

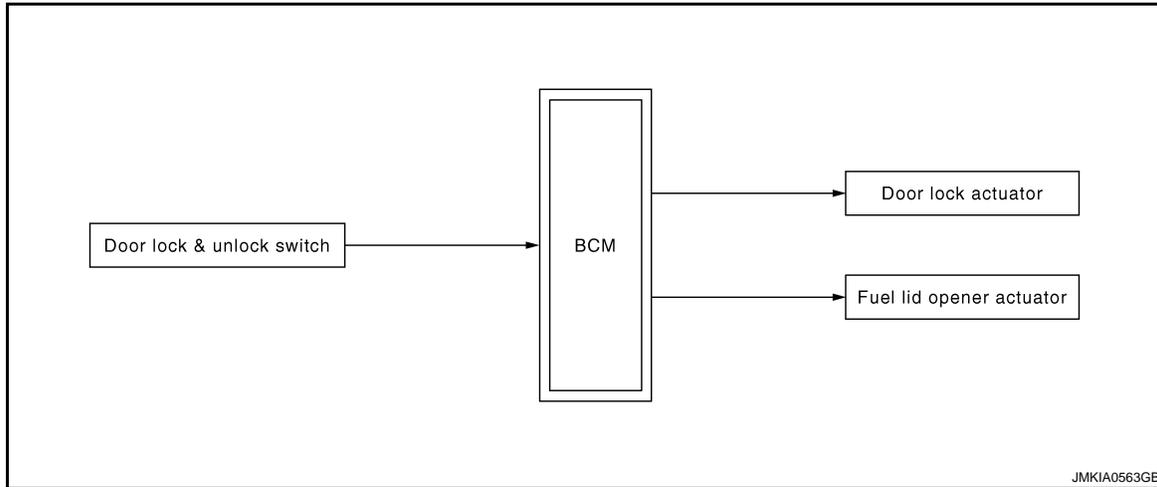
DOOR LOCK FUNCTION

DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH : System Diagram

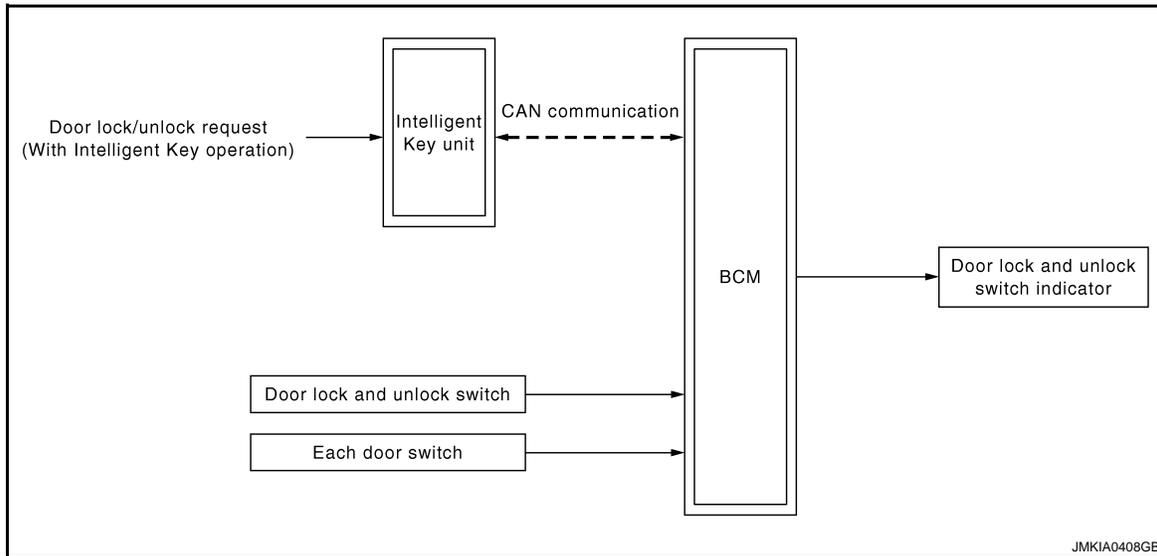
INFOID:000000001280714

DOOR LOCK AND UNLOCK SWITCH OPERATION



JMKIA0563GB

DOOR LOCK AND UNLOCK SWITCH INDICATOR OPERATION



JMKIA0408GB

DOOR LOCK AND UNLOCK SWITCH : System Description

INFOID:000000001280715

DOOR LOCK AND UNLOCK SWITCH OPERATION

Functions available by operating the door lock and unlock switch on center console. Interlocked with the lock/unlock operation of door lock and unlock switch, door lock actuators of all doors are locked/unlocked.

Operation Condition

If the following conditions are not satisfied, door lock/unlock operation is not performed even if the door lock and unlock switch is operated.

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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Door lock and unlock switch	Operation condition
Lock operation	Following all conditions are satisfied. <ul style="list-style-type: none">• Except driver side doors are closed.• Doors are not locked with Intelligent Key or door request switch.
Unlock operation	Following all conditions are satisfied. <ul style="list-style-type: none">• Doors are not locked with Intelligent Key or door request switch.

NOTE:

When the door lock is locked with Intelligent Key or door request switch (in super lock set state), door lock and unlock switch operation will be invalid until either following condition is satisfied.

- Turn ignition switch ON.
- Unlock with Intelligent key or door request switch.

DOOR LOCK AND UNLOCK SWITCH INDICATOR OPERATION

Door lock and unlock switch indicator indicates door lock status. The indicator turn ON while ignition switch is ON and door lock is locked or super lock is set. If any door is opened, the indicator will be turn OFF.

Door lock and unlock switch indicator have the following 2 functions.

1 Minute Timer

A timer must be running to turn OFF the indicator. The timer will running for 1 minute after super lock set or lock with Intelligent Key, door request switch or auto door lock.

30 Minutes Timer

A timer must be running to turn OFF the indicator. The timer will running for 30 minutes after locking with door lock and unlock switch.

NOTE:

1minute timer condition is satisfied during 30 minutes timer is active, 30 minutes timer is not change to 1 minutes.

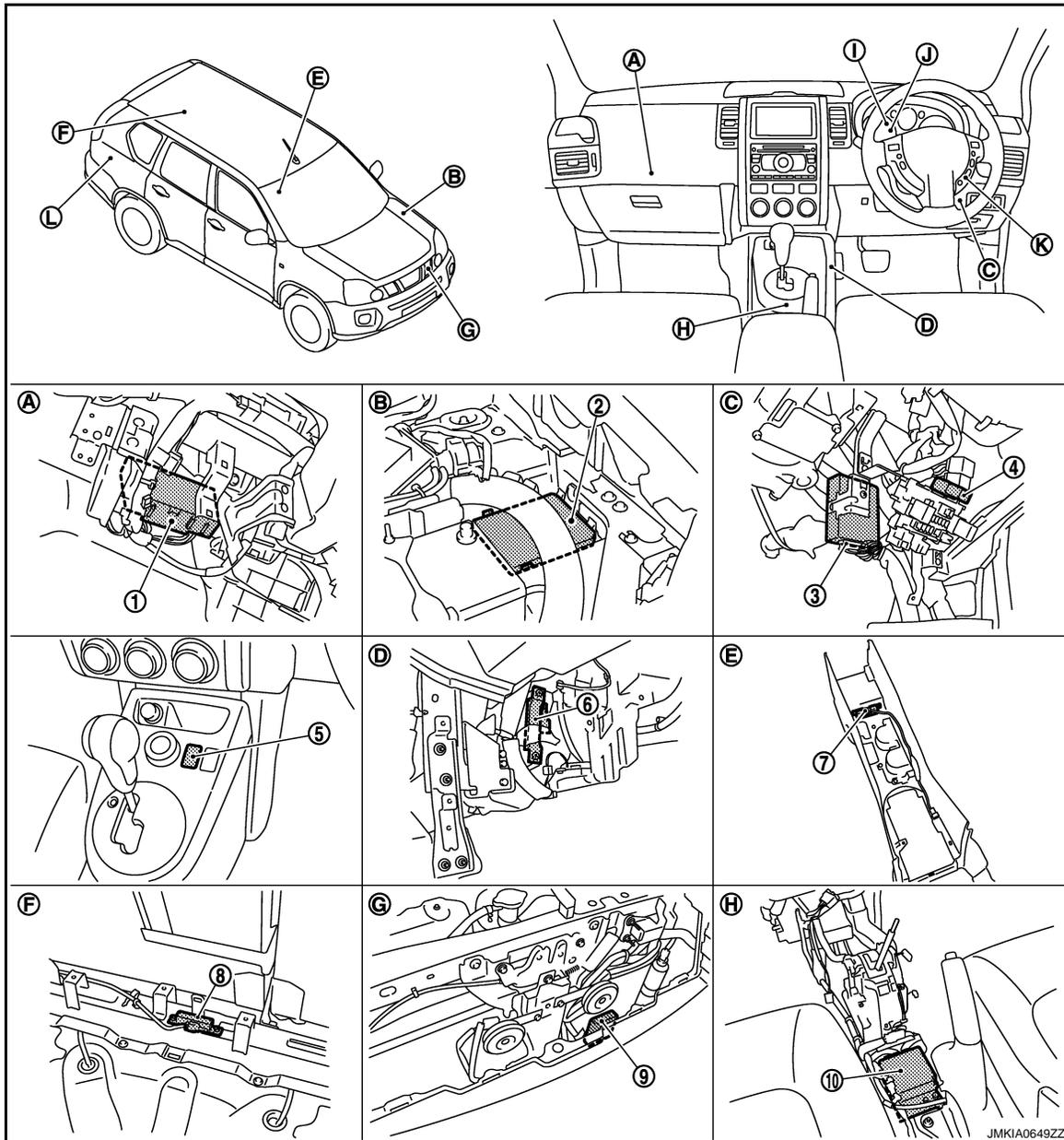
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH : Component Parts Location

INFOID:000000001280716



- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Door lock and unlock switch
M89 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Engine room LH | C. Over the instrument lower panel
(driver side) |
| D. View with lower instrument cover re-
moved | E. View with center console removed | F. View with luggage floor spacer re-
moved |
| G. View with front bumper fascia removed | H. View with center console removed | |

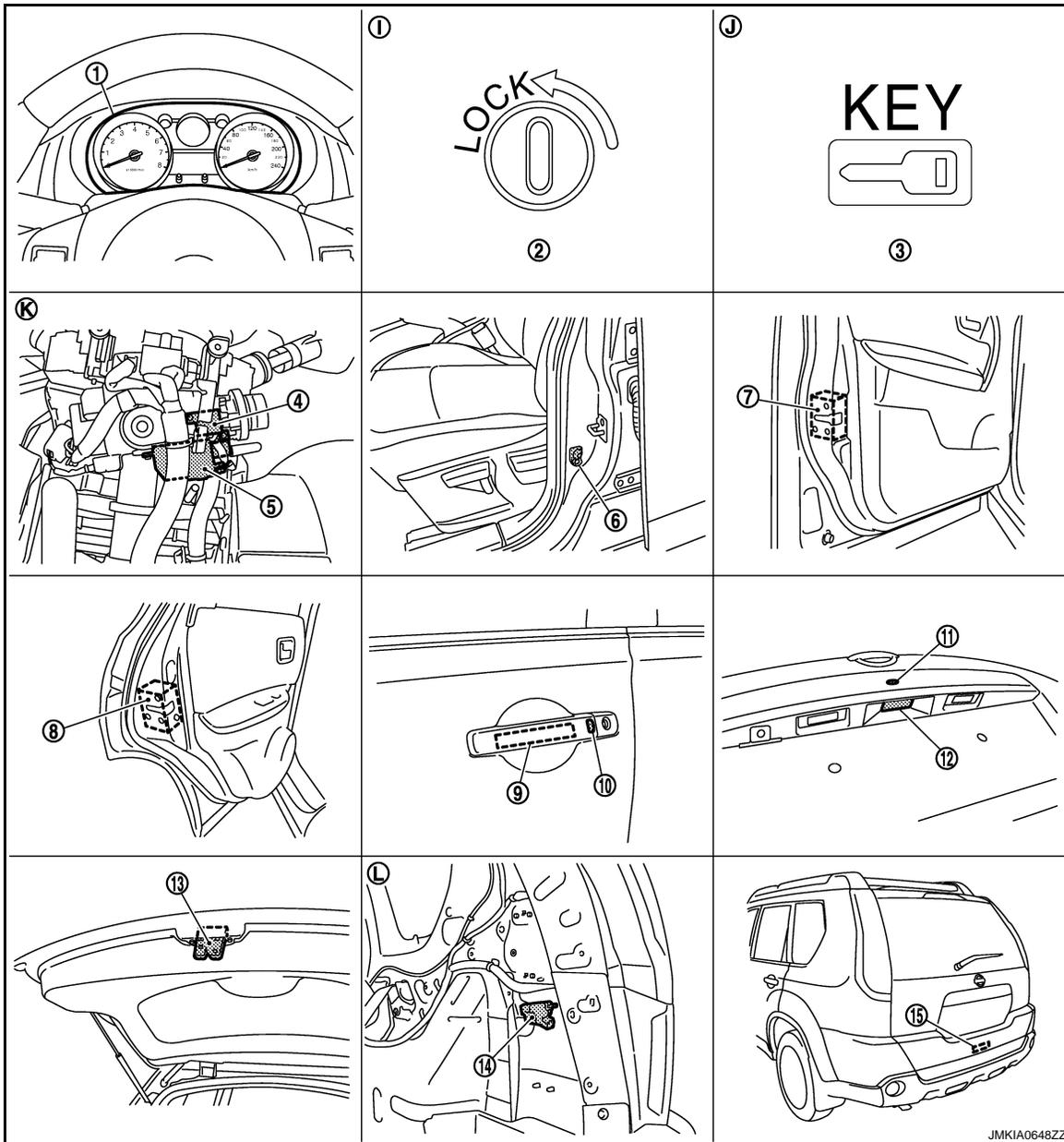
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DLK

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]



JMKIA0648ZZ

- | | | |
|--|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (passenger side)
B27 |
| 7. Front door lock actuator (passenger
side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column
removed |
| L. Luggage side lower finisher (RH) re-
moved. | | |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH : Component Description

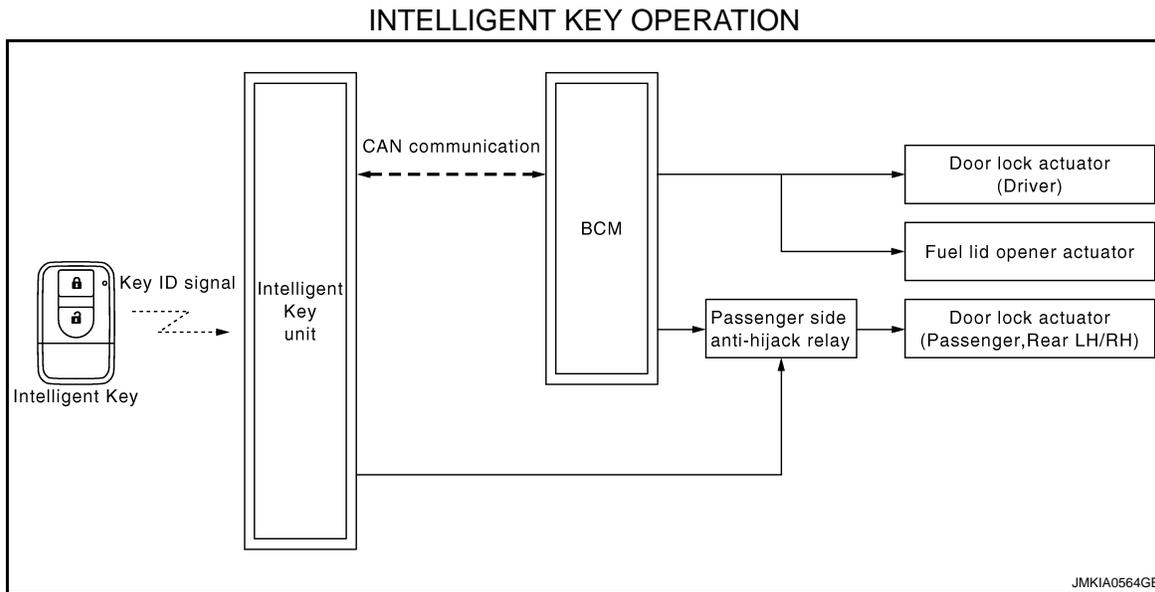
INFOID:000000001280717

Item	Function
BCM	Controls the door lock function.
Door switch	Detects door state (open or close).
Door lock and unlock switch	Transmits door lock and unlock signal to BCM. Door lock/unlock switch indicator is built-in door lock/unlock switch.
Door lock actuator	Receives door lock/unlock signal from BCM and locks/unlock each door.

INTELLIGENT KEY

INTELLIGENT KEY : System Diagram

INFOID:000000001280718



INTELLIGENT KEY : System Description

INFOID:000000001280719

INTELLIGENT KEY OPERATION

The Intelligent Key has the same functions as the multi remote control system. Therefore, it can be used in the same manner as the keyfob by operating the door lock/unlock button.

This function can be set to OFF with CONSULT-III. For the setting information, refer to [DLK-349. "CONSULT-III Function \(INTELLIGENT KEY\)".](#)

OPERATION CONDITION

Remote controller operation	Operation condition
Lock	<ul style="list-style-type: none"> All doors are closed Key switch is OFF (key is removed from ignition key cylinder) Ignition knob switch is OFF (Ignition switch is not pressed) No Intelligent Keys are inside the vehicle.
Unlock	<ul style="list-style-type: none"> Key switch is OFF (key is removed from ignition key cylinder) Ignition knob switch is OFF (Ignition switch is not pressed)

OPERATION AREA

To ensure that the Intelligent Key works effectively, use within 100 cm range of each door, however the operable range may differ according to surroundings.

LOCK AND UNLOCK CONTROL

When door lock and unlock button of the Intelligent Key is pressed, lock signal or unlock signal is transmitted from Intelligent Key to Intelligent Key unit.

When Intelligent Key unit receives the door lock and unlock signal, it operates door lock actuator.

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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SUPER LOCK OPERATION

Super lock provides a higher anti-theft performance than a conventional power door lock system. The super lock system is controlled by BCM.

When super lock is set, all doors can not be opened from the inside.

ANTI-HIJACK MODE

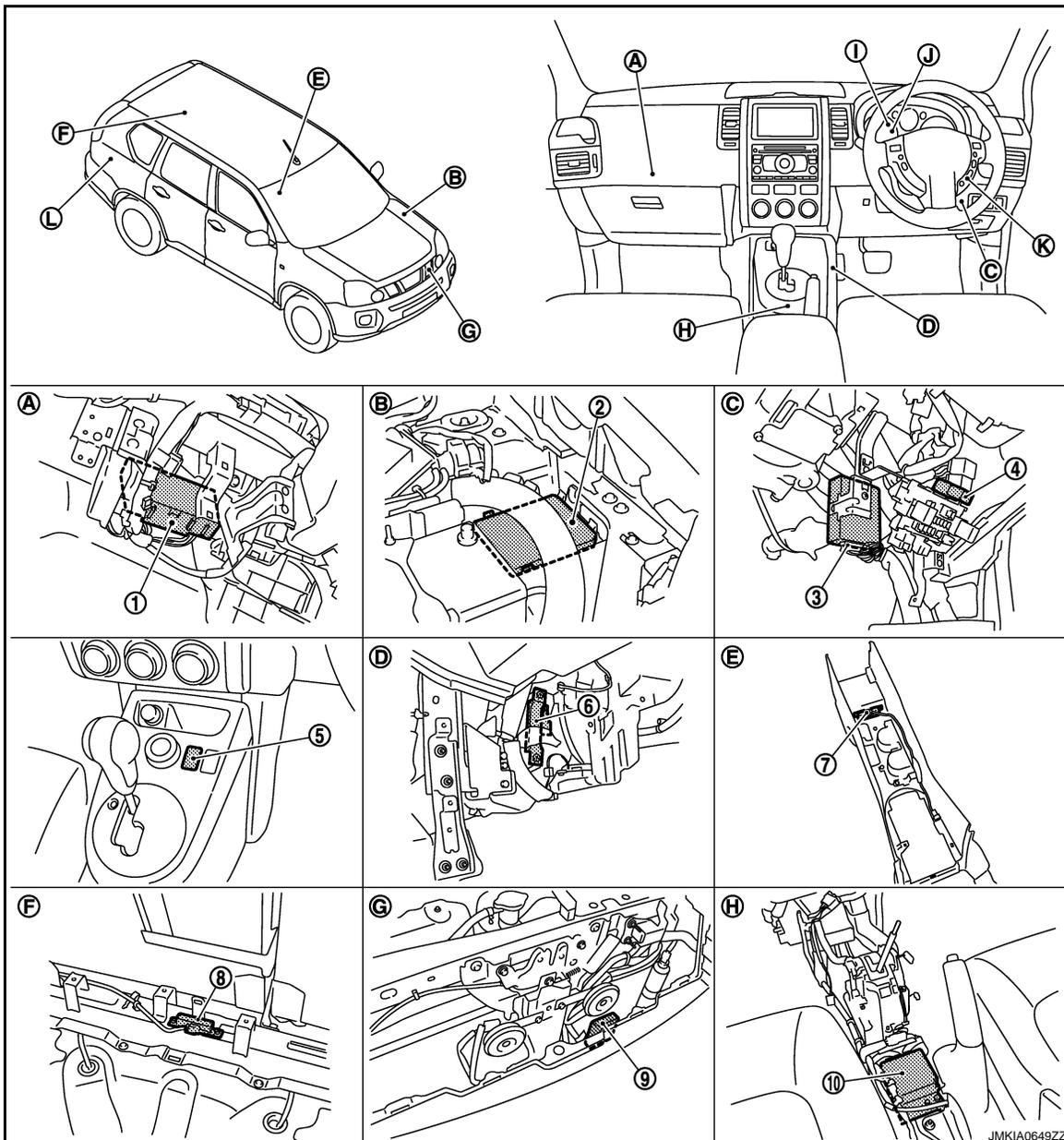
When door lock is unlocked, pressing LOCK button on keyfob once will lock all doors. When door lock is locked, pressing UNLOCK button on keyfob will unlock driver side door. Pressing UNLOCK button on keyfob second time within 5 seconds from the first time will unlock all doors and back door can be opened with back door opener switch.

NOTE:

Anti-hijack mode can be set to ON or OFF with CONSULT-III. For the setting information, refer to [DLK-625](#), "[MULTIREMOTE ENT : CONSULT-III Function \(BCM - MULTIREMOTE ENT\)](#)".

INTELLIGENT KEY : Component Parts Location

INFOID:000000001393925

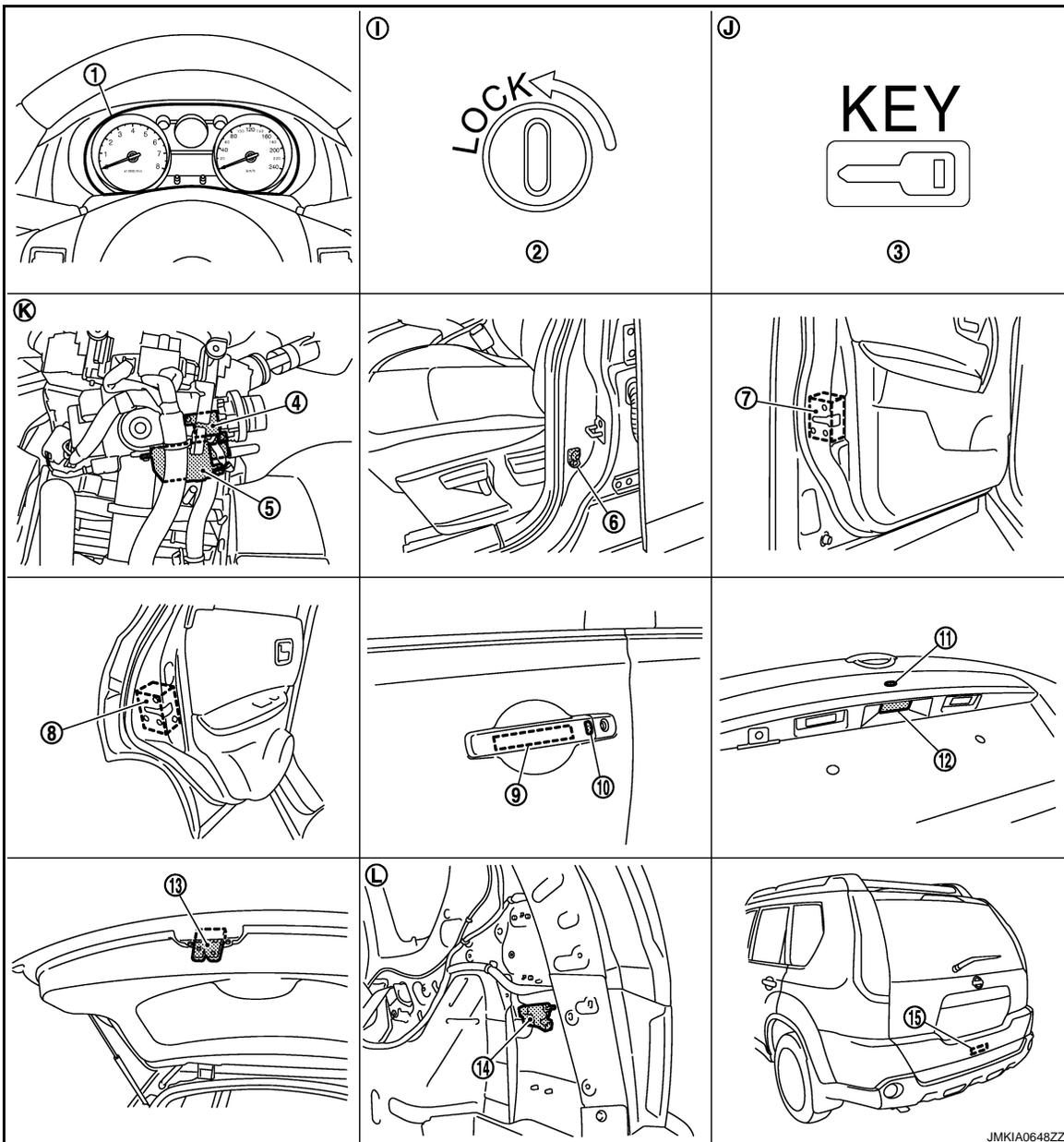


DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

- | | | | |
|--|--|---|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 | A |
| 4. Passenger side anti-hijack relay
M90 | 5. Door lock and unlock switch
M89 | 6. Inside key antenna (instrument
center)
M56 | B |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 | C |
| 10. Air bag diagnosis sensor unit
M59 | | | D |
| A. Over the glove box | B. Engine room LH | C. Over the instrument lower panel
(driver side) | D |
| D. View with lower instrument cover re-
moved | E. View with center console removed | F. View with luggage floor spacer re-
moved | E |
| G. View with front bumper fascia removed | H. View with center console removed | | F |



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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

- | | | |
|---|--|--|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key lock solenoid (key lock solenoid)
M25 | 6. Front door switch (passenger side)
B27 |
| 7. Front door lock actuator (passenger side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door request switch (driver side)
D10 |
| 10. Out side key antenna and front door request switch (driver side)
D10 | 11. Back door opener switch assembly (request switch)
D187 | 12. Back door opener switch assembly (opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column cover removed |
| L. Luggage side lower finisher (RH) removed. | | |

INTELLIGENT KEY : Component Description

INFOID:000000001280721

Item	Function
Intelligent Key unit	Controls the door lock/unlock operation with BCM.
BCM	Controls the door lock/unlock operation with Intelligent Key unit.
Door switch	Detects door state (open or close).
Key switch	Detects mechanical key is inserted into ignition key cylinder.
Outside key antenna	Detects Intelligent Key is in detection area of outside key antenna.
Inside key antenna	Detects Intelligent Key is in detection area of inside key antenna.
Intelligent Key	Transmits key ID to Intelligent Key unit when lock/unlock button is pressed.
Passenger side anti-hijack relay	Controls the circuit of door lock actuator (passenger side, rear LH/RH).
Door lock actuator	Receives lock/unlock signal from BCM and lock and unlock each door.
Super lock actuator	Receives super lock set/release signal from BCM and set/release super lock system.

DOOR REQUEST SWITCH

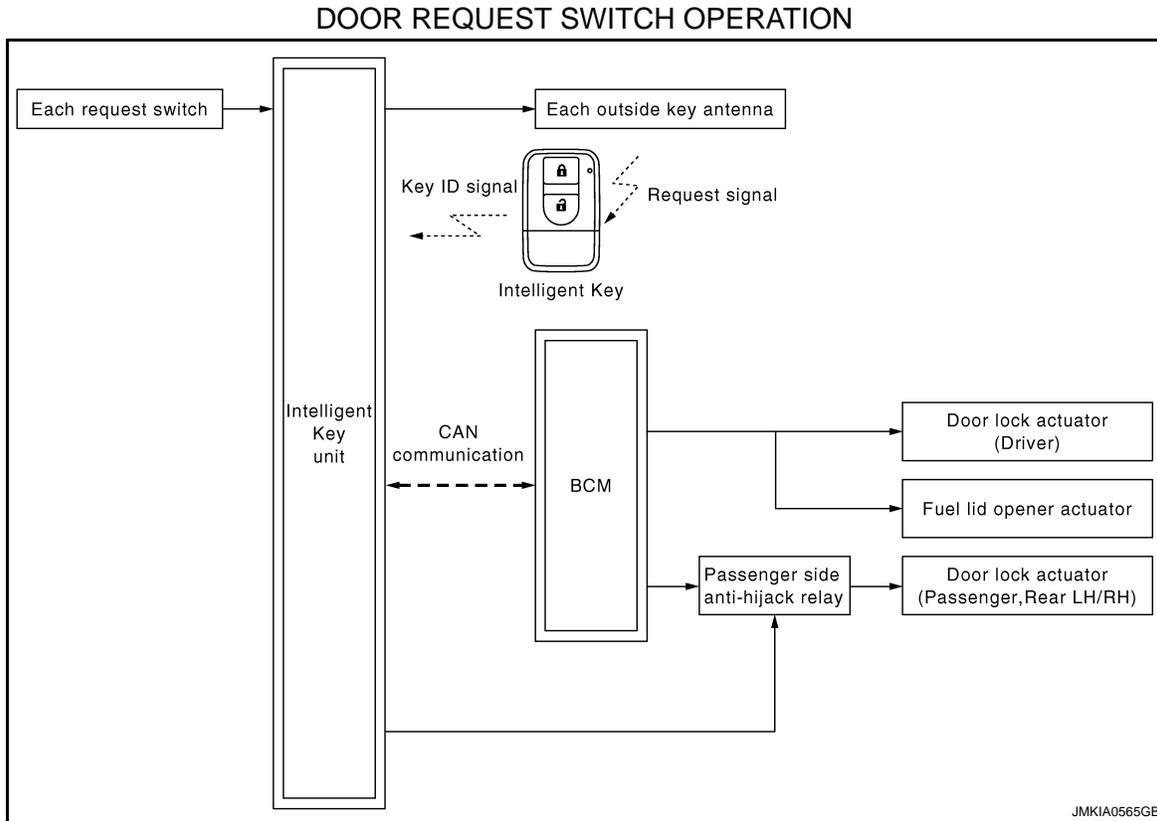
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR REQUEST SWITCH : System Diagram

INFOID:000000001280722



DOOR REQUEST SWITCH : System Description

INFOID:000000001280723

DOOR REQUEST SWITCH OPERATION

Only when pressing the request switch, it is possible to lock and unlock the door by carrying the Intelligent Key. The Intelligent Key system is a system that makes it possible to lock and unlock the door by carrying the Intelligent Key, which operates based on the results of electronic ID verification using two-way communications between the Intelligent Key and the vehicle (Intelligent Key unit).

This function can be set to OFF with CONSULT-III. For the setting information, refer to [DLK-349. "CONSULT-III Function \(INTELLIGENT KEY\)".](#)

CAUTION:

The driver should always carry the Intelligent Key

OPERATION CONDITION

If the following conditions are not satisfied, door lock and unlock operation is not performed even if the request switch is operated.

Each request switch operation	Operation condition
Lock operation	<ul style="list-style-type: none"> • All doors are closed • Key switch is OFF (Key is removed from ignition key cylinder) • Ignition knob is OFF or LOCK position • No Intelligent Keys are inside the vehicle • Intelligent Key is within outside key antenna detection area
Unlock Operation	<ul style="list-style-type: none"> • Key switch is OFF (Key is removed from ignition key cylinder) • Ignition knob is OFF or lock position (Ignition switch is not pressed) • Intelligent Key is not inside the vehicle* • Intelligent Key is within outside key antenna detection area

*: Even with a registered Intelligent Key remaining inside the vehicle, door locks can be unlocked from outside of the vehicle with a spare Intelligent Key as long as key IDs are different.

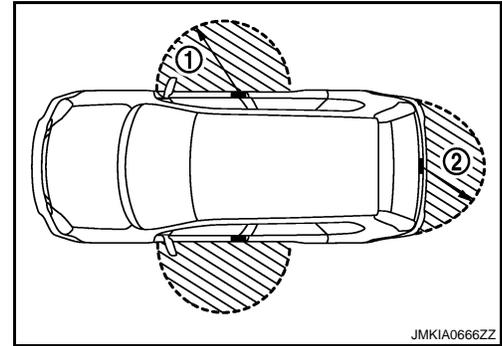
OUTSIDE KEY ANTENNA DETECTION AREA

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

The outside key antenna detection area of door lock/unlock function is in the range of approximately 80 cm (31.50 in) surrounding the driver and passenger door handles (1) and the back door request switch (2). However, this operating range depends on the ambient conditions.



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DOOR LOCK AND UNLOCK CONTROL

When the Intelligent Key detects that door request switch is pressed, it starts corresponding with outside key antenna (request switch pressed door). Then, the Intelligent Key is checked to be near the door.

If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the Intelligent Key unit. Intelligent Key unit receives the key ID signal and compares it with the registered key ID. Intelligent Key unit sends door lock and unlock signal to BCM via CAN communication.

SUPER LOCK OPERATION

Super lock provides a higher anti-theft performance than a conventional power door lock system. The super lock system is controlled by BCM and Intelligent Key unit.

When super lock is set, all doors cannot be opened from inside.

ANTI-HIJACK MODE

When door lock is unlocked, pressing LOCK button on keyfob once will lock all doors. When door lock is locked, pressing UNLOCK button on keyfob will unlock driver side door. Pressing UNLOCK button on keyfob second time within 5 seconds from the first time will unlock back door only and back door can be opened with back door opener switch. Pressing back door opener switch a second time within 5 seconds will unlock all doors.

NOTE:

Anti-hijack mode can be set to ON or OFF with CONSULT-III. For the setting information, refer to [DLK-349](#), "[CONSULT-III Function \(INTELLIGENT KEY\)](#)".

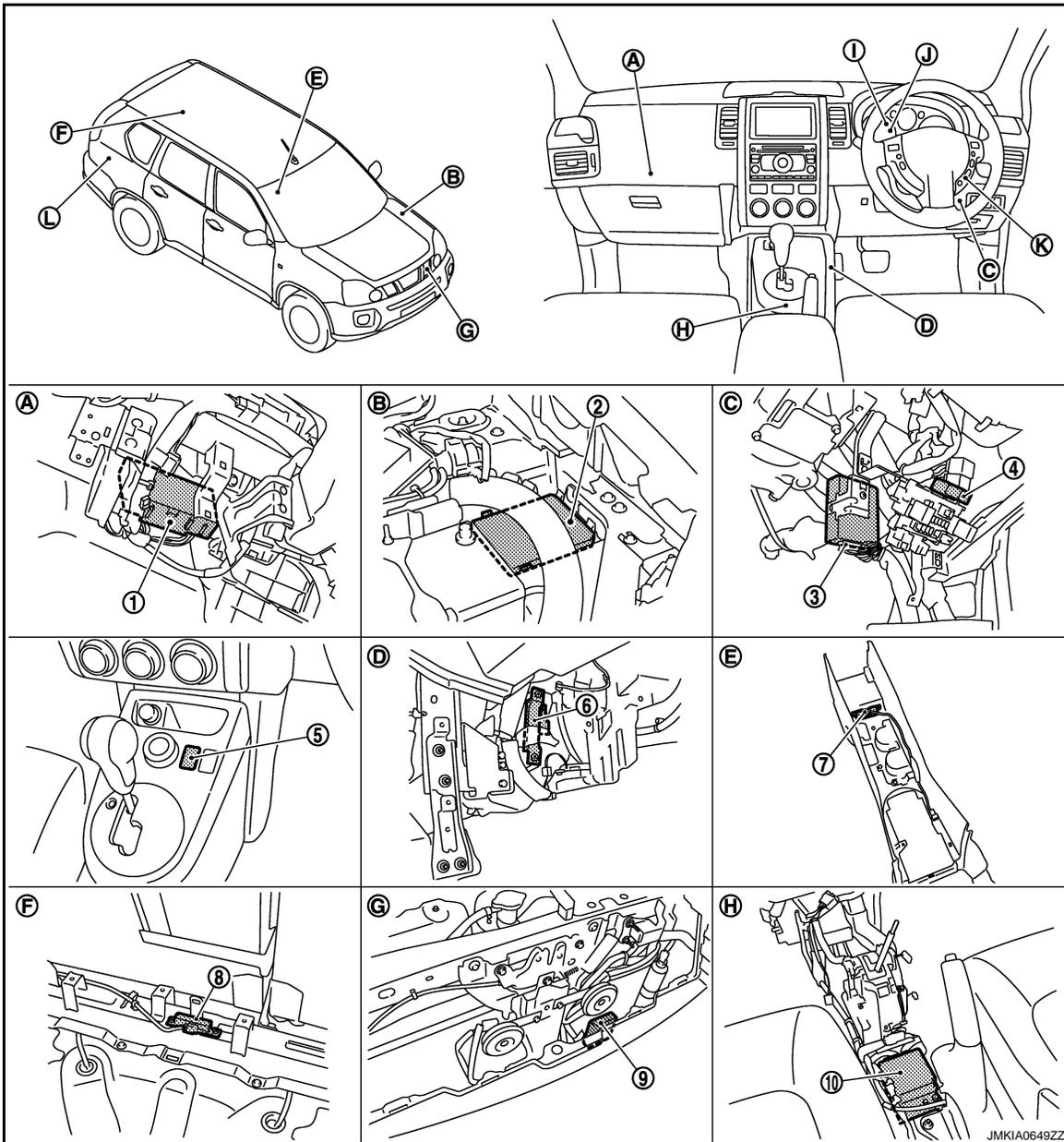
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR REQUEST SWITCH : Component Parts Location

INFOID:000000001393926



- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Door lock and unlock switch
M89 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Engine room LH | C. Over the instrument lower panel
(driver side) |
| D. View with lower instrument cover re-
moved | E. View with center console removed | F. View with luggage floor spacer re-
moved |
| G. View with front bumper fascia removed | H. View with center console removed | |

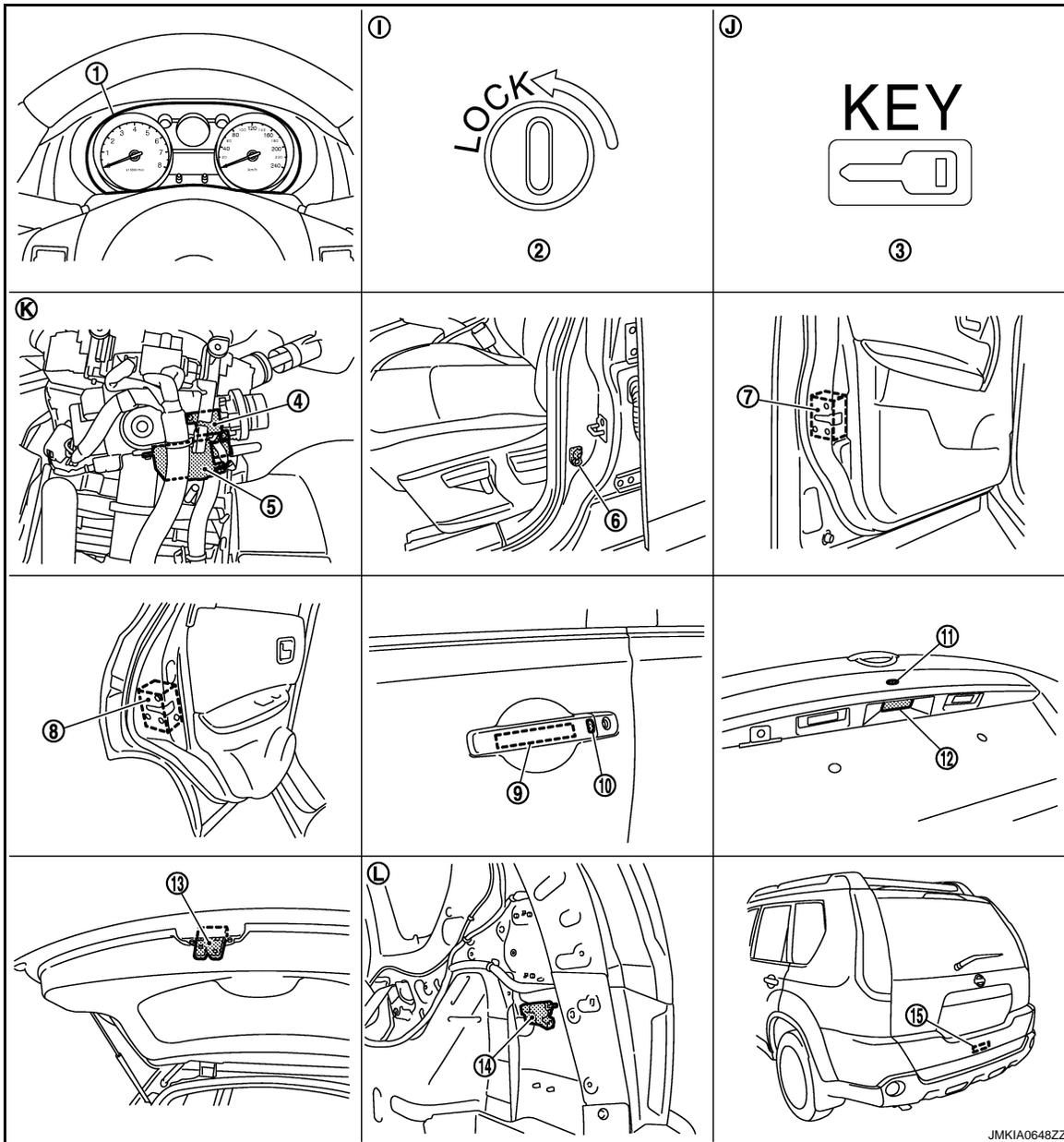
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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]



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- | | | |
|--|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (passenger side)
B27 |
| 7. Front door lock actuator (passenger
side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column
removed |
| L. Luggage side lower finisher (RH) re-
moved. | | |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR REQUEST SWITCH : Component Description

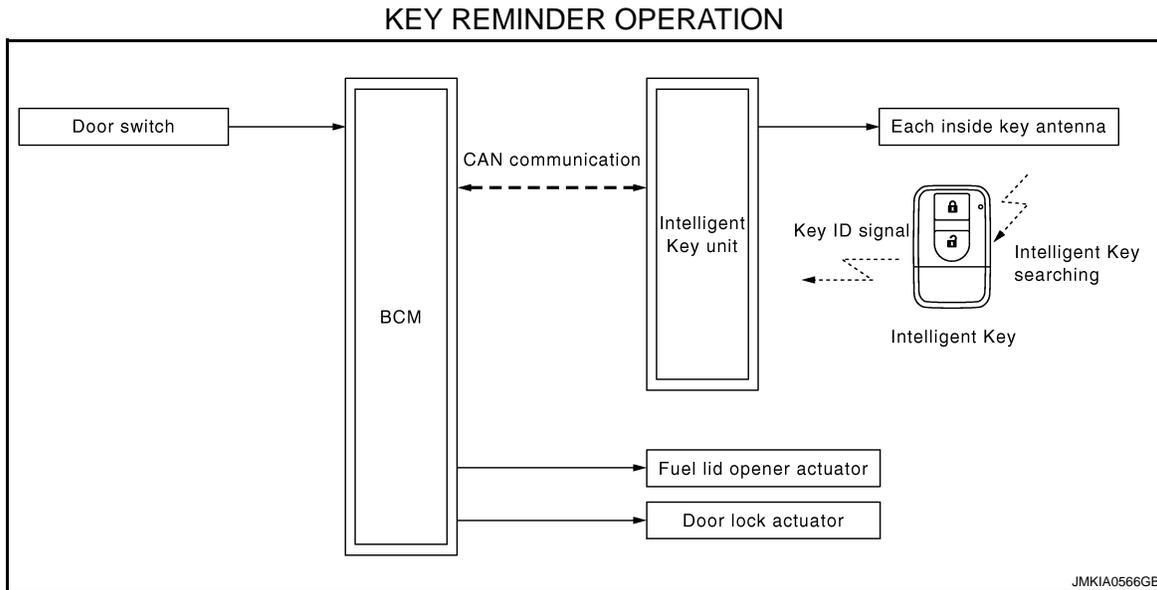
INFOID:000000001280725

Item	Function
Intelligent Key unit	Controls the door lock function with BCM.
BCM	Controls the door lock function with Intelligent Key unit.
Door request switch	Transmits operation signal (lock and unlock) to Intelligent Key unit.
Door switch	Detects door state (open or close).
Key switch	Detects mechanical key is inserted into ignition key cylinder.
Ignition knob switch	Detects ignition knob state (push or release).
Outside key antenna	Detects Intelligent Key is in detection area of outside key antenna.
Inside key antenna	Detects Intelligent Key is in detection area of inside key antenna.
Intelligent Key	Transmits key ID to Intelligent Key unit when request signal is received from outside key antenna.
Passenger side anti-hijack relay	Controls the circuit of door lock actuator (passenger side, rear LH/RH).
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.
Super lock actuator	Receives super lock set/release signal from BCM and sets/releases super lock system.

KEY REMINDER

KEY REMINDER : System Diagram

INFOID:000000001280726



KEY REMINDER : System Description

INFOID:000000001280727

KEY REMINDER OPERATION

Key reminder have the following 2 functions.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

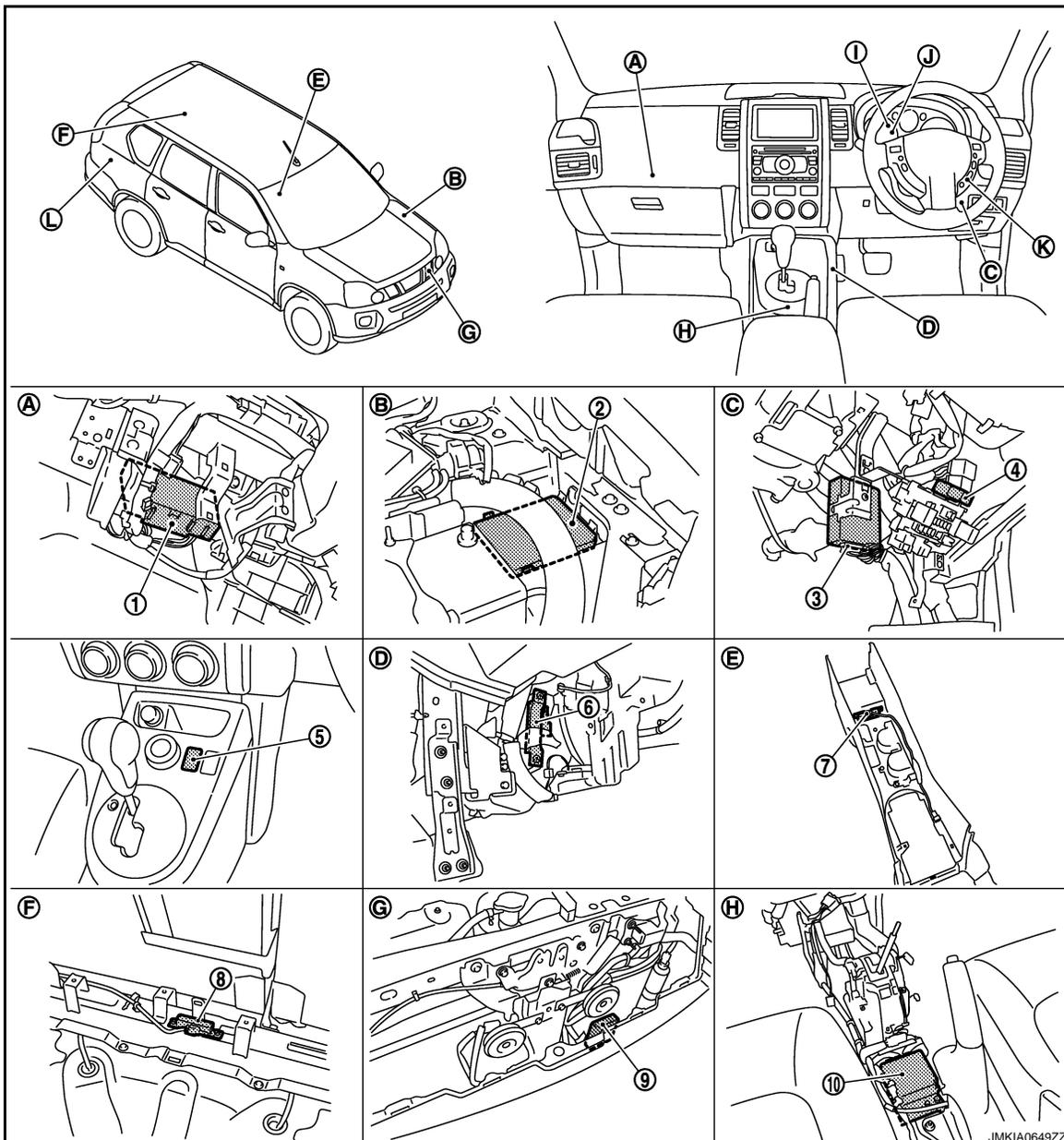
Operation	Operation condition	Operation
Driver door close	Right after driver side door is closed under the following conditions <ul style="list-style-type: none"> • Door lock operation • Driver side door is opened • Driver side door is in unlock state. 	All doors unlock
Any door open to all door close	Right after all doors are closed under the following conditions <ul style="list-style-type: none"> • Intelligent Key is inside the vehicle • Any door is opened • All doors are locked by door lock and unlock switch. 	<ul style="list-style-type: none"> • All doors unlock • Honk Intelligent Key warning buzzer

CAUTION:

The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key can not be detected, and this function will not operate when the Intelligent Key is on the instrument panel, rear parcel shelf or in the glove box. Also, this system some times does not operate if the Intelligent Key is in the door pocket for the open door.

KEY REMINDER : Component Parts Location

INFOID:000000001393927

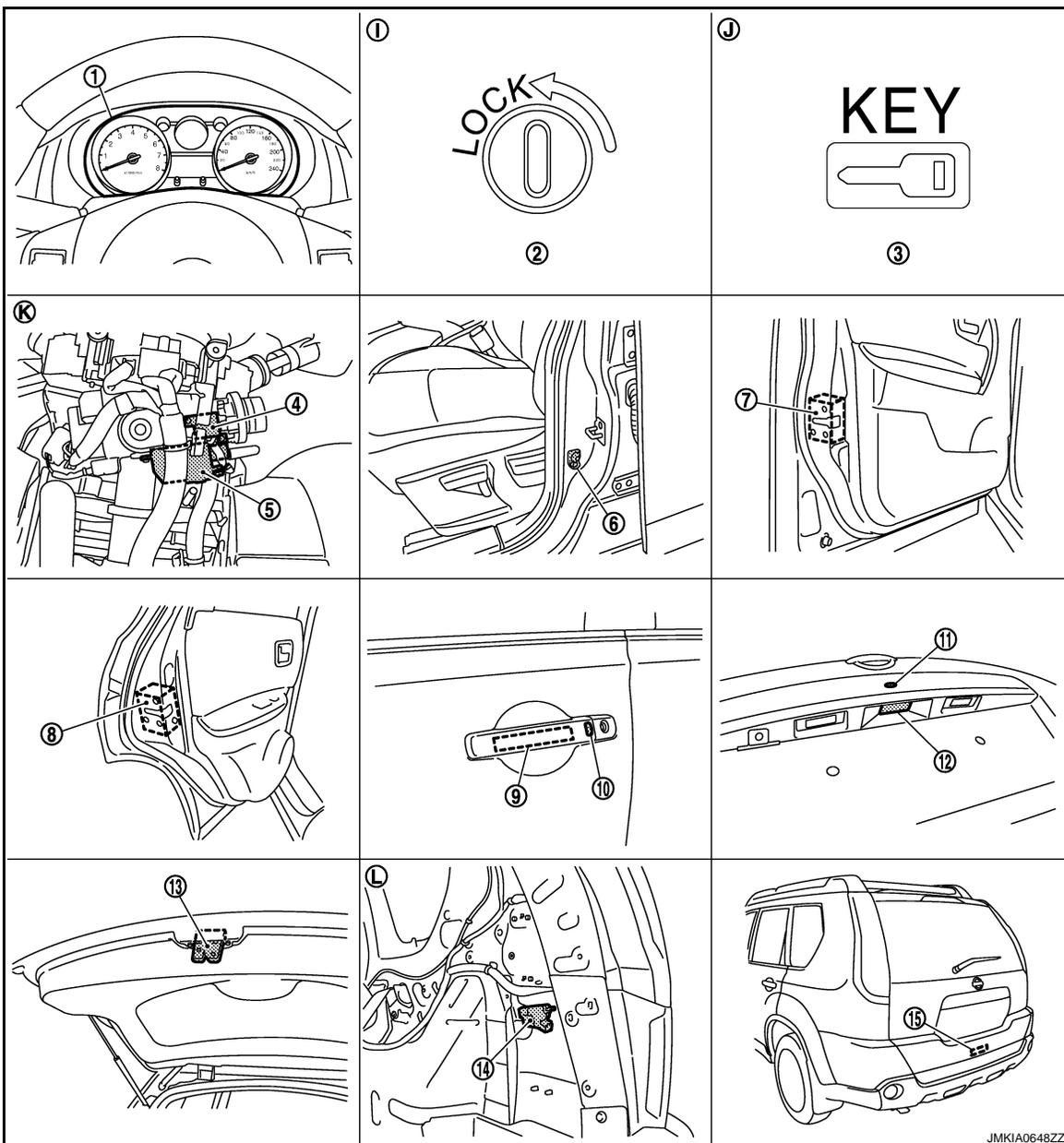


DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

- | | | | |
|--|--|---|--|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 | A |
| 4. Passenger side anti-hijack relay
M90 | 5. Door lock and unlock switch
M89 | 6. Inside key antenna (instrument
center)
M56 | B |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 | C |
| 10. Air bag diagnosis sensor unit
M59 | | | D |
| A. Over the glove box | B. Engine room LH | C. Over the instrument lower panel
(driver side) | D. View with lower instrument cover re-
moved |
| D. View with lower instrument cover re-
moved | E. View with center console removed | F. View with luggage floor spacer re-
moved | E |
| G. View with front bumper fascia removed | H. View with center console removed | | F |



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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

- | | | |
|---|--|--|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key lock solenoid (key lock solenoid)
M25 | 6. Front door switch (passenger side)
B27 |
| 7. Front door lock actuator (passenger side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door request switch (driver side)
D10 |
| 10. Out side key antenna and front door request switch (driver side)
D10 | 11. Back door opener switch assembly (request switch)
D187 | 12. Back door opener switch assembly (opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column cover removed |
| L. Luggage side lower finisher (RH) removed. | | |

KEY REMINDER : Component Description

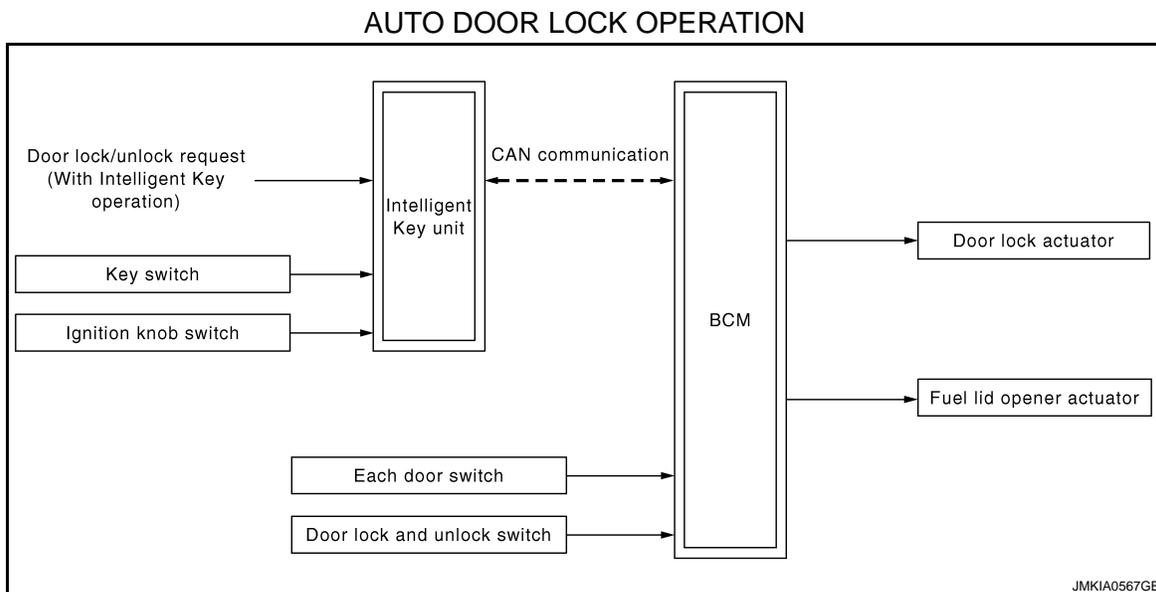
INFOID:000000001280729

Item	Function
Intelligent Key unit	Controls the door lock function with BCM.
BCM	Controls the door lock and unlock operation with Intelligent Key unit.
Door switch	Detects door state (open or close).
Inside key antenna	Detects Intelligent Key is in detection area of inside key antenna.
Intelligent Key	Transmits key ID to Intelligent Key unit when Intelligent Key searching.
Door lock actuator	Receives lock and unlock signal from BCM and locks/unlocks each door.

AUTO DOOR LOCK

AUTO DOOR LOCK : System Diagram

INFOID:000000001280730



AUTO DOOR LOCK : System Description

INFOID:000000001280731

AUTO RELOCK OPERATION

When all door is locked then doors are unlocked with Intelligent Key, door request switch or BCM does not receive the following signal within 2 minutes*1, all doors are automatically locked.

DOOR LOCK FUNCTION

[WITH I-KEY & SUPER LOCK]

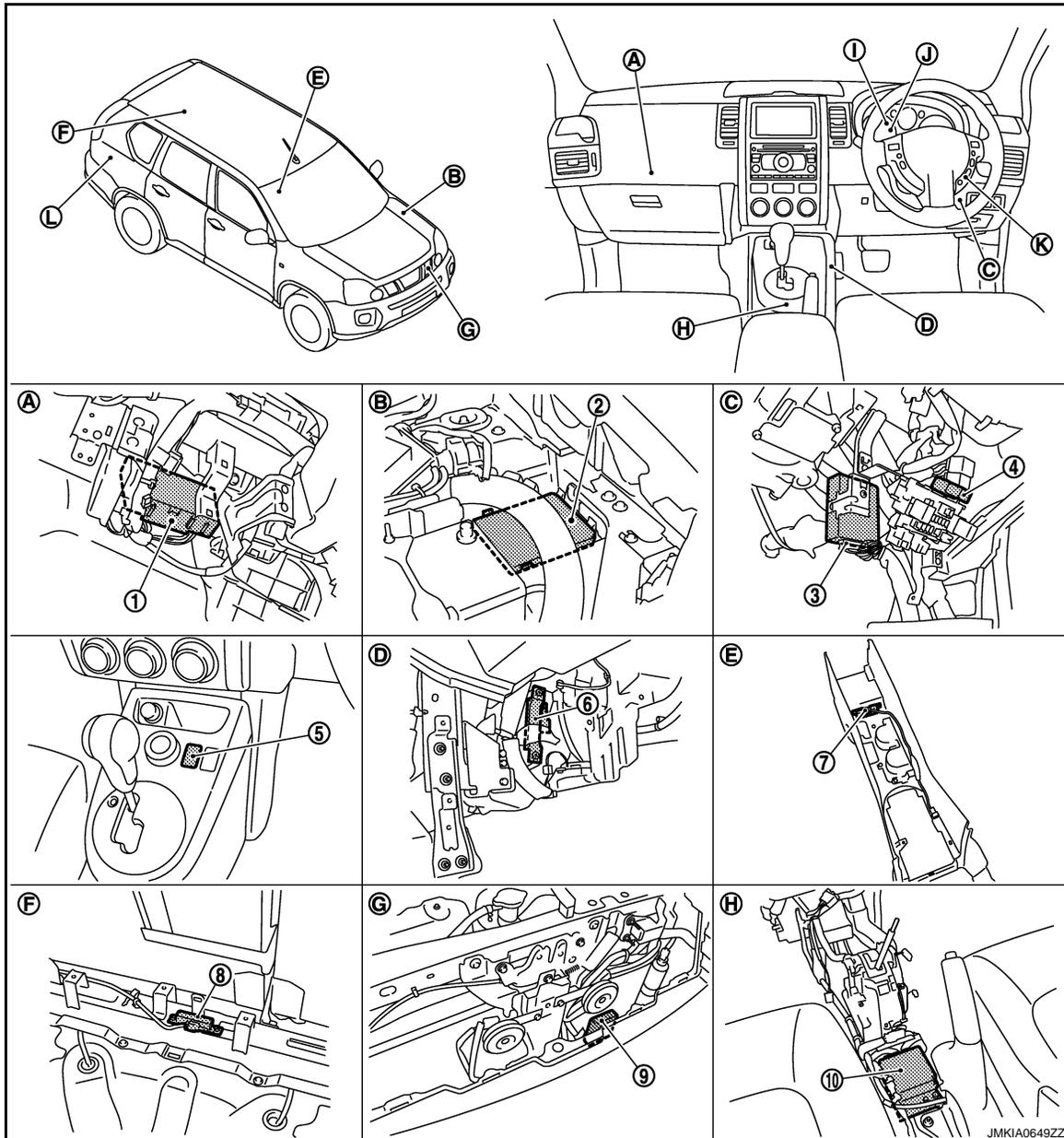
< FUNCTION DIAGNOSIS >

- Any door is opened.
- Ignition knob is pressed.
- Ignition key is inserted into ignition key cylinder.
- Door is locked with Intelligent Key.
- Door is locked/unlocked with door lock and unlock switch.

*1: Auto door lock operation mode can be changed with CONSULT-III. Refer to [DLK-349, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

AUTO DOOR LOCK : Component Parts Location

INFOID:000000001393928



- | | | |
|--|--|--|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Door lock and unlock switch
M89 | 6. Inside key antenna (instrument center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |

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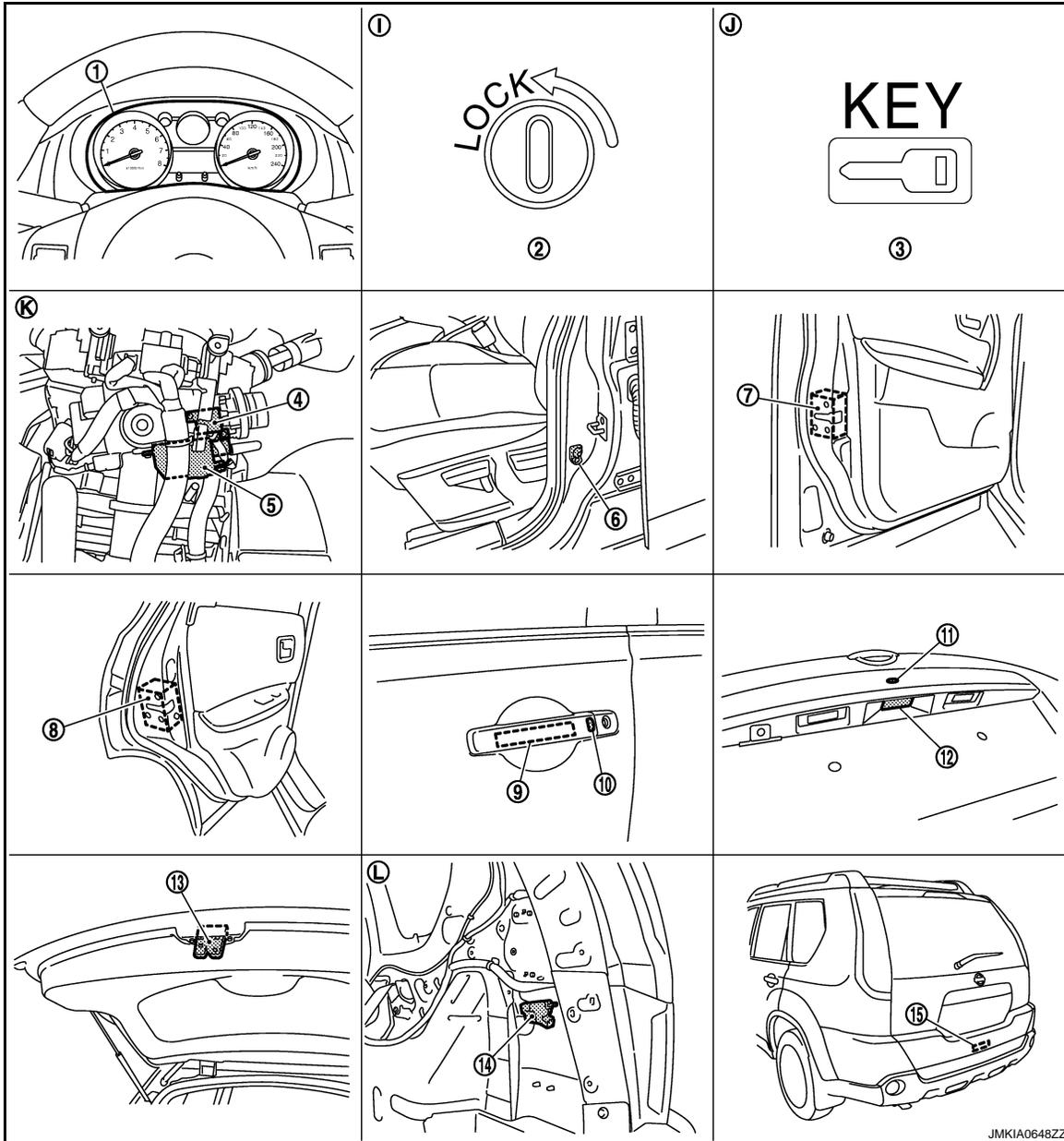
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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

- | | | |
|---|-------------------------------------|--|
| A. Over the glove box | B. Engine room LH | C. Over the instrument lower panel (driver side) |
| D. View with lower instrument cover removed | E. View with center console removed | F. View with luggage floor spacer removed |
| G. View with front bumper fascia removed | H. View with center console removed | |



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|---|--|--|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key lock solenoid (key lock solenoid)
M25 | 6. Front door switch (passenger side)
B27 |
| 7. Front door lock actuator (passenger side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door request switch (driver side)
D10 |
| 10. Out side key antenna and front door request switch (driver side)
D10 | 11. Back door opener switch assembly (request switch)
D187 | 12. Back door opener switch assembly (opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

- I. Inside the combination meter
- J. Inside the combination meter
- K. View with steering column cover removed
- L. Luggage side lower finisher (RH) removed.

AUTO DOOR LOCK : Component Description

INFOID:000000001280733

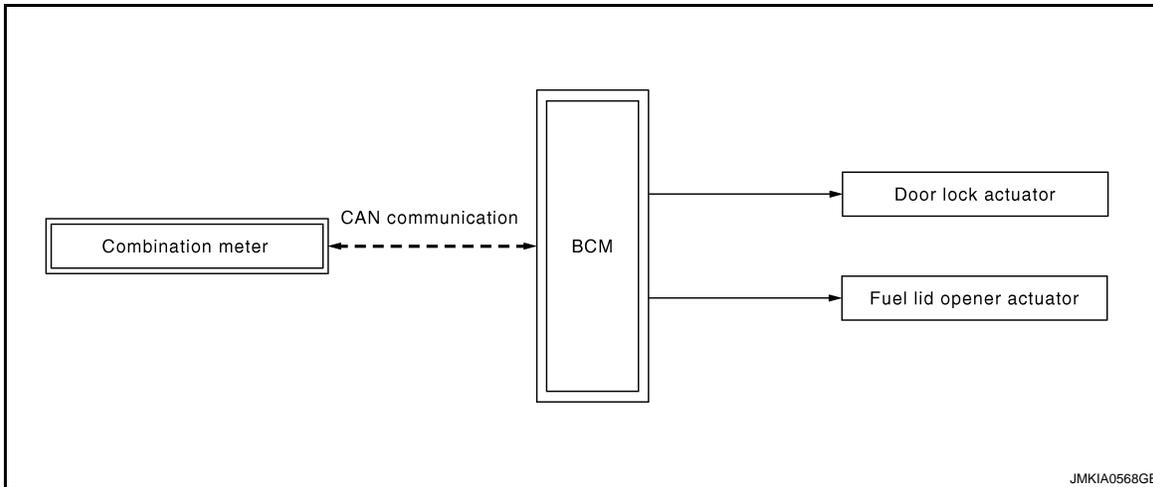
Item	Function
Intelligent Key unit	Controls the door lock function with BCM.
BCM	Controls the door lock function with Intelligent Key unit.
Door switch	Detects door state (open or close).
Key switch	Detects mechanical key is inserted into ignition key cylinder.
Ignition knob switch	Detects ignition knob state (push or release).
Door lock and unlock switch	Transmits door lock and unlock signal to BCM.
Door lock actuator	Receives lock and unlock signal from BCM and lock and unlock each door.

VEHICLE SPEED SENSING AUTO DOOR LOCK

VEHICLE SPEED SENSING AUTO DOOR LOCK : System Diagram

INFOID:000000001280734

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION



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VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description

INFOID:000000001280735

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION

When the vehicle speed exceeds more than 25km/h (16 MPH), all doors are automatically locked. BCM receive the vehicle speed signal from combination meter via CAN communication.

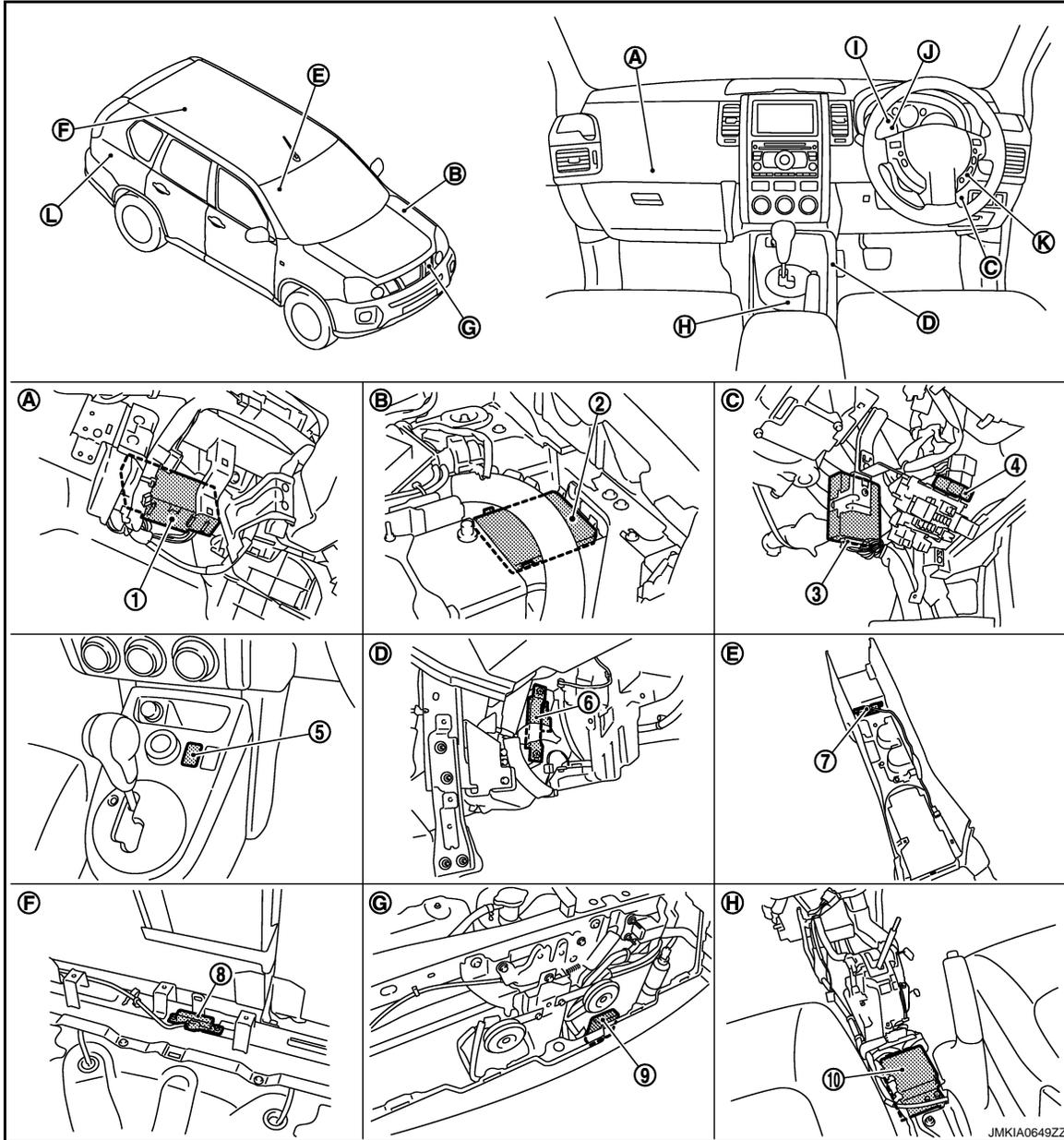
DOOR LOCK FUNCTION

[WITH I-KEY & SUPER LOCK]

< FUNCTION DIAGNOSIS >

VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Parts Location

INFOID:000000001393929

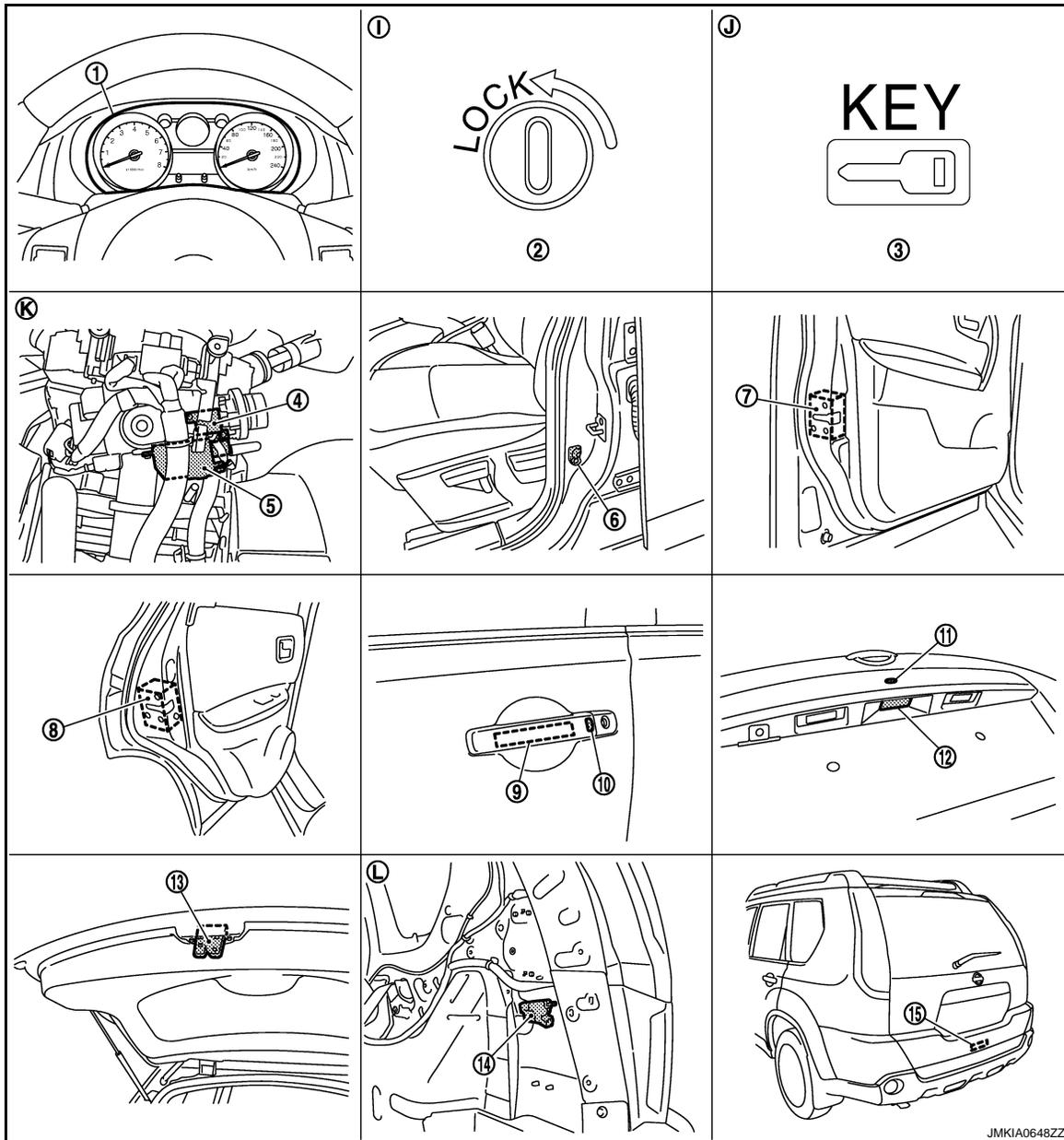


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|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Door lock and unlock switch
M89 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Engine room LH | C. Over the instrument lower panel
(driver side) |
| D. View with lower instrument cover re-
moved | E. View with center console removed | F. View with luggage floor spacer re-
moved |
| G. View with front bumper fascia removed | H. View with center console removed | |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]



- | | | |
|--|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (passenger side)
B27 |
| 7. Front door lock actuator (passenger
side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column cover re-
moved |
| L. Luggage side lower finisher (RH) re-
moved. | | |

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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Description

INFOID:000000001280737

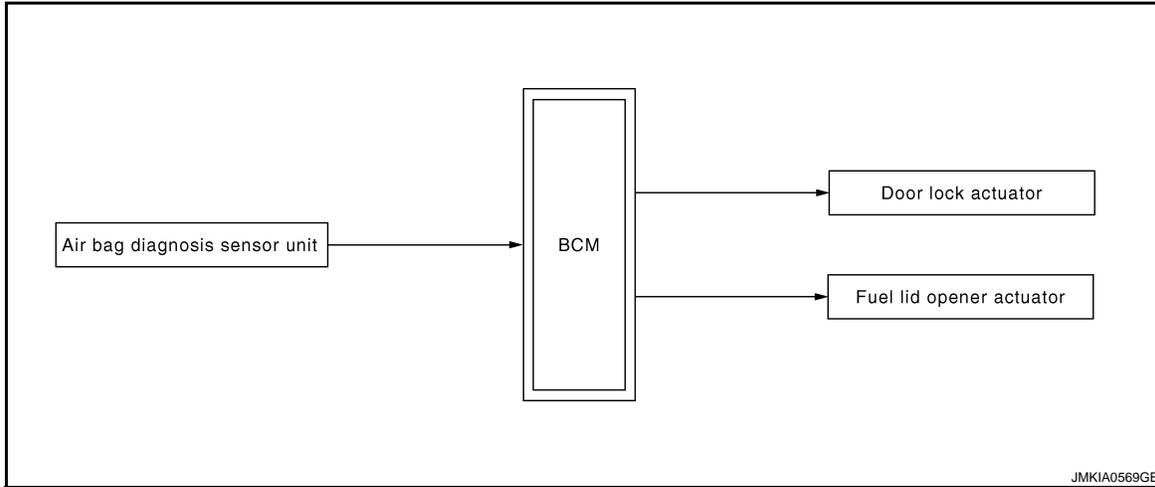
Item	Function
BCM	Controls the door lock function.
Combination meter	Transmits vehicle speed signal to BCM via CAN communication.
Door lock actuator	Receives door lock and unlock signal from BCM and lock and unlock each door.

AIR BAG INTERLOCK UNLOCK

AIR BAG INTERLOCK UNLOCK : System Diagram

INFOID:000000001280738

AIR BAG INTERLOCK UNLOCK OPERATION



AIR BAG INTERLOCK UNLOCK : System Description

INFOID:000000001280739

AIR BAG INTERLOCK UNLOCK OPERATION

When ignition switch is ON and BCM receive air bag deployment signal, it operates automatically to unlock all doors. Air bag diagnosis sensor unit sends the air bag deployment signal to BCM.

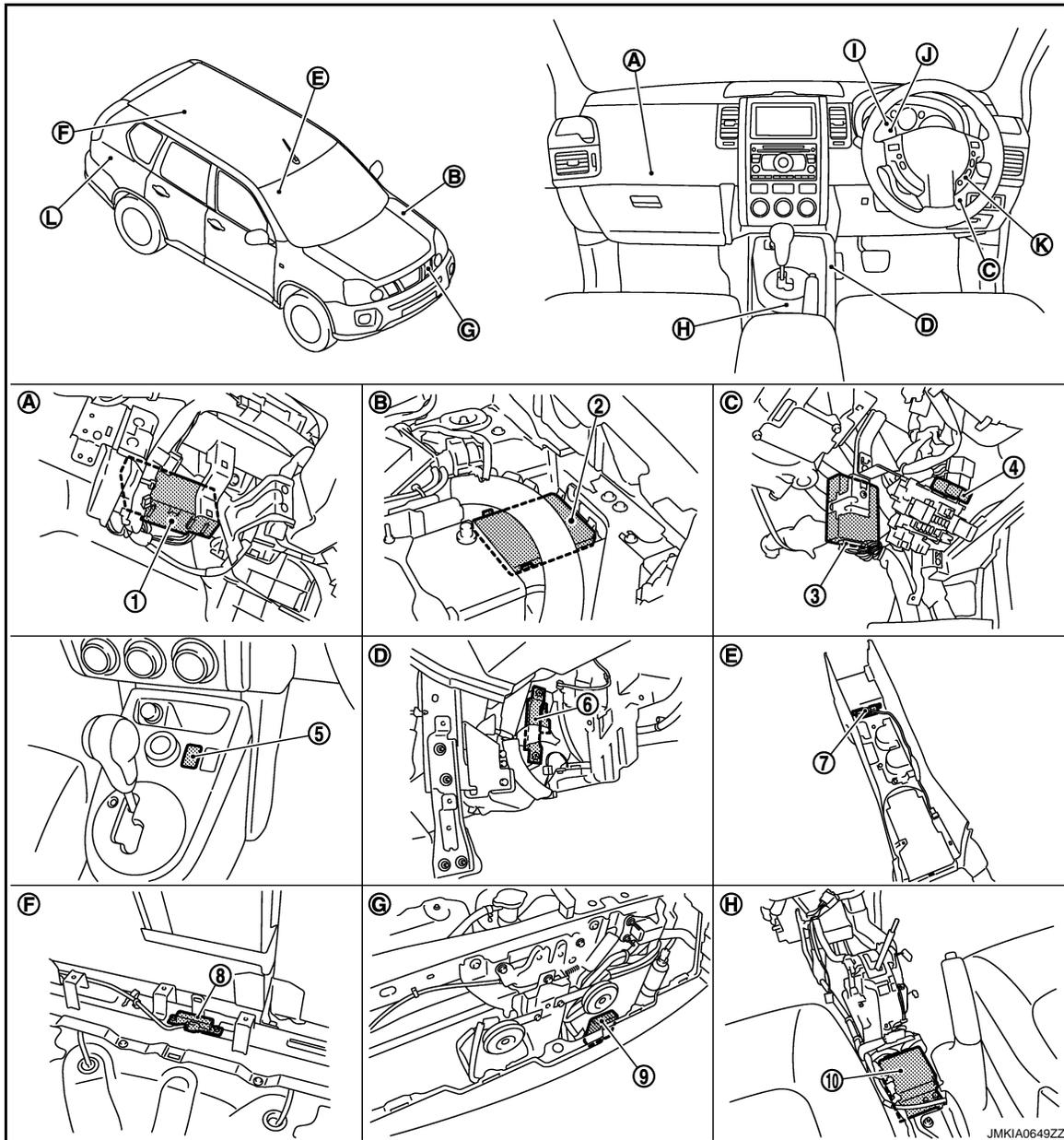
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

AIR BAG INTERLOCK UNLOCK : Component Parts Location

INFOID:000000001393930



- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Door lock and unlock switch
M89 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Engine room LH | C. Over the instrument lower panel
(driver side) |
| D. View with lower instrument cover re-
moved | E. View with center console removed | F. View with luggage floor spacer re-
moved |
| G. View with front bumper fascia removed | H. View with center console removed | |

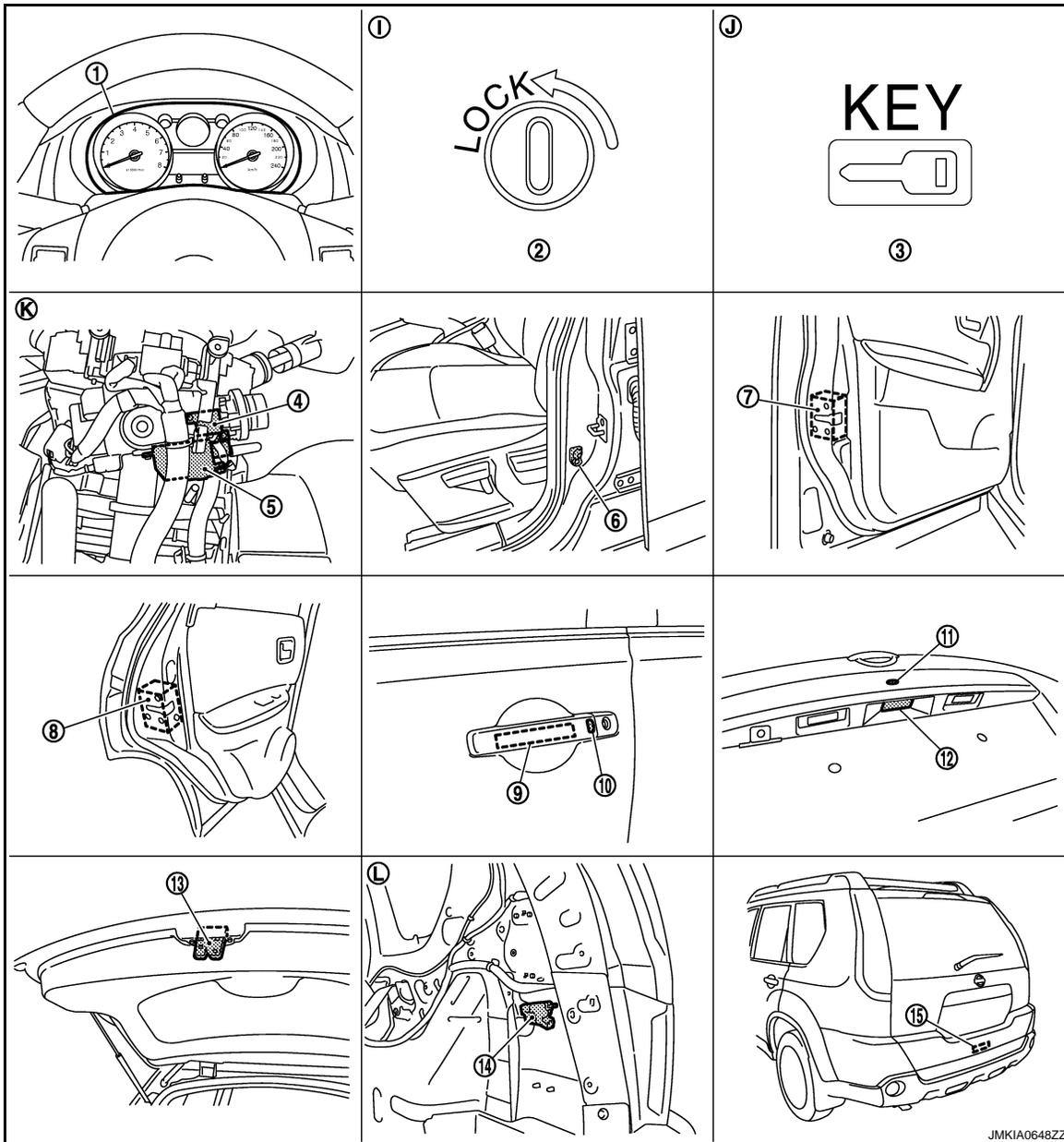
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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]



- | | | |
|--|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (passenger side)
B27 |
| 7. Front door lock actuator (passenger
side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column cover re-
moved |
| L. Luggage side lower finisher (RH) re-
moved. | | |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

AIR BAG INTERLOCK UNLOCK : Component Description

INFOID:000000001280741

Item	Function
BCM	Controls the door lock function.
Air bag diagnosis sensor unit	Transmits air bag deployment signal to BCM.
Door lock actuator	Receives door lock/unlock signal from BCM and lock and unlock each door.

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BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

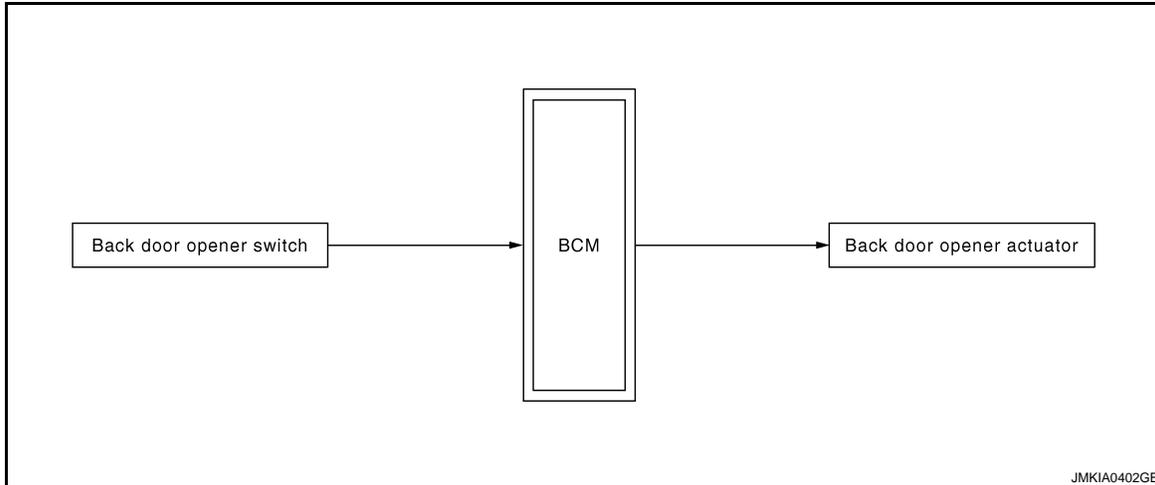
BACK DOOR OPENER FUNCTION

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : System Diagram

INFOID:000000001280742

BACK DOOR OPENER OPERATION



BACK DOOR OPENER SWITCH : System Description

INFOID:000000001280743

BACK DOOR OPENER OPERATION

When back door opener switch is pressed, BCM opens back door opener actuator.

NOTE:

Back door opener actuator is not for locking the back door. The function is only to open the back door.

OPERATION CONDITION

If the following conditions are not satisfied, back door opener operation is not performed.

Back door opener switch operation	Operation condition
Back door open	<ul style="list-style-type: none">• Vehicle speed is less than 5 km/h (3 MPH).• All doors are unlocked.

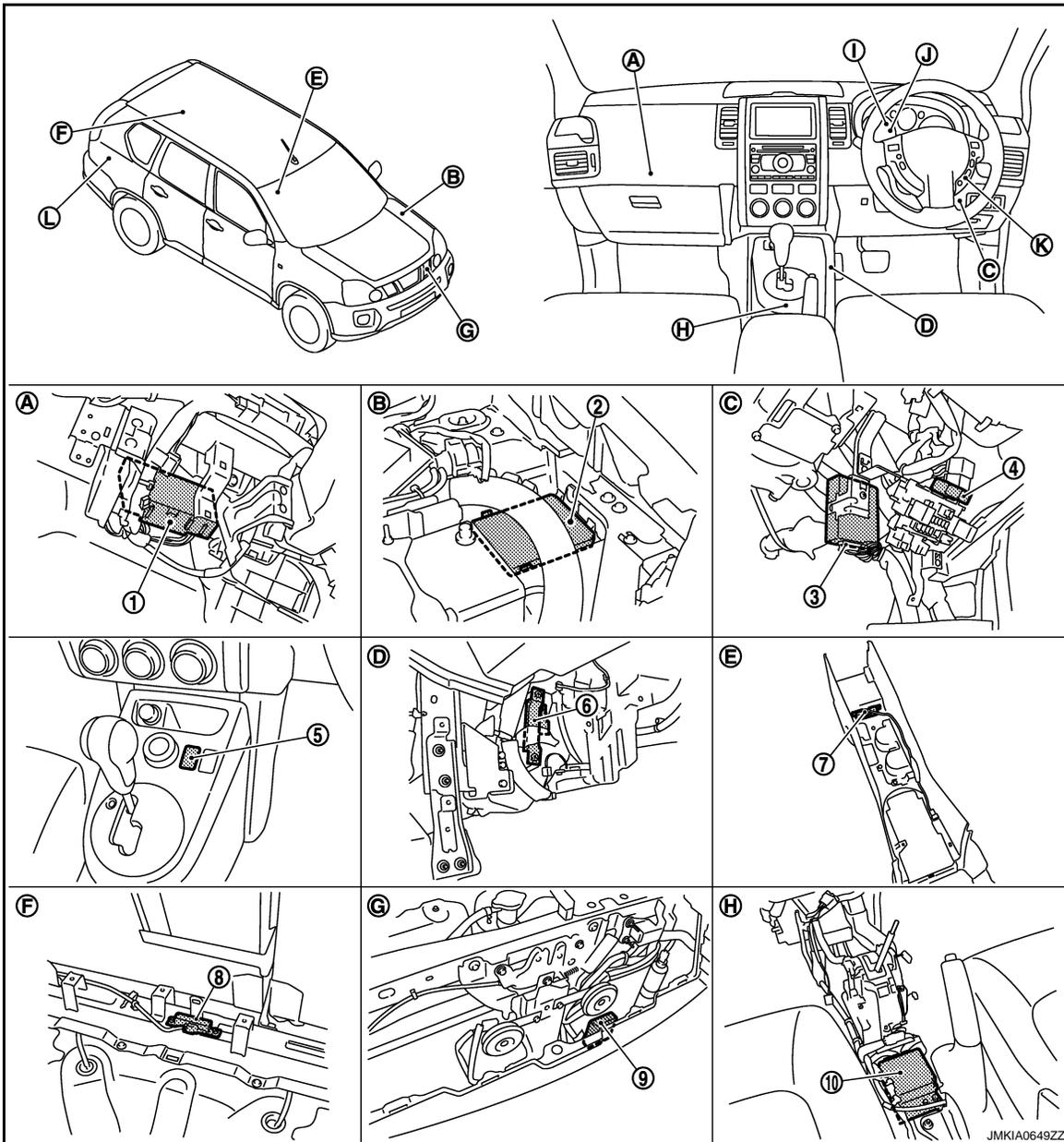
BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH : Component Parts Location

INFOID:000000001393931



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|---|--|--|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Door lock and unlock switch
M89 | 6. Inside key antenna (instrument center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Engine room LH | C. Over the instrument lower panel (driver side) |
| D. View with lower instrument cover removed | E. View with center console removed | F. View with luggage floor spacer removed |
| G. View with front bumper fascia removed | H. View with center console removed | |

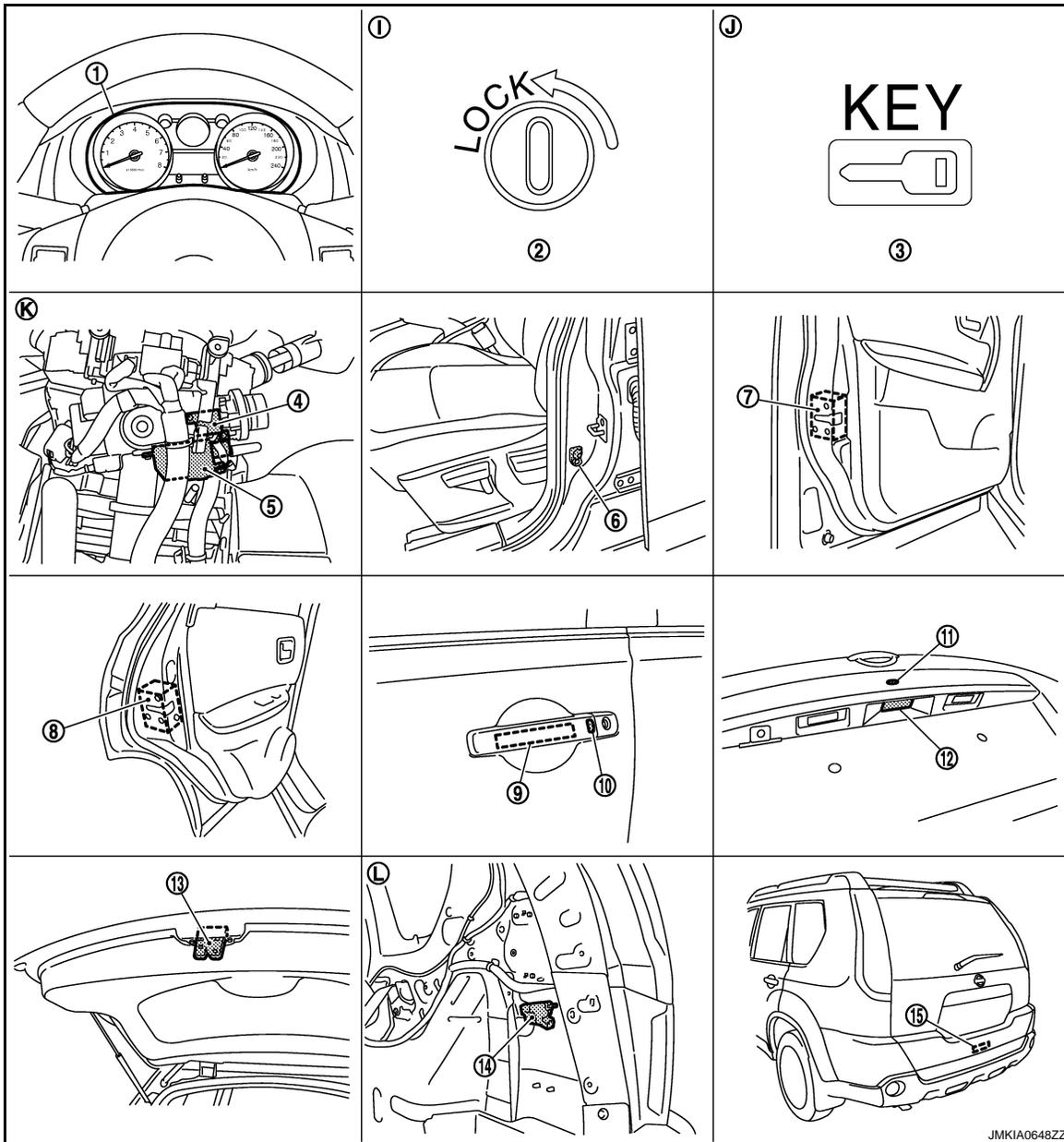
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BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]



- | | | |
|--|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (passenger side)
B27 |
| 7. Front door lock actuator (passenger
side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column re-
moved |
| L. Luggage side lower finisher (RH) re-
moved. | | |

BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH : Component Description

INFOID:000000001280745

Item	Function
BCM	Controls the back door opener function.
Back door opener switch	Transmits back door opener switch operation signal to BCM.
Back door opener actuator	Opens the back door with the back door open signal from BCM.
Combination meter	Transmits vehicle speed signal to BCM via CAN communication.

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WARNING FUNCTION

< FUNCTION DIAGNOSIS >

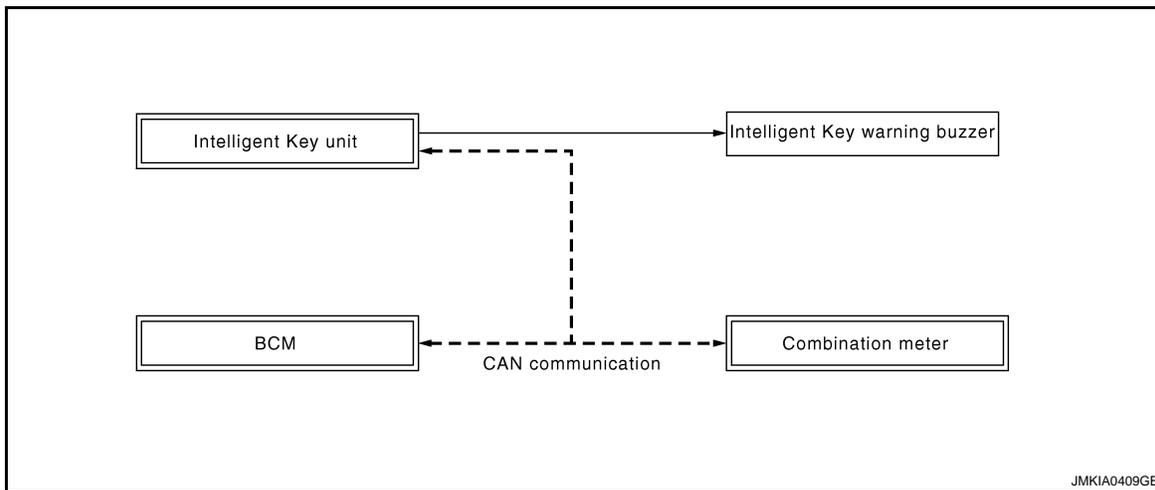
[WITH I-KEY & SUPER LOCK]

WARNING FUNCTION

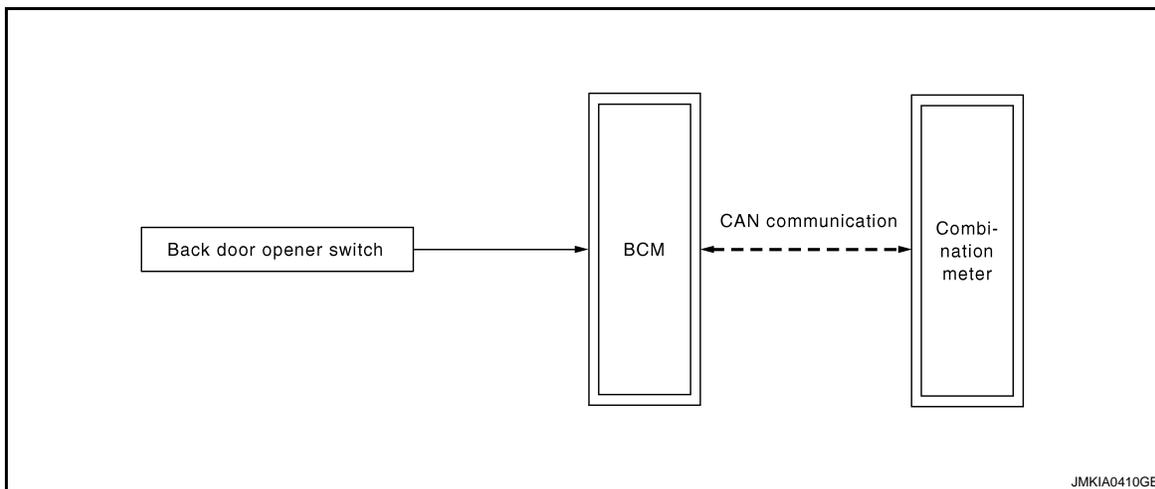
System Diagram

INFOID:000000001280746

INTELLIGENT KEY WARNING OPERATION



BACK DOOR OPEN WARNING OPERATION



System Description

INFOID:000000001280747

DESCRIPTION

The warning functions are as follows and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, key warning lamps and buzzer (built in combination meter).

INTELLIGENT KEY WARNING OPERATION

Once one of the following conditions below is established, alert or warning will be executed.

WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Warning/Information functions		Operation conditions	Warning lamp	Warning chime	
				Combination meter buzzer	Intelligent Key warning buzzer
Ignition knob return forgotten warning		When all the conditions below are met. <ul style="list-style-type: none"> Ignition knob: OFF or LOCK (knob is pressed). Door switch (driver side): ON (Door is open). 	—	Active for 5 seconds (pipipipi, pipipipi...)	—
Ignition key warning (when mechanical key is used)		When all the conditions below are met. <ul style="list-style-type: none"> Ignition switch: OFF position. Key switch: ON (inserted) Door switch (driver side): ON (Door is open). 	—	Active for 5 seconds (pipipipi, pipipipi...)	—
OFF position warning		When all the conditions below are met. <ul style="list-style-type: none"> Ignition switch is between ACC and OFF position or ignition knob is pressed in while ignition switch is in LOCK position. 3 seconds in the above state have pressed. 	“LOCK” (RED blinking)	Active for 1 second (pipi, pipi...)	—
Take away warning	Any door open to all doors closed	When all the conditions below are met. <ul style="list-style-type: none"> Ignition switch: Except LOCK position. Door switch: ON to OFF (Door is open to closed). Intelligent Key cannot be detected inside the vehicle. 	“KEY” (RED blinking)	—	Active (pi, pi, pi)
	Door is open	When all the conditions below are met. <ul style="list-style-type: none"> Door switch: ON (Door is open) Key ID verification every 5 seconds when registered Intelligent Key cannot be detected inside the vehicle. 	“KEY” (RED blinking)	—	—
	Take away through window	When all the conditions below are met. <ul style="list-style-type: none"> Key ID verification: OK Every 30 seconds when registered Intelligent Key cannot be detected inside the vehicle or result of vehicle speed verification is NG. (The registered Intelligent Key cannot be detected inside the vehicle when ignition switch is ON.) Key switch: OFF (Key is removed from ignition key cylinder.) 	“KEY” (RED blinking)	Active for 3 seconds (pipipi...)	—

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WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Warning/Information functions		Operation conditions	Warning lamp	Warning chime	
				Combination meter buzzer	Intelligent Key warning buzzer
Door lock operation warning	Request switch operation	When request switch is pushed (lock operation) under the following conditions. <ul style="list-style-type: none"> • Door switch: ON (Any door is open). • Ignition switch is in ACC or OFF position or ignition knob is pressed in LOCK position or mechanical key is inserted into ignition key cylinder. • Intelligent Key is inside vehicle. 	—	—	Active for 2 seconds (pipipi...)
	Intelligent Key button operation	When Intelligent Key button is pushed (lock operation) under the following conditions. <ul style="list-style-type: none"> • Door switch: ON (Any door is open). • Ignition switch is in ACC or OFF position or ignition knob is pressed in LOCK position or mechanical key is inserted into ignition key cylinder. 	—	—	Active for 2 seconds (pipipi...)
Intelligent Key low battery warning		When Intelligent Key battery voltage is low, Intelligent Key unit is detected after ignition switch is turned ON.	“KEY” (GREEN blinking for 30 seconds)	—	—

KEY WARNING LAMP & LOCK WARNING LAMP

The key indicator and lock indicator indicates Intelligent Key system status.

Operation Condition

Behavior of lamps			Operation condition
KEY	GREEN	Lighting	All the following conditions are satisfied. <ul style="list-style-type: none"> • Ignition knob is pushed in LOCK position. (Ignition knob switch is ON) • Ignition key is removed from ignition key cylinder. (Key switch is OFF) • Intelligent Key is detected inside of the vehicle. • KEY RED lighting/blinking conditions are not satisfied.
		Blinking	while Intelligent Key low battery warning is operating.
	RED	Lighting	All the following conditions are satisfied. <ul style="list-style-type: none"> • Ignition knob is pushed. (Ignition knob switch is ON) • Ignition key is removed from ignition key cylinder. (Key switch is OFF) • Intelligent Key is not detected inside of the vehicle.
		Blinking	All the following conditions are satisfied. <ul style="list-style-type: none"> • Take away warning is operating. • KEY RED lighting condition is not satisfied.
LOCK	Blinking	While OFF position warning is operating.	
KEY(RED) and LOCK lighting			All the following conditions are satisfied. <ul style="list-style-type: none"> • Ignition switch is ON. • Steering lock ID is NG.

BACK DOOR OPEN WARNING OPERATION

When back door opener switch is operated, when door lock is locked with door lock and unlock switch, speed sensing lock or only driver side is unlocked with anti-hijack function, the buzzer (built in combination meter) will sound.

KEY REMINDER OPERATION

- The buzzer (combination meter) will sound and the doors will not lock if the door lock and unlock switch is pressed while the driver door is open and mechanical key is inserted ignition key cylinder.
- The buzzer (combination meter) will sound and the doors will not lock if the door lock and unlock switch is pressed while any door other than the driver door is open.

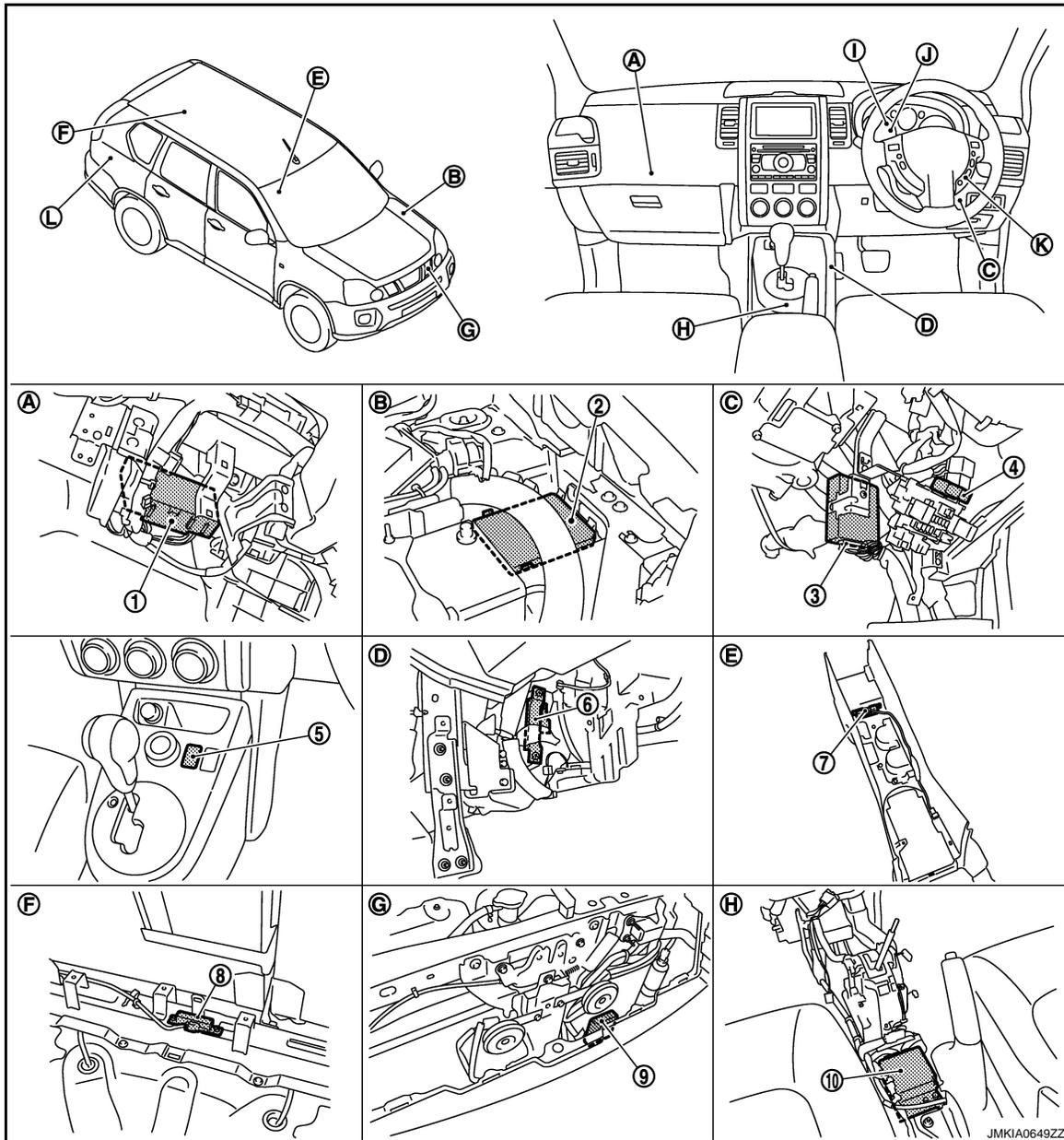
WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Component Parts Location

INFOID:000000001393933



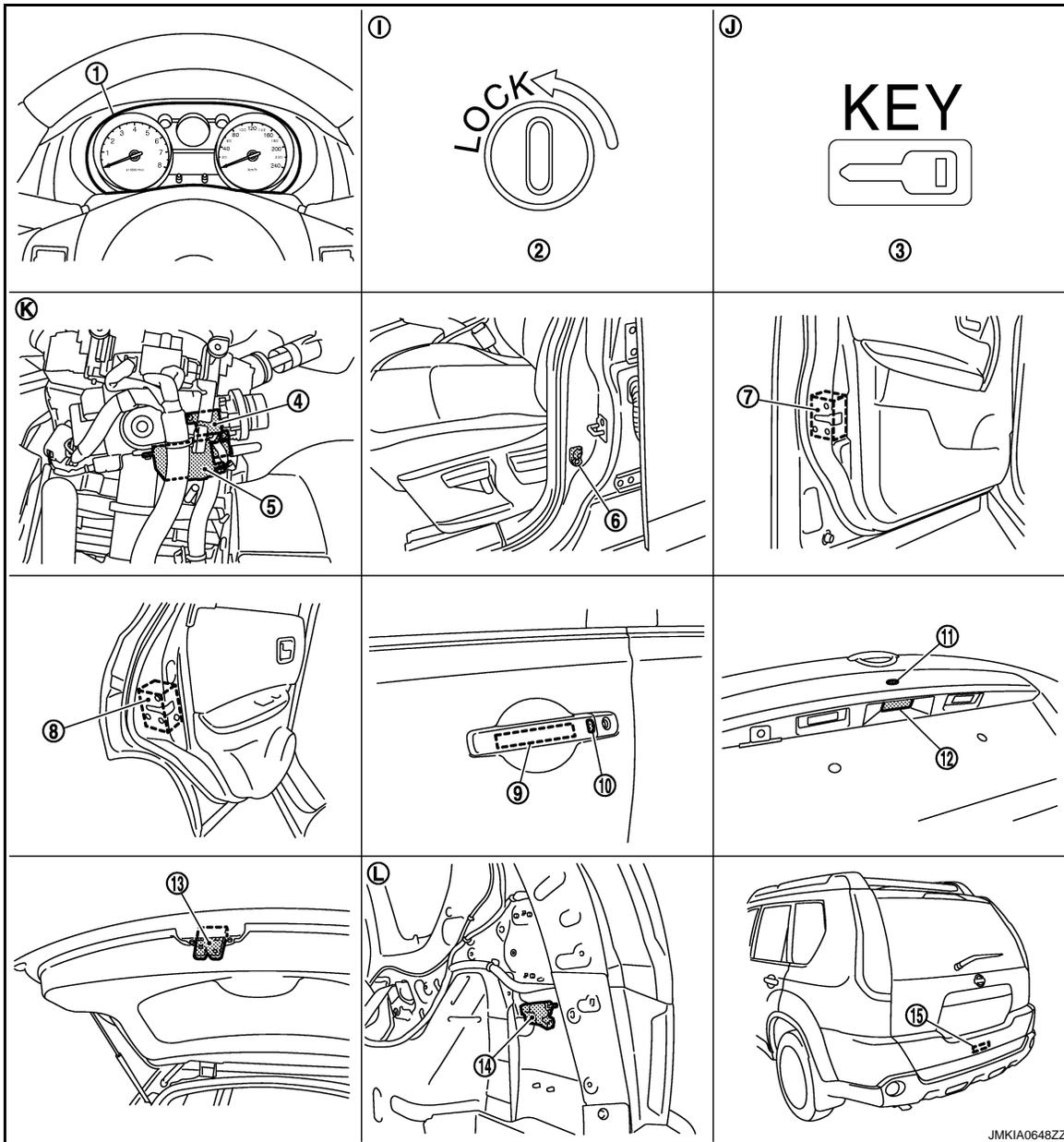
- | | | |
|--|---------------------------------------|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Door lock and unlock switch
M89 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat) | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Engine room LH | C. Over the instrument lower panel
(driver side) |
| D. View with lower instrument cover re-
moved | E. View with center console removed | F. View with luggage floor spacer re-
moved |
| G. View with front bumper fascia removed | H. View with center console removed | |

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WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]



- | | | |
|--|---|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 |
| 4. Ignition knob switch, key switch and
key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key
lock solenoid (key lock solenoid)
M25 | 6. Front door switch (passenger side)
B27 |
| 7. Front door lock actuator (passenger
side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door
request switch (driver side)
D10 |
| 10. Out side key antenna and front door re-
quest switch (driver side)
D10 | 11. Back door opener switch assembly (re-
quest switch)
D187 | 12. Back door opener switch assembly
(opener switch)
D187 |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column re-
moved |
| L. Luggage side lower finisher (RH) re-
moved. | | |

WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Component Description

INFOID:000000001280749

Item	Function
BCM	Controls the warning function with Intelligent Key unit.
Intelligent Key unit	Controls the warning function with BCM.
Key switch	Detects that mechanical key is inserted into ignition key cylinder.
Door switch	Detects door state (open or closed).
Door lock and unlock switch	Transmits door lock and unlock signal to BCM.
Intelligent Key unit	Requests to turn ON hazard warning lamp to BCM and turn signal indicator to combination meter.
Combination meter	Turns ON the LOCK indicator, KEY indicator, turn signal indicator and buzzer (built in combination meter) by the request from Intelligent Key unit via CAN communication.
Intelligent Key warning buzzer	Sounds by the request from Intelligent Key unit.
Back door opener switch	Transmits back door open signal to BCM

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HAZARD AND BUZZER REMINDER FUNCTION

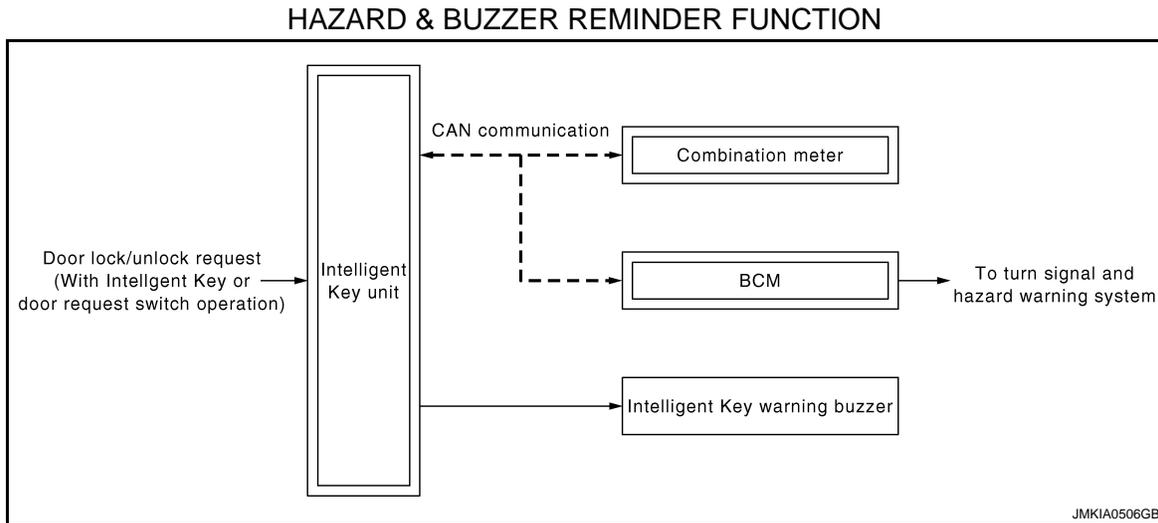
< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

HAZARD AND BUZZER REMINDER FUNCTION

System Diagram

INFOID:000000001280750



System Description

INFOID:000000001280751

HAZARD AND BUZZER REMINDER FUNCTION

When door is locked or unlocked by Intelligent Key or door request switch, Intelligent Key unit sounds buzzer and sends hazard request signal to BCM via CAN communication. Then BCM flashes hazard warning lamps as a reminder.

NOTE:

Hazard and buzzer reminder function mode can be changed with CONSULT-III. Refer to [DLK-349. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Hazard Operation

Hazard reminder setting (With CONSULT-III)		Door lock operation (with Intelligent Key or door request switch)	Hazard warning lamp flash	
HAZARD ANSWER BACK	OFF	Any	—	
		LOCK ONLY	Lock	Once
			Unlock	—
	Unlock (Anti-hijack)		—	
	UNLK ONLY	Lock	—	
		Unlock	Twice	
		Unlock (Anti-hijack)	Twice (quick)	
	LOCK/UNLK	Lock	Once	
		Unlock	Twice	
Unlock (Anti-hijack)		Twice (quick)		

Buzzer Operation

Buzzer reminder setting (With CONSULT-III)		Door lock operation (with Intelligent Key or door request switch)	Buzzer warning sounds
ANSWER BACK WITH I-KEY LOCK	BUZZER	Lock	Once
		Unlock	Depends on other setting
		Unlock (Anti-hijack)	Depends on other setting
	OFF	Any	—

HAZARD AND BUZZER REMINDER FUNCTION

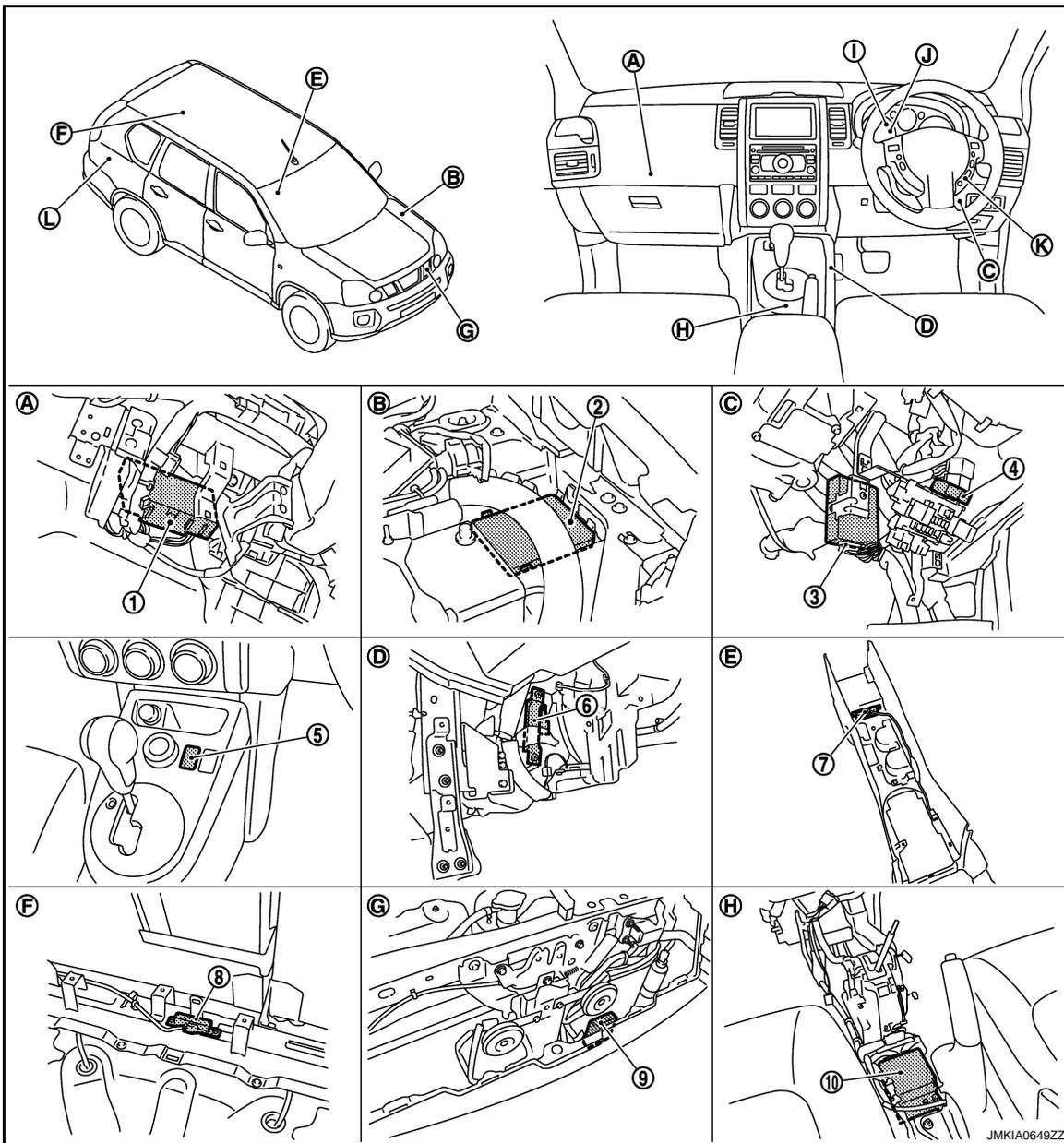
< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Buzzer reminder setting (With CONSULT-III)		Door lock operation (with Intelligent Key or door request switch)	Buzzer warning sounds
ANSWER BACK WITH I-KEY UNLOCK	BUZZER	Lock	Depends on other setting
		Unlock	Twice
		Unlock (Anti-hijack)	Twice
	OFF	Any	—
ANSWER BACK FUNC- TION	ON	Lock	Once
		Unlock	Twice
		Unlock (Anti-hijack)	Twice
	OFF	Any	—

Component Parts Location

INFOID:000000001393934



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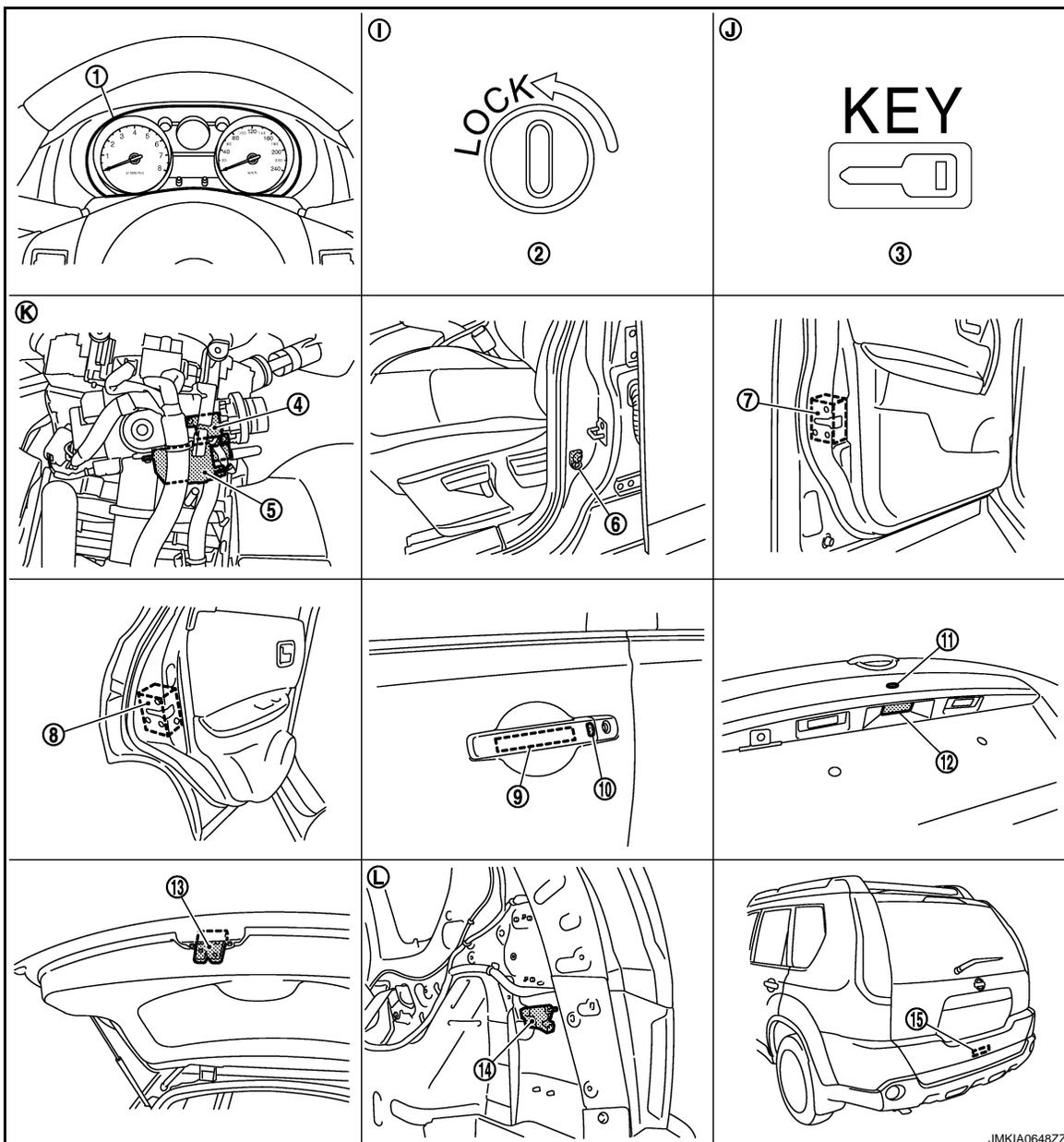
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HAZARD AND BUZZER REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

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|--|--|---|
| 1. BCM
M65, M66, M67 | 2. IPDM E/R
E11, E13 | 3. Intelligent Key unit
M40 |
| 4. Passenger side anti-hijack relay
M90 | 5. Door lock and unlock switch
M89 | 6. Inside key antenna (instrument
center)
M56 |
| 7. Inside key antenna (console)
M252 | 8. Inside key antenna (rear seat)
B45 | 9. Intelligent Key warning buzzer
E25 |
| 10. Air bag diagnosis sensor unit
M59 | | |
| A. Over the glove box | B. Engine room LH | C. Over the instrument lower panel
(driver side) |
| D. View with lower instrument cover re-
moved | E. View with center console removed | F. View with luggage floor spacer re-
moved |
| G. View with front bumper fascia removed | H. View with center console removed | |



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HAZARD AND BUZZER REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

- | | | | |
|---|--|--|---|
| 1. Combination meter
M34 | 2. Lock warning lamp
M34 | 3. Key warning lamp
M34 | A |
| 4. Ignition knob switch, key switch and key lock solenoid (key switch)
M25 | 5. Ignition knob switch, key switch and key lock solenoid (key lock solenoid)
M25 | 6. Front door switch (passenger side)
B27 | B |
| 7. Front door lock actuator (passenger side)
D9 | 8. Rear door lock actuator LH
D85 | 9. Out side key antenna and front door request switch (driver side)
D10 | C |
| 10. Out side key antenna and front door request switch (driver side)
D10 | 11. Back door opener switch assembly (request switch)
D187 | 12. Back door opener switch assembly (opener switch)
D187 | D |
| 13. Back door lock assembly
D190 | 14. Fuel lid opener actuator
B58 | 15. Out side key antenna (back door)
D191 | E |
| I. Inside the combination meter | J. Inside the combination meter | K. View with steering column cover removed | F |
| L. Luggage side lower finisher (RH) removed. | | | G |

Component Description

INFOID:000000001280753

Item	Function
BCM	Controls the hazard and buzzer reminder function with Intelligent Key unit.
Intelligent Key unit	Controls the hazard and buzzer reminder function with BCM.
Combination meter	Turns ON the LOCK indicator, KEY indicator, turn signal indicator and buzzer (built in combination meter) by the request from Intelligent Key unit via CAN communication.
Intelligent Key warning buzzer	Sounds by the request signal from Intelligent Key unit.

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)

INFOID:000000001569649

APPLICATION ITEM

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description
ECU Identification	BCM part number is displayed.
Self-Diagnostic Results	Displays the diagnosis results judged by BCM. Refer to DLK-500, "DTC Index" .
Data Monitor	BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Changes the setting for each system function.
Configuration	<ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

System	CONSULT-III sub system selection item	Diagnosis mode		
		WORK SUPPORT	DATA MONITOR	ACTIVE TEST
—	BCM	×		
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER	×	×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
—	PTC HEATER*			

*: This item is displayed, but is not function.

DOOR LOCK

DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)

INFOID:000000001280755

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
PUSH SW ^{*1}	Indicates [ON/OFF] condition of ignition knob switch.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.
KEYLESS LOCK ^{*2}	Indicates [ON/OFF] condition of lock signal from key fob.
KEYLESS UNLOCK ^{*2}	Indicates [ON/OFF] condition of unlock signal from key fob.
I-KEY LOCK ^{*1}	Indicates [ON/OFF] condition of lock signal from Intelligent Key.
I-KEY UNLOCK ^{*1}	Indicates [ON/OFF] condition of unlock signal from Intelligent Key.
UNLOCK WITH DR	This item is indicated, but not monitored.
UNLOCK SHOCK	Indicates [ON/OFF] condition of signal from air bag diagnosis unit. <ul style="list-style-type: none"> • ON: During the unlock operation interlock with air bag. • OFF: Other than above.
SHOCK SENSOR	Indicates [NOMAL/ON/OFF] condition of circuit between BCM and air bag diagnosis sensor unit. <ul style="list-style-type: none"> • NORMAL: Ignition switch ON. (BCM is receiving normal condition signal from air bag diagnosis sensor unit.) • ON: During the receiving of air bag deployment signal from air bag diagnosis sensor unit. • OFF: After the receiving of air bag deployment signal from air bag diagnosis sensor unit.
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h].

^{*1}: For the Intelligent key equipped vehicle.

^{*2}: For the multi remote control system equipped vehicle.

ACTIVE TEST

Test item	Description
SUPER LOCK ^{*1}	This test is able to check super lock operation [LOCK (SET)/UNLOCK (RELEASE)].
DOOR LOCK IND	This test is able to check door lock indicator (built in door lock and unlock switch on center console) operation [ON/OFF].
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLOCK/DR UNLOCK/OTHER UNLOCK].

^{*1}: For the super lock equipped vehicle.

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Test item	Description
SECURITY DOOR LOCK SET	Anti hijack function mode can be changed in this mode. <ul style="list-style-type: none">• ON: Anti hijack mode is active.• OFF: Anti hijack mode is inactive.

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)

INFOID:000000001280756

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
DATA MONITOR	The BCM input/output signals are displayed.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
PUSH SW	Indicates [ON/OFF] condition of ignition knob switch.
I-KEY LOCK	Indicates [ON/OFF] condition of lock signal from Intelligent Key.
I-KEY UNLOCK	Indicates [ON/OFF] condition of unlock signal from Intelligent Key.

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK)

INFOID:000000001280757

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from Intelligent Key unit.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
PUSH SW ^{*1}	Indicates [ON/OFF] condition of ignition knob switch.
TRNK OPNR SW	Indicates [ON/OFF] condition of back door opener switch.
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h].

*1: For the Intelligent key equipped vehicle.

*2: For the remote keyless entry system equipped vehicle.

ACTIVE TEST

Test item	Description
TRUNK/GLASS HATCH	This test is able to check back door opener operation [ON/OFF].

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

CONSULT-III Function (INTELLIGENT KEY)

INFOID:000000001280758

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with Intelligent Key unit.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
SELF-DIAG RESULTS	Displays the diagnosis results judged by Intelligent Key unit.
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from Intelligent Key unit.
DATA MONITOR	The Intelligent Key unit input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from Intelligent Key unit.
ECU IDENTIFICATION	The Intelligent Key unit part number is displayed.

WORK SUPPORT

Support item	Description	Selection item	Condition
CONFIRM KEY FOB ID	It can check whether Intelligent Key ID code is registered or not.	—	—
TAKE OUT FROM WINDOW WARN	Take away warning chime (from window) mode can be changed.	ON	Active
		OFF	Inactive
LOW BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed.	ON	Active
		OFF	Inactive
KEYLESS FUNCTION	Door lock function with Intelligent Key can be changed.	ON	Active
		OFF	Inactive
ANSWER BACK FUNCTION	Buzzer reminder operation can be changed.	ON	Active
		OFF	Inactive
SELECTIVE UNLOCK FUNCTION	Anti-hijack mode can be changed.	ON	Active
		OFF	Inactive
HAZARD ANSWER BACK	Hazard reminder operation mode can be changed.	Refer to DLK-342 .	
ANSWER BACK WITH I-KEY LOCK	Buzzer reminder operation (lock operation) mode by each door request switch can be changed.	BUZZER	Active
		OFF	Inactive
ANSWER BACK WITH I-KEY UNLOCK	Buzzer reminder operation (unlock operation) mode by each door request switch can be changed.	BUZZER	Active
		OFF	Inactive
AUTO RELOCK TIMER	Auto door lock operation mode can be changed.	OFF	Inactive
		2 min.	Active
ENGINE START BY I-KEY	Engine start function (by Intelligent Key) mode can be changed.	ON	Active
		OFF	Inactive
LOCK/UNLOCK BY I-KEY	Door lock function by door request switch can be changed.	ON	Active
		OFF	Inactive

SELF-DIAG RESULT

Refer to [DLK-458, "DTC Index"](#).

DATA MONITOR

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Monitor Item	Condition
PUSH SW	Indicates [ON (pressed)/OFF (released)] condition of ignition knob switch.
KEY SW	Indicates [ON (inserted)/OFF (removed)] condition of key switch.
DR REQ SW	Indicates [ON (pressed)/OFF (released)] condition of door request switch (driver side).
AS REQ SW	Indicates [ON (pressed)/OFF (released)] condition of door request switch (passenger side).
BD/TR REQ SW	Indicates [ON (pressed)/OFF (released)] condition of door request switch (back door).
IGN SW	Indicates [ON (ON or START position)/OFF (other than ON and START position)] condition of ignition switch ON position.
ACC SW	Indicates [ON/OFF] condition of ignition switch ACC position.
STOP LAMP SW	Indicates [ON/OFF] condition of stop lamp switch.
DOOR LOCK SIG	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.
DOOR UNLOCK SIG	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.
DOOR SW DR	Indicates [OPEN/CLOSE] condition of front door switch (driver side) from BCM via CAN communication.
DOOR SW AS	Indicates [OPEN/CLOSE] condition of front door switch (passenger side) from BCM via CAN communication.
DOOR SW RR	Indicates [OPEN/CLOSE] condition of rear door switch (RH) from BCM via CAN communication.
DOOR SW RL	Indicates [OPEN/CLOSE] condition of rear door switch (LH) from BCM via CAN communication.
DOOR BK SW	Indicates [OPEN/CLOSE] condition of back door switch from BCM via CAN communication.
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h].

ACTIVE TEST

Test item	Description
DOOR LOCK/UNLOCK	<p>This test is able to check door lock/unlock operation.</p> <ul style="list-style-type: none"> • ALL UNLK: All door lock actuators are unlocked. • DR UNLK: Door lock actuator (driver side) is unlocked. • AS UNLK: Door lock actuator (passenger side) is unlocked. • BK UNLK: This item is indicated, but inactive. • LOCK: All door lock actuator is locked.
ANTENNA	<p>This test is able to check Intelligent Key antenna operation.</p> <p>When the following condition are met, LED (on Intelligent Key) blinks.</p> <ul style="list-style-type: none"> • ROOM ANT1: Inside key antenna (console) transmissions can be detected by Intelligent Key, when "ROOM ANT1" is selected. • ROOM ANT2: Inside key antenna (instrument center/rear seat) transmissions can be detected by Intelligent Key, when "ROOM ANT2" is selected. • DRIVER ANT: Outside key antenna (driver side) transmissions can be detected by Intelligent Key, when "DRIVER ANT" is selected. • ASSIST ANT: Outside key antenna (passenger side) transmissions can be detected by Intelligent Key, when "ASSIST ANT" is selected. • BK DOOR ANT: Outside key antenna (rear bumper) transmissions can be detected by Intelligent Key, when "BK DOOR ANT" is selected.
OUTSIDE BUZZER	<p>This test is able to check Intelligent Key warning buzzer operation.</p> <ul style="list-style-type: none"> • ON • OFF
INSIDE BUZZER	<p>This test is able to check warning chime in combination meter operation.</p> <ul style="list-style-type: none"> • TAKE OUT: Take away warning chime sounds. • KNOB: Ignition knob switch warning chime sounds. • KEY: Key warning chime sounds. • OFF

DIAGNOSIS SYSTEM (INTELLIGENT KEY UNIT)

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Test item	Description
INDICATOR	This test is able to check warning lamp operation. <ul style="list-style-type: none"> • BLUE ON: Key warning lamp (green) illuminates. • RED ON: Key warning lamp (red) illuminates. • KNOB ON: Lock warning lamp illuminates. • BLUE IND: Key warning lamp (green) flashes. • RED IND: Key warning lamp (red) flashes. • KNOB IND: Lock warning lamp flashes. • OFF
KEY LOCK SOLENOID* ¹	This test is able to check key interlock operation. <ul style="list-style-type: none"> • LOCK: Key interlock is active. • UNLOCK: Key interlock is inactive.

*¹: The item is only for MT model.

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DLK

U1000 CAN COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000001559416

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Signal Chart. Refer to [LAN-25, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001559417

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When Intelligent Key unit cannot communicate CAN communication signal continuously for 2 seconds or more.	In CAN communication system, any item (or items) of the following listed below is malfunctioning. <ul style="list-style-type: none">• Transmission• Receiving (BCM)• Receiving (IPDM E/R)• Receiving (ECM)• Receiving (METER/M&A)• Receiving (MULTI AV)

Diagnosis Procedure

INFOID:000000001559418

1. PERFORM SELF DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check "Self Diagnostic Result" of BCM.

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to [LAN-13, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to [GI-39, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000001559419

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart, refer to [LAN-25, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001559420

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	When detecting error during the initial diagnosis of CAN controller of Intelligent Key unit.	Intelligent Key unit

Diagnosis Procedure

INFOID:000000001559421

1. REPLACE INTELLIGENT KEY UNIT

When DTC [U1010] is detected, replace Intelligent Key unit.

>> Replace Intelligent Key unit.

Special Repair Requirement

INFOID:000000001559422

1. REQUIRED WORK WHEN REPLACING INTELLIGENT KEY UNIT

Initialize control unit. Refer to CONSULT-III operation manual NATS-IVIS/NVIS.

>> Work end.

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

POWER SUPPLY AND GROUND CIRCUIT INTELLIGENT KEY UNIT

INTELLIGENT KEY UNIT : Diagnosis Procedure

INFOID:000000001298174

1.CHECK FUSE AND FUSIBLE LINK

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
11	Battery power supply	14 (10A)
6	Ignition power supply	1 (10A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Turn ignition switch ON.
3. Check voltage between Intelligent Key unit harness connector and ground.

Terminal		Voltage (V) (Approx.)
(+)	(-)	
Intelligent Key unit		Battery voltage
Connector	Terminal	
M40	11 6	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M40	12		Exists

Does continuity exist?

YES >> Intelligent Key unit power supply and ground circuit are OK.

NO >> Repair harness or connector.

BCM

BCM : Diagnosis Procedure

INFOID:000000001298175

1.CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Terminal No.	Signal name	Fuse and fusible link No.
41	Battery power supply	10 (10A)
57		J (50A)
3	Ignition power supply	1 (10A)
4	ACC power supply	20 (10A)

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connectors.
3. Check voltage between BCM harness connector and ground.

Terminals		(-)	Condition	Voltage (Approx.)
(+)				
BCM				
Connector	Terminal	Ground	Turn ignition switch OFF	Battery voltage
M66	41			
M67	57			
M65	3			
	4			

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	55		

Does continuity exist?

YES >> BCM power supply and ground circuit are OK.

NO >> Repair harness or connector.

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DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH

Description

INFOID:000000001298176

Transmits door lock/unlock operation to BCM.

Component Function Check

INFOID:000000001298177

1.CHECK FUNCTION

With CONSULT-III

Check "CDL LOCK SW" and "CDL UNLOCK SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
CDL LOCK SW	LOCK : ON
	UNLOCK : OFF
CDL UNLOCK SW	LOCK : OFF
	UNLOCK : ON

Is the inspection result normal?

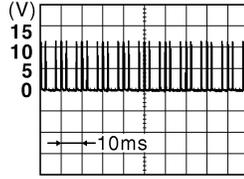
- YES >> Door lock and unlock switch is OK.
- NO >> Refer to [DLK-356, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298178

1.CHECK DOOR LOCK AND UNLOCK INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect door lock and unlock switch connector.
3. Check voltage between door lock and unlock switch harness connector and ground.

Terminal (+)		Terminal (-)	Signal (Reference value)
Door lock and unlock switch connector	Terminal		
M89	1	Ground	
	2		

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Is the inspection result normal?

- YES >> GO TO 3.
- NO >> GO TO 2.

2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector.
3. Check continuity between BCM harness connector and door lock and unlock switch harness connector.

BCM connector	Terminal	Door lock and unlock switch connector	Terminal	Continuity
M65	32	M89	2	Exists
	34		1	

4. Check continuity between BCM harness connector and ground.

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M65	32		
	34		

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace harness.

3. CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between door lock and unlock switch harness connector and ground.

Door lock and unlock switch connector	Terminal	Ground	Continuity
M89	3		

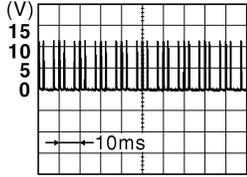
Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM harness connector and ground.

Terminal		Signal (Reference value)
(+)	(-)	
BCM connector	Terminal	
M65	32	Ground
	34	



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Is the inspection result normal?

- YES >> GO TO 5.
- NO >> GO TO 6.

5. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch
Refer to [DLK-357. "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Replace door lock and unlock switch. Refer to [DLK-596. "Removal and Installation"](#).

6. CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001298179

1. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Door lock and unlock switch	Terminal		Condition	Continuity
M89	1	3	LOCK	Exists
	2		UNLOCK	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Replace door lock and unlock switch. Refer to [DLK-596. "Removal and Installation"](#).

DOOR LOCK AND UNLOCK SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH INDICATOR

Description

INFOID:000000001280776

The door lock and unlock switch indicates door lock status. The indicator will illuminate when a lock operation is accomplished, and during this status, if any door is opened, the indicator will turn OFF.

Component Function Check

INFOID:000000001280777

1. CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK IND" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK IND	:ON	Illuminated
	:OFF	Not illuminated

Is the inspection result normal?

- YES >> Door lock and unlock switch is OK.
NO >> Refer to [DLK-359, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001280778

1. CHECK DOOR LOCK AND UNLOCK SWITCH INDICATOR INPUT SIGNAL

- Turn ignition switch OFF.
- Check voltage between door lock and unlock switch harness connector and ground.

Terminal		Condition	Voltage (Approx.)
(+)	(-)		
Door lock and unlock switch connector	Terminal	Door lock operation is accomplished Any door is OPEN	Battery voltage 0
M89	6		

Is the inspection result normal?

- YES >> GO TO 3.
NO >> GO TO 2.

2. CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

- Disconnect BCM connector and door lock and unlock switch connector.
- Check continuity between BCM harness connector and door lock and unlock switch harness connector.

BCM connector	Terminal	Door lock and unlock switch connector	Terminal	Continuity
M65	17	M89	6	Exists

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	17		Does not exist

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness.

3. CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between door lock and unlock switch harness connector and ground.

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DOOR LOCK AND UNLOCK SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Door lock and unlock switch connector	Terminal	Ground	Continuity
M89	4		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001298180

Transmits lock/unlock operation to Intelligent Key unit.

DRIVER SIDE : Component Function Check

INFOID:000000001298181

1.CHECK FUNCTION

With CONSULT-III

Check door request switch "DR REQ SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DR REQ SW	Door request switch is pressed :ON
	Door request switch is released :OFF

Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Refer to [DLK-361, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001298182

1.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between Intelligent Key unit harness connector and ground.

Terminal (+)		Terminal (-)	Door request switch condition	Voltage (V) (Approx.)
Intelligent Key unit connector	Terminal			
M40	5	Ground	Pressed	0
			Released	5

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK FRONT DOOR REQUEST SWITCH CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna and front door request switch (driver side) harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna and front door request switch (driver side)	Terminal	Continuity
M40	5	D30	3	Exists

3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	5		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna and front door request switch (driver side).

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DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between outside key antenna and front door request switch (driver side) harness connector and ground.

Outside key antenna and front door request switch (driver side) connector	Terminal	Ground	Continuity
D30	4		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace outside key antenna and front door request switch (driver side) ground circuit.

4.CHECK INTELLIGENT KEY UNIT OUTPUT SIGNAL

1. Connect Intelligent Key unit connector.
2. Check voltage between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Voltage (V) (Approx.)
M40	5		5

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 6.

5.CHECK DOOR REQUEST SWITCH

Check outside key antenna and front door request switch (driver side).

Refer to [DLK-362, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace front outside handle (driver side). Refer to [DLK-575, "OUTSIDE HANDLE : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:000000001298183

1.CHECK DOOR REQUEST SWITCH

Check outside key antenna and front door request switch (driver side).

Terminal		Door request switch condition	Continuity
Outside key antenna and front door request switch (driver side)			
3	4	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Replace front outside handle (driver side). Refer to [DLK-575, "OUTSIDE HANDLE : Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001298184

Transmits lock/unlock operation to Intelligent Key unit.

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

PASSENGER SIDE : Component Function Check

INFOID:000000001298185

1.CHECK FUNCTION

With CONSULT-III

Check door request switch "AS REQ SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition	
AS REQ SW	Door request switch is pressed	:ON
	Door request switch is released	:OFF

Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Refer to [DLK-365. "BACK DOOR : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001298186

1.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between Intelligent Key unit harness connector and ground.

Terminal (+)		Terminal (-)	Door request switch condition	Voltage (V) (Approx.)
Intelligent Key unit connector	Terminal			
M40	25	Ground	Pressed	0
			Released	5

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna and front door request switch (passenger side) harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna and front door request switch (passenger side) connector	Terminal	Continuity
M40	25	D69	3	Exists

3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	25		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna and front door request switch (passenger side).

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between outside key antenna and front door request switch (passenger side) harness connector and ground.

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DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Outside key antenna and front door request switch (passenger side) connector	Terminal	Ground	Continuity
D69	4		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace outside key antenna and front door request switch (passenger side) ground circuit.

4.CHECK INTELLIGENT KEY UNIT OUTPUT SIGNAL

1. Connect Intelligent Key unit connector.
2. Check voltage between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Voltage (V) (Approx.)
M40	25		5

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 6.

5.CHECK DOOR REQUEST SWITCH

Check outside key antenna and front door request switch (passenger side). Refer to [DLK-366, "BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace front outside handle (passenger side). Refer to [DLK-575, "OUTSIDE HANDLE : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000001298187

1.CHECK DOOR REQUEST SWITCH

Check outside key antenna and front door request switch (passenger side).

Terminal		Door request switch condition	Continuity
Outside key antenna and front door request switch (passenger side)			
3	4	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Replace front outside handle (passenger side). Refer to [DLK-575, "OUTSIDE HANDLE : Removal and Installation"](#).

BACK DOOR

BACK DOOR : Description

INFOID:000000001298188

Transmits lock/unlock operation to Intelligent Key unit.

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR : Component Function Check

INFOID:000000001298189

1.CHECK FUNCTION

With CONSULT-III

Check door request switch "BD/TR REQ SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition	
BD/TR REQ SW	Door request switch is pressed	:ON
	Door request switch is released	:OFF

Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Refer to [DLK-365. "BACK DOOR : Diagnosis Procedure"](#).

BACK DOOR : Diagnosis Procedure

INFOID:000000001298190

1.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL

- Turn ignition switch OFF.
- Check voltage between Intelligent Key unit harness connector and ground.

Terminal		Door request switch condition	Voltage (V) (Approx.)
(+)	(-)		
Intelligent Key unit connector	Terminal	Pressed	0
M40	29		
		Released	5

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

- Disconnect Intelligent Key unit connector.
- Check continuity between Intelligent Key unit harness connector and back door opener switch assembly (request switch) harness connector.

Intelligent Key unit connector	Terminal	Back door opener switch (request switch) connector	Terminal	Continuity
M40	29	D186	3	Exists

- Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	29		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and back door opener switch assembly (request switch).

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between back door opener switch assembly request switch harness connector and ground.

Back door opener switch assembly (request switch) connector	Terminal	Ground	Continuity
D186	4		Exists

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DOOR REQUEST SWITCH

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace back door opener switch assembly (request switch) ground circuit.

4.CHECK INTELLIGENT KEY UNIT OUTPUT SIGNAL

1. Connect Intelligent Key unit connector.
2. Check voltage between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Voltage (V) (Approx.)
M40	29		5

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 6.

5.CHECK DOOR REQUEST SWITCH

Check back door opener switch assembly (request switch).
Refer to [DLK-366, "BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door opener switch assembly (request switch). Refer to [DLK-592, "Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR : Component Inspection

INFOID:000000001298191

1.CHECK DOOR REQUEST SWITCH

Check back door opener switch assembly (request switch).

Terminal		Door request switch condition	Continuity
Back door opener switch assembly (request switch)			
3	4	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Back door request switch is OK.

NO >> Replace back door opener switch assembly (request switch). Refer to [DLK-592, "Removal and Installation"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001298192

Detects door open/closed condition.

DRIVER SIDE : Component Function Check

INFOID:000000001298193

1.CHECK FUNCTION

With CONSULT-III

Check door switches "DOOR SW-DR" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition	
DOOR SW-DR	OPEN	:ON
	CLOSE	:OFF

Is the inspection result normal?

YES >> Front door switch (driver side) is OK.

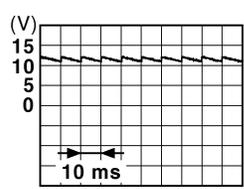
NO >> Refer to [DLK-367. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001298194

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground with oscilloscope.

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal		
M65	15	OPEN	0
		CLOSE	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and front door switch (driver side) connector.
2. Check continuity between BCM harness connector and front door switch (driver side) harness connector.

BCM connector	Terminal	Front door switch (driver side) connector	Terminal	Continuity
M65	15	B34	2	Exists

3. Check continuity between BCM harness connector and ground.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M65	15		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to [DLK-368. "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front door switch (driver side). Refer to [DLK-585. "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:000000001298195

1.CHECK DOOR SWITCH

Check front door switch (driver side).

Terminal		Door switch condition	Continuity
front door switch (driver side)			
2	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Front door switch (driver side) is OK.

NO >> Replace front door switch (driver side). Refer to [DLK-585. "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001298196

Detects door open/closed condition.

PASSENGER SIDE : Component Function Check

INFOID:000000001298197

1.CHECK FUNCTION

 With CONSULT-III

Check door switches "DOOR SW-AS" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DOOR SW-AS	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

YES >> Front door switch (passenger side) is OK.

NO >> Refer to [DLK-368. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001298198

1.CHECK DOOR SWITCH INPUT SIGNAL

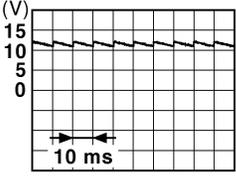
1. Turn ignition switch OFF.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

2. Check signal between BCM harness connector and ground with oscilloscope.

Terminals		(-)	Door condition	Voltage (V) (Approx.)
(+)				
BCM connector	Terminal			
M65	14	Ground	OPEN	0
			CLOSE	

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Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and front door switch (passenger side) connector.
2. Check continuity between BCM harness connector and front door switch (passenger side) harness connector.

BCM connector	Terminal	Front door switch (passenger side) connector	Terminal	Continuity
M65	14	B27	2	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	14		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Check front door switch (passenger side).

Refer to [DLK-369. "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front door switch (passenger side). Refer to [DLK-585. "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000001298199

1.CHECK DOOR SWITCH

Check front door switch (passenger side).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal		Door switch condition	Continuity
Front door switch (passenger side)			
2	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Front door switch (passenger side) is OK.

NO >> Replace front door switch (passenger side). Refer to [DLK-585, "Removal and Installation"](#).

REAR LH

REAR LH : Description

INFOID:000000001298200

Detects door open/closed condition.

REAR LH : Component Function Check

INFOID:000000001298201

1.CHECK FUNCTION

With CONSULT-III

Check door switches "DOOR SW-RL" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DOOR SW-RL	OPEN :ON
	CLOSE :OFF

Is the inspection result normal?

YES >> Rear door switch LH is OK.

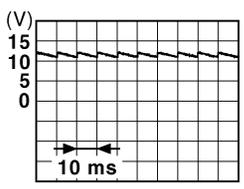
NO >> Refer to [DLK-370, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001298202

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground with oscilloscope.

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal	(-)	
M65	16	OPEN	0
		CLOSE	

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Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and rear door switch LH connector.
2. Check continuity between BCM harness connector and rear door switch LH harness connector.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BCM connector	Terminal	Rear door switch LH connector	Terminal	Continuity
M65	16	B71	2	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	16		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and rear door switch LH.

3.CHECK DOOR SWITCH

Check rear door switch LH.

Refer to [DLK-371, "REAR LH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear door switch LH. Refer to [DLK-585, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

REAR LH : Component Inspection

INFOID:000000001298203

1.CHECK DOOR SWITCH

Check rear door switch LH.

Terminal	Door switch condition	Continuity
Rear door switch LH		
2	Pressed	Exists
Ground part of door switch	Released	Does not exist

Is the inspection result normal?

YES >> Rear door switch LH is OK.

NO >> Replace rear door switch LH. Refer to [DLK-585, "Removal and Installation"](#).

REAR RH

REAR RH : Description

INFOID:000000001298204

Detects door open/close condition.

REAR RH : Component Function Check

INFOID:000000001298205

1.CHECK FUNCTION

 With CONSULT-III

Check door switches "DOOR SW-RR" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DOOR SW-RR	OPEN :ON
	CLOSE :OFF

Is the inspection result normal?

YES >> Rear door switch RH is OK.

NO >> Refer to [DLK-372, "REAR RH : Diagnosis Procedure"](#).

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DOOR SWITCH

< COMPONENT DIAGNOSIS >

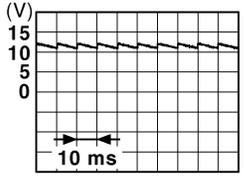
[WITH I-KEY & SUPER LOCK]

REAR RH : Diagnosis Procedure

INFOID:000000001298206

1. CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM connector and ground with oscilloscope.

Terminals		(-)	Door condition	Voltage (V) (Approx.)
(+)				
BCM connector	Terminal			
			OPEN	0
M65	12	Ground	CLOSE	

JPMIA0011GB

Is the inspection result normal?

- YES >> GO TO 4.
NO >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and rear door switch RH connector.
2. Check continuity between BCM harness connector and rear door switch RH harness connector.

BCM connector	Terminal	Rear door switch RH connector	Terminal	Continuity
M65	12	B53	2	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	12		

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness between BCM and door switch.

3. CHECK DOOR SWITCH

Check rear door switch RH.

Refer to [DLK-372, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace rear door switch RH. Refer to [DLK-585, "Removal and Installation"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

REAR RH : Component Inspection

INFOID:000000001298207

1. CHECK DOOR SWITCH

Check rear door switch RH.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal		Door switch condition	Continuity
Rear door switch RH			
2	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Rear door switch RH is OK.

NO >> Replace rear door switch RH. Refer to [DLK-585, "Removal and Installation"](#).

BACK DOOR

BACK DOOR : Description

INFOID:000000001298208

Detects back door open condition.

BACK DOOR : Component Function Check

INFOID:000000001298209

1.CHECK FUNCTION

With CONSULT-III

Check "BACK DOOR SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
BACK DOOR SW	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

YES >> Back door lock assembly (door switch) is OK.

NO >> Refer to [DLK-373, "BACK DOOR : Diagnosis Procedure"](#).

BACK DOOR : Diagnosis Procedure

INFOID:000000001298210

1.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH) INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals		Back door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	OPEN	0
M65	13		
	Ground	CLOSE	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH) CIRCUIT

1. Disconnect BCM connector back door lock assembly connector.
2. Check continuity between BCM harness connector and back door lock assembly (door switch) harness connector.

BCM connector	Terminal	Back door lock assembly (door switch) connector	Terminal	Continuity
M65	13	D190	2	Exists

3. Check continuity between BCM connector and ground.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M65	13		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and back door lock assembly (door switch).

3.CHECK BACK DOOR LOCK ASSEMBLY GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly (door switch) connector	Terminal	Ground	Continuity
D190	3		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace back door lock assembly ground circuit.

4.CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM harness connector and ground.

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	Battery voltage
M65	13	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 6.

5.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

Check back door lock assembly (door switch).

Refer to [DLK-374, "BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door lock assembly (door switch). Refer to [DLK-583, "DOOR LOCK : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR : Component Inspection

INFOID:000000001298211

1.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

Check back door lock assembly (door switch).

Terminal		Back door condition	Continuity
Back door lock assembly (door switch)			
2	1	OPEN	Exists
		CLOSE	Does not exist

Is the inspection result normal?

YES >> Back door lock assembly (door switch) is OK.

NO >> Replace back door lock assembly. Refer to [DLK-583, "DOOR LOCK : Removal and Installation"](#).

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

KEY SWITCH

Description

INFOID:000000001298212

Key switch detects that mechanical key is inserted into the key cylinder, and then transmits the signal to BCM and Intelligent Key unit.

Component Function Check

INFOID:000000001298213

1.CHECK KEY SWITCH INPUT SIGNAL

Check key switch ("KEY SW") in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
KEY SW	Insert mechanical key into key cylinder : ON
	Remove mechanical key from key cylinder : OFF

Is the inspection result normal?

YES >> Key switch is OK.

NO >> Refer to [DLK-375, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298214

1.CHECK KEY SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit connector and BCM connector.
3. Check voltage between Intelligent Key unit harness connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
Intelligent Key unit connector	Terminal	Insert mechanical key into key cylinder Remove mechanical key from key cylinder	Battery voltage 0
M40	7		

4. Check voltage between BCM harness connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Insert mechanical key into key cylinder Remove mechanical key from key cylinder	Battery voltage 0
M65	5		

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK KEY SWITCH POWER SUPPLY CIRCUIT

1. Remove mechanical key from key cylinder.
2. Disconnect ignition knob switch, key switch and key lock solenoid connector.
3. Check voltage between ignition knob switch, key switch and key lock solenoid harness connector and ground.

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminals			Voltage (V) (Approx.)
(+)		(-)	
Ignition knob switch, key switch and key lock solenoid connector	Terminal		
M25	2	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK KEY SWITCH SIGNAL CIRCUIT

1. Check continuity between Intelligent Key unit harness connector and ignition knob switch, key switch and key lock solenoid harness connector.

Intelligent Key unit connector	Terminal	Ignition knob switch, key switch and key lock solenoid connector	Terminal	Continuity
M40	7	M25	1	Exists

2. Check continuity between BCM harness connector and ignition knob switch, key switch and key lock solenoid harness connector.

BCM connector	Terminal	Ignition knob switch, key switch and key lock solenoid connector	Terminal	Continuity
M65	5	M25	1	Exists

3. Check continuity between ignition knob switch, key switch and key lock solenoid harness connector and ground.

Ignition knob switch, key switch and key lock solenoid connector	Terminal	Ground	Continuity
M25	1	Ground	Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK KEY SWITCH

Check key switch.

Refer to [DLK-376. "Component Inspection"](#).

Is the inspection result normal?

yes >> GO TO 5.

NO >> Replace key cylinder assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001298215

COMPONENT INSPECTION

1.CHECK KEY SWITCH

Check continuity between ignition knob switch, key switch and key lock solenoid terminals.

Terminal	Condition	Continuity
Ignition knob switch, key switch and key lock solenoid		

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

1	2	Insert mechanical key into key cylinder	Exists	A
		Remove mechanical key from key cylinder	Does not exist	

Is the inspection result normal?

YES >> Key switch is OK.

NO >> Replace key cylinder assembly.

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IGNITION KNOB SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

IGNITION KNOB SWITCH

Description

INFOID:000000001298216

Ignition knob switch detects that ignition knob is pressed, and then transmits the signal to Intelligent Key unit.

Component Function Check

INFOID:000000001298217

1.CHECK IGNITION KNOB SWITCH INPUT SIGNAL

Check ignition knob switch ("PUSH SW") in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
PUSH SW	Ignition knob switch is pressed : ON
	Ignition knob switch is released : OFF

Is the inspection result normal?

YES >> Ignition knob switch is OK.

NO >> Refer to [DLK-378, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298218

1.CHECK IGNITION KNOB SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit connector.
3. Check voltage between Intelligent Key unit harness connector and ground.

Terminals			Condition	Voltage (V) (Approx.)
(+) Intelligent Key unit connector		(-) Terminal		
M40	27	Ground	Ignition knob switch is pressed	Battery voltage
			Ignition knob switch is released	0

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK IGNITION KNOB SWITCH POWER SUPPLY CIRCUIT

1. Disconnect ignition knob switch, key switch and key lock solenoid connector.
2. Check voltage between ignition knob switch, key switch and key lock solenoid harness connector and ground.

Terminals			Voltage (V) (Approx.)
(+) Ignition knob switch, key switch and key lock solenoid connector		(-) Terminal	
M25	4	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK IGNITION KNOB SWITCH SIGNAL CIRCUIT

1. Check continuity between Intelligent Key unit harness connector and ignition knob switch, key switch and key lock solenoid harness connector.

IGNITION KNOB SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Intelligent Key unit connector	Terminal	Ignition knob switch, key switch and key lock solenoid connector	Terminal	Continuity
M40	27	M25	3	Exists

2. Check continuity between ignition knob switch, key switch and key lock solenoid connector and ground.

Ignition knob switch, key switch and key lock solenoid connector	Terminal	Ground	Continuity
M25	3		Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK IGNITION KNOB SWITCH

Check ignition knob switch.

Refer to [DLK-379, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace ignition knob switch, key switch and key lock solenoid.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001298219

1.CHECK IGNITION KNOB SWITCH

Check continuity between ignition knob switch, key switch and key lock solenoid terminals under the following conditions.

Ignition knob switch, key switch and key lock solenoid		Condition	Continuity
Terminal			
3	4	Ignition knob switch is pressed	Exists
		Ignition knob switch is released	Does not exist

Is the inspection result normal?

YES >> Ignition knob switch, key switch and key lock solenoid is OK.

NO >> Replace ignition knob switch, key switch and key lock solenoid.

DOOR LOCK ACTUATOR

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001480684

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:000000001480685

1. CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The all door lock actuators are unlocked
	:DR UNLK	The door lock actuator (driver side) is unlocked
	:LOCK	The all door lock actuators are locked

Is the inspection result normal?

YES >> Front door lock actuator (driver side) is OK.

NO >> Refer to [DLK-380, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001480686

1. CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	56	Lock	0 → Battery voltage → 0
	60	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT 1

1. Disconnect BCM connector and front door lock actuator (driver side) connector.
2. Check continuity between BCM harness connector and front door lock actuator (driver side) harness connector.

BCM connector	Terminal	Front door lock actuator (driver side) connector	Terminal	Continuity
M67	56	D29	1	Exists
	60		2	

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist
	60		

Is the inspection result normal?

YES >> GO TO 6.

DOOR LOCK ACTUATOR

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

NO >> GO TO 3.

3.CHECK DOOR LOCK ACTUATOR CIRCUIT 2

1. Disconnect passenger side anti-hijack relay connector.
2. Check continuity between BCM harness connector and passenger side anti-hijack relay harness connector.

BCM connector	Terminal	Passenger side anti-hijack relay connector	Terminal	Continuity
M67	56	M90	3	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR LOCK ACTUATOR CIRCUIT 3

Check passenger side anti-hijack relay.

Passenger side relay connector	Terminal	Continuity
M90	3 4	Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK DOOR LOCK ACTUATOR CIRCUIT 4

1. Check continuity between passenger side anti-hijack relay harness connector and front door lock actuator (driver side) harness connector.

Passenger side anti-hijack relay connector	Terminal	Front door lock actuator (driver side) connector	Terminal	Continuity
M90	4	D29	1	Exists

2. Check continuity between passenger side anti-hijack relay harness connector and ground.

Passenger side anti-hijack relay connector	Terminal	Ground	Continuity
M90	4		Does not exist

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Description

Locks/unlocks the door with the signal from BCM.

INFOID:000000001480688

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

PASSENGER SIDE : Component Function Check

INFOID:000000001480689

1.CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The all door lock actuators are unlocked
	:AS UNLK	The door lock actuator (passenger side) is locked
	:LOCK	The all door lock actuators are locked

Is the inspection result normal?

YES >> Front door lock actuator (passenger side) is OK.

NO >> Refer to [DLK-382, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001480690

1.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals			Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)			
BCM connector	Terminal	Ground	Lock	0 → Battery voltage → 0
M67	56		Unlock	0 → Battery voltage → 0
	54			

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and front door lock actuator (passenger side) connector.
2. Check continuity between BCM harness connector and front door lock actuator (passenger side) harness connector.

BCM connector	Terminal	Front door lock actuator (passenger side) connector	Terminal	Continuity
M67	56	D68	2	Exists
	54		1	

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist
	54		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

REAR LH

REAR LH : Description

INFOID:000000001480692

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:000000001480693

1. CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The all door lock actuators are unlocked
	:LOCK	The all door lock actuators are locked

Is the inspection result normal?

YES >> Rear door lock actuator LH is OK.

NO >> Refer to [DLK-383. "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001480694

1. CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	56	Lock	0 → Battery voltage → 0
	54	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT 1

1. Disconnect BCM connector and rear door lock actuator LH connector.
2. Check continuity between BCM harness connector and rear door lock actuator LH harness connector.

BCM connector	Terminal	Rear door lock actuator LH connector	Terminal	Continuity
M67	56	D115	1	Exists
	54		2	

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Ground
	54		

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 3.

3. CHECK DOOR LOCK ACTUATOR CIRCUIT 2

1. Disconnect passenger side anti-hijack relay connector.

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DOOR LOCK ACTUATOR

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

2. Check continuity between BCM harness connector and passenger side anti-hijack relay harness connector.

BCM connector	Terminal	Passenger side anti-hijack relay connector	Terminal	Continuity
M67	56	M90	3	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR LOCK ACTUATOR CIRCUIT 3

Check passenger side anti-hijack relay.

Passenger side anti-hijack relay connector	Terminal	Continuity
M90	3 4	Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK DOOR LOCK ACTUATOR CIRCUIT 4

1. Check continuity between passenger side anti-hijack relay harness connector and rear door lock actuator LH harness connector.

Passenger side anti-hijack relay connector	Terminal	Rear door lock actuator LH connector	Terminal	Continuity
M90	4	D115	1	Exists

2. Check continuity between passenger side anti-hijack relay harness connector and ground.

Passenger side anti-hijack relay connector	Terminal	Ground	Continuity
M90	4		Does not exist

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

REAR RH

REAR RH : Description

INFOID:000000001480696

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:000000001480697

1.CHECK FUNCTION

 With CONSULT-III

DOOR LOCK ACTUATOR

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The all door lock actuators are unlocked
	:LOCK	The all door lock actuators are locked

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-385, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001480698

1. CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Ground	0 → Battery voltage → 0
M67	56		
		54	Unlock

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect BCM connector and rear door lock actuator RH connector.
3. Check continuity between BCM harness connector and rear door lock actuator RH harness connector.

BCM connector	Terminal	Rear door lock actuator RH connector	Terminal	Continuity
M67	56	D95	2	Exists
	54		1	

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		
	54		

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 3.

3. CHECK DOOR LOCK ACTUATOR CIRCUIT 2

1. Disconnect passenger side anti-hijack relay.
2. Check continuity between BCM harness connector and passenger side anti-hijack relay harness connector.

BCM connector	Terminal	Anti-hijack relay connector	Terminal	Continuity
M67	56	M90	3	Exists

3. Check continuity between BCM harness connector and ground.

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR LOCK ACTUATOR CIRCUIT 3

Check passenger side anti-hijack relay.

Anti-hijack relay connector	Terminal		Continuity
M90	4	3	Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK DOOR LOCK ACTUATOR CIRCUIT 4

1. Check continuity between passenger side anti-hijack relay harness connector and rear door lock actuator RH harness connector.

Passenger side anti-hijack relay connector	Terminal	Rear door lock actuator RH connector	Terminal	Continuity
M90	3	D95	3	Exists

2. Check continuity between passenger side anti-hijack relay harness connector and ground.

Passenger side anti-hijack relay connector	Terminal	Ground	Continuity
M90	3		Does not exist

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SUPER LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001298292

The super lock system is controlled by BCM.

DRIVER SIDE : Component Function Check

INFOID:000000001298293

1.CHECK FUNCTION

With CONSULT-III

Check "SUPER LOCK" in "Active Test" mode with CONSULT-III.

Test item	Condition
SUPER LOCK :LOCK (SET)	The super lock actuator is locked (SET)
SUPER LOCK :UNLOCK (RELEASE)	The super lock actuator is unlocked (RELEASE)

Is the inspection result normal?

YES >> Front super lock actuator (driver side) is OK.

NO >> Refer to [DLK-387, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001298294

1.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	UNLOCK (RELEASE) LOCK (SET)	0 → Battery voltage → 0
M67	60		
	59		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator (driver side) connector.
3. Check continuity between BCM connector and front door lock actuator (driver side) connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	59	D29	1	Exists
	60		2	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	59	Ground	Does not exist
	60		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001298296

The super lock system is controlled by BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000001298297

1. CHECK FUNCTION

With CONSULT-III

Check "SUPER LOCK" in "Active Test" mode with CONSULT-III.

Test item	Condition
SUPER LOCK	:LOCK (SET) The super lock actuator is locked (SET)
	:UNLOCK (RELEASE) The super lock actuator is unlocked (RELEASE)

Is the inspection result normal?

YES >> Front super lock actuator (passenger side) is OK.

NO >> Refer to [DLK-388. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001298298

1. CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	54	UNLOCK (RELEASE)	0 → Battery voltage → 0
	59	LOCK (SET)	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK SUPER LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator (passenger side) connector.
3. Check continuity between BCM connector and front door lock actuator (passenger side) connector.

BCM connector	Terminal	Front door lock actuator (passenger side) connector	Terminal	Continuity
M67	59	D68	1	Exists
	54		2	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	59		Does not exist
	54		

Is the inspection result normal?

SUPER LOCK ACTUATOR

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

- YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END.

REAR LH

REAR LH : Description

INFOID:000000001298300

The super lock system is controlled by BCM.

REAR LH : Component Function Check

INFOID:000000001298301

1.CHECK FUNCTION

With CONSULT-III

Check "SUPER LOCK" in "Active Test" mode with CONSULT-III.

Test item	Condition
SUPER LOCK :LOCK (SET)	The super lock actuator is locked (SET)
SUPER LOCK :UNLOCK (RELEASE)	The super lock actuator is unlocked (RELEASE)

Is the inspection result normal?

- YES >> Rear super lock actuator LH is OK.
NO >> Refer to [DLK-389. "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001298302

1.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Ground	0 → Battery voltage → 0
M67	54		
	59	LOCK (SET)	

Is the inspection result normal?

- YES >> GO TO 3.
NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM and rear door lock actuator LH connector.
- Check continuity between BCM connector and rear door lock actuator LH connector.

BCM connector	Terminal	Rear door lock actuator (passenger side) connector	Terminal	Continuity
M67	59	D115	1	Exists
	54		2	

- Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	59		
	54		

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SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END.

REAR RH

REAR RH : Description

INFOID:000000001298304

The super lock system is controlled by BCM.

REAR RH : Component Function Check

INFOID:000000001298305

1.CHECK FUNCTION

With CONSULT-III

Check "SUPER LOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
SUPER LOCK	:LOCK (SET)	The super lock actuator is locked (SET)
	:UNLOCK (RELEASE)	The super lock actuator is unlocked (RELEASE)

Is the inspection result normal?

YES >> Rear super lock actuator RH is OK.

NO >> Refer to [DLK-390. "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001298306

1.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	54	UNLOCK (RELEASE)	0 → Battery voltage → 0
	59	LOCK (SET)	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock actuator RH connector.
3. Check continuity between BCM connector and rear door lock actuator RH connector.

BCM connector	Terminal	Rear door lock actuator RH connector	Terminal	Continuity
M67	59	D95	1	Exists
	54		2	

4. Check continuity between BCM connector and ground.

SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M67	59		Ground
	54		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END.

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BACK DOOR OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER ACTUATOR

Description

INFOID:000000001298236

Opens the back door with the signal from BCM.

Component Function Check

INFOID:000000001298237

1.CHECK FUNCTION

With CONSULT-III

Check "TRUNK/GLASS HATCH" in "Active Test" mode with CONSULT-III.

Test item	Condition
TRUNK/GLASS HATCH :OPEN	Back door opener actuator operation

Is the inspection result normal?

YES >> Back door opener actuator is OK.

NO >> Refer to [DLK-392, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298238

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals		Condition of back door opener switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Pressed	0 → Battery voltage → 0
M66	45		

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK BACK DOOR LOCK ASSEMBLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and back door lock assembly connector.
3. Check continuity between BCM harness connector and back door lock assembly harness connector.

BCM connector	Terminal	Back door lock assembly connector	Terminal	Continuity
M66	45	D190	4	Exists

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M66	45		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BACK DOOR LOCK ASSEMBLY GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly connector	Terminal	Ground	Continuity
D190	3		Exists

Is the inspection result normal?

BACK DOOR OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

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FUEL LID OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

FUEL LID OPENER ACTUATOR

Description

INFOID:000000001298240

Locks/unlocks the fuel lid with the signal from BCM.

Component Function Check

INFOID:000000001298241

1.CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The fuel lid opener actuator are unlocked
	:DR UNLK	The fuel lid opener actuator is unlocked
	:LOCK	The fuel lid opener actuator are locked

Is the inspection result normal?

YES >> Fuel lid opener actuator is OK.

NO >> Refer to [DLK-394. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298242

1.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	56	Lock	0 → Battery voltage → 0
	60	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK FUEL LID OPENER ACTUATOR CIRCUIT 1

1. Disconnect BCM connector and fuel lid opener actuator connector.
2. Check continuity between BCM harness connector and fuel lid opener actuator harness connector.

BCM connector	Terminal	Fuel lid opener actuator connector	Terminal	Continuity
M67	56	B58	2	Exists
	60		1	

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist
	60		

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 3.

3.CHECK FUEL LID OPENER ACTUATOR CIRCUIT 2

FUEL LID OPENER ACTUATOR

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

1. Disconnect passenger side anti-hijack relay connector.
2. Check continuity between BCM harness connector and passenger side anti-hijack relay connector.

BCM connector	Terminal	Passenger side anti-hijack relay connector	Terminal	Continuity
M67	56	M90	3	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK FUEL LID OPENER ACTUATOR CIRCUIT 3

Check passenger side of anti-hijack relay.

Passenger side anti-hijack relay connector	Terminal		Continuity
M90	3	4	Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK DOOR LOCK ACTUATOR CIRCUIT 4

1. Check continuity between passenger side anti-hijack relay harness connector and fuel lid opener actuator harness connector.

Passenger side anti-hijack relay connector	Terminal	Fuel lid opener actuator connector	Terminal	Continuity
M90	4	B58	2	Exists

2. Check continuity between passenger side anti-hijack relay harness connector and ground.

Passenger side anti-hijack relay connector	Terminal	Ground	Continuity
M90	4		Does not exist

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

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BACK DOOR OPENER SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH

Description

INFOID:000000001298244

Sends the back door opening signal to BCM.

Component Function Check

INFOID:000000001298245

1.CHECK FUNCTION

With CONSULT-III

Check "TRNK OPNR SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
TRNK OPNR SW	Back door opener switch is pressed :ON
	Back door opener switch is released :OFF

Is the inspection result normal?

YES >> Back door opener switch is OK.

NO >> Refer to [DLK-396, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298246

1.CHECK BCM INPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals		Condition of back door opener switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	29	Pressed	0
		Released	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and back door opener switch assembly (opener switch) connector.
3. Check continuity between BCM harness connector and back door opener switch assembly (opener switch) harness connector.

BCM connector	Terminal	Back door opener switch assembly (opener switch) connector	Terminal	Continuity
M65	29	D186	1	Exists

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	29		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

BACK DOOR OPENER SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminals			Voltage (V) (Approx.)
(+)		(-)	
BCM connector	Terminal		
M65	29	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 6.

4.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

Check continuity between back door opener switch assembly (opener switch) connector and ground.

Back door opener switch assembly (opener switch) connector	Terminal	Ground	Continuity
D186	2		Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch assembly (opener switch).

Refer to [DLK-397. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door opener switch assembly. Refer to [DLK-593. "Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001298247

DLK

1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch assembly (opener switch).

Back door opener switch assembly (opener switch)	Terminal		Back door opener switch condition	Continuity
D186	1	2	Pressed	Exists
			Released	Does not exist

Is the inspection result normal?

YES >> Back door opener switch assembly (opener switch) is OK.

NO >> Replace back door opener switch assembly. Refer to [DLK-593. "Removal and Installation"](#).

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001298248

Detects whether Intelligent Key is outside the vehicle.
Integrated in front outside handle (driver side).

DRIVER SIDE : Component Function Check

INFOID:000000001298249

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

Ⓟ With CONSULT-III

1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
2. Touch "DRIVER ANT".
3. When Intelligent Key is in outside key antenna (driver side) detection area, LED (on Intelligent Key) blinks.

Test Item	Outside Antenna
ANTENNA :DRIVER ANT	Outside key antenna (driver side)

Is the inspection result normal?

- YES >> Outside key antenna (driver side) is OK.
NO >> Refer to [DLK-404, "BACK DOOR : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001298250

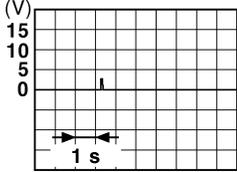
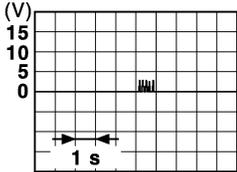
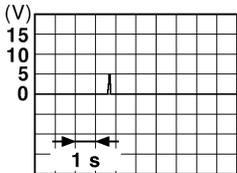
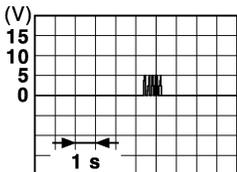
1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminals			(-)	Condition	Signal (Reference value)	
(+)		Terminal				
Intelligent Key unit connector	Terminal					
M40	Driver side (+)	19	Ground	Request switch is pressed	When Intelligent Key is in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0397ZZ</p>
					When Intelligent Key is not in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>
	Driver side (-)	20			When Intelligent Key is in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0395ZZ</p>
					When Intelligent Key is not in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0515ZZ</p>

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and outside key antenna and front door request switch (driver side) connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna and front door request switch (driver side) harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna and front door request switch (driver side) connector	Terminal	Continuity
M40	19	D30	1	Exists
	20		2	

3. Check continuity between Intelligent Key unit connector and ground.

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OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	19	Ground	Does not exist
	20		

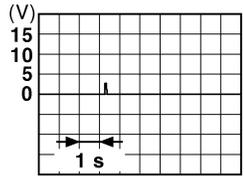
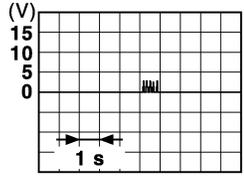
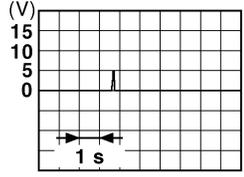
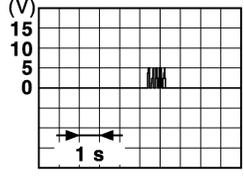
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna (driver side).

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna. (New antenna or other antenna)
2. Connect Intelligent Key unit connector and outside key antenna connector.
3. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

Terminals			Condition	Signal (Reference value)
(+)		(-)		
Intelligent Key unit connector	Terminal			
M40	Driver side (+)	19	Door request switch is pressed	 <p style="text-align: right; font-size: small;">JMKIA0397ZZ</p>
	Driver side (+)	19	When Intelligent Key is not in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>
	Driver side (-)	20	Door request switch is pressed	 <p style="text-align: right; font-size: small;">JMKIA0395ZZ</p>
	Driver side (-)	20	When Intelligent Key is not in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0515ZZ</p>

Is the inspection result normal?

YES >> Replace outside key antenna and front door request switch (driver side). Refer to [DLK-575, "OUTSIDE HANDLE : Removal and Installation"](#).

NO >> GO TO 4.

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001298251

Detects whether Intelligent Key is outside the vehicle.
Integrated in front outside handle (passenger side).

PASSENGER SIDE : Component Function Check

INFOID:000000001298252

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
2. Touch "ASSIST ANT".
3. When Intelligent Key is in outside key antenna (passenger side) detection area, LED (on Intelligent Key) blinks.

Test Item	Outside Antenna
ANTENNA :ASSIST ANT	Outside key antenna (passenger side)

Is the inspection result normal?

YES >> Outside key antenna (passenger side) is OK.

NO >> Refer to [DLK-401. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001298253

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

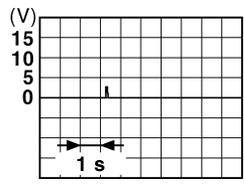
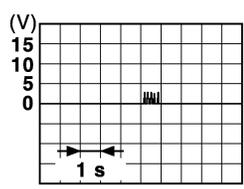
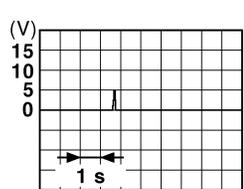
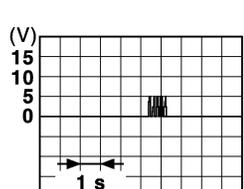
1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

DLK

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminals			(-)	Condition	Signal (Reference value)	
(+)		Terminal				
Intelligent Key unit connector						
M40	Passenger side (+)	37	Ground	Request switch is pressed	When Intelligent Key is in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0397ZZ</p>
					When Intelligent Key is not in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>
	Passenger side (-)	38			When Intelligent Key is in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0395ZZ</p>
					When Intelligent Key is not in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0515ZZ</p>

Is the inspection result normal?

- YES >> GO TO 4.
NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and outside key antenna and front door request switch (passenger side) connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna and front door request switch (passenger side) harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna and front door request switch (passenger side) connector	Terminal	Continuity
M40	37	D69	1	Exists
	38		2	

3. Check continuity between Intelligent Key unit harness connector and ground.

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	37		
	38		

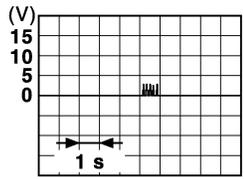
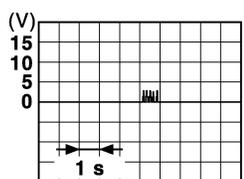
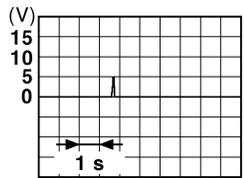
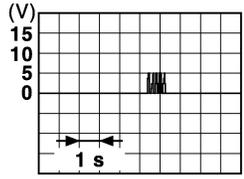
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna and front door request switch (passenger side).

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna. (New antenna or other antenna)
2. Connect Intelligent Key unit connector and outside key antenna connector.
3. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

Terminal		(-)	Condition	Signal (Reference value)
(+)				
Intelligent Key unit connector	Terminal			
M40	Passenger side (+)	37	Ground	When Intelligent Key is in the antenna detection area.  <small>JMKIA0514ZZ</small>
	Passenger side (+)	37	Door request switch is pressed	When Intelligent Key is not in the antenna detection area.  <small>JMKIA0514ZZ</small>
	Passenger side (-)	38	Ground	When Intelligent Key is in the antenna detection area.  <small>JMKIA0395ZZ</small>
	Passenger side (-)	38	Ground	When Intelligent Key is not in the antenna detection area.  <small>JMKIA0515ZZ</small>

Is the inspection result normal?

YES >> Replace outside key antenna and front door request switch (passenger side). Refer to [DLK-575, "OUTSIDE HANDLE : Removal and Installation"](#).

OUTSIDE KEY ANTENNA

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

NO >> GO TO 4.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR

BACK DOOR : Description

INFOID:000000001298254

Detects whether Intelligent Key is outside the vehicle.
Installed in rear bumper.

BACK DOOR : Component Function Check

INFOID:000000001298255

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
2. Touch "BK DOOR ANT".
3. When Intelligent Key is in outside key antenna (rear bumper) detection area, LED (on Intelligent Key) blinks.

Test Item	Outside Antenna
ANTENNA :BK DOOR ANT	Outside key antenna (rear bumper)

Is the inspection result normal?

YES >> Outside key antenna (back door) is OK.

NO >> Refer to [DLK-404, "BACK DOOR : Diagnosis Procedure"](#).

BACK DOOR : Diagnosis Procedure

INFOID:000000001298256

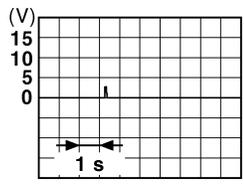
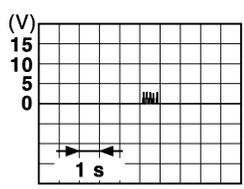
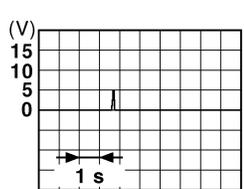
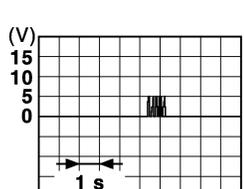
1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal			(-)	Condition	Signal (Reference value)	
(+)		Terminal				
Intelligent Key unit connector	Terminal					
M40	Rear bumper (+)	17	Ground	Request switch is pressed	When Intelligent Key is in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0397ZZ</p>
				When Intelligent Key is not in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>	
	Rear bumper (-)	18		When Intelligent Key is in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0395ZZ</p>	
				When Intelligent Key is not in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0515ZZ</p>	

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and outside key antenna (back door) connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna (back door) harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna (back door) connector	Terminal	Continuity
M40	17	D191	1	Exists
	18		2	

3. Check continuity between Intelligent Key unit harness connector and ground.

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OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

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INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Description

INFOID:000000001298257

Detects whether Intelligent Key is inside the vehicle.

INSTRUMENT CENTER : Component Function Check

INFOID:000000001298258

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
2. Touch "ROOM ANT 2".
3. When Intelligent Key is in inside key antenna (instrument center) detection area, LED (on Intelligent Key) blinks.

Test Item	Inside Antenna
ANTENNA :ROOM ANT 2	Inside key antenna (instrument center)

Is the inspection result normal?

YES >> Inside key antenna (instrument center) is OK.

NO >> Refer to [DLK-408, "INSTRUMENT CENTER : Diagnosis Procedure"](#).

INSTRUMENT CENTER : Diagnosis Procedure

INFOID:000000001298259

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminals			(-)	Condition	Signal (Reference value)	
(+)		Terminal				
Intelligent Key unit connector	Terminal					
M40	Instrument center (+)	33	Ground	When Intelligent Key is in the antenna de- tection area.		
				When Intelligent Key is not in the antenna de- tection area.		
				34	When Intelligent Key is in the antenna de- tection area.	
						When Intelligent Key is not in the antenna de- tection area.

- All doors are closed
- Ignition knob switch is pressed

Is the inspection result normal?

- YES >> GO TO 4.
NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and inside key antenna (instrument center) connector.
2. Check continuity between Intelligent Key unit harness connector and inside key antenna (instrument center) harness connector.

Intelligent Key unit connector	Terminal	Inside key antenna (instrument center) connector	Terminal	Continuity
M40	33	M56	1	Exists
	34		2	

3. Check continuity between Intelligent Key unit harness connector and ground.

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INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	33		Does not exist
	34		

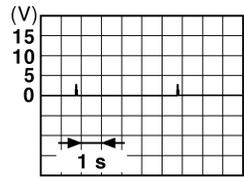
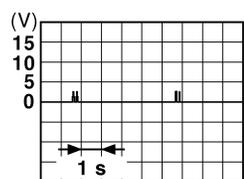
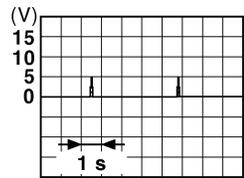
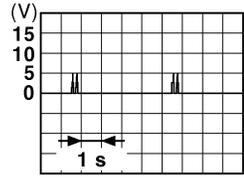
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and inside key antenna (instrument center).

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace inside key antenna. (New antenna or other antenna)
2. Connect Intelligent Key unit connector and inside key antenna (instrument center) connector.
3. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

Terminals			Condition	Signal (Reference value)
(+)		(-)		
Intelligent Key unit connector	Terminal			
M40	Instrument center (+)	33	Ground • All doors are closed • Ignition knob switch is pressed	When Intelligent Key is in the antenna detection area.  <p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
				When Intelligent Key is not in the antenna detection area.  <p style="text-align: right; font-size: small;">JMKIA0391ZZ</p>
	Instrument center (-)	34		When Intelligent Key is in the antenna detection area.  <p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
				When Intelligent Key is not in the antenna detection area.  <p style="text-align: right; font-size: small;">JMKIA0390ZZ</p>

Is the inspection result normal?

YES >> Replace inside key antenna (instrument center). Refer to [DLK-586, "INSTRUMENT CENTER : Removal and Installation"](#).

INSIDE KEY ANTENNA

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

NO >> GO TO 4.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

CONSOLE

CONSOLE : Description

INFOID:000000001298260

Detects whether Intelligent Key is inside the vehicle.

CONSOLE : Component Function Check

INFOID:000000001298261

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL

With CONSULT-III

1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
2. Touch "ROOM ANT 1".
3. When Intelligent Key is in inside key antenna (console) detection area, LED (on Intelligent Key) blinks.

Test Item	Inside Antenna
ANTENNA :ROOM ANT 1	Inside key antenna (console)

Is the inspection result normal?

YES >> Inside key antenna (console) is OK.

NO >> Refer to [DLK-411, "CONSOLE : Diagnosis Procedure"](#).

CONSOLE : Diagnosis Procedure

INFOID:000000001298262

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

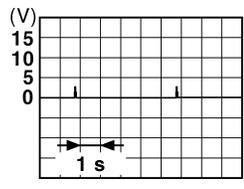
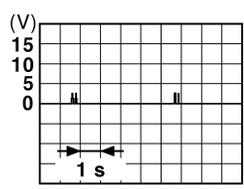
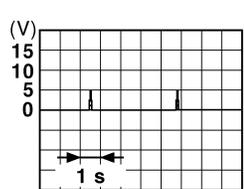
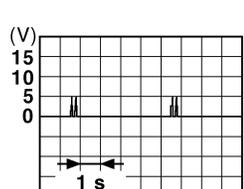
1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

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INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal			(-)	Condition	Signal (Reference value)
(+)		Terminal			
Intelligent Key unit connector	Terminal				
M40	Console (+)	15	Ground	When Intelligent Key is in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
				When Intelligent Key is not in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0391ZZ</p>
	Console (-)	16		When Intelligent Key is in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
				When Intelligent Key is not in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0390ZZ</p>

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and inside key antenna (console) connector.
2. Check continuity between Intelligent Key unit harness connector and inside key antenna (console) harness connector.

Intelligent Key unit connector	Terminal	Inside key antenna (console) connector	Terminal	Continuity
M40	15	M252	1	Exists
	16		2	

3. Check continuity between Intelligent Key unit harness connector and ground.

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	15		
	16		

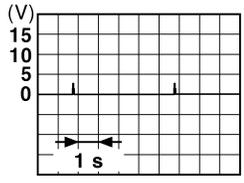
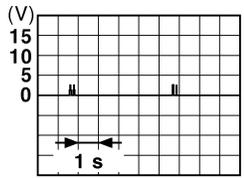
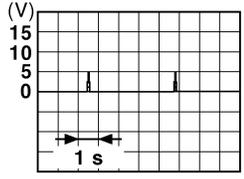
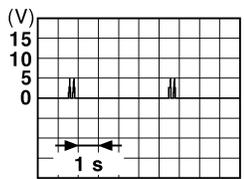
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and inside key antenna (console).

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace inside key antenna. (New antenna or other antenna)
2. Connect Intelligent Key unit connector and inside key antenna (console) connector.
3. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

Terminal			(-)	Condition	Signal (Reference value)
(+)		Terminal			
Intelligent Key unit connector	Terminal				
M40	Console (+)	15	Ground	When Intelligent Key is in the antenna detection area.	
				When Intelligent Key is not in the antenna detection area.	
				When Intelligent Key is in the antenna detection area.	
				When Intelligent Key is not in the antenna detection area.	

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to [DLK-587, "CONSOLE : Removal and Installation"](#).

NO >> GO TO 4.

4. CHECK INTERMITTENT INCIDENT

INSIDE KEY ANTENNA

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

REAR SEAT

REAR SEAT : Description

INFOID:000000001298263

Detects whether Intelligent Key is inside the vehicle.

REAR SEAT : Component Function Check

INFOID:000000001298264

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL

ⓑ With CONSULT-III

1. Check "ANTENNA" in "Active Test" mode with CONSULT-III.
2. Touch "ROOM ANT 2".
3. When Intelligent Key is in inside key antenna (rear seat) detection area, LED (on Intelligent Key) blinks.

Test Item	Inside Antenna
ANTENNA :ROOM ANT 2	Inside key antenna (rear seat)

Is the inspection result normal?

YES >> Inside key antenna (rear seat) is OK.

NO >> Refer to [DLK-414, "REAR SEAT : Diagnosis Procedure"](#).

REAR SEAT : Diagnosis Procedure

INFOID:000000001298265

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal			(-)	Condition	Signal (Reference value)
(+)		Terminal			
Intelligent Key unit connector	Terminal				
M40	Rear seat (+)	13	Ground	When Intelligent Key is in the antenna detection area.	
				When Intelligent Key is not in the antenna detection area.	
				When Intelligent Key is in the antenna detection area.	
				When Intelligent Key is not in the antenna detection area.	

- All doors are closed
- Ignition knob switch is pressed

Is the inspection result normal?

- YES >> GO TO 4.
NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and inside key antenna (rear seat) connector.
2. Check continuity between Intelligent Key unit harness connector and inside key antenna (rear seat) harness connector.

Intelligent Key unit connector	Terminal	Inside key antenna (rear seat) connector	Terminal	Continuity
M40	13	B45	1	Exists
	14		2	

3. Check continuity between Intelligent Key unit harness connector and ground.

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INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	13	Ground	Does not exist
	14		

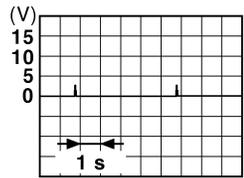
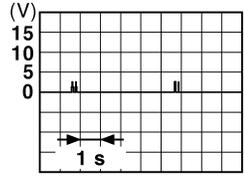
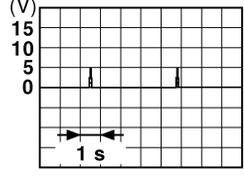
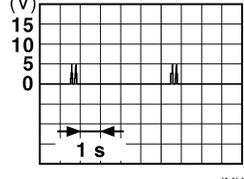
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and inside key antenna (rear seat).

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace inside key antenna. (New antenna or other antenna)
2. Connect Intelligent Key unit connector and inside key antenna (rear seat) connector.
3. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

Terminal			Condition	Signal (Reference value)
(+)		(-)		
Intelligent Key unit connector	Terminal			
M40	Rear seat (+)	13	• All doors are closed • Ignition knob switch is pressed	When Intelligent Key is in the antenna detection area.  <p style="text-align: right; font-size: small;">JMkia0393ZZ</p>
				When Intelligent Key is not in the antenna detection area.  <p style="text-align: right; font-size: small;">JMkia0391ZZ</p>
	Rear seat (-)	14		When Intelligent Key is in the antenna detection area.  <p style="text-align: right; font-size: small;">JMkia0392ZZ</p>
				When Intelligent Key is not in the antenna detection area.  <p style="text-align: right; font-size: small;">JMkia0390ZZ</p>

Is the inspection result normal?

YES >> Replace inside key antenna (rear seat). Refer to [DLK-588, "REAR : Removal and Installation"](#).

NO >> GO TO 4.

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

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ANTI-HIJACK RELAY

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

ANTI-HIJACK RELAY PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001298266

Receives anti-hijack signal from Intelligent Key unit.

PASSENGER SIDE : Component Function Check

INFOID:000000001298267

1.CHECK FUNCTION

1. All doors are locked using Intelligent Key or door request switch.
2. Press door request switch (passenger side), only passenger side door is UNLOCK.

Is the inspection result normal?

- YES >> Anti-hijack relay is OK.
NO >> Refer to [DLK-418, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001298268

1.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL 1

Check voltage between Intelligent Key unit harness connector and ground.

Terminal			Condition	Voltage (V) (Approx.)
(+)		(-)		
Intelligent Key unit connector	Terminal			
M40	11	Ground	Ignition switch OFF	Battery voltage

Is the inspection result normal?

- YES >> GO TO 2.
NO >> GO TO 6.

2.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL 2

Check voltage between Intelligent Key unit harness connector and ground.

Terminal			Condition	Voltage (V) (Approx.)
(+)		(-)		
Intelligent Key unit connector	Terminal			
M40	40	Ground	Press front door request switch (passenger side)	Battery voltage → 0 → Battery voltage
			Anti-hijack operation	Battery voltage
			Other than above	Battery voltage

Is the inspection result normal?

- YES >> GO TO 3.
NO >> GO TO 4.

3.CHECK INTELLIGENT KEY UNIT GROUND CIRCUIT

Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	12		Exists

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Repair harness or connector.

ANTI-HIJACK RELAY

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

4. CHECK PASSENGER SIDE ANTI-HIJACK RELAY GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect passenger side anti-hijack relay connector and Intelligent Key unit connector.
3. Check voltage between passenger side anti-hijack relay harness connector and ground.

Terminal (+)		Terminal (-)	Condition	Voltage (V) (Approx.)
Passenger side anti-hijack relay connector	Terminal			
M90	2	Ground	Ignition switch OFF	Battery voltage

4. Check continuity between passenger side anti-hijack relay harness connector and Intelligent Key unit connector.

Passenger side anti-hijack relay connector	Terminal	Intelligent Key unit connector	Terminal	Continuity
M90	1	M40	40	Exists

5. Check continuity between passenger side anti-hijack relay harness connector and ground.

Passenger side anti-hijack relay connector	Terminal	Ground	Continuity
M90	1		Does not exist

Is the inspection result normal?

- YES >> GO TO 5.
NO >> GO TO 6.

5. CHECK PASSENGER SIDE ANTI-HIJACK RELAY

Check passenger side anti-hijack relay.

Refer to [DLK-419, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 6.
NO >> Replace passenger side anti-hijack relay. Refer to [DLK-309, "DOOR LOCK AND UNLOCK SWITCH : Component Parts Location"](#).

6. CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000001298269

1. CHECK ANTI-HIJACK RELAY

Check continuity passenger side anti-hijack relay terminals.

Passenger side anti-hijack relay connector	Terminal		Condition	Continuity
M90	4	3	Battery voltage direct current supply between terminals 1 and 2	Does not exist
			Other than above	Exists

Is the inspection result normal?

- YES >> Passenger side anti-hijack relay is OK.
NO >> Replace passenger side anti-hijack relay. Refer to [DLK-309, "DOOR LOCK AND UNLOCK SWITCH : Component Parts Location"](#).

INTELLIGENT KEY WARNING BUZZER

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY WARNING BUZZER

Description

INFOID:000000001298270

Answers back and warns about an inappropriate operation.

Component Function Check

INFOID:000000001298271

1. CHECK FUNCTION

With CONSULT-III

Check Intelligent Key warning buzzer "OUTSIDE BUZZER" in "Active Test" mode with CONSULT-III.

Is the inspection result normal?

- YES >> Intelligent Key warning buzzer is OK.
- NO >> Refer to [DLK-420, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298272

1. CHECK INTELLIGENT KEY UNIT INPUT SIGNAL 1

Check voltage between Intelligent Key unit harness connector and ground.

Terminal (+)		Terminal (-)	Warning buzzer operation condition	Voltage (V) (Approx.)
Intelligent Key unit connector	Terminal			
M40	4	Ground	Sounding	0
			Not sounding	Battery voltage

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> GO TO 2.

2. CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key warning buzzer connector.
3. Check voltage between Intelligent Key warning buzzer harness connector and ground.

Terminal (+)		Terminal (-)	Voltage (V) (Approx.)
Intelligent Key warning buzzer connector	Terminal		
E25	1	Ground	Battery voltage

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace Intelligent Key warning buzzer power supply circuit.

3. CHECK HARNESS CONTINUITY

1. Disconnect Intelligent Key unit connector.
2. Check continuity between Intelligent Key warning buzzer harness connector and Intelligent Key unit harness connector.

Intelligent Key warning buzzer connector	Terminal	Intelligent Key unit connector	Terminal	Continuity
E25	3	M40	4	Exists

3. Check continuity between Intelligent Key warning buzzer harness connector and ground.

INTELLIGENT KEY WARNING BUZZER

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Intelligent Key warning buzzer connector	Terminal	Ground	Continuity
E25	3		Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness between Intelligent Key warning buzzer and Intelligent Key unit.

4.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-421, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-591, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001298273

1.CHECK INTELLIGENT KEY WARNING BUZZER

Connect battery power supply to Intelligent Key warning buzzer terminals 1 and 3, and check the operation.

Intelligent Key warning buzzer connector	Terminal		Operation
	(+)	(-)	Buzzer sounds
E25	1	3	

Is the inspection result normal?

YES >> Intelligent Key warning buzzer is OK.

NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-591, "Removal and Installation"](#).

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BUZZER (COMBINATION METER)

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BUZZER (COMBINATION METER)

Description

INFOID:000000001298274

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:000000001298275

1.CHECK FUNCTION

With CONSULT-III

Check the operation with "INSIDE BUZZER" in "Active Test" with CONSULT-III.

Test item	Condition	
INSIDE BUZZER	:TAKE OUT	Take away warning chime sounds
	:KNOB	Ignition knob switch warning chime sounds
	:KEY	Key warning chime sounds

Is the inspection result normal?

- Yes >> Warning buzzer in combination meter is OK.
- No >> Refer to [DLK-422. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298276

1.CHECK BUZZER (COMBINATION METER) CIRCUIT

Refer to [WCS-16. "Component Function Check"](#).

Is the inspection result normal?

- Yes >> GO TO 2.
- No >> Repair or replace buzzer (combination meter) circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

KEY WARNING LAMP

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

KEY WARNING LAMP

Description

INFOID:000000001298277

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:000000001298278

1.CHECK FUNCTION

With CONSULT-III

Check the operation with "INDICATOR" in "Active Test" mode with CONSULT-III.

Test item	Condition	
INDICATOR	:BLUE ON	Key warning lamp (green) illuminates
	:RED ON	Key warning lamp (red) illuminates
	:BLUE IND	Key warning lamp (green) flashes
	:RED IND	Key warning lamp (red) flashes

Is the inspection result normal?

Yes >> Key warning lamp in combination meter is OK.

No >> Refer to [DLK-423. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298279

1.CHECK KEY WARNING LAMP CIRCUIT

Refer to [MWI-24. "Diagnosis Description"](#) .

Is the inspection result normal?

Yes >> GO TO 2.

No >> Repair or replace key warning lamp circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

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LOCK WARNING LAMP

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

LOCK WARNING LAMP

Description

INFOID:000000001298280

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:000000001298281

1.CHECK FUNCTION

With CONSULT-III

Check the operation with "INDICATOR" in "Active Test" mode with CONSULT-III.

Test item	Condition	
INDICATOR	:KNOB ON	Lock warning lamp illuminates
	:KNOB IND	Lock warning lamp flashes

Is the inspection result normal?

- Yes >> Lock warning lamp in combination meter is OK.
- No >> Refer to [DLK-424, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298282

1.CHECK LOCK WARNING LAMP CIRCUIT

Refer to [MWI-24, "Diagnosis Description"](#).

Is the inspection result normal?

- Yes >> GO TO 2.
- No >> Repair or replace lock warning lamp circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

HAZARD WARNING LAMPS

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

HAZARD WARNING LAMPS

Description

INFOID:000000001298283

Performs answer-back for each operation with the number of blinks.

Component Function Check

INFOID:000000001298284

1.CHECK FUNCTION

With CONSULT-III

Check hazard warning lamp "FLASHER" in "Active Test" mode with CONSULT-III.

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.

NO >> Refer to [DLK-425, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298285

1.CHECK HAZARD SWITCH CIRCUIT

Check hazard switch circuit.

Refer to [EXL-84, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace hazard warning switch circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

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VEHICLE SPEED SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

VEHICLE SPEED SIGNAL CIRCUIT

Description

INFOID:000000001298286

Displays the vehicle speed signal received from combination meter as a numerical value (km/h).

Component Function Check

INFOID:000000001298287

1.CHECK FUNCTION

Check that all doors are automatically locked at the vehicle speed of more than 25 km/h (16 MPH).

Is the inspection result normal?

- YES >> Vehicle speed signal circuit is OK.
- NO >> Refer to [DLK-426, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298288

1.CHECK VEHICLE SPEED SIGNAL CIRCUIT

Check vehicle speed signal "VEHICLE SPEED" in "Data Monitor" mode with CONSULT-III.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace vehicle speed signal circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

INTELLIGENT KEY BATTERY

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY BATTERY

Description

INFOID:000000001298289

The following functions are available when having and carrying electronic ID.

- Door lock and unlock
- Engine start

Remote control entry function and panic alarm function are available when operating the button.

Component Function Check

INFOID:000000001298290

1.CHECK INTELLIGENT KEY FUNCTION

Does door lock and unlock operate when operating Intelligent Key switch?

Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Refer to [DLK-427, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298291

1.CHECK INTELLIGENT KEY BATTERY

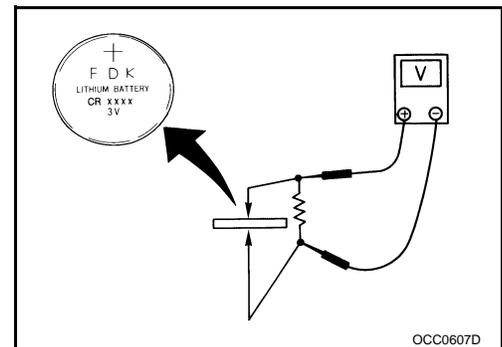
Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0V

Is the measurement value within the specification?

YES >> Replace Intelligent Key.

NO >> Replace Intelligent Key battery. Refer to [DLK-594, "Removal and Installation"](#).



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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

ECU DIAGNOSIS

INTELLIGENT KEY UNIT

Reference Value

INFOID:000000001329197

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

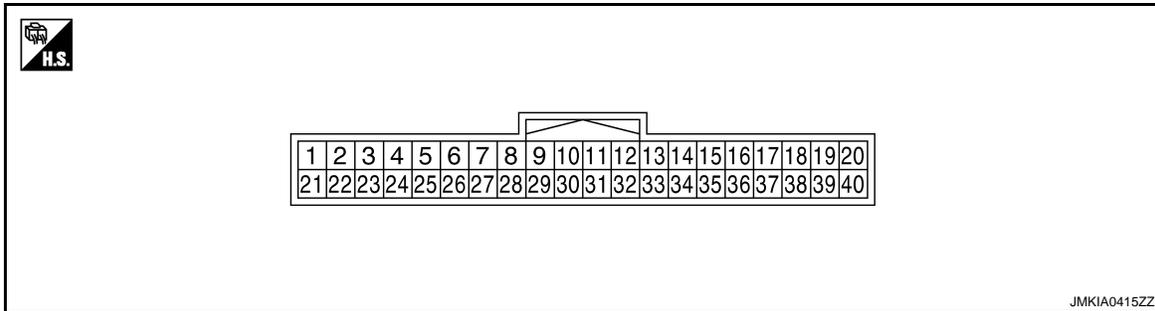
Monitor Item	Condition	Value/Status	
PUSH SW	Ignition knob	Release	OFF
		Press	ON
KEY ON SW	Mechanical key	Removed	OFF
		Inserted	ON
DR REQ SW	Door request switch (driver)	Release	OFF
		Press	ON
AS REQ SW	Door request switch (passenger)	Release	OFF
		Press	ON
BD/TR REQ SW	Door request switch (back door)	Release	OFF
		Press	ON
IGN SW	Ignition switch	Other than ON position	OFF
		ON position	ON
ACC SW	Ignition switch	Other than ACC or ON position	OFF
		ACC or ON position	ON
STOP LAMP SW	Brake pedal	Press	OFF
		Release	ON
DOOR LOCK SIG	Lock button of Intelligent Key	Release	OFF
		Press	ON
DOOR UNLOCK SIG	Unlock button of Intelligent Key	Release	OFF
		Press	ON
DOOR SW DR	Door (driver side)	Close	OFF
		Open	ON
DOOR SW AS	Door (passenger side)	Close	OFF
		Open	ON
DOOR SW RR	Door (rear RH)	Close	OFF
		Open	ON
DOOR SW RL	Door (rear LH)	Close	OFF
		Open	ON
DOOR BK SW	Back door	Close	OFF
		Open	ON
VEHICLE SPEED	While driving	Equivalent to speedometer reading	

INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No.		Wire color	Description		Condition	Value [V] (Approx.)
+	-		Signal name	Input/Output		
1	Ground	LG	Steering lock unit power supply	Output	—	5
2	Ground	L	CAN - H	Input/Output	—	—
3	Ground	P	CAN - L	Input/Output	—	—
4	Ground	LG	Intelligent Key warning buzzer	Output	Intelligent Key warning buzzer	0
					Not sounding	Battery voltage
5	Ground	P	Front door request switch (driver side)	Input	Front door request switch (driver side)	0
					OFF (Released)	5
6	Ground	W	Ignition switch power supply	Input	Ignition switch	0
					ON or START	Battery voltage
7	Ground	V	Key switch	Input	When ignition key is inserted into ignition key cylinder	Battery voltage
					When ignition key is not inserted into ignition key cylinder	0
11	Ground	V	Battery power supply	Input	Ignition switch OFF	Battery voltage
12	Ground	B	Ground	—	Ignition switch ON	0
13	Ground	Y	Inside key antenna (+) (rear seat)	Output	Ignition knob is pressed.	<p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
					<p style="text-align: right; font-size: small;">JMKIA0391ZZ</p>	

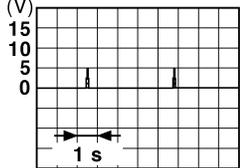
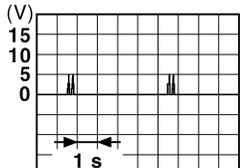
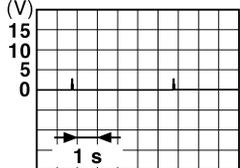
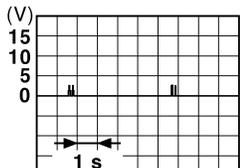
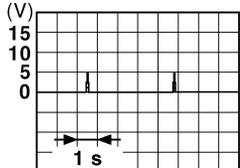
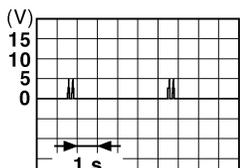
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INTELLIGENT KEY UNIT

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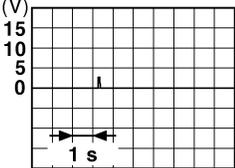
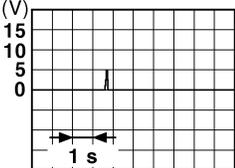
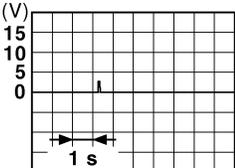
[WITH I-KEY & SUPER LOCK]

Terminal No.		Wire color	Description		Condition	Value [V] (Approx.)
+	-		Signal name	Input/ Output		
14	Ground	W	Inside key antenna (-) (rear seat)	Output	Ignition knob is pressed.	 <p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
					Ignition knob is not pressed.	 <p style="text-align: right; font-size: small;">JMKIA0390ZZ</p>
15	Ground	SB	Inside key antenna (+) (console)	Output	Ignition knob is pressed.	 <p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
					Ignition knob is not pressed.	 <p style="text-align: right; font-size: small;">JMKIA0391ZZ</p>
16	Ground	BR	Inside key antenna (-) (console)	Output	Ignition knob is pressed.	 <p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
					Ignition knob is not pressed.	 <p style="text-align: right; font-size: small;">JMKIA0390ZZ</p>

INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal No.		Wire color	Description		Condition	Value [V] (Approx.)
+	-		Signal name	Input/ Output		
17	Ground	SB	Outside key antenna (+) (rear bumper)	Output	When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0397ZZ</p>
					When the back door request switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area
18	Ground	V	Outside key antenna (-) (rear bumper)	Output	When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0395ZZ</p>
					When the back door request switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area
19	Ground	L	Outside key antenna (+) (driver side)	Output	When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0397ZZ</p>
					When the front door request switch (driver side) is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area

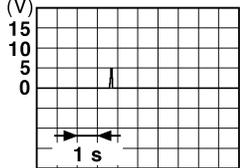
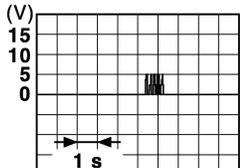
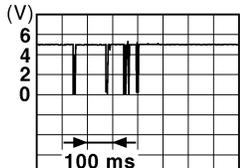
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DLK

INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal No.		Wire color	Description		Condition		Value [V] (Approx.)
+	-		Signal name	Input/ Output			
20	Ground	BR	Outside key antenna (-) (driver side)	Output	When the front door request switch (driver side) is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	
						When Intelligent Key is not in the antenna detection area	
22 ^{*1}	Ground	W	Key lock solenoid	Output	Key lock solenoid	LOCK ^{*2}	Battery voltage
						UNLOCK ^{*2}	0
25	Ground	BR	Front door request switch (passenger side)	Input	Front door request switch (passenger side)	ON (Pressed)	0
						OFF (Released)	5
26	Ground	R	Stop lamp switch	Input	Depress the brake pedal	Release the brake pedal	Battery voltage
						Depress the brake pedal	0
27	Ground	L	Ignition knob switch	Input	Ignition switch OFF	When ignition knob switch is pressed	Battery voltage
						When ignition knob switch is released	0
28	Ground	O	Unlock sensor	Input	Lock (ON)	Unlock (OFF)	5
						Lock (ON)	0
29	Ground	GR	Back door request switch	Input	Back door request switch	ON (Pressed)	0
						OFF (Released)	5
31	Ground	GR	Steering lock unit ground	—	—	—	0
32	Ground	P	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	5
						LOCK or UNLOCK	

INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal No.		Wire color	Description		Condition	Value [V] (Approx.)
+	-		Signal name	Input/Output		
33	Ground	O	Inside key antenna (+) (instrument center)	Output	Ignition knob is pressed.	<p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
					Ignition knob is pressed.	<p style="text-align: right; font-size: small;">JMKIA0391ZZ</p>
34	Ground	G	Inside key antenna (-) (instrument center)	Output	Ignition knob is pressed.	<p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
					Ignition knob is pressed.	<p style="text-align: right; font-size: small;">JMKIA0390ZZ</p>
37	Ground	L	Outside key antenna (+) (passenger side)	Output	When the front door request switch (passenger side) is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0397ZZ</p>
					When the front door request switch (passenger side) is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>

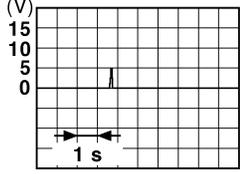
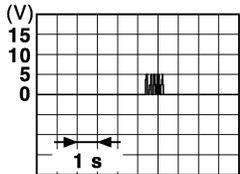
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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal No.		Wire color	Description		Condition	Value [V] (Approx.)
+	-		Signal name	Input/Output		
38	Ground	O	Outside key antenna (-) (passenger side)	Output	When the front door request switch (passenger side) is operated with ignition switch OFF	<div style="text-align: right;">(V)</div>  <p style="text-align: right; font-size: small;">JMKIA0395ZZ</p>
					When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0515ZZ</p>
40	Ground	Y	Passenger side anti-hijack relay	Input	Press front door request switch (passenger side)	Battery voltage → 0 → Battery voltage
					Anti-hijack operation	Battery voltage
					Other than above	Battery voltage

*1: Only for MT model.

*2: Key interlock operation is only for M/T model for operation condition, refer to [SEC-16. "System Description"](#).

INTELLIGENT KEY UNIT

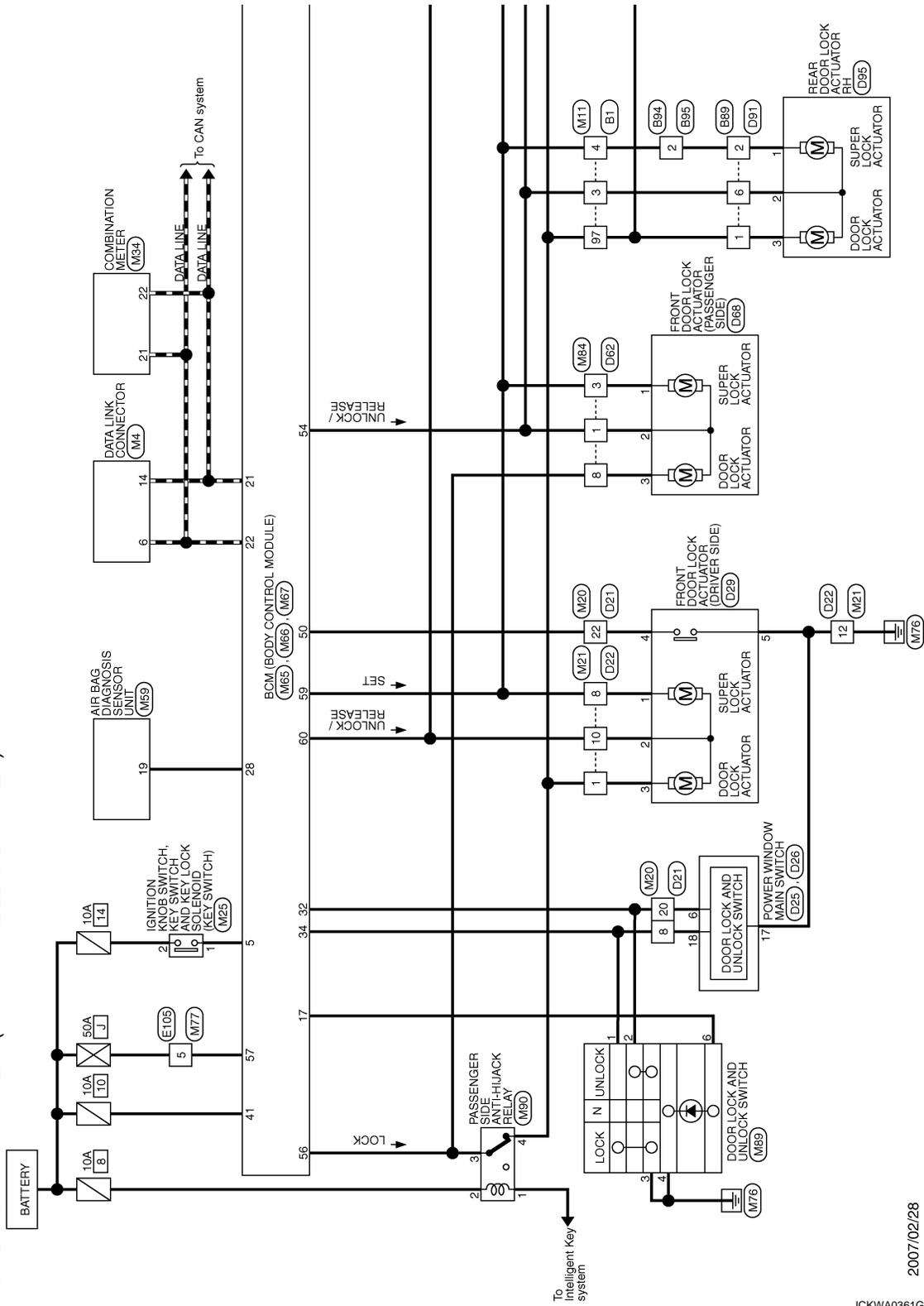
[WITH I-KEY & SUPER LOCK]

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Wiring Diagram - SUPER LOCK CONTROL SYSTEM -

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SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)



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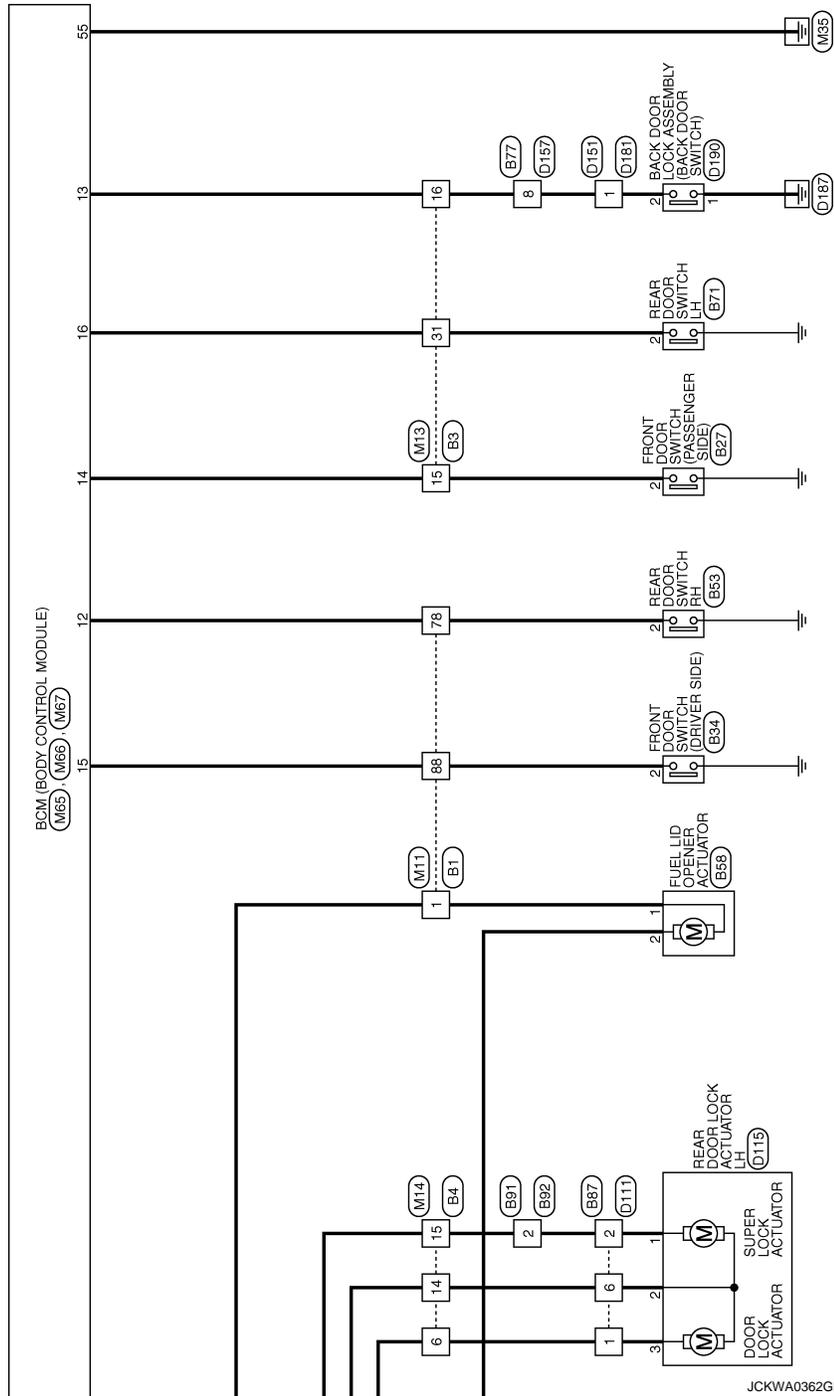
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INTELLIGENT KEY UNIT

[WITH I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >



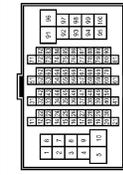
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	THROW-CS16-TM4



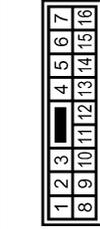
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	O	-
4	R	-
7B	Y	-
8B	BR	-
97	V	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



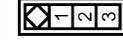
Terminal No.	Color of Wire	Signal Name [Specification]
15	P	-
16	V	-
31	GR	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS18MW-CS



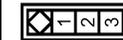
Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	O	-
15	L	-

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	- [RHD models]

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



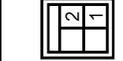
Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [RHD models]

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



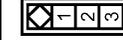
Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-

Connector No.	B58
Connector Name	FUEL LID OPENER ACTUATOR
Connector Type	M04FW-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	UNLOCK
2	V	LOCK

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-

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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

<table border="1"> <tr><td>Connector No.</td><td>B77</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS10MW-CS</td></tr> </table>  	Connector No.	B77	Connector Name	WIRE TO WIRE	Connector Type	NS10MW-CS	<table border="1"> <tr><td>Terminal No.</td><td>8</td></tr> <tr><td>Color of Wire</td><td>V</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td></tr> </table>	Terminal No.	8	Color of Wire	V	Signal Name [Specification]	-						
Connector No.	B77																		
Connector Name	WIRE TO WIRE																		
Connector Type	NS10MW-CS																		
Terminal No.	8																		
Color of Wire	V																		
Signal Name [Specification]	-																		
<table border="1"> <tr><td>Connector No.</td><td>B78</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS12MW-CS</td></tr> </table>  	Connector No.	B78	Connector Name	WIRE TO WIRE	Connector Type	NS12MW-CS	<table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td><td>6</td></tr> <tr><td>Color of Wire</td><td>V</td><td>L</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td><td>-</td></tr> </table>	Terminal No.	1	2	6	Color of Wire	V	L	O	Signal Name [Specification]	-	-	-
Connector No.	B78																		
Connector Name	WIRE TO WIRE																		
Connector Type	NS12MW-CS																		
Terminal No.	1	2	6																
Color of Wire	V	L	O																
Signal Name [Specification]	-	-	-																
<table border="1"> <tr><td>Connector No.</td><td>B87</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS12MW-CS</td></tr> </table>  	Connector No.	B87	Connector Name	WIRE TO WIRE	Connector Type	NS12MW-CS	<table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td><td>6</td></tr> <tr><td>Color of Wire</td><td>V</td><td>L</td><td>O</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td><td>-</td></tr> </table>	Terminal No.	1	2	6	Color of Wire	V	L	O	Signal Name [Specification]	-	-	-
Connector No.	B87																		
Connector Name	WIRE TO WIRE																		
Connector Type	NS12MW-CS																		
Terminal No.	1	2	6																
Color of Wire	V	L	O																
Signal Name [Specification]	-	-	-																
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Connector No.	B88																		
Connector Name	WIRE TO WIRE																		
Connector Type	NS12MW-CS																		
Terminal No.	1	2	6																
Color of Wire	V	R	G																
Signal Name [Specification]	-	-	-																
<table border="1"> <tr><td>Connector No.</td><td>B89</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS12MW-CS</td></tr> </table>  	Connector No.	B89	Connector Name	WIRE TO WIRE	Connector Type	NS12MW-CS	<table border="1"> <tr><td>Terminal No.</td><td>1</td><td>2</td><td>6</td></tr> <tr><td>Color of Wire</td><td>V</td><td>R</td><td>G</td></tr> <tr><td>Signal Name [Specification]</td><td>-</td><td>-</td><td>-</td></tr> </table>	Terminal No.	1	2	6	Color of Wire	V	R	G	Signal Name [Specification]	-	-	-
Connector No.	B89																		
Connector Name	WIRE TO WIRE																		
Connector Type	NS12MW-CS																		
Terminal No.	1	2	6																
Color of Wire	V	R	G																
Signal Name [Specification]	-	-	-																
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Connector No.	B91																		
Connector Name	WIRE TO WIRE																		
Connector Type	NS12FW-CS																		
Terminal No.	2																		
Color of Wire	L																		
Signal Name [Specification]	-																		
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Connector No.	B92																		
Connector Name	WIRE TO WIRE																		
Connector Type	NS12MW-CS																		
Terminal No.	2																		
Color of Wire	L																		
Signal Name [Specification]	-																		
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Connector No.	B94																		
Connector Name	WIRE TO WIRE																		
Connector Type	NS12FW-CS																		
Terminal No.	2																		
Color of Wire	R																		
Signal Name [Specification]	-																		
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Connector No.	B95																		
Connector Name	WIRE TO WIRE																		
Connector Type	NS12MW-CS																		
Terminal No.	2																		
Color of Wire	R																		
Signal Name [Specification]	-																		
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Connector No.	D21																		
Connector Name	WIRE TO WIRE																		
Connector Type	TH24FW-NH																		
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Color of Wire	G	BR	P																
Signal Name [Specification]	-	-	-																

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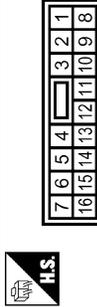
INTELLIGENT KEY UNIT

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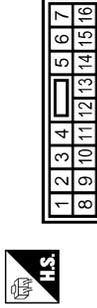
[WITH I-KEY & SUPER LOCK]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Connector No.	D25
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Connector No.	D26
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS09FW-CS



Connector No.	D29
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA04FB-FHA2-LC



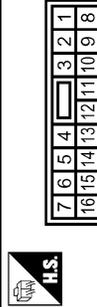
Terminal No.	1	8	10	12
Color of Wire	SB	BR	O	B
Signal Name [Specification]				

Terminal No.	6
Color of Wire	BR
Signal Name [Specification]	

Terminal No.	17	18
Color of Wire	B	G
Signal Name [Specification]		

Terminal No.	1	2	3	4	5
Color of Wire	BR	O	SB	P	B
Signal Name [Specification]					

Connector No.	D62
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Connector No.	D88
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2-LC



Connector No.	D91
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Connector No.	D95
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA04FB-FHA2-LC



Terminal No.	1	3	8
Color of Wire	O	R	V
Signal Name [Specification]			

Terminal No.	1	2	3
Color of Wire	R	O	V
Signal Name [Specification]			

Terminal No.	1	2	6
Color of Wire	V	R	G
Signal Name [Specification]			

Terminal No.	1	2	3
Color of Wire	R	G	V
Signal Name [Specification]			

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INTELLIGENT KEY UNIT

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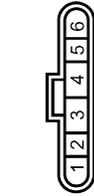
[WITH I-KEY & SUPER LOCK]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

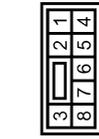
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Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



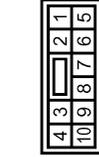
Connector No.	D115
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA4FB-FHAZ-LC



Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS



Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	R	-
6	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
8	V	-

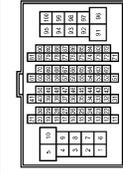
Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MR-CS



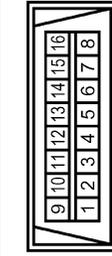
Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FY-CS16-TM4



Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-

Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

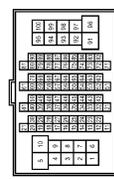
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



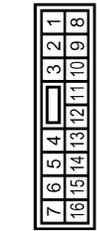
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	- [RHD models]
3	O	- [RHD models]
4	R	-
7B	LG	-
8B	BR	-
97	V	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH42FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
15	P	-
16	Y	- [RHD models]
31	R	- [RHD models]

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



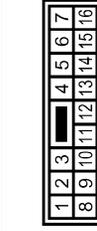
Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	G	- [RHD models]
15	R	-

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
8	SB	-
20	BR	-
22	G	- [With Intelligent Key]

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



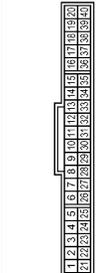
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
8	R	-
10	O	-
12	B	-

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK08MGY



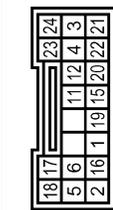
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M59
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TK20FY-EX-SC



Terminal No.	Color of Wire	Signal Name [Specification]
19	LG	DEPLOYMENT INFORMATION [RHD models with side air bag]

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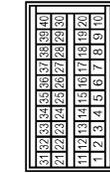
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

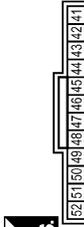
Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AABA0FE



Terminal No.	Color of Wire	Signal Name [Specification]
5	LG	KEY SW (With Intelligent Key)
12	LG	DOOR SW (RR)
13	Y	DOOR SW (BACK) [RHD models]
14	P	DOOR SW (AS) [RHD models]
15	BR	DOOR SW (DR) [RHD models]
16	R	DOOR SW (FL) [RHD models]
17	L	DOOR LOCK INDICATOR
21	P	CAN-L
22	L	CAN-H
28	LG	SHOCK DETECT SIG [RHD models with side air bag]
32	BR	LOCK UNLOCK SW (UNLOCK)

34	SB	LOCK UNLOCK SW (LOCK) [RHD models]
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Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12FB



Terminal No.	Color of Wire	Signal Name [Specification]
41	LG	BAT(FUSE)
50	G	EXTRA INPUT1 [RHD models with Intelligent Key]

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA08FB



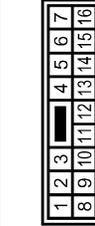
Terminal No.	Color of Wire	Signal Name [Specification]
54	G	DOOR UNLOCK OUTPUT (OTHER) [RHD models]
55	B	GND
56	V	DOOR LOCK OUTPUT (ALL)
57	Y	BAT(F/L)
59	R	SUPER LOCK SET OUTPUT
60	O	DOOR UNLOCK/RELEASE OUTPUTDR [RHD models]

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	THB0W-CS16-TM4



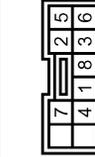
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	NS16M-CS



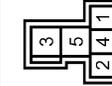
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	R	-
8	V	-

Connector No.	M89
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	TK10FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	BR	-
3	B	-
4	B	-
6	L	-

Connector No.	M90
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS38FB-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	V	-
4	V	-

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INTELLIGENT KEY UNIT

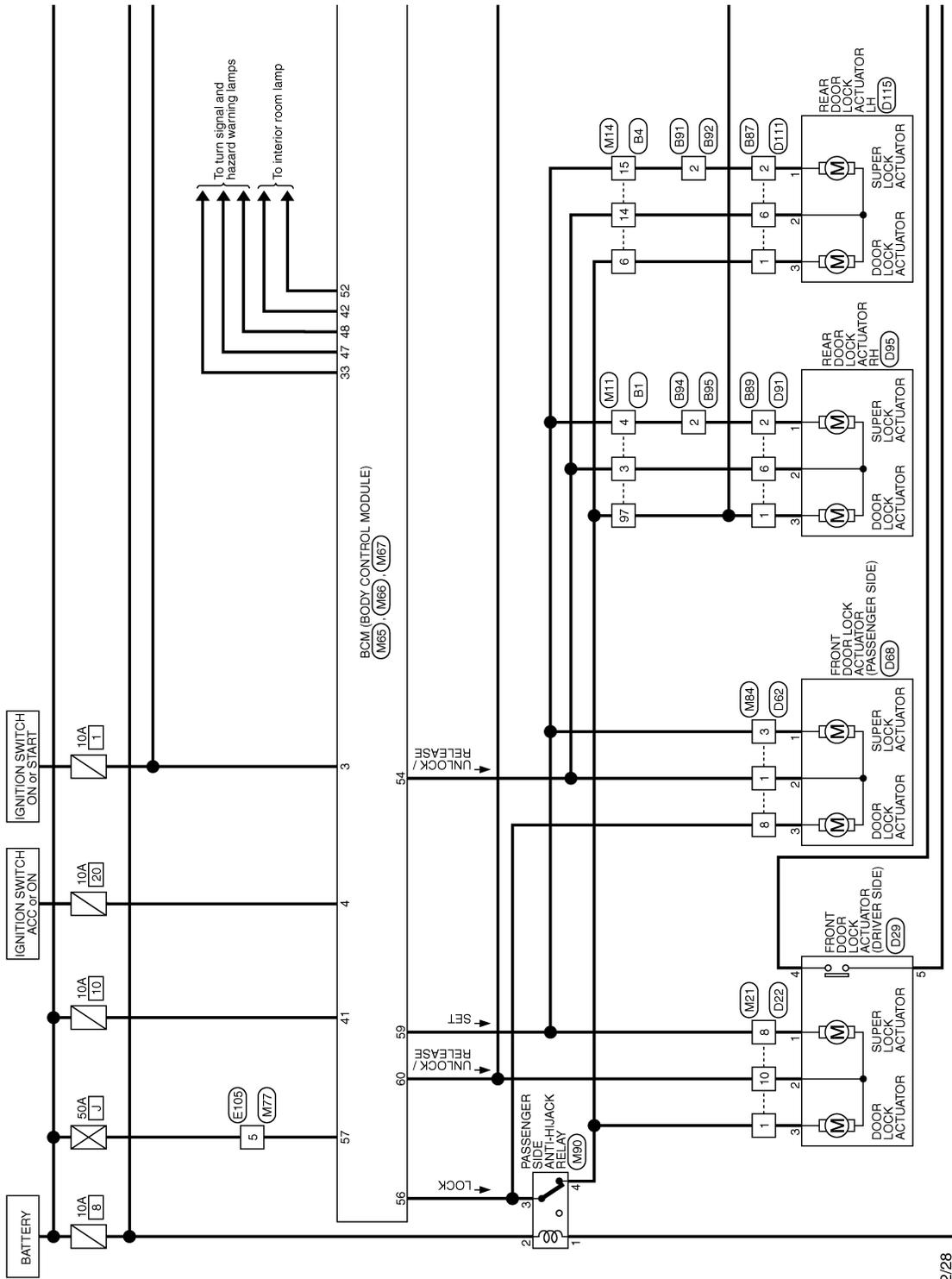
[WITH I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - INTELLIGENT KEY CONTROL SYSTEM -

INFOID:000000001558753

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)



2007/02/28

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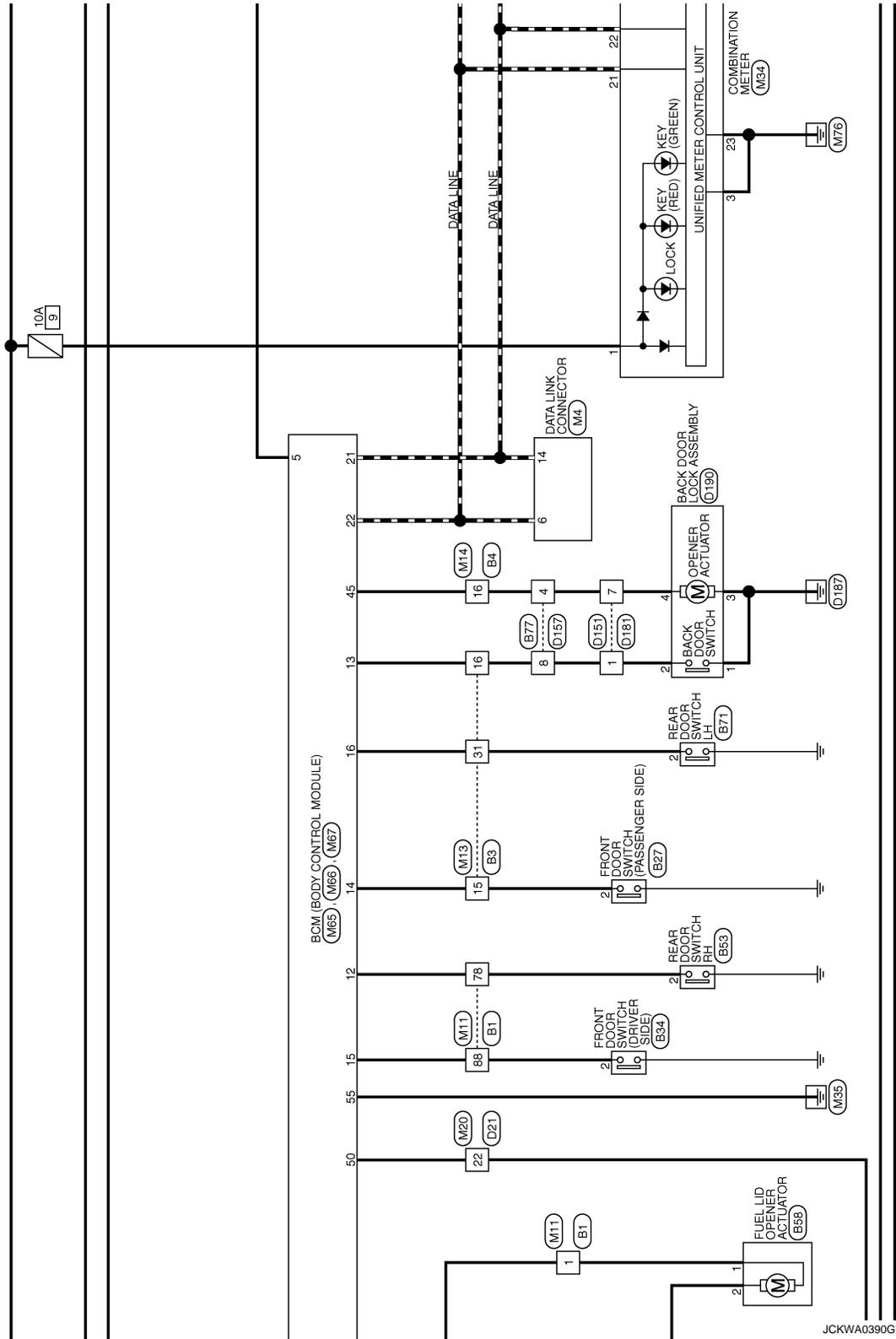
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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

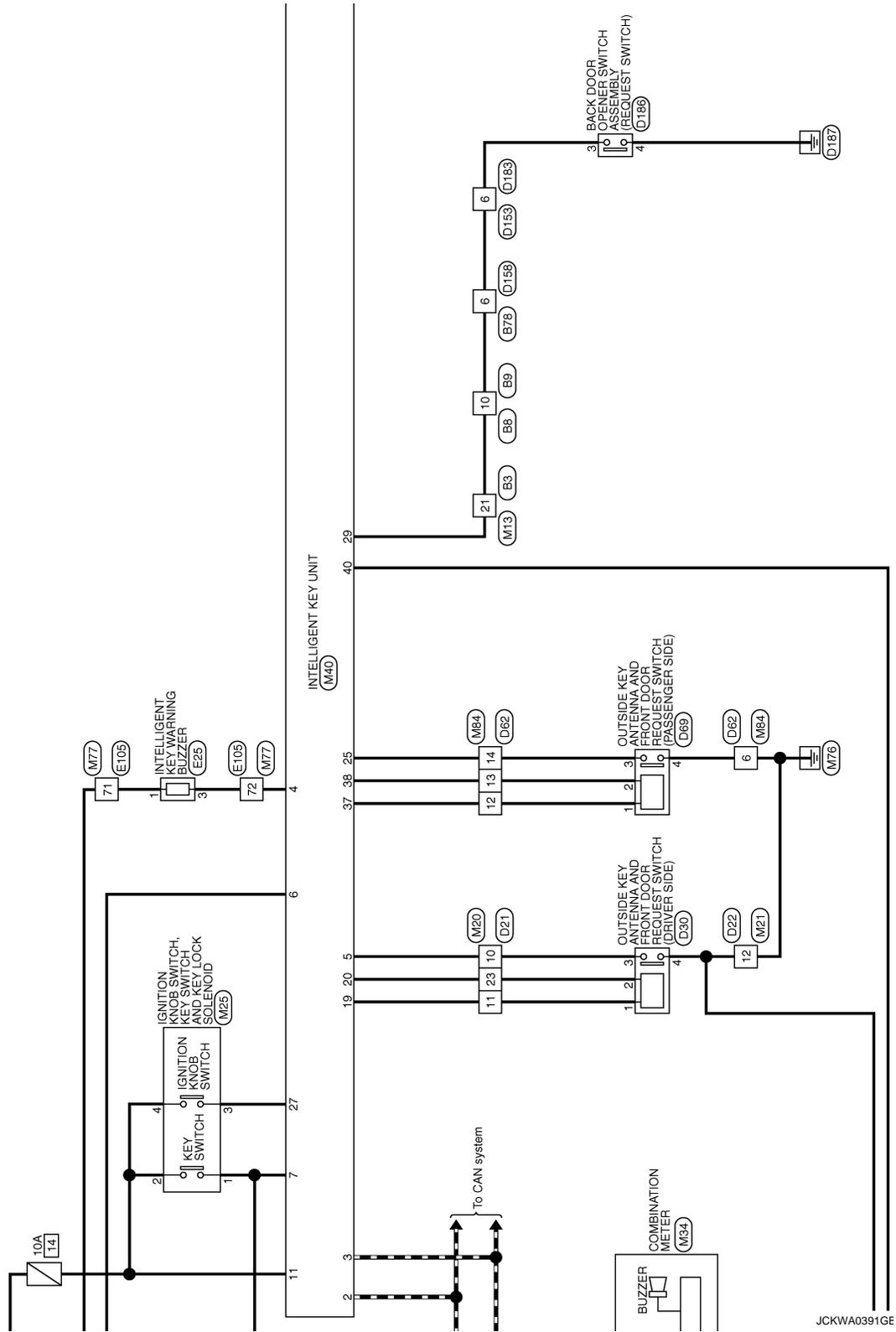


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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

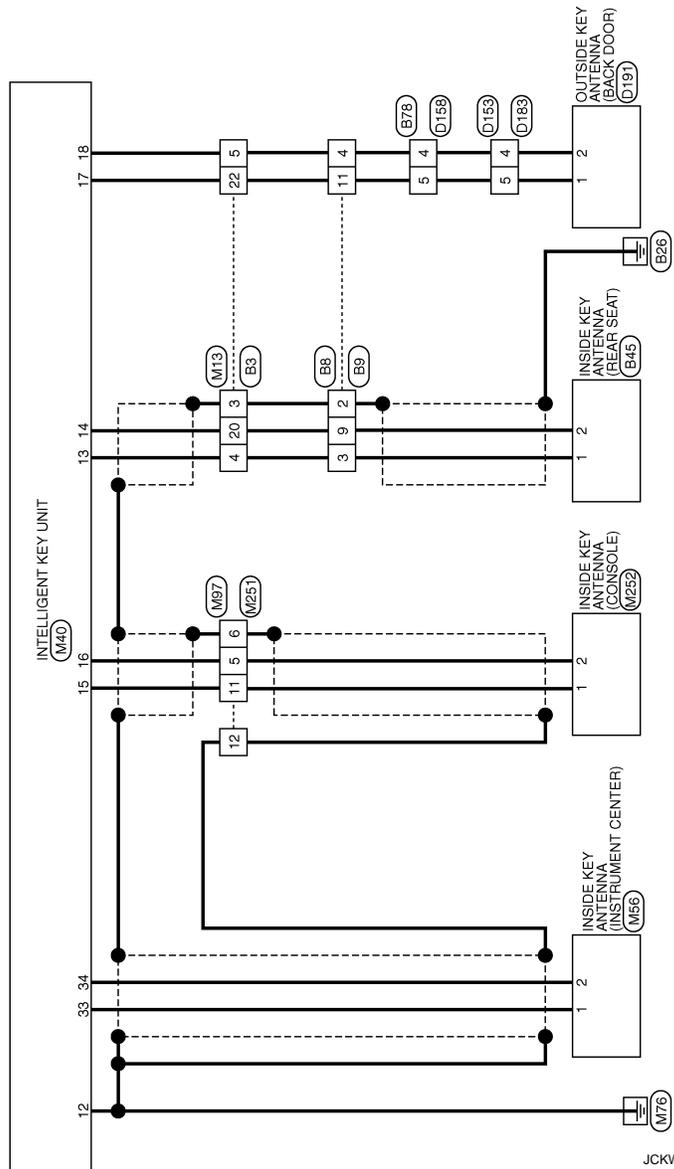


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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]



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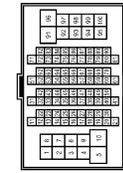
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-TM4



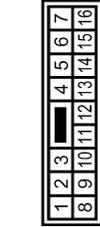
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	O	-
4	R	-
7B	Y	-
8B	BR	-
97	V	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



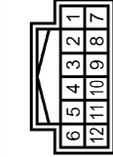
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-
4	P	-
5	R	-
15	P	-
16	V	-
20	L	-
21	SB	-
22	BR	-
31	GR	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS18MW-GS



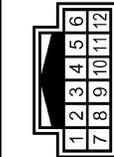
Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	O	-
15	L	-
16	W	-

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Type	TH12W-NH



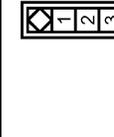
Terminal No.	Color of Wire	Signal Name [Specification]
2	B	-
3	P	-
4	R	-
9	L	-
10	SB	-
11	BR	-

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



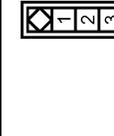
Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	-
3	P	-
4	R	-
9	L	-
10	SB	-
11	BR	-

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	- [RHD models]

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [RHD models]

Connector No.	B45
Connector Name	INSIDE KEY ANTENNA (REAR SEAT)
Connector Type	FK02FY



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	L	-

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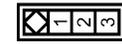
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

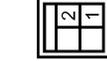
INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	AG3FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-

Connector No.	B58
Connector Name	FUEL LID OPENER ACTUATOR
Connector Type	MG4FW-LC



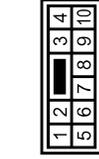
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	UNLOCK
2	V	LOCK

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	AG3FW



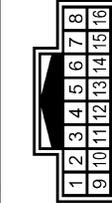
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



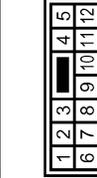
Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
8	V	-

Connector No.	B78
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



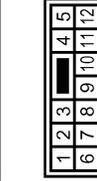
Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	BR	-
6	SB	-

Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	L	-
6	O	-

Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	R	-
6	G	-

Connector No.	B91
Connector Name	WIRE TO WIRE
Connector Type	NS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	-

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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	B92
Connector Name	WIRE TO WIRE
Connector Type	NSJ2MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	-

Connector No.	B94
Connector Name	WIRE TO WIRE
Connector Type	NSJ2FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-

Connector No.	B95
Connector Name	WIRE TO WIRE
Connector Type	NSJ2MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	THZ4FW-NH



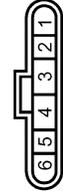
Terminal No.	Color of Wire	Signal Name [Specification]
10	GR	-
11	BR	-
22	P	-
23	O	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
8	BR	-
10	O	-
12	B	-

Connector No.	D29
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA04FB-FH4Z-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	SB	-
4	P	-
5	B	-

Connector No.	D30
Connector Name	OUTSIDE KEY ANTENNA AND FRONT DOOR REQUEST SWITCH (DRIVER SIDE)
Connector Type	FRJ04MB



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	GR	-
4	B	-

Connector No.	D62
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
3	R	-
6	B	-
8	V	-
12	BR	-
13	P	-
14	V	-

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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	D68
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-
3	V	-

Connector No.	D69
Connector Name	DOOR REQUEST SWITCH (PASSENGER SIDE)
Connector Type	RH04MB



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	P	-
3	BR	-
4	B	-

Connector No.	D91
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	R	-
6	G	-

Connector No.	D95
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA04FB-FHA2-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	V	-

Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	R	-
6	G	-

Connector No.	D115
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA04FB-FHA2-LC



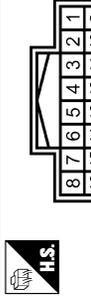
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	V	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FB-RS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
7	W	-

Connector No.	D153
Connector Name	WIRE TO WIRE
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	W	-
6	SB	-

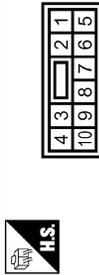
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

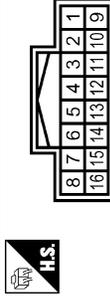
INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	D187
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	V	-
8	V	- (RHD models)

Connector No.	D188
Connector Name	WIRE TO WIRE
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	W	-
6	SB	-

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
7	W	-

Connector No.	D183
Connector Name	WIRE TO WIRE
Connector Type	TH18MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	W	-
6	SB	-

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK08MW-1V



Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	PASSIVE UNIT
4	B	GND

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-
3	B	-
4	W	-

Connector No.	D191
Connector Name	OUTSIDE KEY ANTENNA (BACK DOOR)
Connector Type	RK02FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	R	-

Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK08FER



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	LG	-

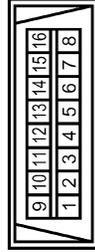
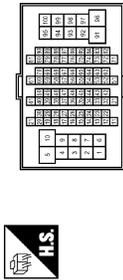
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

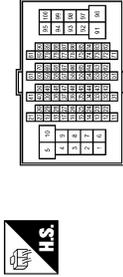
Connector No.	E105
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



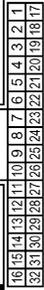
Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH82FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
71	Y	-
72	LG	-

Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-[RHD models]
3	O	-[RHD models]
4	R	-
78	LG	-
88	BR	-
87	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	B	-
5	Y	-
15	P	-
16	Y	-[RHD models]
20	W	-
21	SB	-
22	BR	-
31	R	-[RHD models]

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Connector No.	M25
Connector Name	IGNITION KNOBE SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK08MGY



Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	G	-[RHD models]
15	R	-
16	P	-[RHD models]

Terminal No.	Color of Wire	Signal Name [Specification]
10	GR	-
11	BR	-
22	G	-[With Intelligent Key]
23	O	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
8	R	-
10	O	-
12	B	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R	-
3	L	-[RHD models]
4	BR	-

INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB4FW



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	BAT
3	B	GND
21	L	CAN-H
22	P	CAN-L
23	B	GND

Connector No.	M40
Connector Name	INTELLIGENT KEY UNIT
Connector Type	TH40FW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name [Specification]
2	L	CAN-H
3	P	CAN-L
4	LG	BUIZZER
5	GR	REQUEST SW (DR)
6	W	IGN SW
7	LG	IGN SW
11	BR	KEY SW
12	B	GND
13	B	REAR SEAT (+)
14	W	REAR SEAT (-)
15	R	CONSOLE (+)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TA6M0FE



31	32	33	34	35	36	37	38	39	40
21	22	23	24	25	26	27	28	29	30
11	12	13	14	15	16	17	18	19	20
1	2	3	4	5	6	7	8	9	10

Terminal No.	Color of Wire	Signal Name [Specification]
3	W	IGN SW
4	SB	ACC SW
5	LG	KEY SW (With Intelligent Key)
12	LG	DOOR SW (RR)
13	Y	DOOR SW (BACK) (RHD models)
14	P	DOOR SW (AS) (RHD models)
15	BR	DOOR SW (DR) (RHD models)
16	R	DOOR SW (RL) (RHD models)
21	P	CAN-L
22	L	CAN-H
33	Y	HAZARD SW (Except with xenon headlamp and daytime light system)

16	G	CONSOLE (-)
17	BR	BACK DOOR (+)
18	Y	BACK DOOR (-)
19	BR	DRIVER DOOR (+)
20	O	DRIVER DOOR (-)
25	BR	REQUEST SW (AS)
27	L	KNDS SW (RHD models)
29	SB	REQUEST SW (BD)
33	L	INSTRUMENT (-)
34	P	INSTRUMENT (+)
37	V	PASSENGER DOOR (+)
38	P	PASSENGER DOOR (-) (RHD models)
40	V	AS ANTI HIJACK

Connector No.	M56
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	FK02F5Y



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FT4A0FB



60	59	58	57	56	55	54	53
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Terminal No.	Color of Wire	Signal Name [Specification]
54	G	DOOR UNLOCK OUTPUT (OTHER (RHD models))
55	B	GND
56	Y	DOOR LOCK OUTPUT (ALL)
57	Y	BAT (F/L)
59	R	SUPER LOCK SET OUTPUT
60	O	DOOR UNLOCK/RELEASE OUTPUT (RHD models)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
71	Y	-
72	LG	-

JCKWA0399GE

A B C D E F G H I J L M N O P

DLK

INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	MS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	R	-
6	B	-
8	V	-
12	BR	-
13	W	-
14	V	-

Connector No.	M80
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS30FB-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	V	-
4	V	-

Connector No.	M87
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	G	-
6	B	-
11	R	-
12	B	-

Connector No.	M251
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	G	-
6	SHIELD	-
11	R	-
12	SHIELD	-

Connector No.	M252
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	FK02FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-

INTELLIGENT KEY UNIT

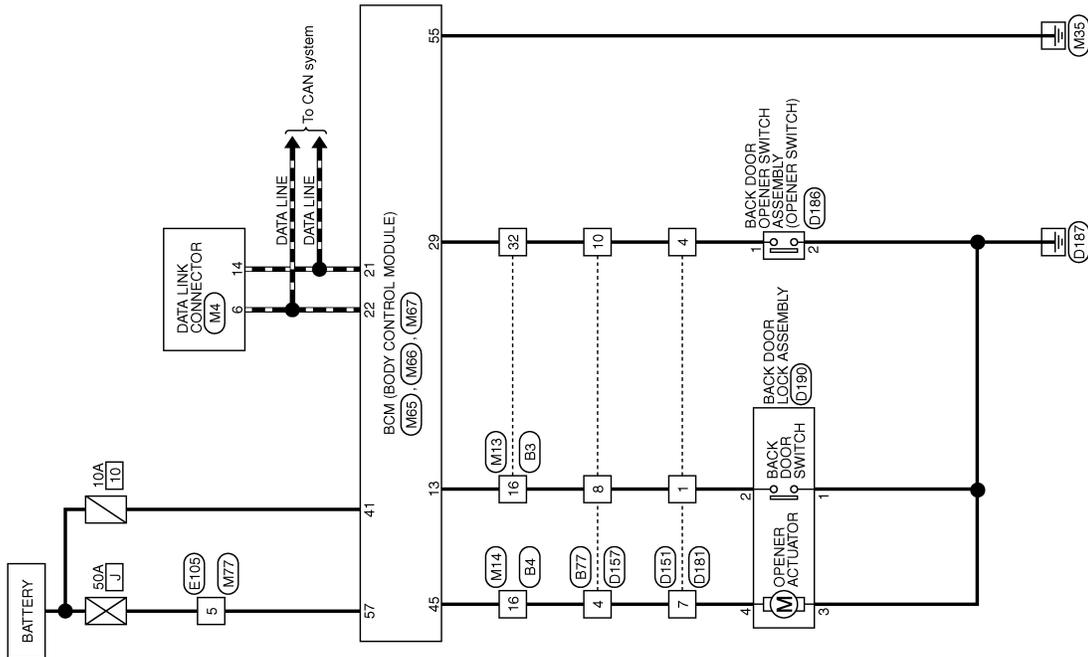
[WITH I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

INFOID:000000001558754

BACK DOOR OPENER SYSTEM



A
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2007/02/28

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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH




Terminal No.	Color of Wire	Signal Name [Specification]
16	V	-
32	G	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
16	W	-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
8	V	-
10	G	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FB-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	LG	-
7	W	-

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



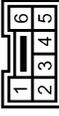

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	- [LHD models]
4	V	- [RHD models]
8	V	-
10	G	-

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	G	-
7	W	-

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK08MW-TV

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	BCM
2	B	GND

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-
3	B	-
4	W	-

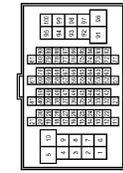
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

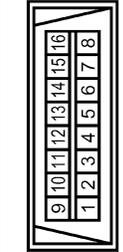
BACK DOOR OPENER SYSTEM

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	5	Signal Name [Specification]	-
Color of Wire	Y		

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



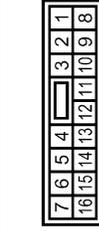
Terminal No.	6	Color of Wire	L	Signal Name [Specification]	-
14	P				

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



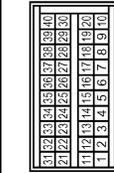
Terminal No.	16	Color of Wire	V	Signal Name [Specification]	- [LHD models]
16	Y				- [RHD models]
32	O				

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



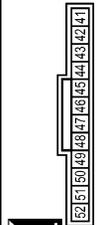
Terminal No.	16	Color of Wire	V	Signal Name [Specification]	- [LHD models]
16	P				- [RHD models]

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AA8A0FE



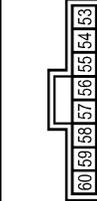
Terminal No.	13	Color of Wire	V	Signal Name [Specification]	DOOR SW (BACK) [LHD models]
13	Y				DOOR SW (BACK) [RHD models]
21	P				CAN-L
22	L				CAN-H
28	O				BACK DOOR OPEN SW

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12EB



Terminal No.	41	Color of Wire	LG	Signal Name [Specification]	BAT(F)SE
45	V				BACK DOOR OPEN OUTPUT [LHD models]
45	P				BACK DOOR OPEN OUTPUT [RHD models]

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA08FB



Terminal No.	55	Color of Wire	B	Signal Name [Specification]	GND
57	Y				BAT(F)L

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	5	Color of Wire	Y	Signal Name [Specification]	-
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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Fail Safe

INFOID:000000001329201

Display contents of CONSULT-III	Fail-safe	Cancellation
B2013: STRG COMM 1	<ul style="list-style-type: none"> Inhibits steering lock unlocking 	Erase DTC
B2552: INTELLIGENT KEY	<ul style="list-style-type: none"> Inhibits steering lock unlocking Inhibits engine cranking (BCM) Fuel cut (ECM) 	Erase DTC
B2590: NATS MALFUNCTION	<ul style="list-style-type: none"> Inhibits steering lock unlocking Inhibits engine cranking (BCM) Fuel cut (ECM) 	Erase DTC

DTC Inspection Priority Chart

INFOID:000000001329202

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC
1	<ul style="list-style-type: none"> U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN) B2552: INTELLIGENT KEY
2	<ul style="list-style-type: none"> B2013: STRG COMM 1 B2590: NATS MALFUNCTION

DTC Index

INFOID:000000001329203

NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

CONSULT display	Detection condition	Fail-safe	Diagnosis
No DTC is detected. further testing may be required.	—	—	—
U1000: CAN COMM CIRCUIT	Intelligent Key unit cannot receive CAN communication signal continuously for 2 seconds or more.	—	Check CAN communication system. Refer to DLK-352
U1010: CONTROL UNIT (CAN)	Intelligent Key unit detects internal CAN communication circuit malfunction.	—	Replace Intelligent Key unit.
B2013: STRG COMM 1	The ID verification result between Intelligent key unit and steering lock unit are NG. Or Intelligent Key unit cannot communicate with steering lock unit.	×	Perform steering lock unit ID registration with CONSULT-III
B2552: INTELLIGENT KEY	Intelligent Key unit internal malfunction.	×	Replace Intelligent Key unit.
B2590: ID DISCORD BCM-I-KEY	The ID verification result between Intelligent key unit and BCM are NG. Or Intelligent Key unit cannot communicate with BCM.	×	Check NATS Refer to SEC-57

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000001557098

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
VEHICLE SPEED	While driving	Equivalent to speedometer reading
IGN ON SW	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the unlock side	On
DOOR SW-DR	Driver's door closed	Off
	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
BACK DOOR SW	Back door closed	Off
	Back door opened	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
PUSH SW	Return to ignition switch to "LOCK" position	Off
	Press ignition switch	On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
	"UNLOCK" button of key fob is pressed	On
SHOCK SENSOR	Ignition switch ON	NOMAL
	After the reception of air bag deployment signal from air bag diagnosis sensor unit	Off
	During the reception of air bag deployment signal from air bag diagnosis sensor unit	On
UNLOCK SHOCK	Other than the following	Off
	During the unlock operation interlocked with air bag	On
UNLOCK WITH DR	NOTE: The item is indicated, but not monitored	On
		Off

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N

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P

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Monitor Item	Condition	Value/Status
LOCK WITH SPEED	Vehicle speed sensing auto door lock function does not operate	Off
	Vehicle speed sensing auto door lock function is operating	On
ACC ON SW	Ignition switch OFF	Off
	Ignition switch ACC or ON	On
REAR DEF SW	Rear window defogger switch OFF	Off
	Rear window defogger switch ON	On
TAIL LAMP SW	Lighting switch OFF	Off
	Lighting switch 1ST	On
TURN SIGNAL R	Turn signal switch OFF	Off
	Turn signal switch RH	On
TURN SIGNAL L	Turn signal switch OFF	Off
	Turn signal switch LH	On
HI BEAM SW	Lighting switch OFF	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Lighting switch OFF	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Lighting switch OFF	Off
	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
AUTO LIGHT SW	Lighting switch OFF	Off
	Lighting switch AUTO	On
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On
RR FOG SW	Rear fog lamp switch OFF	Off
	Rear fog lamp switch ON	On
ENGINE RUN	Engine stopped	Off
	Engine running	On
LIT-SEN FAIL	Light & rain sensor is in normal condition	OK
	Light & rain sensor is with error	NOTOK
AUT LIGHT SYS	Outside of the room is dark	On
	Outside of the room is bright	Off
HD LIGHT TIME	—	Displays a setting time of the follow me home function set by the work support
IGN SW CAN	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
FR WIPER HI	Front wiper switch OFF	Off
	Front wiper switch HI	On
FR WIPER LOW	Front wiper switch OFF	Off
	Front wiper switch LO	On
FR WIPER INT	Front wiper switch OFF	Off
	Front wiper switch INT	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Monitor Item	Condition	Value/Status	
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7	A
FR WIPER STOP	Any position other than front wiper stop position	Off	B
	Front wiper stop position	On	
RR WIPER ON	Rear wiper switch OFF	Off	C
	Rear wiper switch ON	On	
RR WIPER INT	Rear wiper switch OFF	Off	D
	Rear wiper switch INT	On	
RR WIPER STOP	Rear wiper stop position	Off	E
	Other than rear wiper stop position	On	
RR WASHER SW	Rear washer switch OFF	Off	F
	Rear washer switch ON	On	
REVERSE SW CAN	NOTE: The item is indicated, but not monitored	Off	G
		On	
H/L WASH SW	When headlamp washer switch is not pressed	Off	H
	When headlamp washer switch is pressed	On	
FAN ON SIG	Blower fan motor switch OFF	Off	I
	Blower fan motor switch ON (other than OFF)	On	
AIR COND SW	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off	J
	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On	
HAZARD SW	Hazard switch OFF	Off	K
	Hazard switch ON	On	
BRAKE SW	Brake pedal is not depressed	Off	L
	Brake pedal is depressed	On	
TRNK OPNR SW	When back door opener switch is not pressed	Off	M
	When back door opener switch is pressed	On	
HOOD SW	Close the hood NOTE: Vehicles without theft warning system are OFF-fixed	Off	N
	Open the hood	On	
AUTO RELOCK	Auto lock function does not operate	Off	O
	Auto lock function is operating	On	
GLS BREAK SEN	The vehicle without glass break sensor	Off	P
	The vehicle with glass break sensor	On	
OIL PRESS SW	<ul style="list-style-type: none"> • Ignition switch OFF or ACC • Engine running 	Off	Q
	Ignition switch ON	On	

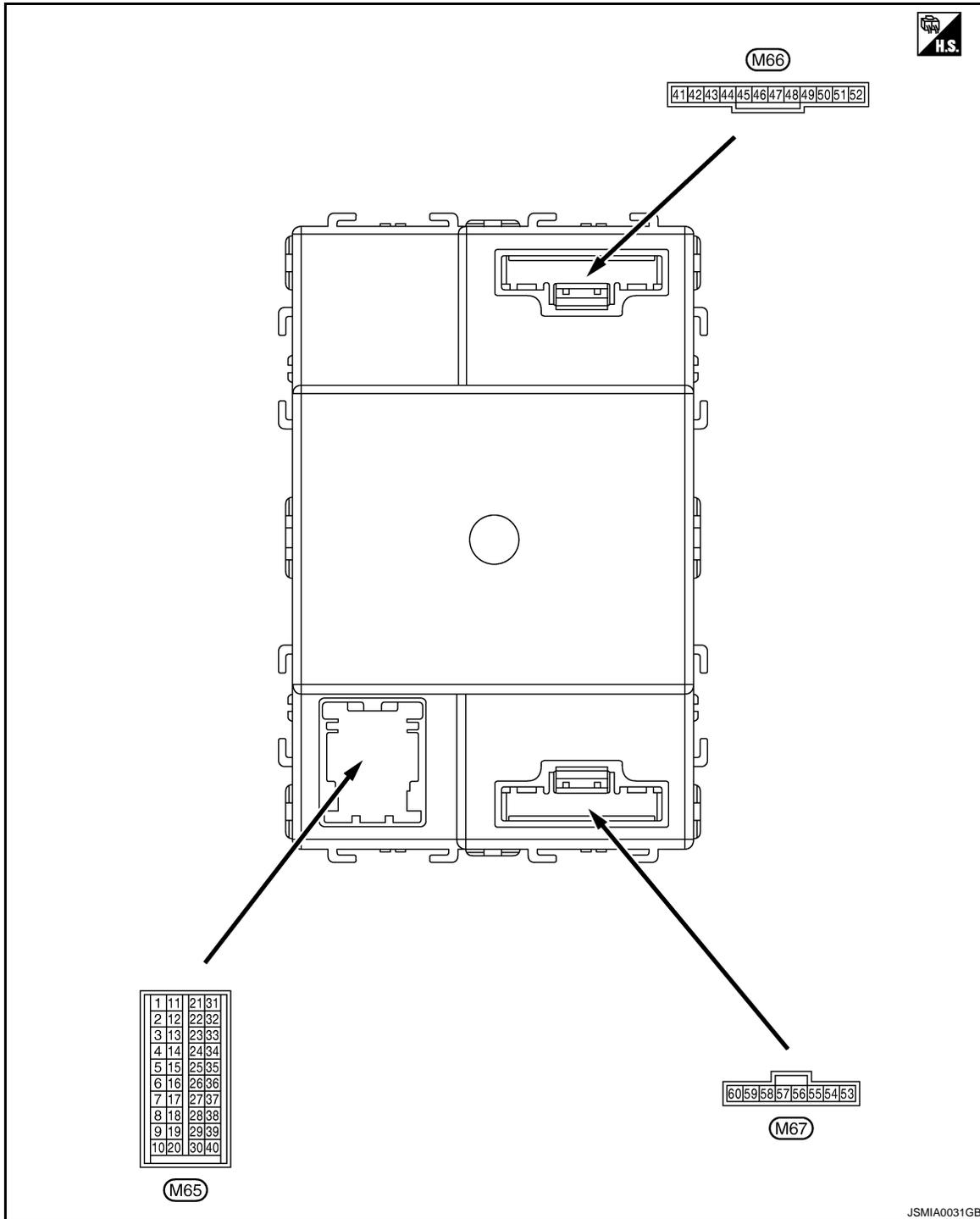
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

TERMINAL LAYOUT



PHYSICAL VALUES

CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to [BCS-28, "COMB SW : CONSULT-III Function \(BCM - COMB SW\)"](#).
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to [BCS-9, "System Description"](#).

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
1 (W)	Ground	NATS antenna amp.	Input/ Output	Insert mechanical key into ignition key cylinder	Just after Insert mechanical key into ignition key cylinder. Pointer of tester should move
2 (G)	Ground	NATS antenna amp.	Input/ Output	Insert mechanical key into ignition key cylinder	Just after Insert mechanical key into ignition key cylinder. Pointer of tester should move
3 (W)	Ground	Ignition power supply	Input	Ignition switch OFF or ACC	0 V
				Ignition switch ON or START	Battery voltage
4 (SB)	Ground	ACC power supply	Input	Ignition switch OFF	0 V
				Ignition switch ON or ACC	Battery voltage
5 (LG) ^{*1} (R) ^{*2}	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder	Battery voltage
				Remove mechanical key from ignition key cylinder	0 V

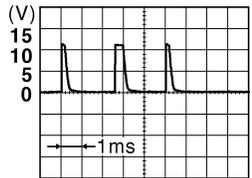
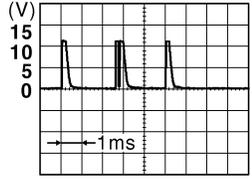
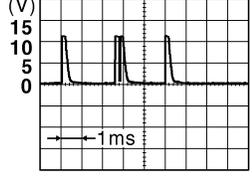
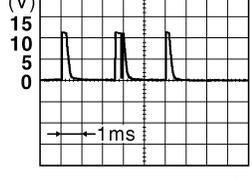
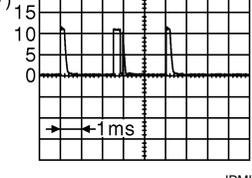
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BCM (BODY CONTROL MODULE)

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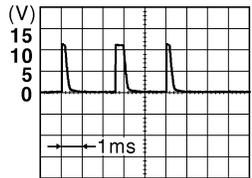
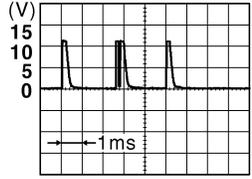
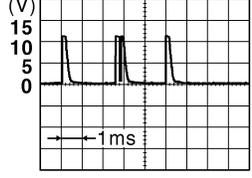
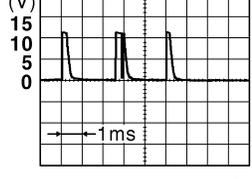
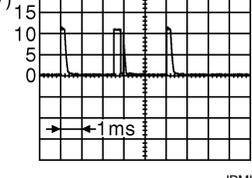
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Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
6 (L)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0165GB</p> <p style="text-align: center;">1.4 V</p>
					Lighting switch HI (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0166GB</p> <p style="text-align: center;">1.3 V</p>
					Lighting switch 2ND (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0167GB</p> <p style="text-align: center;">1.3 V</p>
					Rear washer switch ON	 <p style="text-align: right; font-size: small;">JPMIA0169GB</p> <p style="text-align: center;">1.3 V</p>
					Any of the condition below with all switch OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3  <p style="text-align: right; font-size: small;">JPMIA0196GB</p> <p style="text-align: center;">1.3 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
7 (GR)	Ground	Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right;">1.4 V</p>
					Lighting switch 1ST (Wiper intermittent dial 4)	 <p style="text-align: right;">1.3 V</p>
					Lighting switch AUTO (Wiper intermittent dial 4)	 <p style="text-align: right;">1.3 V</p>
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 6	 <p style="text-align: right;">1.3 V</p>
					Rear wiper INT (Wiper intermittent dial 4)	 <p style="text-align: right;">1.3 V</p>

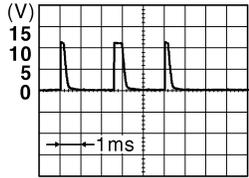
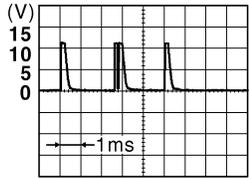
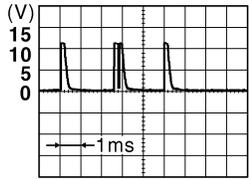
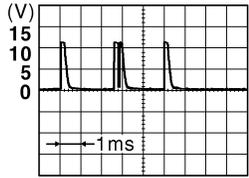
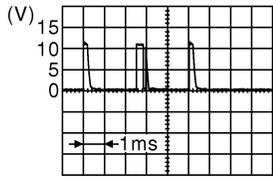
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BCM (BODY CONTROL MODULE)

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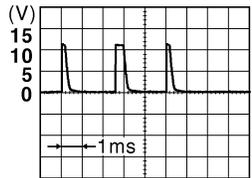
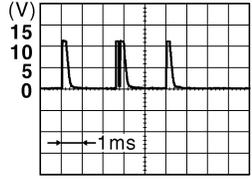
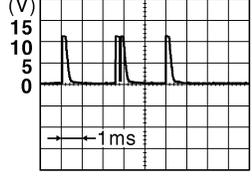
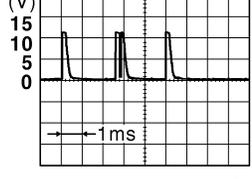
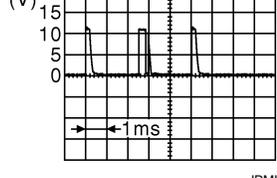
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Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
8 (V)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	 <p style="text-align: center;">1.4 V</p>
					Turn signal switch RH	 <p style="text-align: center;">1.3 V</p>
					Turn signal switch LH	 <p style="text-align: center;">1.3 V</p>
					Front wiper switch LO	 <p style="text-align: center;">1.3 V</p>
					Front washer switch ON	 <p style="text-align: center;">1.3 V</p>

BCM (BODY CONTROL MODULE)

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[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
9 (G) ^{*3} (B) ^{*4}	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF  1.4 V
					Lighting switch 2ND  1.3 V
					Lighting switch PASS  1.3 V
					Front wiper switch INT  1.3 V
					Front wiper switch HI  1.3 V

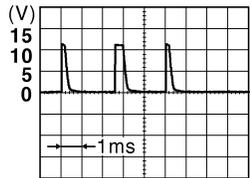
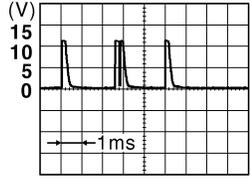
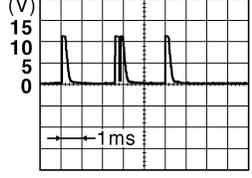
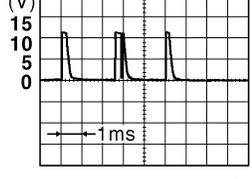
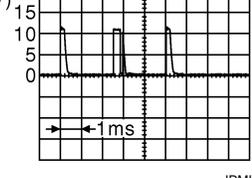
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BCM (BODY CONTROL MODULE)

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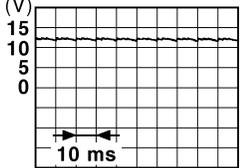
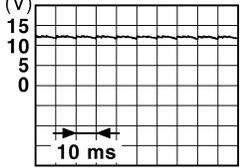
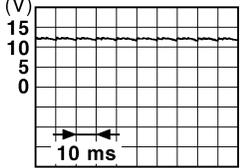
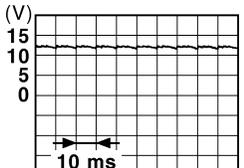
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Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
10 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Front fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Rear fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Rear wiper switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Any of the condition below with all switch OFF	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	
11 (B)	Ground	Audio link	Input/ Output	—	—	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
12 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	 PKID0924E 11.2 V
					ON (When rear door RH opened)	0 V
13 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	 PKID0924E 11.2 V
					ON (When back door opened)	0 V
14 (P) ^{*3} (BR) ^{*4}	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	 PKID0924E 11.2 V
					ON (When passenger door opened)	0 V
15 (BR) ^{*3} (P) ^{*4}	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	 PKID0924E 11.2 V
					ON (When driver door opened)	0 V

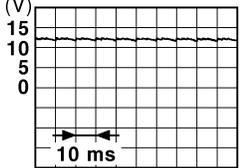
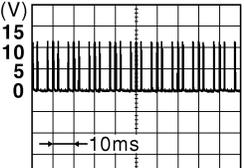
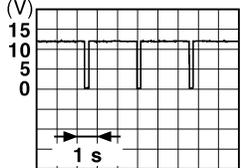
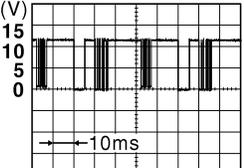
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BCM (BODY CONTROL MODULE)

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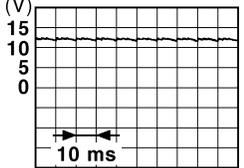
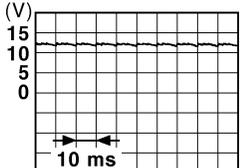
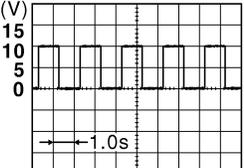
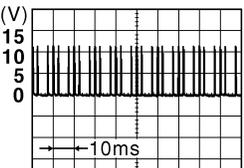
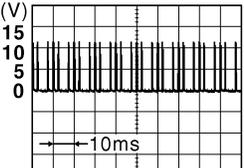
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Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
16 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	 <p style="text-align: right; font-size: small;">PKID0924E</p> <p style="text-align: center;">11.2 V</p>
				ON (When rear door LH opened)	0 V	
17 (L)	Ground	Door lock status indicator	Output	Door lock status indicator	ON	12 V
				OFF	0 V	
20 (SB)	Ground	Rear window defogger switch	Input	Rear window defogger switch	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p> <p style="text-align: center;">1.1 V</p>
				While pressing	0 V	
21 (P)	—	CAN-L	Input/ Output	—	—	
22 (L)	—	CAN-H	Input/ Output	—	—	
23 (V)	Ground	Security indicator	Output	Security indicator	ON	0 V
				Blinking	 <p style="text-align: right; font-size: small;">JPMIA0014GB</p> <p style="text-align: center;">10.3 V</p>	
24 (GR)	Ground	Light & rain sensor serial link	Input/ Output	Ignition switch OFF or ACC	12 V	
				Ignition switch ON	 <p style="text-align: right; font-size: small;">JPMIA0156GB</p> <p style="text-align: center;">8.7 V</p>	
25 (G)	Ground	Alarm link	Output	—	—	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
26 (GR) ^{*5} (LG) ^{*6}	Ground	Blower fan motor switch	Input	Blower fan motor switch	OFF	 11.2 V
					ON (other than OFF)	0 V
27 (P) ^{*5} (Y) ^{*6}	Ground	A/C switch	Input	Ignition switch ON	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	 11.2 V
					Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	0 V
28 (LG) ^{*7} (R) ^{*8}	Ground	Shock detect sensor	Input	Ignition switch OFF or ACC	0 V	
				Ignition switch ON	 6.0 V	
29 (LG) ^{*3} (O) ^{*4}	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	 1.2 V
					Pressed	0 V
32 (BR)	Ground	Door lock/unlock switch (Unlock)	Input	Door lock/unlock switch	Not pressed	 1.2 V
					Pressed to the unlock side	0 V

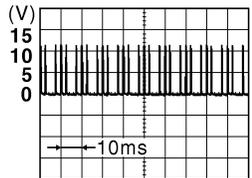
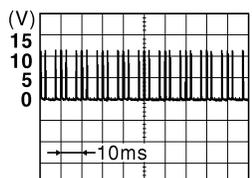
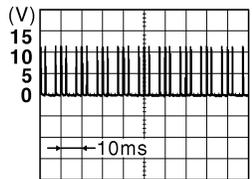
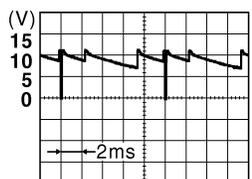
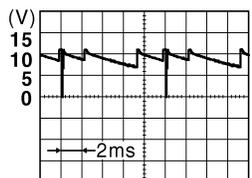
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BCM (BODY CONTROL MODULE)

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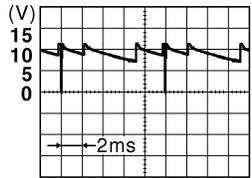
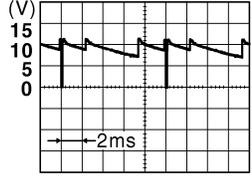
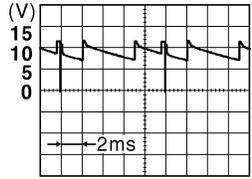
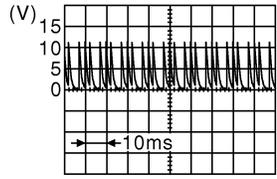
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Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
33 (W) ^{*9} (Y) ^{*10}	Ground	Hazard switch	Input	Hazard switch	OFF	 <small>JPMIA0154GB</small> 1.3 V
					ON	0 V
34 (SB) ^{*3} (P) ^{*4}	Ground	Door lock/unlock switch (Lock)	Input	Door lock/un- lock switch	Not pressed	 <small>JPMIA0154GB</small> 1.2 V
					Pressed to the lock side	0 V
35 (G)	Ground	Headlamp washer switch	Input	Headlamp washer switch	Not pressed	 <small>JPMIA0154GB</small> 1.2 V
					Pressed to the lock side	0 V
36 (G)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Turn signal switch RH	 <small>JPMIA0164GB</small> 9.1 V
					Lighting switch 2ND	
					Lighting switch HI	
					Lighting switch 1ST	
37 (R)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	 <small>JPMIA0161GB</small> 9.1 V
					Rear washer switch ON (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	
					Rear wiper switch ON (Wiper intermittent dial 4)	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
38 (W)	Ground	Combination switch OUTPUT 3	Output	All switch OFF	0 V
				Front wiper switch LO	
				Front wiper switch MIST	
				Front wiper switch INT	
				Lighting switch AUTO	
				Rear fog lamp switch ON	
39 (Y)	Ground	Combination switch OUTPUT 4	Output	All switch OFF	0 V
				Turn signal switch LH	
				Lighting switch PASS	
				Lighting switch 2ND	
				Front fog lamp switch ON	
40 (P)	Ground	Combination switch OUTPUT 1	Output	All switch OFF (Wiper intermittent dial 4)	0 V
				Front wiper switch HI (Wiper intermittent dial 4)	
				Any of the condition below with all switch OFF	
				<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	
Rear wiper switch INT (Wiper intermittent dial 4)	9.1 V				
41 (LG)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
42 (V)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver activation	0 V
				Interior room lamp battery saver no activation	12 V
43 (SB)	Ground	Rear wiper motor	Output	Rear wiper switch OFF	0 V
				Rear wiper switch ON	12 V
44 (B)	Ground	Rear wiper auto stop	Input	Ignition switch ON	
				Any position other than rear wiper stop position	0 V

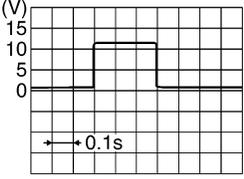
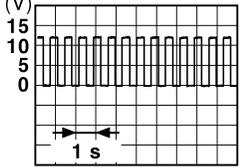
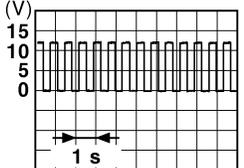
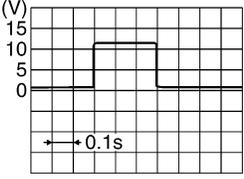
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BCM (BODY CONTROL MODULE)

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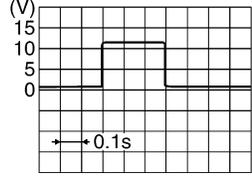
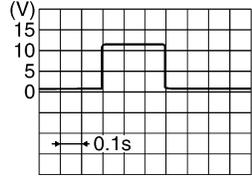
[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
45 (V)	Ground	Back door lock actuator	Output	Back door opener switch	Pressed	 <p style="text-align: right; font-size: small;">SKIA9232E</p>
				Not pressed	0 V	
47 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH	 <p style="text-align: right; font-size: small;">PKID0926E</p> <p style="text-align: center;">6.5 V</p>
				Turn signal switch OFF	0 V	
48 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH	 <p style="text-align: right; font-size: small;">PKID0926E</p> <p style="text-align: center;">6.5 V</p>
				Turn signal switch OFF	0 V	
49 (Y)	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V
					ON	12 V
50 (G)	Ground	Unlock sensor	Input	Driver's door	Unlock	5 V
					lock	0 V
51 (R)	Ground	Stop lamp switch	Input	Depress the brake pedal		Battery voltage
				Release the brake pedal		0 V
52 (R)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	12 V
					ON	0 V
53 (L)	Ground	Power window power supply (IGN)	Output	Ignition switch	OFF or ACC	0 V
					ON	12 V
54 (O)	Ground	Door unlock (All other than driver's door)	Output	Door lock/unlock switch	Pressed to the unlock side	 <p style="text-align: right; font-size: small;">SKIA9232E</p>
					Not pressed	0 V
55 (B)	Ground	Ground	—	Ignition switch ON		0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
56 (V)	Ground	Door lock (All) and fuel lid lock	Output	Door lock/un- lock switch	Not pressed	0 V
				Door lock/un- lock switch	Pressed to the lock side	
57 (Y)	Ground	Battery power sup- ply	Input	Ignition switch OFF		Battery voltage
58 (P)	Ground	Power window pow- er supply (BAT)	Output	Ignition switch OFF		12 V
59 (R)	Ground	Super lock	Output	When lock button of key fob or Intelligent Key is not pressed		0 V
				When lock button of key fob or Intelligent Key is pressed		12 V
60 (G)	Ground	Driver's door unlock and fuel lid unlock	Output	Door lock/un- lock switch	Pressed to the unlock side	
				Door lock/un- lock switch	Not pressed	0 V

*1: With Intelligent Key

*2: Without Intelligent Key

*3: RHD models

*4: LHD models

*5: With gasoline engine

*6: With diesel engine

*7: RHD models with side air bag

*8: LHD models with side air bag

*9: With xenon headlamp and daytime light system

*10: Except with xenon headlamp and daytime light system

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BCM (BODY CONTROL MODULE)

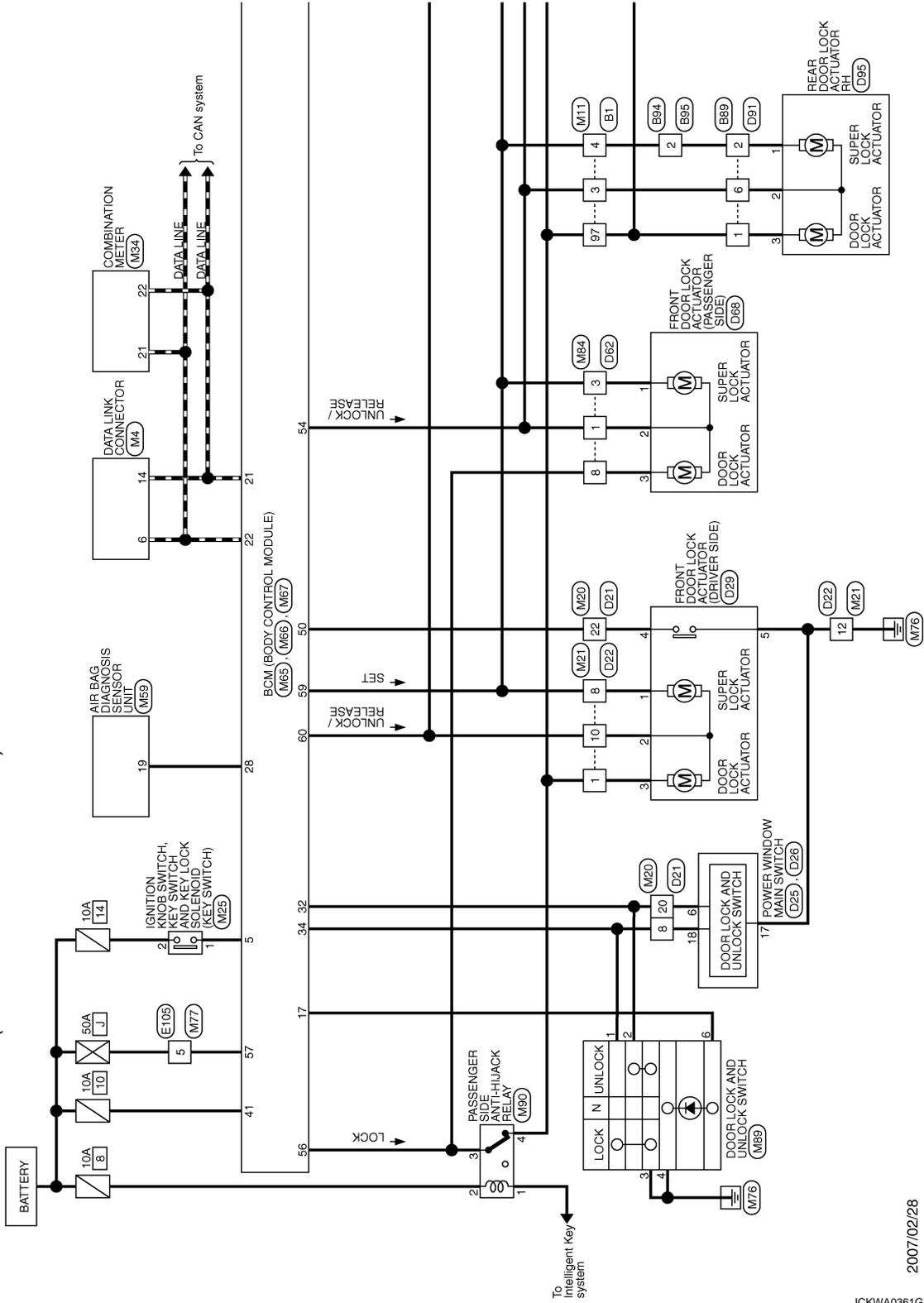
< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Wiring Diagram - SUPER LOCK CONTROL SYSTEM -

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SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)



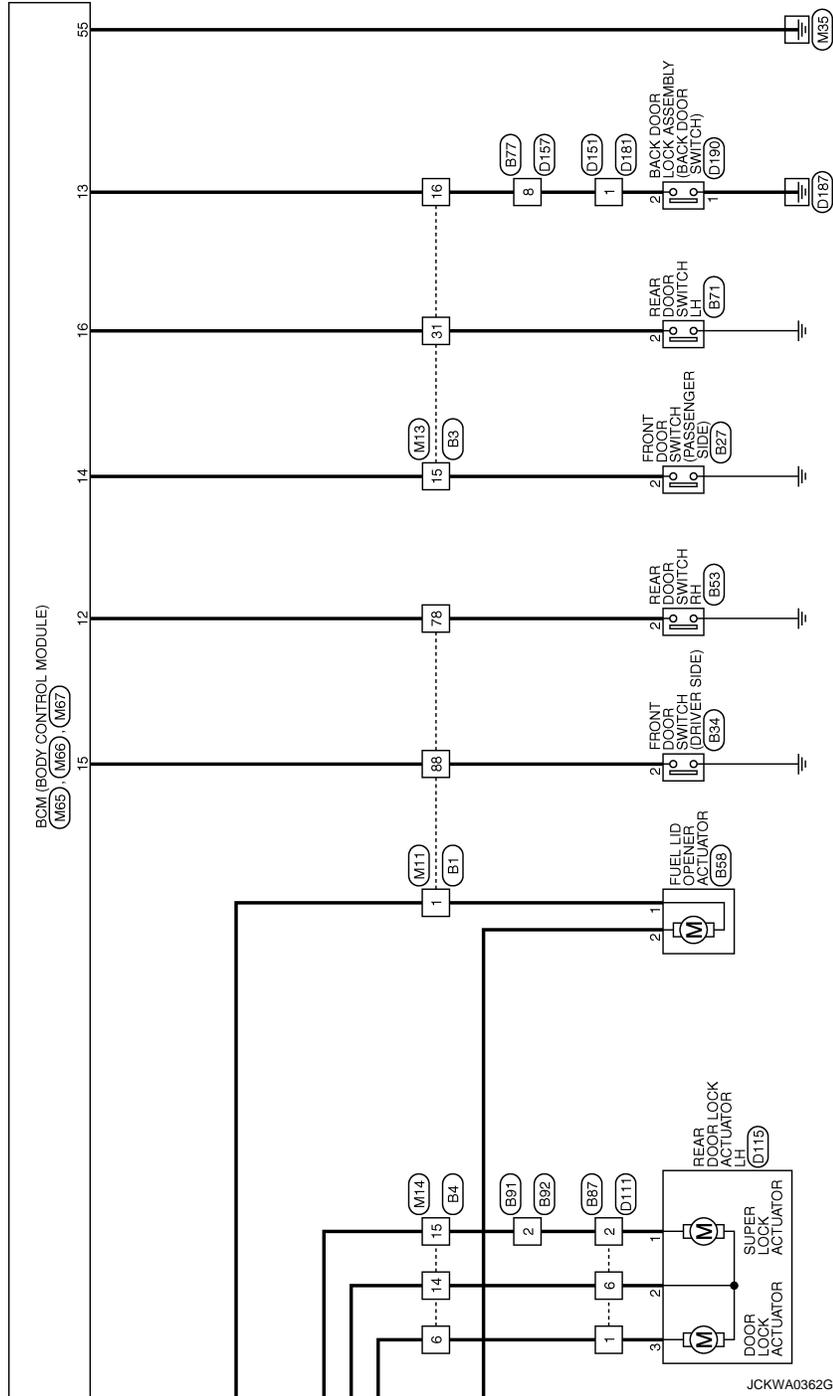
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BCM (BODY CONTROL MODULE)

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[WITH I-KEY & SUPER LOCK]



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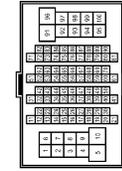
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

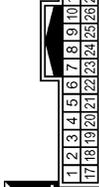
SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



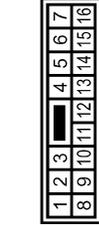
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	O	-
4	R	-
78	Y	-
88	BR	-
97	V	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



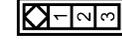
Terminal No.	Color of Wire	Signal Name [Specification]
15	P	-
16	V	-
31	GR	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS18MW-GS



Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	O	-
15	L	-

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



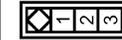
Terminal No.	Color of Wire	Signal Name [Specification]
2	P	- [RHD models]

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



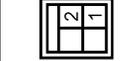
Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [RHD models]

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-

Connector No.	B59
Connector Name	FUEL LID OPENER ACTUATOR
Connector Type	M04FW-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	UNLOCK
2	V	LOCK

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
8	V	-

Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	L	-
6	O	-

Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	R	-
6	G	-

Connector No.	B91
Connector Name	WIRE TO WIRE
Connector Type	NS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	-

Connector No.	B92
Connector Name	WIRE TO WIRE
Connector Type	NS02MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	-

Connector No.	B94
Connector Name	WIRE TO WIRE
Connector Type	NS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-

Connector No.	B95
Connector Name	WIRE TO WIRE
Connector Type	NS02MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
8	G	-
20	BR	-
22	P	-

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
8	BR	-
10	O	-
12	B	-

Connector No.	D25
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



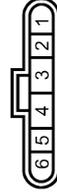
Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-

Connector No.	D26
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS09FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
17	B	-
18	G	-

Connector No.	D29
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA04FB-FHA2-LC



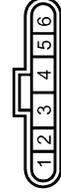
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	SB	-
4	P	-
5	B	-

Connector No.	D62
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



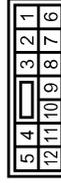
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
3	R	-
8	V	-

Connector No.	D88
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2-LC



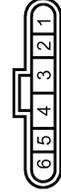
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-
3	V	-

Connector No.	D91
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	R	-
6	G	-

Connector No.	D95
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA04FB-FHA2-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	V	-

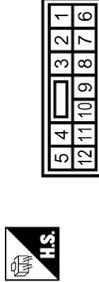
BCM (BODY CONTROL MODULE)

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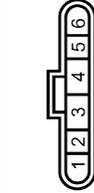
[WITH I-KEY & SUPER LOCK]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

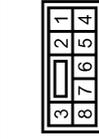
Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



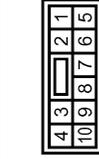
Connector No.	D115
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA4FB-FHA2-LC



Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FER-CS



Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



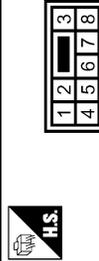
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	R	-
6	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
8	V	-

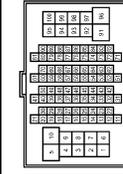
Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS03MR-CS



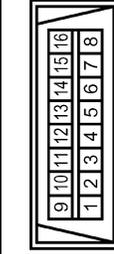
Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-

Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

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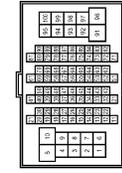
BCM (BODY CONTROL MODULE)

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[WITH I-KEY & SUPER LOCK]

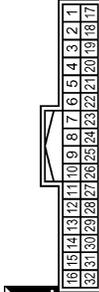
SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



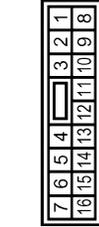
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	- [RHD models]
3	O	- [RHD models]
4	R	-
78	LG	-
88	BR	-
97	V	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
15	P	-
16	Y	- [RHD models]
31	R	- [RHD models]

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



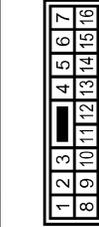
Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	G	- [RHD models]
15	R	-

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
8	SB	-
20	BR	-
22	G	- [With Intelligent Key]

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



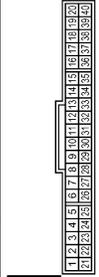
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
8	R	-
10	O	-
12	B	-

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK08MGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M59
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TK20FY-EX-SC



Terminal No.	Color of Wire	Signal Name [Specification]
19	LG	DEPLOYMENT INFORMATION [RHD models with side air bag]

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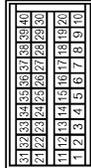
BCM (BODY CONTROL MODULE)

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[WITH I-KEY & SUPER LOCK]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAB40FE



Terminal No.	Color of Wire	Signal Name [Specification]
5	LG	KEY SW (With Intelligent Key)
12	LG	DOOR SW (RR)
13	Y	DOOR SW (BACK) [RHD models]
14	P	DOOR SW (AS) [RHD models]
15	BR	DOOR SW (FR) [RHD models]
16	R	DOOR SW (RL) [RHD models]
17	L	DOOR LOCK INDICATOR
21	P	CAN-L
22	L	CAN-H
28	LG	SHOCK DETECT SW [RHD models with side air bag]
32	BR	LOCK UNLOCK SW (UNLOCK)

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12FBR



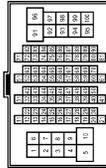
Terminal No.	Color of Wire	Signal Name [Specification]
41	LG	BAT/FUSE
50	G	EXTRA INPUT [RHD models with Intelligent Key]

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA08FB



Terminal No.	Color of Wire	Signal Name [Specification]
54	G	DOOR UNLOCK OUTPUT (OTHER [RHD models])
55	B	GND
56	V	DOOR LOCK OUTPUT (ALL)
57	Y	BAT (L)
59	R	SUPER LOCK SET OUTPUT
60	O	DOOR UNLOCK/RELEASE OUTPUT [RHD models]

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	RS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	R	-
8	V	-

Connector No.	M89
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	TK10FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	BR	-
3	B	-
4	B	-
6	L	-

Connector No.	M90
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS30FB-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	V	-
4	V	-

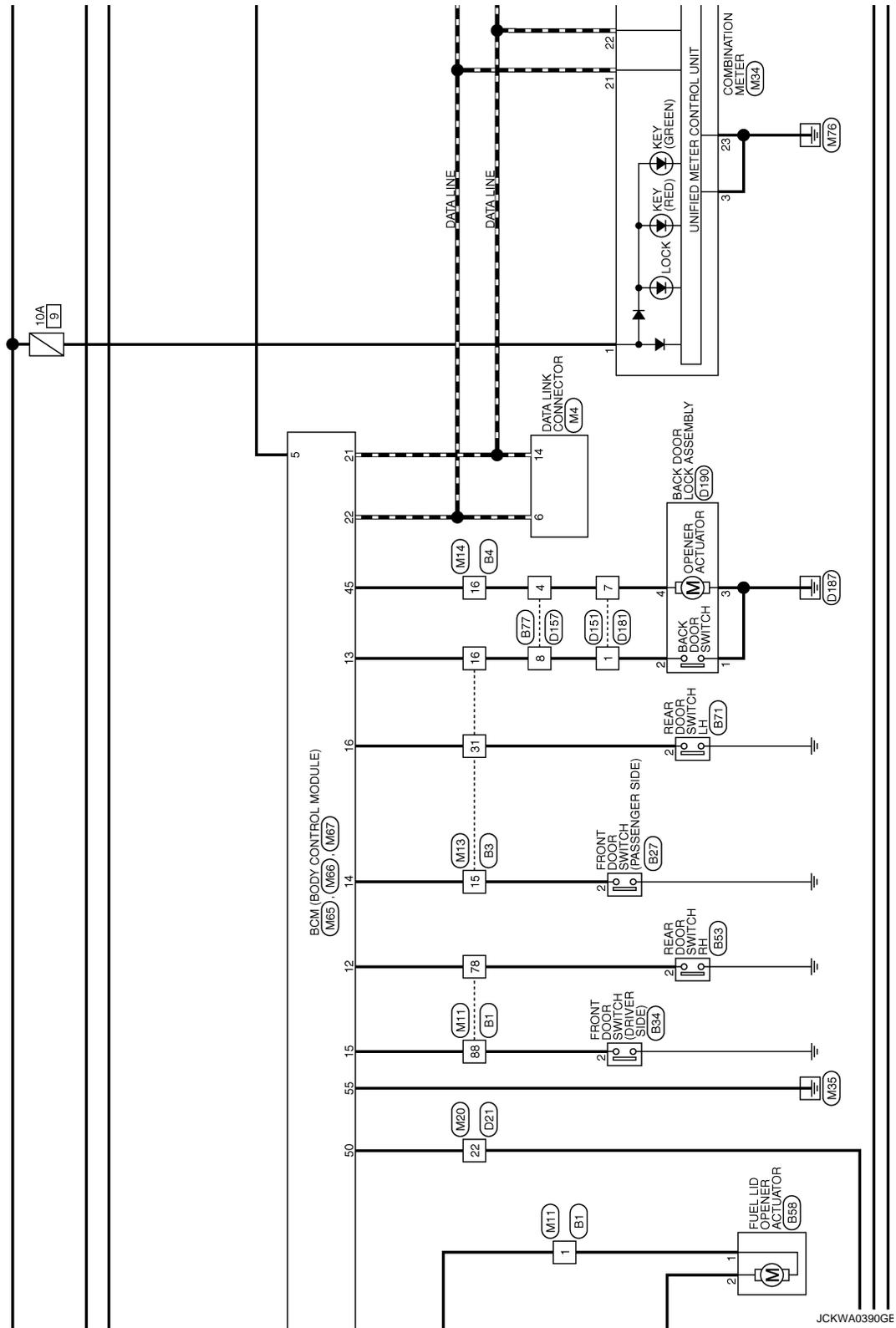
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]



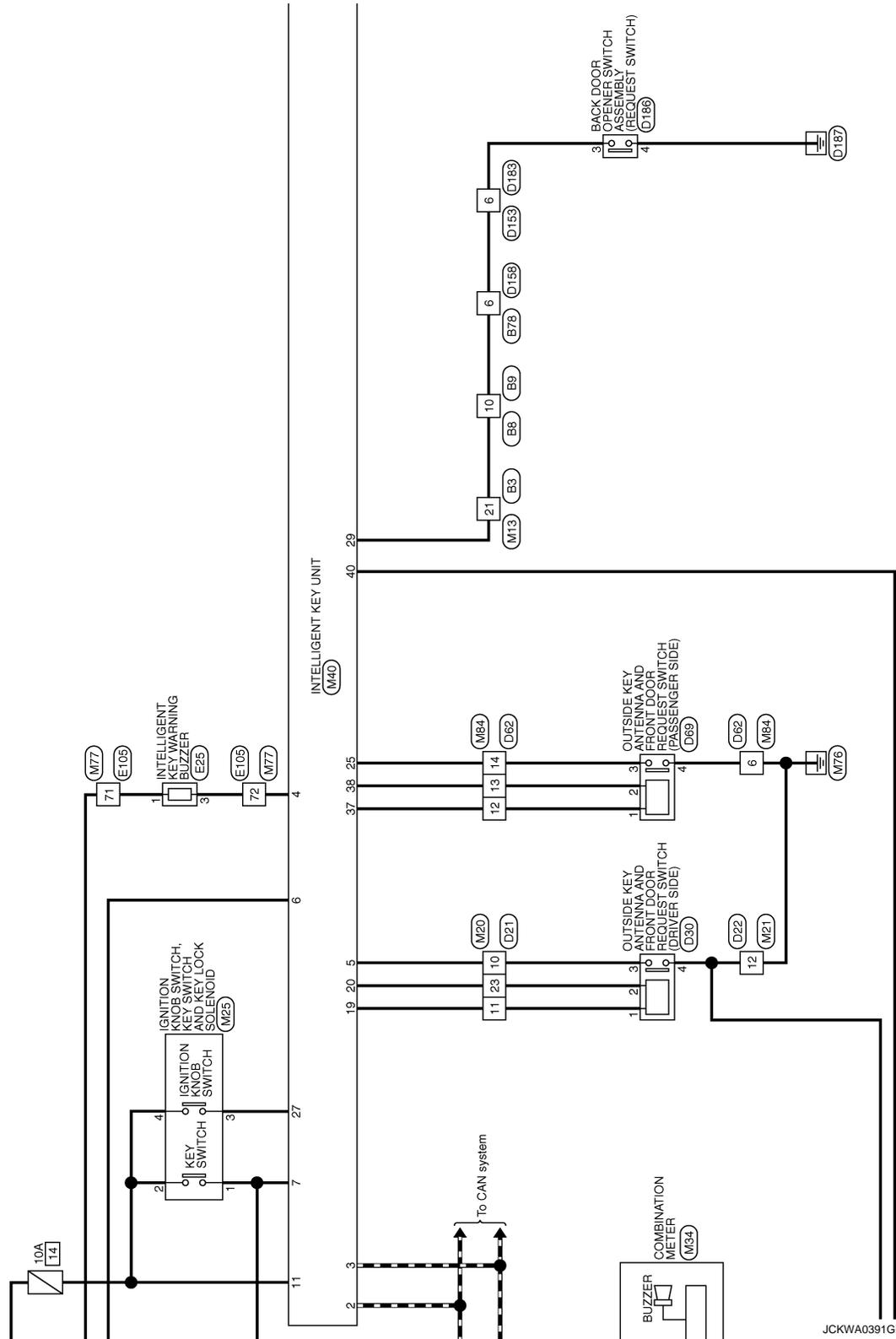
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

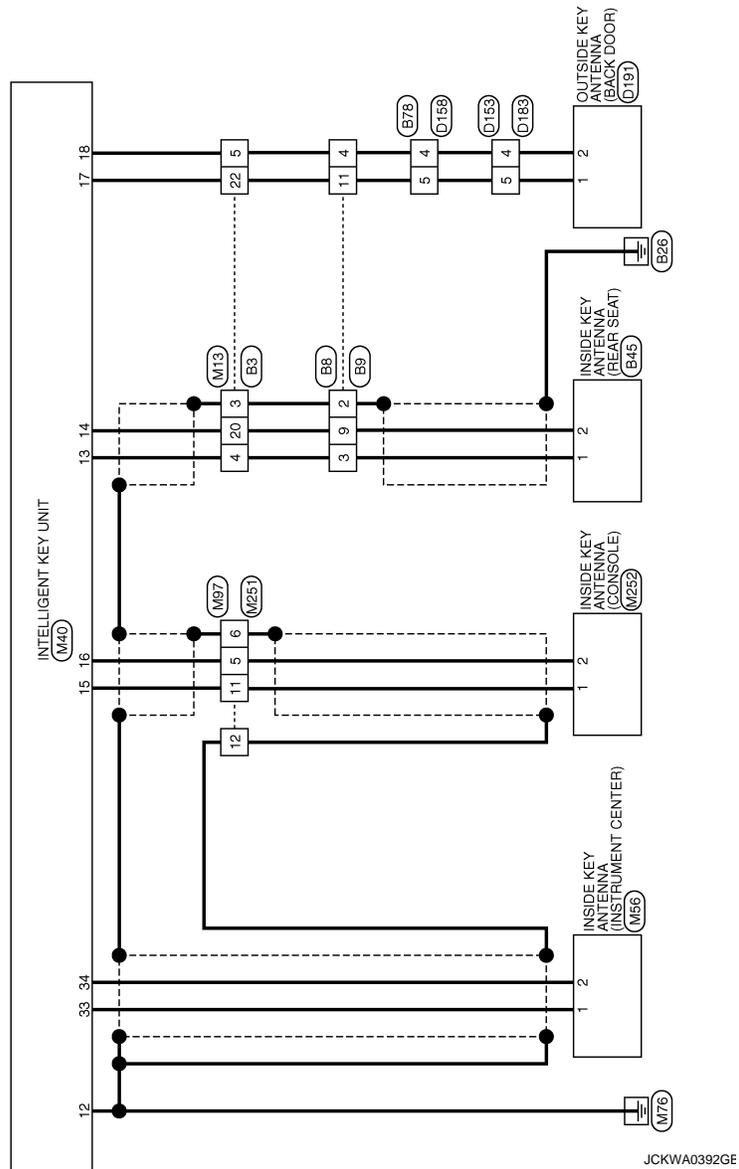


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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]



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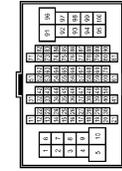
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	O	-
4	R	-
78	Y	-
88	BR	-
97	V	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



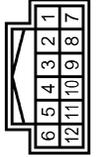
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-
4	P	-
5	R	-
15	P	-
16	V	-
20	L	-
21	SB	-
22	BR	-
31	GR	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS18MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	O	-
15	L	-
16	W	-

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	B	-
3	P	-
4	R	-
9	L	-
10	SB	-
11	BR	-

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
2	SHIELD	-
3	P	-
4	R	-
9	L	-
10	SB	-
11	BR	-

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	AQ9FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	- [RHD models]

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	AQ9FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [RHD models]

Connector No.	B45
Connector Name	INSIDE KEY ANTENNA (REAR SEAT)
Connector Type	RKQ2F5Y



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	L	-

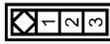
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	AQ3FW



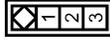
Terminal No.	2	Y	Signal Name [Specification]	-
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Connector No.	B58
Connector Name	FUEL LID OPENER ACTUATOR
Connector Type	MC4FW-LC



Terminal No.	1	G	Signal Name [Specification]	UNLOCK
Terminal No.	2	V	Signal Name [Specification]	LOCK

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	AQ3FW



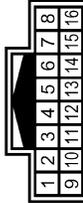
Terminal No.	2	GR	Signal Name [Specification]	-
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Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	4	W	Signal Name [Specification]	-
Terminal No.	8	V	Signal Name [Specification]	-

Connector No.	B78
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



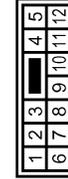
Terminal No.	4	R	Signal Name [Specification]	-
Terminal No.	5	BR	Signal Name [Specification]	-
Terminal No.	6	SB	Signal Name [Specification]	-

Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	1	V	Signal Name [Specification]	-
Terminal No.	2	L	Signal Name [Specification]	-
Terminal No.	6	O	Signal Name [Specification]	-

Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	1	V	Signal Name [Specification]	-
Terminal No.	2	R	Signal Name [Specification]	-
Terminal No.	6	G	Signal Name [Specification]	-

Connector No.	B91
Connector Name	WIRE TO WIRE
Connector Type	NS02FW-CS



Terminal No.	2	L	Signal Name [Specification]	-
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	B92
Connector Name	WIRE TO WIRE
Connector Type	NS02MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	-

Connector No.	B94
Connector Name	WIRE TO WIRE
Connector Type	NS02FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-

Connector No.	B95
Connector Name	WIRE TO WIRE
Connector Type	NS02MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



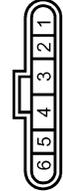
Terminal No.	Color of Wire	Signal Name [Specification]
10	GR	-
11	BR	-
22	P	-
23	O	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
8	BR	-
10	O	-
12	B	-

Connector No.	D29
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA04FB-FHA2-LC



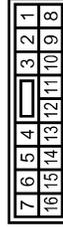
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	SB	-
4	P	-
5	B	-

Connector No.	D30
Connector Name	OUTSIDE KEY ANTENNA AND FRONT DOOR REQUEST SWITCH (DRIVER SIDE)
Connector Type	RHD4MB



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	GR	-
4	B	-

Connector No.	D62
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
3	R	-
6	B	-
8	V	-
12	BR	-
13	P	-
14	V	-

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	D68
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA04FB-FHAZ-LC



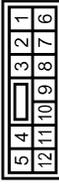
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-
3	V	-

Connector No.	D69
Connector Name	DOOR REQUEST SWITCH (PASSENGER)
Connector Type	RH04MB



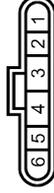
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	P	-
3	BR	-
4	B	-

Connector No.	D91
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	R	-
6	G	-

Connector No.	D95
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA04FB-FHAZ-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	V	-

Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	R	-
6	G	-

Connector No.	D115
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA04FB-FHAZ-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	V	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FB-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
7	W	-

Connector No.	D153
Connector Name	WIRE TO WIRE
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	W	-
6	SB	-

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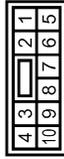
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

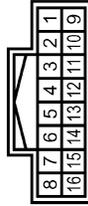
INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	D187
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	V	- [RHD models]
8	V	-

Connector No.	D188
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	W	-
6	SB	-

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08BR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
7	W	-

Connector No.	D183
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	-
5	W	-
6	SB	-

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK6RW-1V



Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	PASSIVE UNIT
4	B	GND

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-
3	B	-
4	W	-

Connector No.	D191
Connector Name	OUTSIDE KEY ANTENNA (BACK DOOR)
Connector Type	RK02FY



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	R	-

Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	LG	-

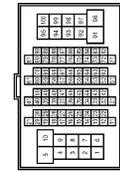
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

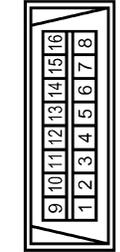
INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



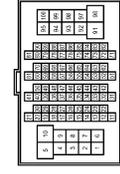
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
71	Y	-
72	LG	-

Connector No.	IM4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



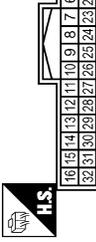
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



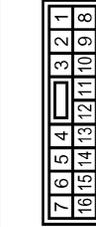
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-[RHD models]
3	O	-[RHD models]
4	R	-
78	LG	-
88	BR	-
97	V	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH82FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
3	SHIELD	-
4	B	-
5	Y	-
15	P	-
16	Y	-[RHD models]
21	SB	-
22	BR	-
31	R	-[RHD models]

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



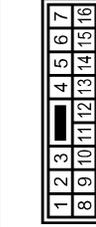
Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	G	-[RHD models]
15	R	-
16	P	-[RHD models]

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH2AMV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
10	GR	-
11	BR	-
22	G	-[With Intelligent Key]
23	O	-

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
8	R	-
10	O	-
12	B	-

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK6BNGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R	-
3	L	-[RHD models]
4	BR	-

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color of Wire	Signal Name [Specification]
1	G	BAT
3	B	GND
21	L	CAN-H
22	P	CAN-L
23	B	GND

Connector No.	M40
Connector Name	INTELLIGENT KEY UNIT
Connector Type	TH40FW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color of Wire	Signal Name [Specification]
2	L	CAN-H
3	P	CAN-L
4	LG	BUIZZER
5	GR	REQUEST SW (DR)
6	W	IGN SW
7	LG	KEY SW
11	BR	BATT-[RHD models]
12	B	GND
13	B	REAR SEAT (+)
14	W	REAR SEAT (-)
15	R	CONSOLE (+)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAB40FB



31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
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Terminal No.	Color of Wire	Signal Name [Specification]
3	W	IGN SW
4	SB	ACC SW
5	LG	KEY SW (With Intelligent Key)
12	LG	DOOR SW (RR)
13	Y	DOOR SW (BACK)[RHD models]
14	P	DOOR SW (AS)[RHD models]
15	BR	DOOR SW (DR)[RHD models]
16	R	DOOR SW (RL)[RHD models]
21	P	CAN-L
22	L	CAN-H
33	Y	HAZARD SW (Except with xenon headlamp and daytime light system)

16	G	CONSOLE (-)
17	BR	BACK DOOR (+)
18	Y	BACK DOOR (-)
19	BR	DRIVER DOOR (+)
20	O	DRIVER DOOR (-)
25	BR	REQUEST SW (AS)
27	L	KNDS SW (RHD models)
29	SB	REQUEST SW (BD)
33	L	INSTRUMENT (+)
34	P	INSTRUMENT (-)
37	V	PASSENGER DOOR (+)
38	P	PASSENGER DOOR (-)[RHD models]
40	V	AS ANTI-HIACK

Connector No.	M56
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	FK02FEY



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-

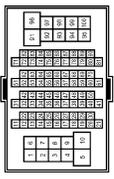
Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FH408FB



60	59	58	57	56	55	54	53
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Terminal No.	Color of Wire	Signal Name [Specification]
54	G	DOOR UNLOCK OUTPUT (OTHER[RHD models])
55	B	GND
56	Y	DOOR LOCK OUTPUT (ALL)
57	Y	BATT(F/L)
59	R	SUPER LOCK SET OUTPUT
60	O	DOOR UNLOCK/RELEASE OUTPUT[RHD models]

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-
71	Y	-
72	LG	-

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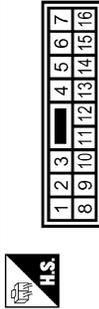
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



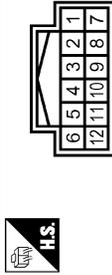
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	R	-
6	B	-
8	V	-
12	BR	-
13	W	-
14	V	-

Connector No.	M80
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS30FB-M2



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	V	-
4	V	-

Connector No.	M87
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	G	-
6	B	-
11	R	-
12	B	-

Connector No.	M251
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	G	-
6	SHIELD	-
11	R	-
12	SHIELD	-

Connector No.	M252
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-

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BCM (BODY CONTROL MODULE)

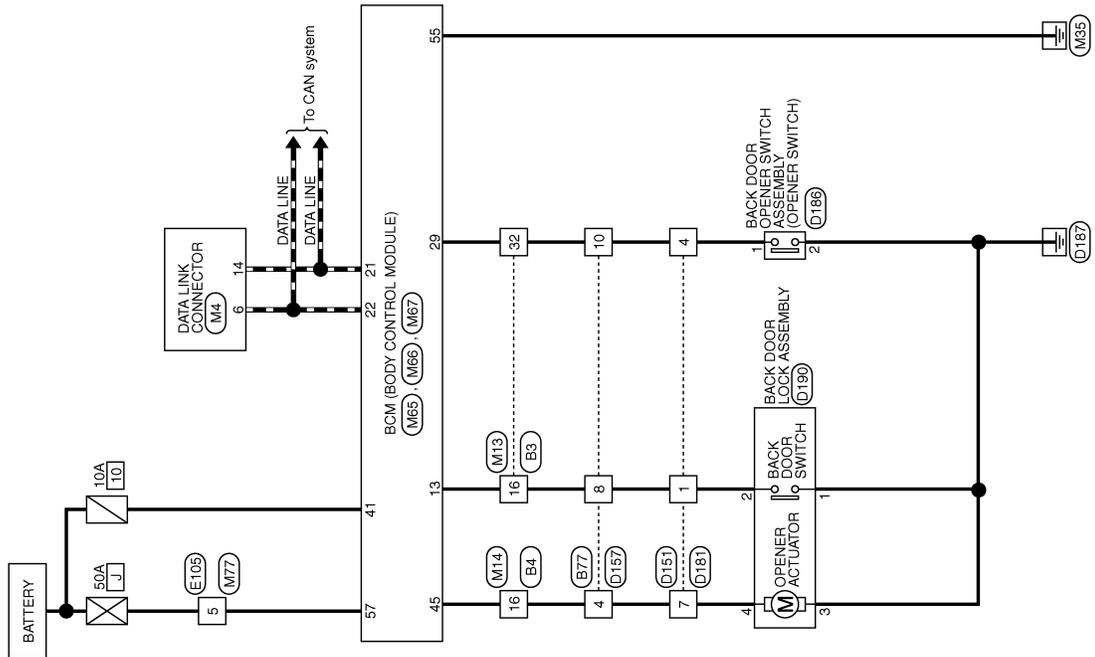
< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

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BACK DOOR OPENER SYSTEM



2007/02/28

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH22MW-NH




Terminal No.	Color of Wire	Signal Name [Specification]
16	V	-
32	G	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
16	W	-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
8	V	-
10	G	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS28FBR-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	LG	-
7	W	-

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



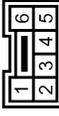

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
4	V	-[LHD models]
8	V	-[RHD models]
10	G	-

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS30MBR-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	G	-
7	W	-

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK08MW-TV

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	B	BCM
		GND

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS24FW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-
3	B	-
4	W	-

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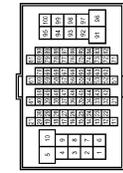
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

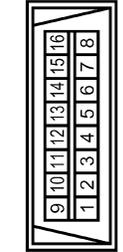
BACK DOOR OPENER SYSTEM

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-GS16-TM4



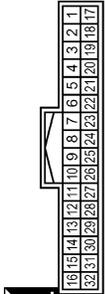
Terminal No.	5	Y	-
Color of Wire			
Signal Name [Specification]			

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



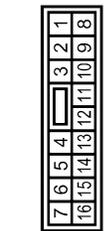
Terminal No.	6	L	-
Color of Wire			
Signal Name [Specification]			

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH42FW-NH



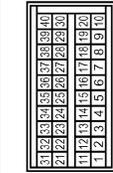
Terminal No.	16	V	- [LHD models]
Color of Wire			
Signal Name [Specification]			

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-GS



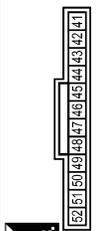
Terminal No.	16	V	- [LHD models]
Color of Wire			
Signal Name [Specification]			

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAB40FB



Terminal No.	13	V	DOOR SW (BACK) [LHD models]
Color of Wire			
Signal Name [Specification]			

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12FB



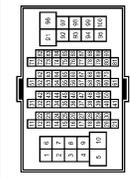
Terminal No.	41	LG	BAT(FUSE)
Color of Wire			
Signal Name [Specification]			

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA08FB



Terminal No.	55	B	GND
Color of Wire			
Signal Name [Specification]			

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-GS16-TM4



Terminal No.	5	Y	-
Color of Wire			
Signal Name [Specification]			

JCKWA0411GE

INFOID:000000001557100

Fail Safe

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC is detected.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DTC	Fail-safe	Cancellation	
B2190: NATS ANTENNA AMP	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC	A
B2191: DIFFERENCE OF KEY	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC	B
B2192: ID DISCORD BCM-ECM	Fuel cut (ECM)	Erase DTC	C
B2193: CHAIN OF BCM-ECM	Fuel cut (ECM)	Erase DTC	
B2194: DISCORD BCM-I-KEY	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC	D
B2195: ANTI SCANNING	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC	E
B2196: DONGLE NG	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC	F

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper auto stop signal. When the rear wiper auto stop signal does not change more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

- Turn ignition switch OFF.
- Pass more than 1 minute after the rear wiper stop.
- Turn ignition switch ON.
- Operate the rear wiper switch.

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status from the terminal voltage. BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

FAIL-SAFE CONTROL BY LIGHT & RAIN SENSOR MALFUNCTION

BCM detects the light & rain sensor serial link error and the light & rain sensor malfunction. BCM controls the following fail-safe when light & rain sensor has a malfunction.

Fail-safe Control

- Auto light control: Headlamp is turned ON.
- Front wiper control: The condition just before the activation of fail-safe is maintained until the front wiper switch is turned OFF.

DTC Inspection Priority Chart

INFOID:000000001557101

Priority	DTC	
1	<ul style="list-style-type: none"> U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN) 	
2	<ul style="list-style-type: none"> B2190: NATS ANTENNA AMP B2191: DIFFERNCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2194: DISCORD BCM-I-KEY B2195: ANTI SCANNING B2196: DONGLE NG 	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DTC Index

INFOID:000000001557102

NOTE:

- Details of time display
- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- PAST: Displays when there is a malfunction that is detected in the past and stored.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

DTC	TIME		Fail-safe	Reference
	0	1 - 39		
U1000: CAN COMM CIRCUIT	0	1 - 39	—	BCS-33
U1010: CONTROL UNIT (CAN)	0	1 - 39	—	BCS-34
B2190: NATS ANTENNA AMP	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-41 • Without Intelligent Key system: SEC-254
B2191: DIFFERENCE OF KEY	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-43 • Without Intelligent Key system: SEC-256
B2192: ID DISCORD BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-38 • Without Intelligent Key system: SEC-251
B2193: CHAIN OF BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-40 • Without Intelligent Key system: SEC-253
B2194: DISCORD BCM-I-KEY	CRNT	PAST	×	SEC-53
B2195: ANTI SCANNING	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-54 • Without Intelligent Key system: SEC-264
B2196: DONGLE NG	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-55 • Without Intelligent Key system: SEC-265

DOOR LOCK

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SYMPTOM DIAGNOSIS

DOOR LOCK

Symptom Table

INFOID:000000001470370

The diagnostics item numbers show the sequence for inspection. Inspection in order from item 1.

NO.	Function	Operation condition	Symptom	Diagnostic Item	Reference page
1	Door lock and unlock switch function	Press door lock and unlock switch.	Door does not lock/unlock	All doors	DLK-503
				Driver side	DLK-503
				Passenger side	DLK-504
				Rear LH	DLK-504
				Rear RH	DLK-505
		Open the door inside the vehicle.	Door does not inside the vehicle.	Driver side	DLK-506
				Passenger side	DLK-506
				Rear LH	DLK-506
Lock all doors with Intelligent Key or door request switch.	Door lock and unlock switch indicator does not illuminate.	—	DLK-508		
		—	DLK-508		
2	Intelligent Key function	Press Intelligent Key button.	Door does not lock/unlock	—	DLK-509
			Anti-hijack function does not operate	—	DLK-510
3	Door request switch function	Press driver side door request switch.	Door does not lock/unlock	—	DLK-511
		Press passenger side door request switch.		—	DLK-511
		Press back door request switch.		—	DLK-512
		Press driver side door request switch, when all doors are locked.	Anti-hijack function does not operate	Driver side door	DLK-514
		Press passenger side door request switch, when all doors are locked.		Passenger side door	DLK-514
4	Key reminder function	Lock all doors with door lock and unlock switch, when Intelligent Key is inside of the vehicle.	Key reminder function does not operate	—	DLK-516
5	Auto door lock function	Unlock all doors and wait more than 2 minutes.	Auto door lock operation does not operate	—	DLK-517
6	Vehicle speed sensing auto door lock function	Vehicle speed is more than 25km/h.	Vehicle speed sensing auto door lock operation does not operate	—	DLK-518
7	Back door opener function	Press back door opener switch.	Back door does not open	—	DLK-519

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DOOR LOCK

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

NO.	Function	Operation condition	Symptom	Diagnostic Item	Reference page
8	Warning function	Door is opened under the following condition. • Ignition knob is OFF or LOCK position.	Ignition knob return forgotten warning does not operate	—	DLK-520
		Driver side door is opened under the following conditions. • Ignition switch is OFF position. • Mechanical key is inserts into ignition key cylinder.	Ignition key warning does not operate	—	DLK-521
		Door is opened under the following condition. • Ignition knob is between ACC and OFF position or ignition knob is pressed in while ignition switch is in LOCK position.	OFF position warning does not operate	Warning lamp Buzzer (Combination meter)	DLK-522 DLK-522
		Door is opened under the following conditions and wait more than 5 seconds. • Engine is running. • Take Intelligent Key out of the vehicle.	Take away warning does not operate	Warning lamp	DLK-523
		Any door open to all door close under the following conditions. • Engine is running. • Take Intelligent Key out of the vehicle.		Intelligent Key warning buzzer	DLK-524
		Take away through window Intelligent Key under the following condition and wait more than 30 seconds. • Engine is running.		Warning lamp	DLK-524
				Buzzer (Combination meter)	DLK-525
		Turn ignition switch ON position, when Intelligent Key battery is low voltage.	Intelligent Key low battery warning does not operate	—	DLK-527
		Press door request switch under the following conditions. • Door is opened. • Ignition switch is in ACC or OFF position or ignition knob is pressed in LOCK position or mechanical key is inserts into ignition key cylinder. • Intelligent Key is inside vehicle.	Door lock operation warning chime does not operate	—	DLK-528
		Press Intelligent Key button under the following conditions. • Door is opened. • Ignition switch is in ACC or OFF position or ignition knob is pressed in LOCK position or mechanical key is inserts into ignition key cylinder.		—	DLK-529
Press back door opener switch under the following conditions. • Door is locked with door lock and unlock switch. • Speed sensing lock or only driver side is unlocked with anti-hijack function.	Back door open warning does not operate	—	DLK-530		
9	Hazard and buzzer reminder function	Press door request switch or Intelligent Key button.	Buzzer reminder operation does not operate	—	DLK-531
		Press door request switch or Intelligent Key button.	Hazard reminder operation does not operate	—	DLK-532

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS > [WITH I-KEY & SUPER LOCK]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Description

INFOID:000000001470371

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

ALL DOOR : Diagnosis Procedure

INFOID:000000001470372

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to [DLK-354, "BCM : Diagnosis Procedure"](#) (BCM).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Refer to [DLK-356, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-368, "PASSENGER SIDE : Component Function Check"](#) (passenger side).

Refer to [DLK-370, "REAR LH : Component Function Check"](#) (rear LH).

Refer to [DLK-371, "REAR RH : Component Function Check"](#) (rear RH).

Refer to [DLK-373, "BACK DOOR : Component Function Check"](#) (back door).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001470399

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

[WITH I-KEY & SUPER LOCK]

< SYMPTOM DIAGNOSIS >

- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001470400

1. CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).

Refer to [DLK-380, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001470401

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001470402

1. CHECK DOOR LOCK ACTUATOR

Check door lock actuator (passenger side).

Refer to [DLK-382, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR LH

REAR LH : Description

INFOID:000000001470403

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

- Doors are not locked by Intelligent Key or door request switch.

REAR LH : Diagnosis Procedure

INFOID:000000001470404

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator LH.

Refer to [DLK-383. "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

REAR RH

REAR RH : Description

INFOID:000000001470546

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-303. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

REAR RH : Diagnosis Procedure

INFOID:000000001470547

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator RH.

Refer to [DLK-384. "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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DOOR DOES NOT OPEN FROM INSIDE THE VEHICLE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR DOES NOT OPEN FROM INSIDE THE VEHICLE

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001515936

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Doors are locked by Intelligent Key or door request switch.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001515937

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator (driver side).

Refer to [DLK-387, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001515938

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Doors are locked by Intelligent Key or door request switch.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001515939

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator (passenger side).

Refer to [DLK-388, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR LH

REAR LH : Description

INFOID:000000001515940

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303, "Work Flow"](#).

DOOR DOES NOT OPEN FROM INSIDE THE VEHICLE

[WITH I-KEY & SUPER LOCK]

< SYMPTOM DIAGNOSIS >

- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- Conditions of Vehicle (Operating Conditions)
- Doors are locked by Intelligent Key or door request switch.

REAR LH : Diagnosis Procedure

INFOID:000000001515941

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator LH.

Refer to [DLK-389. "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

REAR RH

REAR RH : Description

INFOID:000000001515942

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303. "Work Flow"](#).
 - Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- Conditions of Vehicle (Operating Conditions)
- Doors are locked by Intelligent Key or door request switch.

REAR RH : Diagnosis Procedure

INFOID:000000001515943

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator RH.

Refer to [DLK-390. "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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DOOR LOCK AND UNLOCK SWITCH INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH INDICATOR DOES NOT ILLUMINATE

Description

INFOID:000000001524139

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001524140

1. CHECK DOOR LOCK AND UNLOCK SWITCH INDICATOR

Check door lock and unlock switch indicator.

Refer to [DLK-359, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description

INFOID:000000001470544

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-303. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock and unlock switch operations are normal.
- Emergency key is removed from ignition key cylinder.
- All doors are closed.
- Ignition knob is not pressed.
- No Intelligent keys are inside the vehicle.

Diagnosis Procedure

INFOID:000000001470545

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to [DLK-354. "INTELLIGENT KEY UNIT : Diagnosis Procedure"](#) (Intelligent Key unit).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DRIVER SIDE DOOR SWITCH

Check drive side door switch.

Refer to [DLK-367. "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK KEY SWITCH

Check key switch.

Refer to [DLK-375. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK IGNITION KNOB SWITCH

Check ignition knob switch.

Refer to [DLK-378. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.

Refer to [DLK-427. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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ANTI-HIJACK FUNCTION DOES NOT OPERATE WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

ANTI-HIJACK FUNCTION DOES NOT OPERATE WITH INTELLIGENT KEY

Description

INFOID:000000001470542

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-303. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock and unlock switch operations are normal.
- Emergency key is removed from ignition key cylinder.
- All doors are closed.
- Ignition knob is not pressed.
- No Intelligent Keys are inside the vehicle.

Diagnosis Procedure

INFOID:000000001470543

1. CHECK "SELECTIVE UNLOCK FUNCTION" SETTING IN "WORK SUPPORT"

Check "SELECTIVE UNLOCK FUNCTION" setting in "WORK SUPPORT".

Refer to [DLK-349. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "SELECTIVE UNLOCK FUNCTION" of "WORK SUPPORT". Refer to [DLK-349. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001470538

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Intelligent Key operation is normal.
- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- Emergency key is removed from ignition key cylinder.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001470539

1.CHECK “LOCK/UNLOCK BY I-KEY” SETTING IN “WORK SUPPORT”

Check “LOCK/UNLOCK BY I-KEY”“WORK SUPPORT”.

Refer to [DLK-349, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set “LOCK/UNLOCK BY I-KEY” of “WORK SUPPORT”. Refer to [DLK-349, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

2.CHECK DOOR REQUEST SWITCH

Check door request switch.

Refer to [DLK-361, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.

Refer to [DLK-398, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check Intermittent Incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001470536

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Intelligent Key operation is normal.
- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- Emergency key is removed from ignition key cylinder.
- Ignition switch is in OFF position.

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

- No Intelligent Keys are inside the vehicle.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001470537

1.CHECK DOOR REQUEST SWITCH

Check door request switch.

Refer to [DLK-363. "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.

Refer to [DLK-401. "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check Intermittent Incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

BACK DOOR

BACK DOOR : Description

INFOID:000000001470534

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-303. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Intelligent Key operation is normal.
- "LOCK/UNLOCK BY I-KEY" is ON when setting on CONSULT-III.
- Emergency key is removed from ignition key cylinder.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

BACK DOOR : Diagnosis Procedure

INFOID:000000001470535

1.CHECK DOOR REQUEST SWITCH

Check back door request switch.

Refer to [DLK-365. "BACK DOOR : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.

Refer to [DLK-404. "BACK DOOR : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

[WITH I-KEY & SUPER LOCK]

< SYMPTOM DIAGNOSIS >

YES >> Check Intermittent Incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> GO TO 1.

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ANTI-HIJACK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

ANTI-HIJACK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001548078

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Intelligent Key operation is normal.
- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- Emergency key is removed from ignition key cylinder.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001548079

1.CHECK “SELECTIVE UNLOCK FUNCTION” SETTING IN “WORK SUPPORT”

Check “SELECTIVE UNLOCK FUNCTION” setting in “WORK SUPPORT”.

Refer to [DLK-349, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set “SELECTIVE UNLOCK FUNCTION” of “WORK SUPPORT”. Refer to [DLK-349, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001548080

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Intelligent Key operation is normal.
- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- Emergency key is removed from ignition key cylinder.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001548081

1.CHECK PASSENGER SIDE ANTI-HIJACK RELAY

Check passenger side anti-hijack relay.

Refer to [DLK-418, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

ANTI-HIJACK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> GO TO 1.

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KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

KEY REMINDER FUNCTION DOES NOT OPERATE

Description

INFOID:000000001470530

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303, "Work Flow"](#).
- Understand the operation when does it work, refer to [DLK-319, "KEY REMINDER : System Description"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Diagnosis Procedure

INFOID:000000001470531

1. CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-367, "DRIVER SIDE : Component Function Check"](#). (Driver side)

Refer to [DLK-368, "PASSENGER SIDE : Component Function Check"](#). (Passenger side)

Refer to [DLK-370, "REAR LH : Component Function Check"](#). (Rear LH)

Refer to [DLK-371, "REAR RH : Component Function Check"](#). (Rear RH)

Refer to [DLK-373, "BACK DOOR : Component Function Check"](#). (Back door)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-408, "INSTRUMENT CENTER : Component Function Check"](#). (Instrument center)

Refer to [DLK-411, "CONSOLE : Component Function Check"](#). (Console)

Refer to [DLK-414, "REAR SEAT : Component Function Check"](#). (Rear seat)

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Description

INFOID:000000001470528

NOTE:

- "AUTO RELOCK TIMER" is not OFF when setting on CONSULT-III.
 - Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-303, "Work Flow"](#).
 - Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
 - Understand the operation when does it work, refer to [DLK-322, "AUTO DOOR LOCK : System Description"](#).
- Conditions of Vehicle (Operating Conditions)
- Request switch operation and door lock and unlock switch operation are normal.

Diagnosis Procedure

INFOID:000000001470529

1. CHECK "AUTO LOCK SET" SETTING IN "WORK SUPPORT"

Check "AUTO LOCK SET" setting in "WORK SUPPORT".

Refer to [DLK-349, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "AUTO LOCK SET" setting in "WORK SUPPORT". Refer to [DLK-349, "CONSULT-III Function \(INTELLIGENT KEY\)"](#)

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

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VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE
< SYMPTOM DIAGNOSIS > **[WITH I-KEY & SUPER LOCK]**

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

Description

INFOID:000000001470526

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-303, "Work Flow"](#).
- Understand the operation when does it work, refer to [DLK-325, "VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Diagnosis Procedure

INFOID:000000001470527

1. CHECK VEHICLE SPEED SIGNAL

Check vehicle speed signal.

Refer to [DLK-426, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

BACK DOOR DOES NOT OPENED

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR DOES NOT OPENED

Description

INFOID:000000001470524

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-303. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock function is normal.
- Vehicle speed is less than 5 km/h (3MPH).
- All doors are unlocked.

Diagnosis Procedure

INFOID:000000001470525

1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-396. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK BACK DOOR OPENER ACTUATOR

Check back door opener actuator.

Refer to [DLK-392. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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IGNITION KNOB RETURN FORGOTTEN WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

IGNITION KNOB RETURN FORGOTTEN WARNING DOES NOT OPERATE

Description

INFOID:000000001470522

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-303. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-336. "System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001470523

1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-422. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

IGNITION KEY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

IGNITION KEY WARNING DOES NOT OPERATE

Description

INFOID:000000001470520

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-303. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-336. "System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001470521

1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-422. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

OFF POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

OFF POSITION WARNING DOES NOT OPERATE WARNING LAMP

WARNING LAMP : Description

INFOID:000000001470463

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-336, "System Description"](#).
- Door lock function is normal.

WARNING LAMP : Diagnosis Procedure

INFOID:000000001470464

1.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-420, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Description

INFOID:000000001470465

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-336, "System Description"](#).
- Door lock function is normal.

BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:000000001470466

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-422, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

TAKE AWAY WARNING DOES NOT OPERATE (DOOR IS OPENED)

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

TAKE AWAY WARNING DOES NOT OPERATE (DOOR IS OPENED) WARNING LAMP

WARNING LAMP : Description

INFOID:000000001470437

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-303. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-336. "System Description"](#).
- Door lock function is normal.

WARNING LAMP : Diagnosis Procedure

INFOID:000000001470438

1.CHECK KEY WARNING LAMP

Check KEY warning lamp.

Refer to [DLK-423. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

TAKE AWAY WARNING DOES NOT OPERATE (ANY DOOR OPEN TO ALL DOORS CLOSE)

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

TAKE AWAY WARNING DOES NOT OPERATE (ANY DOOR OPEN TO ALL DOORS CLOSE)

WARNING LAMP

WARNING LAMP : Description

INFOID:000000001470439

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-336, "System Description"](#).
- Door lock function is normal.

WARNING LAMP : Diagnosis Procedure

INFOID:000000001470440

1.CHECK KEY WARNING LAMP

Check KEY warning lamp.

Refer to [DLK-423, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

INTELLIGENT KEY WARNING BUZZER

INTELLIGENT KEY WARNING BUZZER : Description

INFOID:000000001470441

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-336, "System Description"](#).
- Door lock function is normal.

INTELLIGENT KEY WARNING BUZZER : Diagnosis Procedure

INFOID:000000001470442

1.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-420, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

TAKE AWAY WARNING DOES NOT OPERATE (TAKE AWAY THROUGH WINDOW)

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

TAKE AWAY WARNING DOES NOT OPERATE (TAKE AWAY THROUGH WINDOW)

WARNING LAMP

WARNING LAMP : Description

INFOID:000000001470417

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-336, "System Description"](#).
- Door lock function is normal.

WARNING LAMP : Diagnosis Procedure

INFOID:000000001470418

1.CHECK KEY WARNING LAMP

Check KEY warning lamp.

Refer to [DLK-423, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Description

INFOID:000000001470435

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-336, "System Description"](#).
- Door lock function is normal.

BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:000000001470436

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-422, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

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TAKE AWAY WARNING DOES NOT OPERATE (TAKE AWAY THROUGH WINDOW)

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

NO >> GO TO 1.

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Description

INFOID:000000001470415

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-336, "System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001470416

1.CHECK “LOW BATT OF KEY FOB WARN” SETTING IN “WORK SUPPORT”

Check “LOW BATT OF KEY FOB WARN” setting in “WORK SUPPORT”.

Refer to [DLK-349, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set “LOW BATT OF KEY FOB WARN” setting in “WORK SUPPORT”. Refer to [DLK-349, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

2.CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.

Refer to [DLK-427, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK KEY WARNING LAMP

Check KEY warning lamp.

Refer to [DLK-423, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

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DOOR LOCK OPERATION WARNING CHIME DOES NOT OPERATE WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR LOCK OPERATION WARNING CHIME DOES NOT OPERATE WITH DOOR REQUEST SWITCH

Description

INFOID:000000001470411

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-336, "System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001470412

1. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-420, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR LOCK OPERATION WARNING CHIME DOES NOT OPERATE WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR LOCK OPERATION WARNING CHIME DOES NOT OPERATE WITH INTELLIGENT KEY

Description

INFOID:000000001470413

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-303. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-336. "System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001470414

1. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-420. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

BACK DOOR OPEN WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPEN WARNING DOES NOT OPERATE

Description

INFOID:000000001470409

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock function and back door opener function is normal.

Diagnosis Procedure

INFOID:000000001470410

1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-422. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

BUZZER REMINDER OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BUZZER REMINDER OPERATION DOES NOT OPERATE

Description

INFOID:000000001470407

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-303. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- “ANSWER BACK WITH I-KEY LOCK”, “ANSWER BACK WITH I-KEY UNLOCK” and “ANSWER BACK FUNCTION” are ON when setting on CONSULT-III.
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001470408

1. CHECK SETTING OF BUZZER REMINDER WITH CONSULT-III

Check “ANSWER BACK WITH I-KEY LOCK” and “ANSWER BACK WITH I-KEY UNLOCK” setting in “WORK SUPPORT”.

Refer to [DLK-349. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set “ANSWER BACK WITH I-KEY LOCK” and “ANSWER BACK WITH I-KEY UNLOCK” setting in “WORK SUPPORT”. Refer to [DLK-349. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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HAZARD REMINDER OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

HAZARD REMINDER OPERATION DOES NOT OPERATE

Description

INFOID:000000001470405

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-303, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- "HAZARD ANSWER BACK" is ON when setting on CONSULT-III.
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001470406

1. CHECK SETTING OF BUZZER REMINDER WITH CONSULT-III

Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".
Refer to [DLK-349, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "HAZARD ANSWER BACK" setting in "WORK SUPPORT". Refer to [DLK-349, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

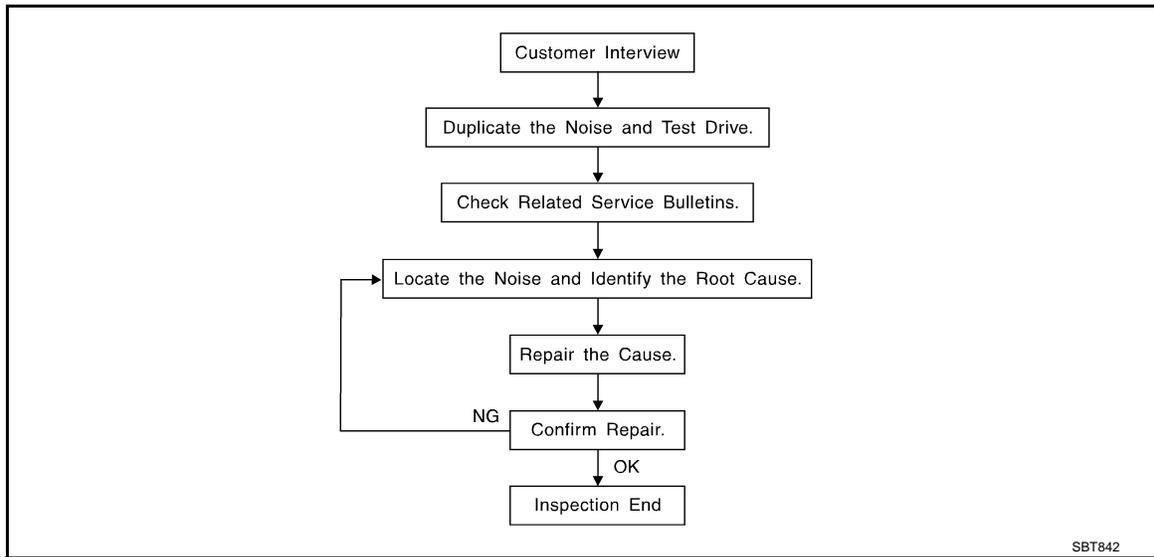
< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000001537521



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of the customer's comments; refer to [DLK-875, "Diagnostic Worksheet"](#). This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by a test drive with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)
Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)
Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)
Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)
Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumble bee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on A/T model).
 - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
 - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Engine Ear or mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - removing the components in the area that you suspect the noise is coming from.
Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
 - tapping or pushing/pulling the component that you suspect is causing the noise.
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
 - placing a piece of paper between components that you suspect are causing the noise.
 - looking for loose components and contact marks.
Refer to [DLK-873, "Inspection Procedure"](#).

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
 - separate components by repositioning or loosening and retightening the component, if possible.
 - insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape are available through your authorized Nissan Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged.

NOTE:

- URETHANE PADS
Insulates connectors, harness, etc.
- INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
- INSULATOR (Light foam block)
- FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
The following materials, not available through NISSAN Parts Department, can also be used to repair squeaks and rattles.
- UHMW(TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications.
- SILICONE GREASE
Used in place of UHMW tape that will be visible or not fit.
Note: Will only last a few months.
- SILICONE SPRAY
Use when grease cannot be applied.
- DUCT TAPE
Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Inspection Procedure

INFOID:000000001537522

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. Cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

1. Shifter assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner.

In addition look for:

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment
3. Trunk lid torsion bars knocking together
4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SEATS

When isolating seat noise it is important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. Rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Diagnostic Worksheet

INFOID:000000001537523



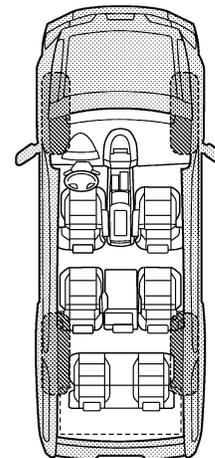
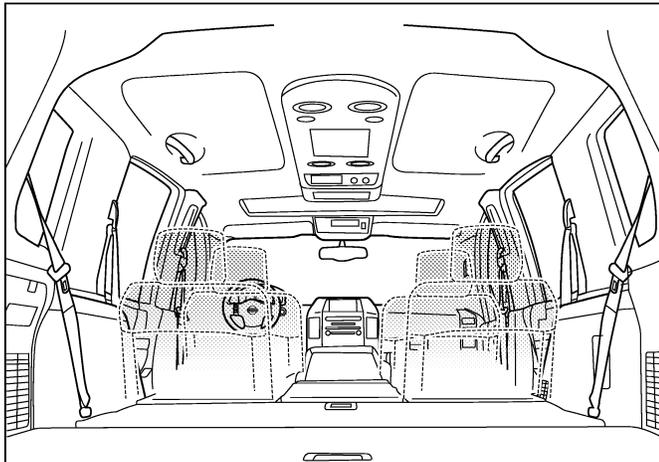
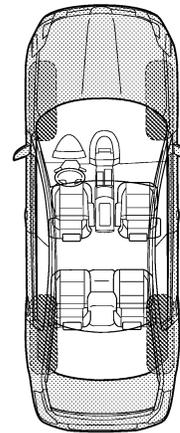
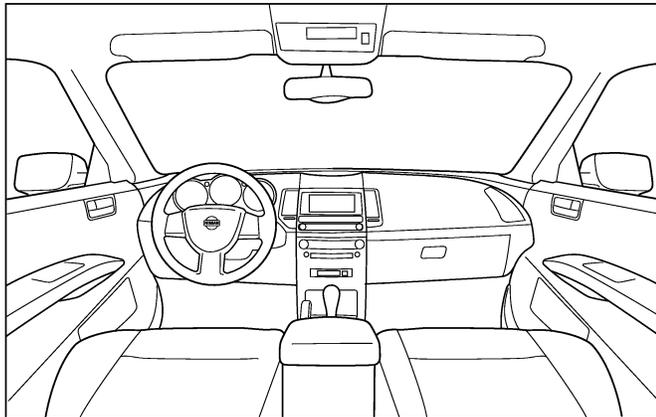
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| <input type="checkbox"/> anytime | <input type="checkbox"/> after sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> when it is raining or wet |
| <input type="checkbox"/> only when it is cold outside | <input type="checkbox"/> dry or dusty conditions |
| <input type="checkbox"/> only when it is hot outside | <input type="checkbox"/> other: |

III. WHEN DRIVING:

- through driveways
- over rough roads
- over speed bumps
- only about ____ mph
- on acceleration
- coming to a stop
- on turns: left, right or either (circle)
- with passengers or cargo
- other: _____
- after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- squeak (like tennis shoes on a clean floor)
- creak (like walking on an old wooden floor)
- rattle (like shaking a baby rattle)
- knock (like a knock at the door)
- tick (like a clock second hand)
- thump (heavy, muffled knock noise)
- buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise verified on test drive	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise source located and repaired	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Follow up test drive performed to confirm repair	<input type="checkbox"/>	<input type="checkbox"/>	_____

VIN: _____ Customer Name: _____

W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000001524329

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIRBAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:000000001524330

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYSTEM).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NATS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.
 - NOTE:**
Supply power using jumper cables if battery is discharged.
2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
4. Perform the necessary repair operation.
5. When the repair work is completed, return the ignition switch to the "LOCK" position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
6. Perform a self-diagnosis check of all control units using CONSULT-III.

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PRECAUTIONS

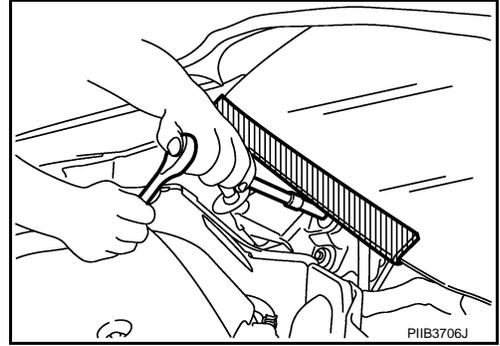
< PRECAUTION >

[WITH I-KEY & SUPER LOCK]

Precaution for Procedure without Cowl Top Cover

INFOID:000000001451702

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



Work

INFOID:000000001451703

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operational.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

PREPARATION

< PREPARATION >

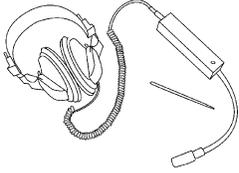
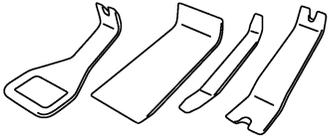
[WITH I-KEY & SUPER LOCK]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000001451704

Tool name	Description
<p data-bbox="193 516 305 541">Engine ear</p>  <p data-bbox="803 632 868 646">SIIA0995E</p>	<p data-bbox="1000 516 1187 541">Locating the noise</p>
<p data-bbox="193 768 331 793">Remover tool</p>  <p data-bbox="803 884 868 898">PIIB7923J</p>	<p data-bbox="1000 768 1409 793">Remove the clips, pawls, and metal clips</p>
<p data-bbox="193 1020 305 1045">Power tool</p>  <p data-bbox="803 1136 868 1150">PIIB1407E</p>	

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HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

ON-VEHICLE REPAIR

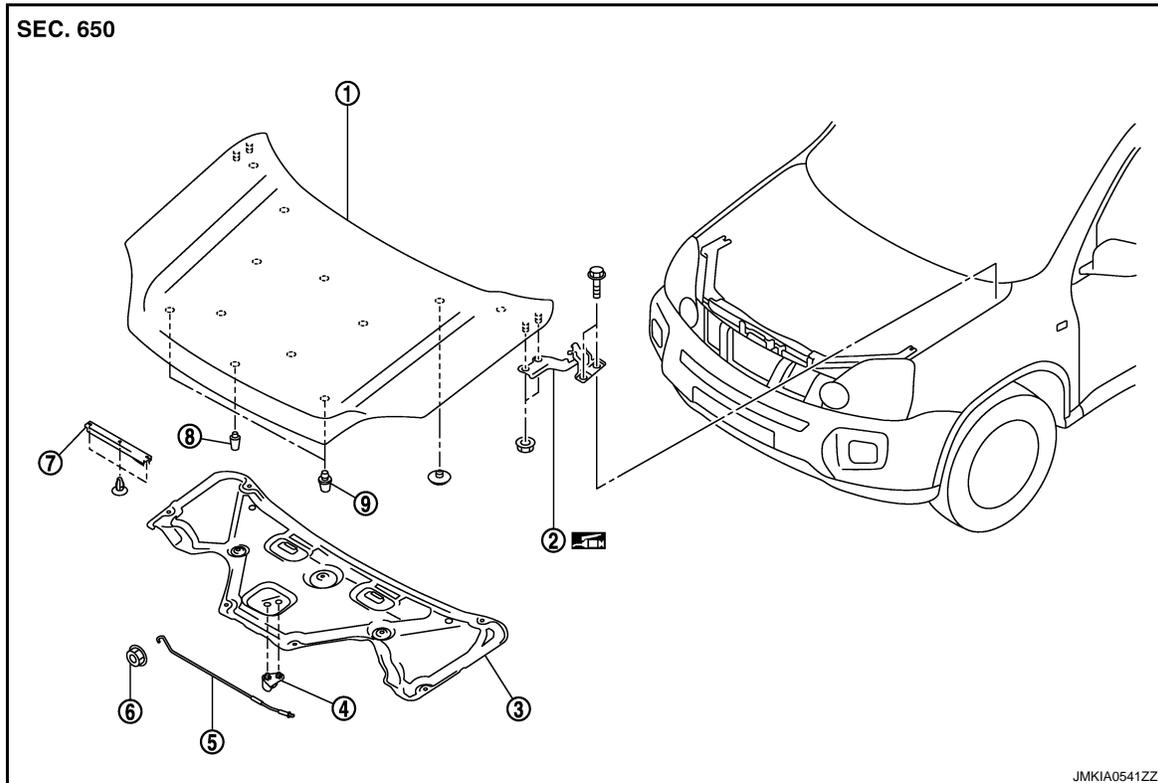
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000001451705

REMOVAL



- | | | |
|-----------------------|------------------------------|----------------------------|
| 1. Hood assembly | 2. Hood hinge | 3. Hood insulator |
| 4. Clamp | 5. Hood support rod | 6. Grommet |
| 7. Radiator core seal | 8. Hood bumper rubber center | 9. Hood bumper rubber side |

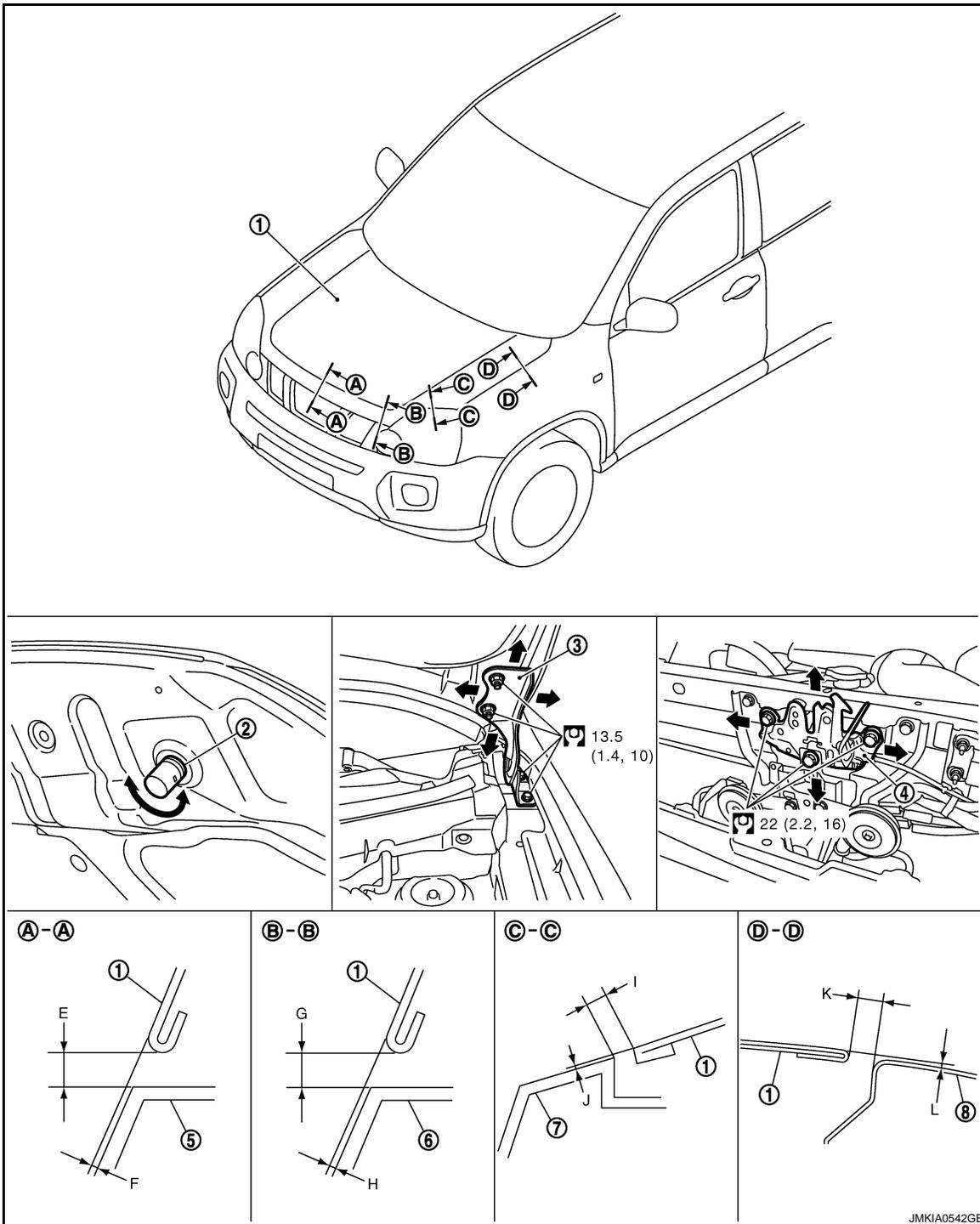
Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]



- | | | |
|---------------------------|----------------------------|-----------------|
| 1. Hood assembly | 2. Hood bumper rubber side | 3. Hood hinge |
| 4. Hood lock assembly | 5. Front grille | 6. Front bumper |
| 7. Front combination lamp | 8. Front fender | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:000000001451706

REMOVAL

1. Support the hood lock assembly with the proper material to prevent it from falling.

WARNING:

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HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

Bodily injury may occur if no supporting rod is holding the hood open when removing the hood stay.

- Remove the hood hinge mounting nuts on the hood to remove the hood assembly.

CAUTION:

Perform work with 2 workers, because of its heavy weight.

- Remove the following parts after removing the hood assembly.
 - Hood insulator
 - Clamp
 - Hood support rod
 - Grommet
 - Radiator core seal
 - Hood bumper rubber center
 - Hood bumper rubber side

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installing, perform hood fitting adjustment. Refer to [DLK-881, "HOOD ASSEMBLY : Adjustment"](#).

HOOD ASSEMBLY : Adjustment

INFOID:000000001451707

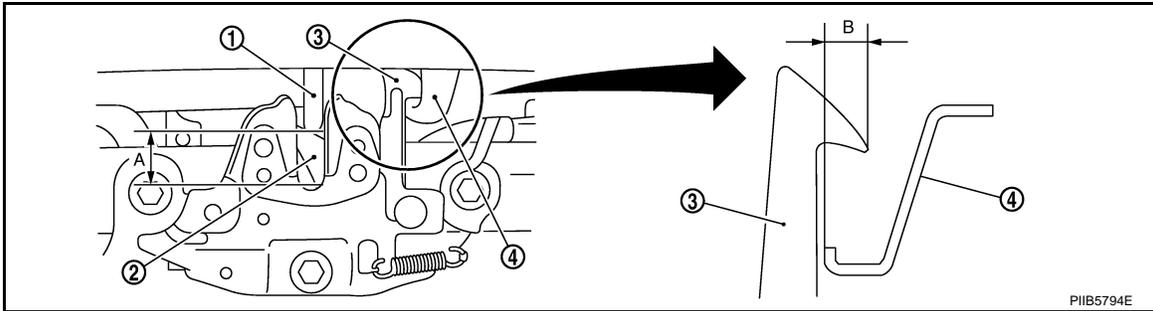
Portion				Standard
Hood – Front grill	A – A	E	Clearance	4.0 – 8.0 (0.157 – 0.315)
		F	Surface height	- 0.4 – 4.0 (- 0.016 – 0.157)
Hood – Front bumper	B – B	G	Clearance	4.0 – 8.0 (0.157 – 0.315)
		H	Surface height	- 0.4 – 4.0 (- 0.016 – 0.157)
Hood – Front combination lamp	C – C	I	Clearance	1.8 – 6.2 (0.071 – 0.244)
		J	Surface height	- 1.3 – 2.7 (- 0.051 – 0.106)
Hood – Front fender	D – D	K	Clearance	2.6 – 4.6 (0.102 – 0.181)
		L	Surface height	- 1.0 – 1.0 (- 0.039 – 0.039)

- Check the clearance and the surface height between the hood and each part by visually and touching. (Fitting standard dimension in the table below should be satisfied.)
- Remove the front grille. Refer to [EXT-18, "Removal and Installation"](#).
- In case any parts are out of specification, adjust them according to the procedures shown below.
- Remove the hood lock and adjust the height by rotating the hood bumper rubber side until the hood becomes 1 to 1.5 mm (0.04 to 0.059 in) lower than the fender.
- Temporarily tighten the hood lock, and position by engaging it with the hood striker. Check the lock and striker for looseness and adjust the clearance and evenness with the striker to satisfy the specification.
- Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately. 200 mm (7.87 in) height or by pressing the hood lightly [approximately. 29 N (3 kg)].

HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]



- 1. Hood striker
- 2. Primary latch
- 3. Secondary striker
- 4. Secondary latch

A : 20.0 mm (0.787 in)

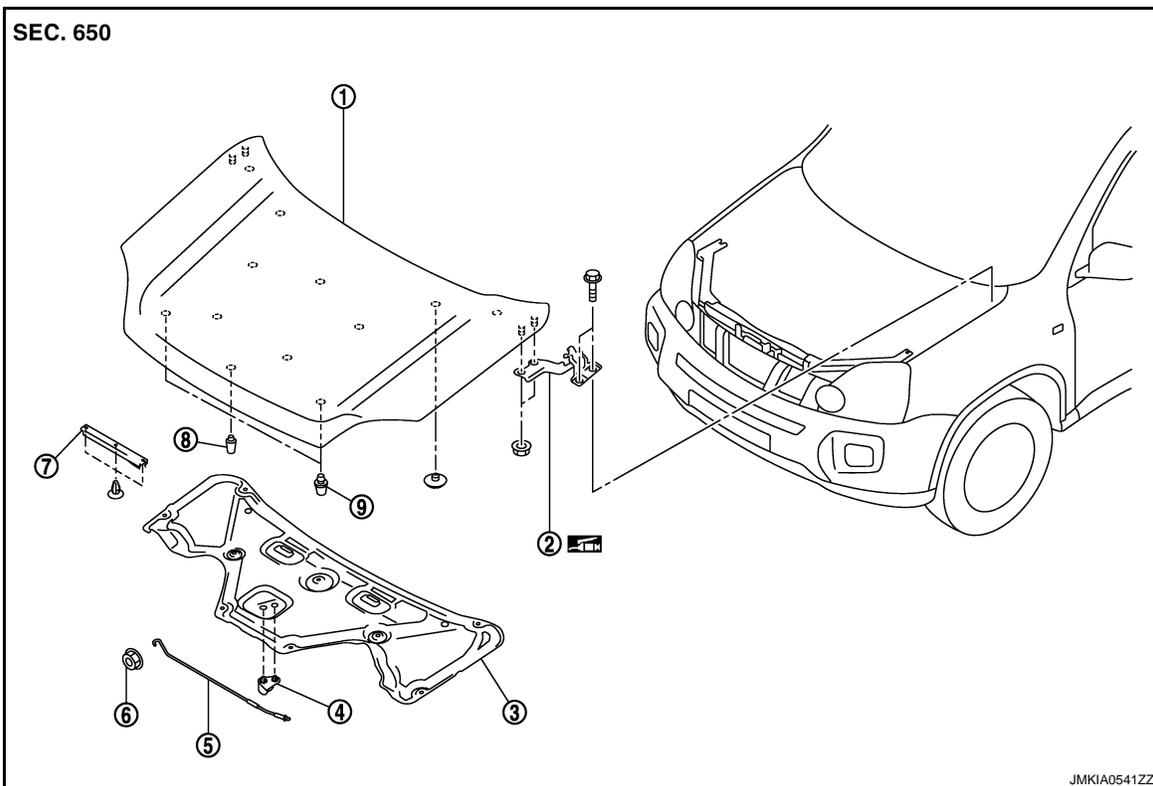
B : 6.8 mm (0.268 in)

7. After adjustment tighten lock bolts to the specified torque.

HOOD HINGE

HOOD HINGE : Exploded View

INFOID:000000001451708



- 1. Hood assembly
- 2. Hood hinge
- 3. Hood insulator
- 4. Clamp
- 5. Hood support rod
- 6. Gromet
- 7. Radiator core seal
- 8. Hood bumper rubber center
- 9. Hood bumper rubber side

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD HINGE : Removal and Installation

INFOID:000000001451709

REMOVAL

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HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

1. Remove the hood assembly. Refer to [DLK-880, "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove the front fender. Refer to [DLK-888, "Removal and Installation"](#).
3. Remove the hood hinge mounting bolts, and then remove the hood hinge.

INSTALLATION

Install in the reverse order of removal.

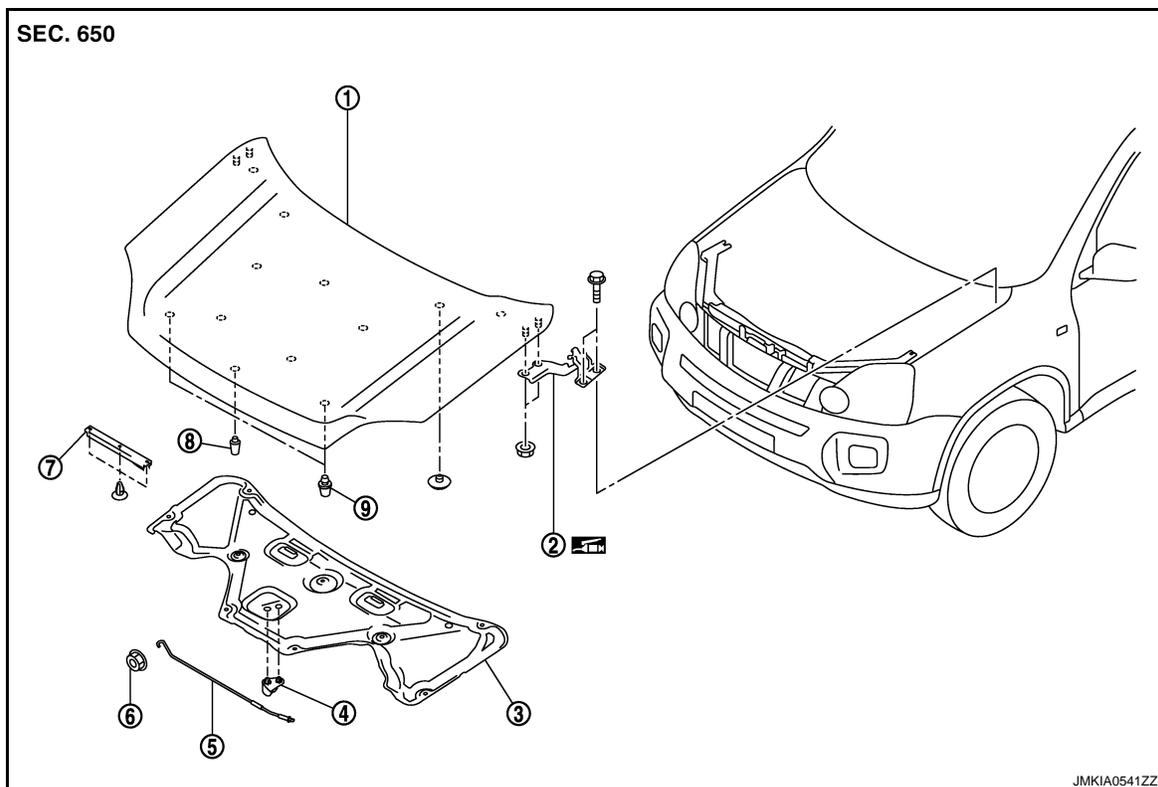
CAUTION:

- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.
- After installation, perform hood fitting adjustment. Refer to [DLK-881, "HOOD ASSEMBLY : Adjustment"](#).

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Exploded View

INFOID:000000001451711



- | | | |
|-----------------------|------------------------------|----------------------------|
| 1. Hood assembly | 2. Hood hinge | 3. Hood insulator |
| 4. Clamp | 5. Hood support rod | 6. Grommet |
| 7. Radiator core seal | 8. Hood bumper rubber center | 9. Hood bumper rubber side |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000001451712

REMOVAL

1. Support the hood lock assembly with the proper material to prevent it from falling.
WARNING:
Bodily injury may occur if no supporting rod is holding the hood open when removing the hood stay.
2. Remove the hood support rod from the grommet.

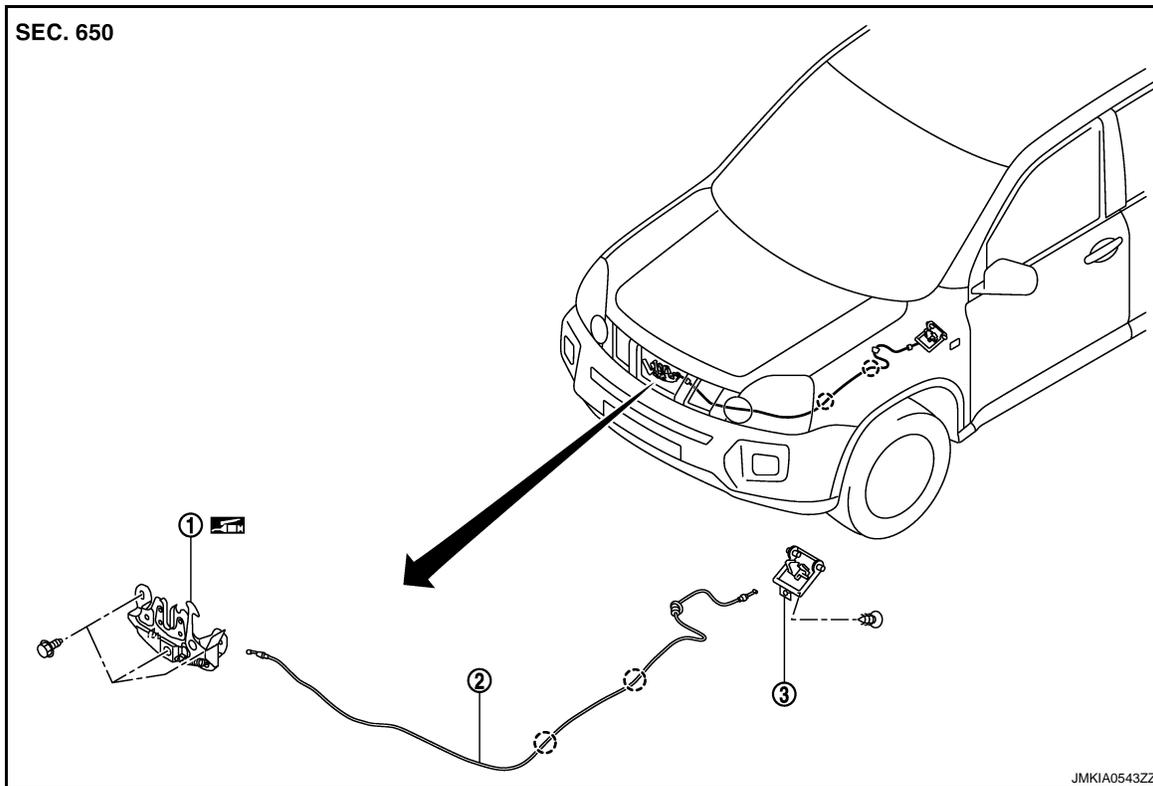
INSTALLATION

Install in the reverse order of removal.

HOOD LOCK CONTROL

HOOD LOCK CONTROL : Exploded View

INFOID:000000001451713



1. Hood lock assembly

2. Hood lock control cable

3. Hood lock opener

○ :Clip

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD LOCK CONTROL : Removal and Installation

INFOID:000000001451714

REMOVAL

1. Remove the hood lock opener mounting bolts, and then remove the hood lock opener.
2. Remove the front grille. Refer to [EXT-18, "Removal and Installation"](#).
3. Remove the fender protector. Refer to [EXT-21, "Removal and Installation"](#).
4. Remove the hood lock mounting bolts, and then remove the hood lock.
5. Disconnect the hood lock cable from hood lock, and clip it from the hoodledge.
6. Remove the grommet on the dash lower panel, and pull the hood lock control cable toward the passenger compartment.

CAUTION:

While pulling, do not to damage (peeling) the outside of the hood lock control cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

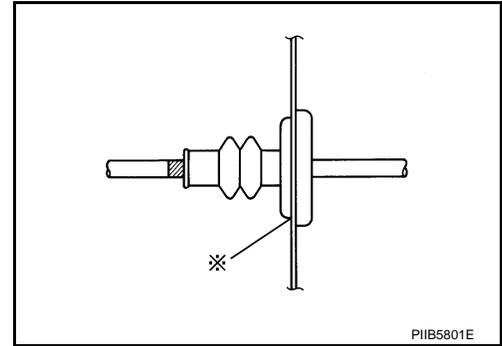
- Do not to bend the cable too much, keeping the radius 100 mm (3.94 in) or more.

HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

- Check that the cable is not offset from the positioning grommet, and apply the sealant to the grommet (at *mark) properly.



- Check that the hood lock control cable is properly engaged with the hood lock.
- After installation, perform hood fitting adjustment. Refer to [DLK-881. "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform the hood lock control inspection. Refer to [DLK-885. "HOOD LOCK CONTROL : Inspection"](#).

HOOD LOCK CONTROL : Inspection

INFOID:000000001451715

NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Check that the secondary latch is properly engaged with the secondary striker [6.8 mm (0.268 in) shown in the figure] by hood weight.
2. While operating the hood opener, carefully check that the front end of the hood is raised by approximately 20.0 mm (0.787 in). Also check that the hood opener returns to the original position.
3. Check that the hood opener operating is condition 49 N (5.0 kg) or below.
4. Install so that static closing face of hood is 94 – 490 N·m (9.6 – 50.0 kg·m).

NOTE:

- Exert vertical force on right side and left side of hood lock.
 - Do not press simultaneously both sides.
5. Check the hood lock lubrication condition. If necessary, apply body grease to the hood lock.

RADIATOR CORE SUPPORT

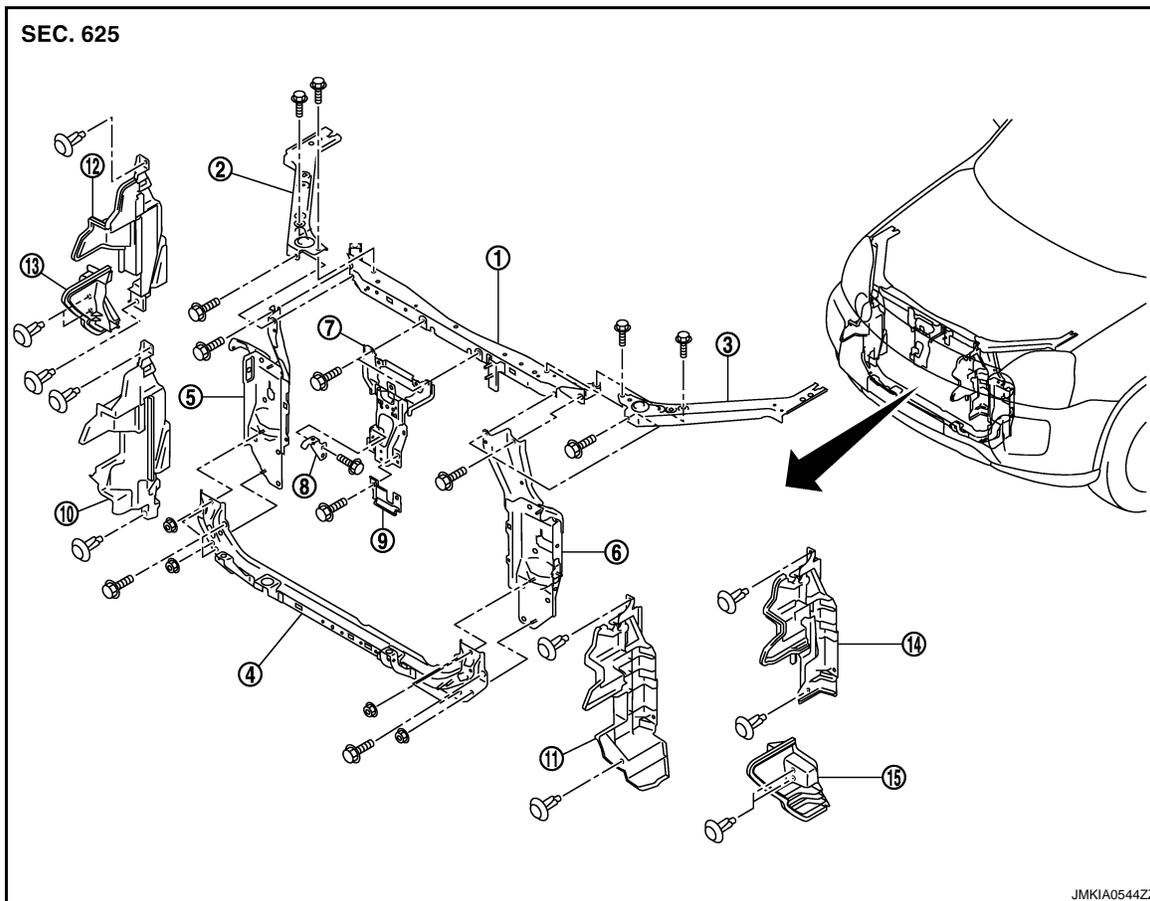
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

RADIATOR CORE SUPPORT

Exploded View

INFOID:000000001451716



- | | | |
|---------------------------------------|---------------------------------------|------------------------------------|
| 1. Radiator core support upper center | 2. Radiator core support upper RH | 3. Radiator core support upper LH |
| 4. Radiator core support lower | 5. Radiator core support side RH | 6. Radiator core support side LH |
| 7. Hood lock support stay assembly | 8. Front bumper fascia center bracket | 9. Sensor bracket |
| 10. Air guide RH | 11. Air guide LH | 12. Air guide upper RH (M9R model) |
| 13. Air guide lower RH (M9R model) | 14. Air guide upper LH (M9R model) | 15. Air guide lower LH (M9R model) |

Removal and Installation

INFOID:000000001451717

REMOVAL

1. Remove the front bumper fascia and the energy absorber. Refer to [EXT-13, "Removal and Installation"](#).
2. Remove the bumper reinforcement. Refer to [EXT-13, "Removal and Installation"](#).
3. Disconnect the liquid tank connector. Refer to [HA-66, "Exploded View"](#).
4. Remove the front combination lamp. Refer to [EXL-213, "Removal and Installation"](#) (XENON TYPE), [EXL-409, "Removal and Installation"](#) (HALOGEN TYPE).
5. Remove the washer tank. Refer to [WW-104, "Removal and Installation"](#).
6. Remove the air inlet hose (LH) and air inlet tube (LH). Refer to [EM-266, "Exploded View"](#) (M9R model).
7. Remove the charge air cooler. Refer to [EM-266, "Removal and Installation"](#) (M9R model).
8. Disconnect the hood lock control cable clamp, and then remove the hood lock assembly. Refer to [DLK-884, "HOOD LOCK CONTROL : Removal and Installation"](#).
9. Remove the air guide mounting clips, and remove the air guide (LH/RH).
10. Remove the horn. Refer to [HRN-6, "Removal and Installation"](#).

RADIATOR CORE SUPPORT

[WITH I-KEY & SUPER LOCK]

< ON-VEHICLE REPAIR >

11. Remove the Intelligent Key warning buzzer (with Intelligent Key systems). Refer to [DLK-298, "Removal and Installation"](#).
12. Disconnect the harness clips from the hood lock stay.
13. Remove the hood lock stay mounting bolts, and then remove the hood lock stay.
14. Remove the crush zone sensor. Refer to [SR-15, "Removal and Installation"](#).
15. Place securely the hood support rod inside the engine mounting bracket hole.

CAUTION:

Check that the hood is securely fix.

16. Remove the radiator core support upper side (RH,LH) mounting bolts, and remove the radiator core support side (RH,LH).
17. Remove the radiator core support upper center mounting bolts, and remove the radiator core support upper center.
18. Disconnect the harness clamp from radiator core support side (LH).
19. Remove the radiator core support lower assembly mounting bolts.
20. Remove the radiator core support lower assembly while other worker is holding the radiator and condenser assembly to prevent the radiator and condenser from falling.

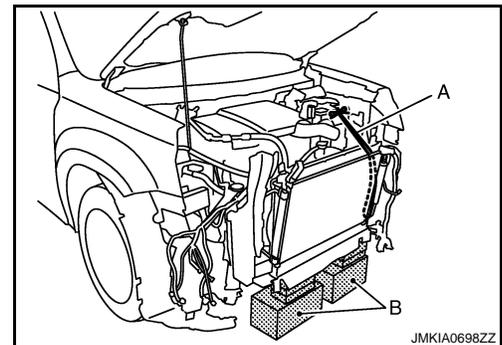
CAUTION:

Operate with two workers, because of its heavy weight.

21. Put some wooden blocks (B) under the radiator and condenser, and use a rope (A) to suspend it to prevent it from falling.

CAUTION:

Operate with two workers, because of its heavy weight.



22. Remove the radiator core support side (RH,LH) mounting nuts, and remove the radiator core support side (RH,LH) from radiator core support lower.

INSTALLATION

Install in the reverse order of removal.

FRONT FENDER

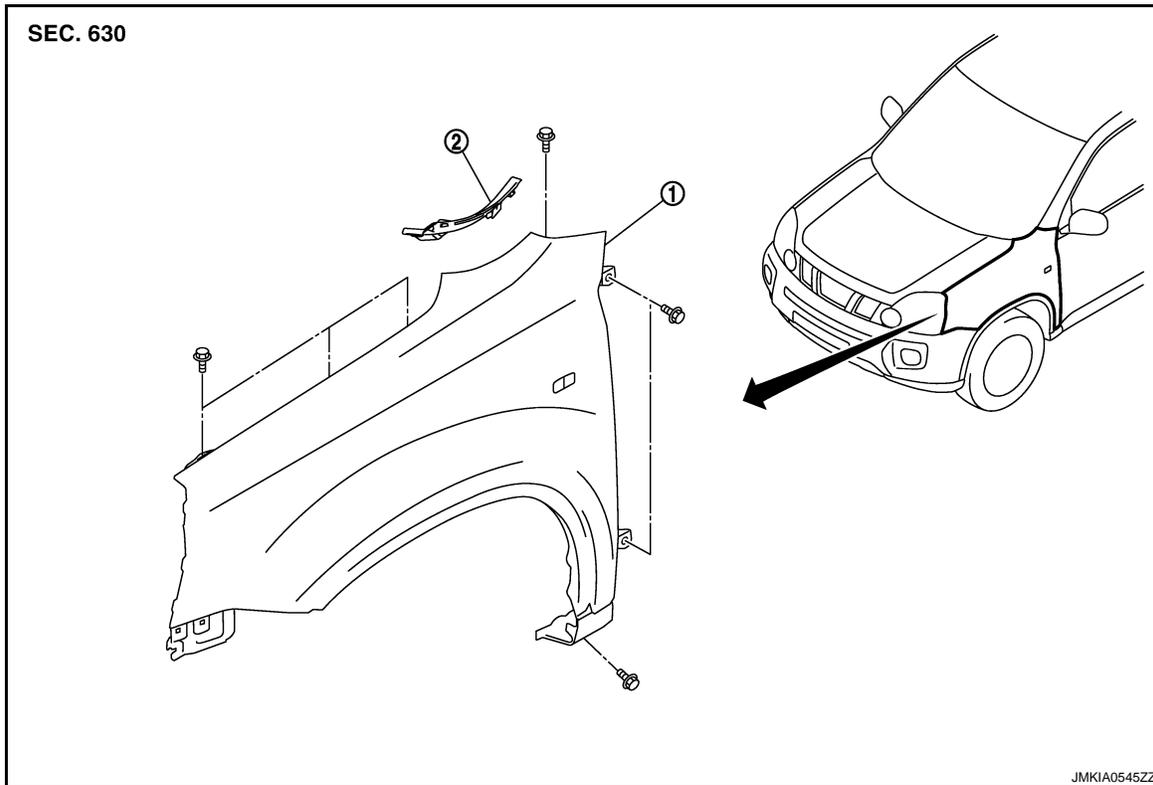
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

FRONT FENDER

Exploded View

INFOID:000000001451718



1. Front fender

2. Front fender finisher

Removal and Installation

INFOID:000000001451719

REMOVAL

1. Remove the fillet molding. Refer to [EXT-24, "Removal and Installation"](#).
2. Remove the front grille. Refer to [EXT-18, "Removal and Installation"](#).
3. Remove the front bumper fascia. Refer to [EXT-13, "Removal and Installation"](#).
4. Remove the front combination lamp. Refer to [EXL-213, "Removal and Installation"](#) (XENON TYPE), [EXL-409, "Removal and Installation"](#) (HALOGEN TYPE).
5. Remove the inner fender protector. Refer to [EXT-21, "Removal and Installation"](#).
6. Remove the front fender finisher.
7. Remove the side turn signal lamp. Refer to [EXL-222, "Removal and Installation"](#).
8. Remove the mounting bolts and remove the front fender.

CAUTION:

Use a shop cloth to protect the body from being damaged during removal.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- After installation, check the front fender adjustment. Refer to [DLK-881, "HOOD ASSEMBLY : Adjustment"](#) and [DLK-891, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply the touch-up paint (the body color) onto the head of the front fender mounting bolts.

FRONT DOOR

< ON-VEHICLE REPAIR >

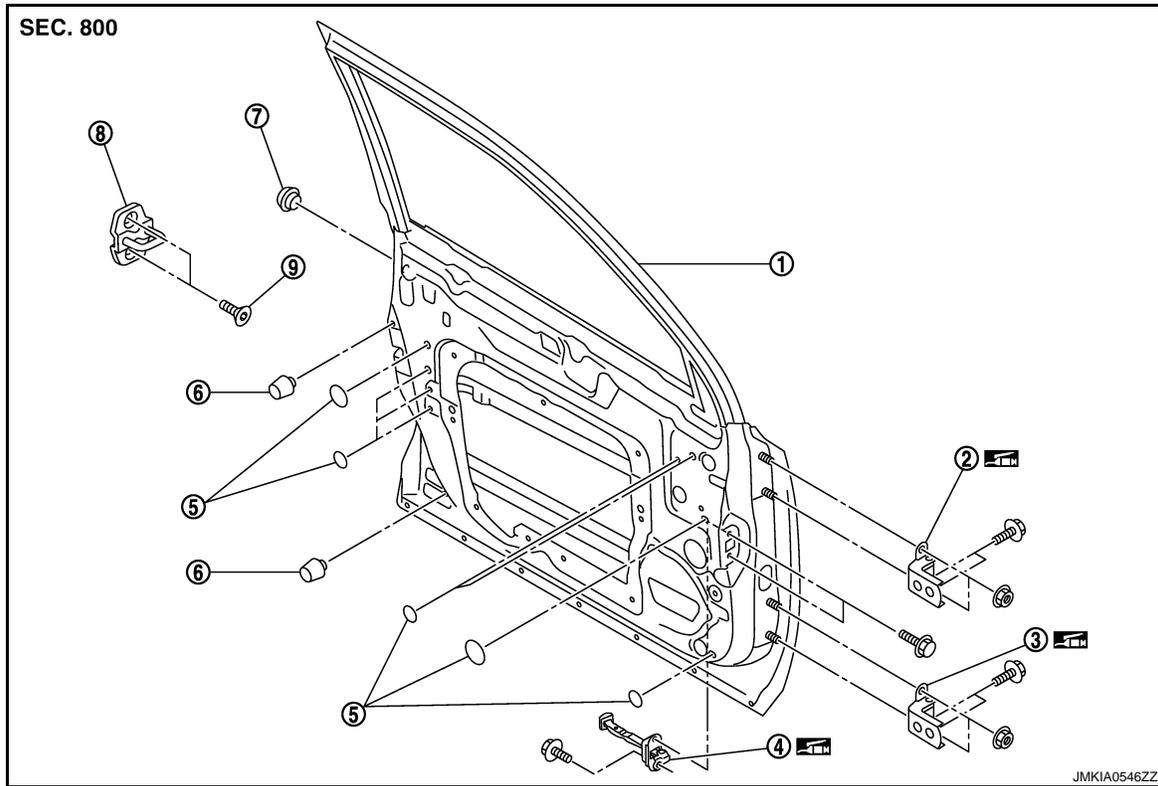
[WITH I-KEY & SUPER LOCK]

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001451720

REMOVAL



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

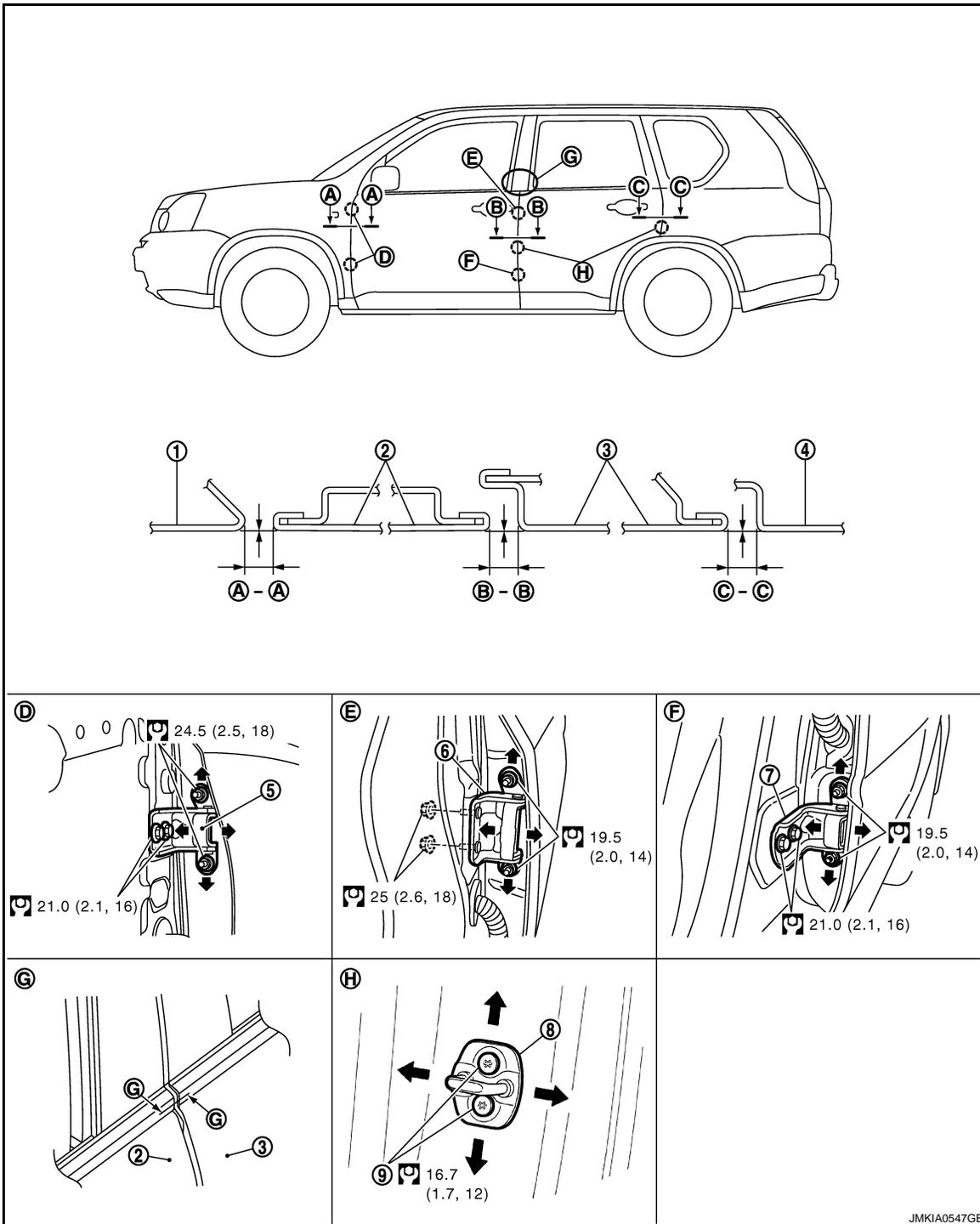
Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]



- | | | |
|----------------------------|---------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Front door hinge | 6. Rear door hinge (upper) |
| 7. Rear door hinge (lower) | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001451721

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.

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FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

REMOVAL

1. Remove the mounting bolts of the door check link on the vehicle.
2. Remove the front door harness grommet, and then pull out the harness from the vehicle.
3. Disconnect the front door harness connector.
4. Remove the door hinge mounting nuts (door side), and then remove the door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the front door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-891, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.

DOOR ASSEMBLY : Adjustment

INFOID:000000001451722

CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

mm(in)

Portion		Clearance	Surface height
Front fender – Front door	A – A	3.4 – 5.4 (0.134 – 0.213)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	B – B	3.5 – 5.5 (0.138 – 0.217)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	G – G	3.0 – 6.0 (0.118 – 0.236)	- 1.0 – 1.0 (- 0.039 – 0.039)

1. Check the clearance and surface height and surface mismatch between the front door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the front fender. Refer to refer to [DLK-888, "Removal and Installation"](#).
4. Loosen the door hinge mounting nuts on door side.
5. Adjust the surface height and surface mismatch of the front door according to the fitting standard dimension.
6. Temporarily tighten the hinge mounting nuts on door side.
7. Loosen the door hinge mounting bolts on body side.
8. Raise the front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
9. After adjustment tighten bolts and nuts to the specified torque.
10. Install the front fender. Refer to refer to [DLK-888, "Removal and Installation"](#).

CAUTION:

After installation, check the front fender adjustment. Refer to [DLK-891, "DOOR ASSEMBLY : Adjustment"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.

DOOR STRIKER

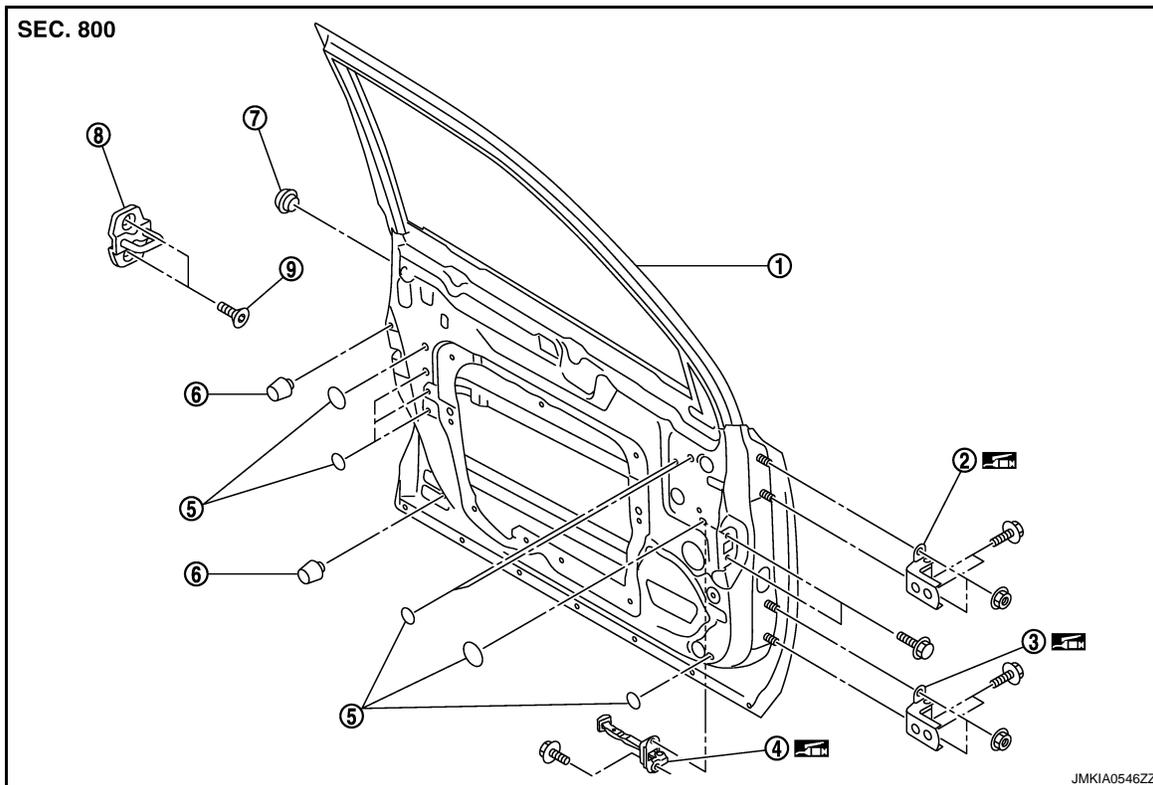
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001451723



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001451724

REMOVAL

Remove the TORX bolts, and then remove the door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the front door open/close operation after installation.
- When removing and installing the door striker, be sure to perform the fitting adjustment. Refer to [DLK-891, "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

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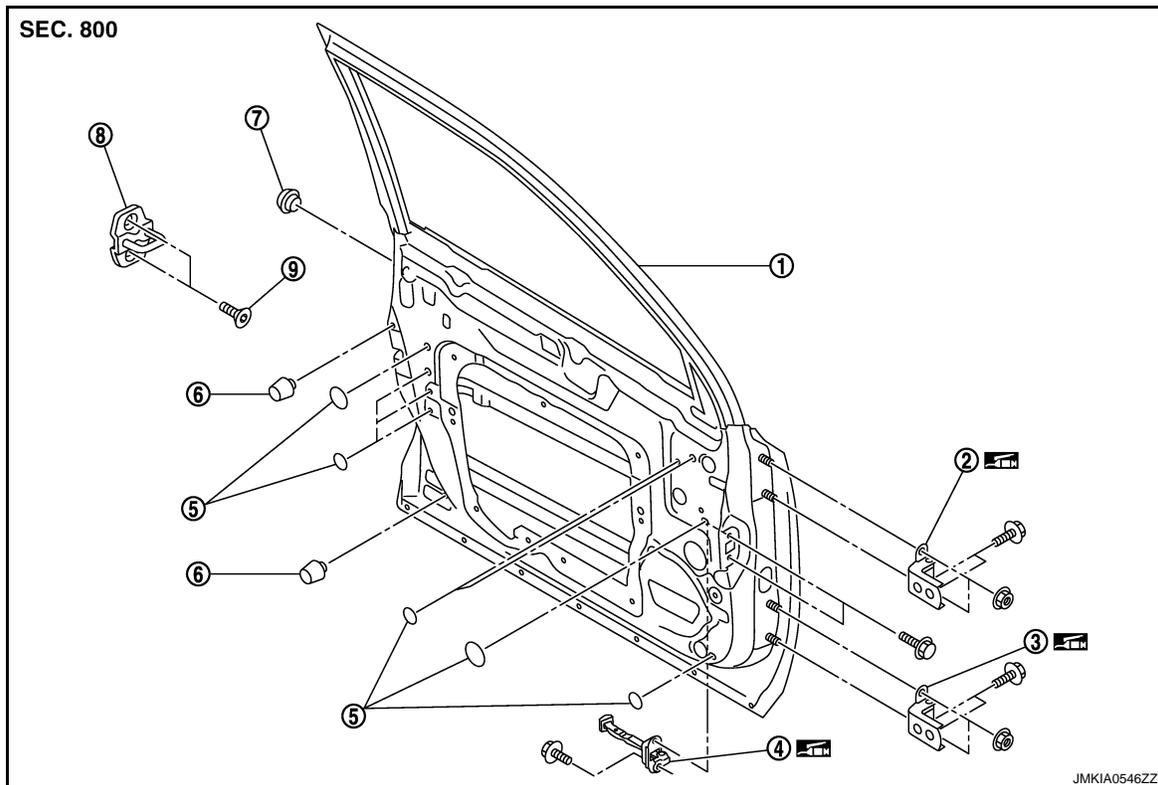
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001451726



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001451727

REMOVAL

1. Remove the front door assembly. Refer to [DLK-890. "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove the door hinge mounting bolts, and then remove the front door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the front door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-891. "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.

DOOR CHECK LINK

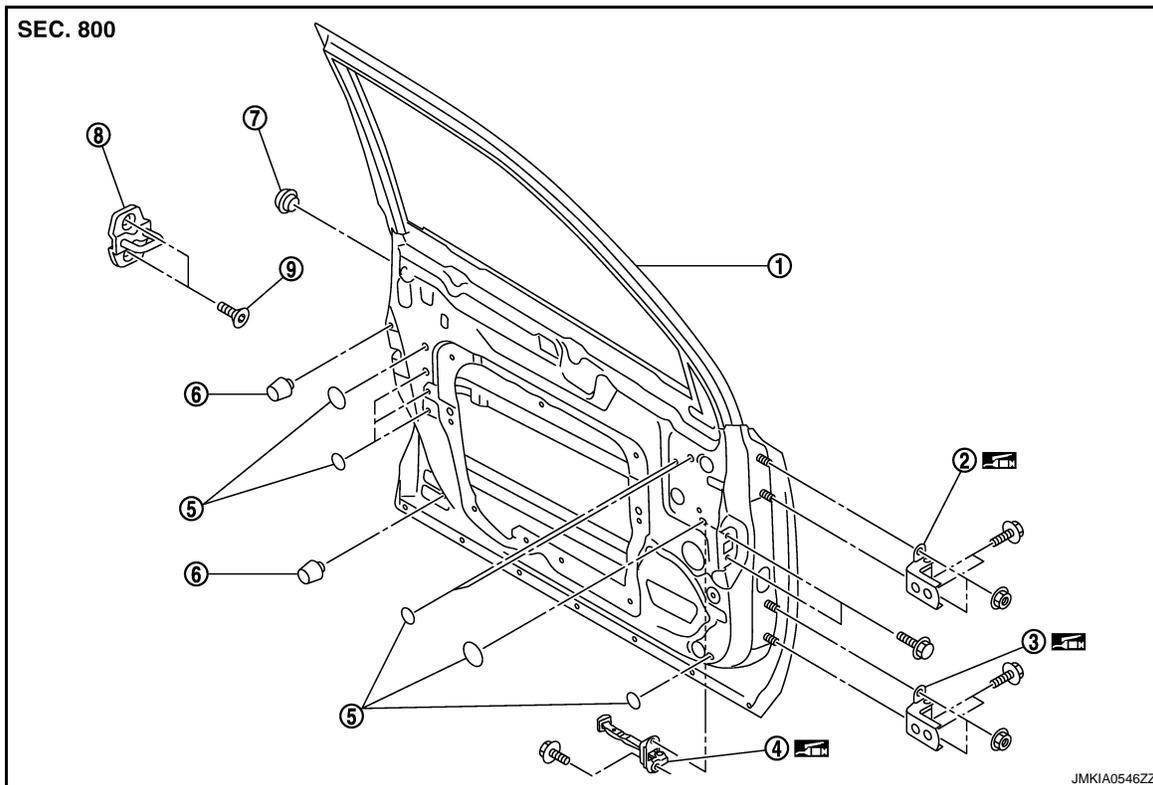
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001451729



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001451730

DLK

REMOVAL

1. Fully close the front door window.
2. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
3. Remove the front door speaker. Refer to [AV-38, "Removal and Installation"](#).
4. Remove the mounting bolts of the door check link on the vehicle.
5. Remove the mounting bolts of the door check link on the door panel.
6. Take the door check link out from the hole of the door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the front door open/close operation after installation.

REAR DOOR

[WITH I-KEY & SUPER LOCK]

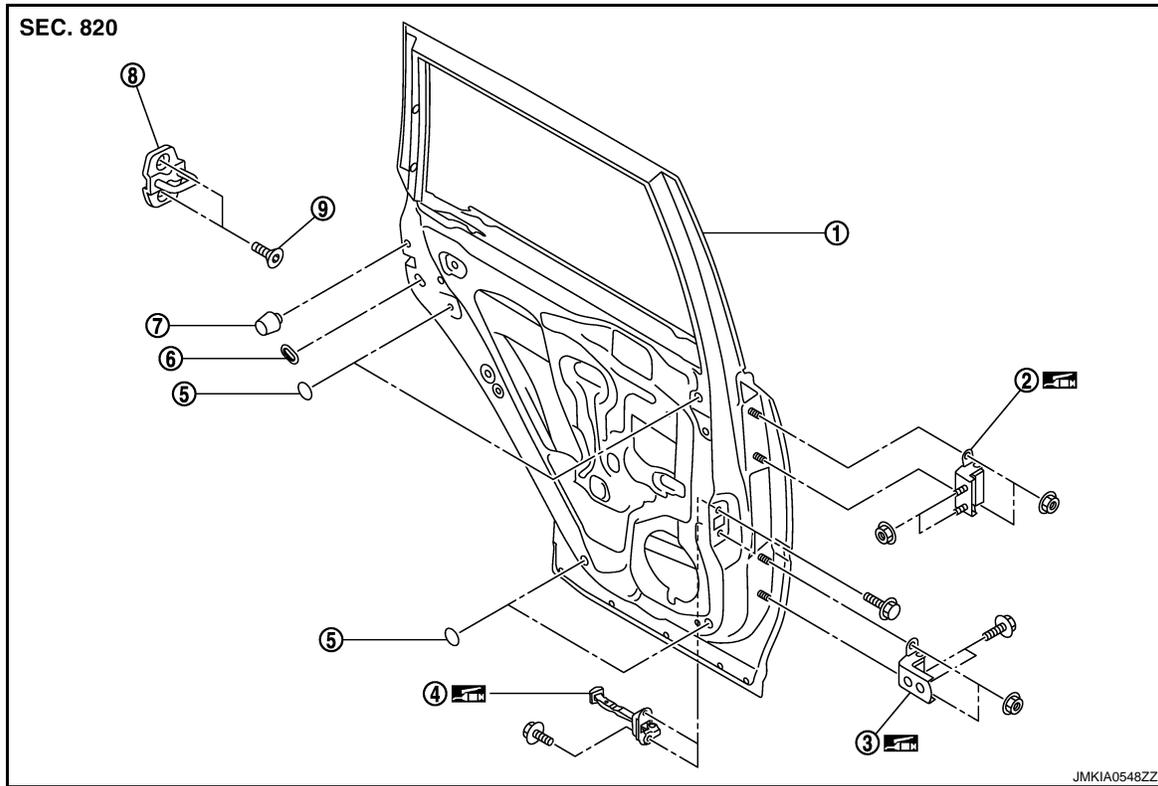
< ON-VEHICLE REPAIR >

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001451731

REMOVAL



- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

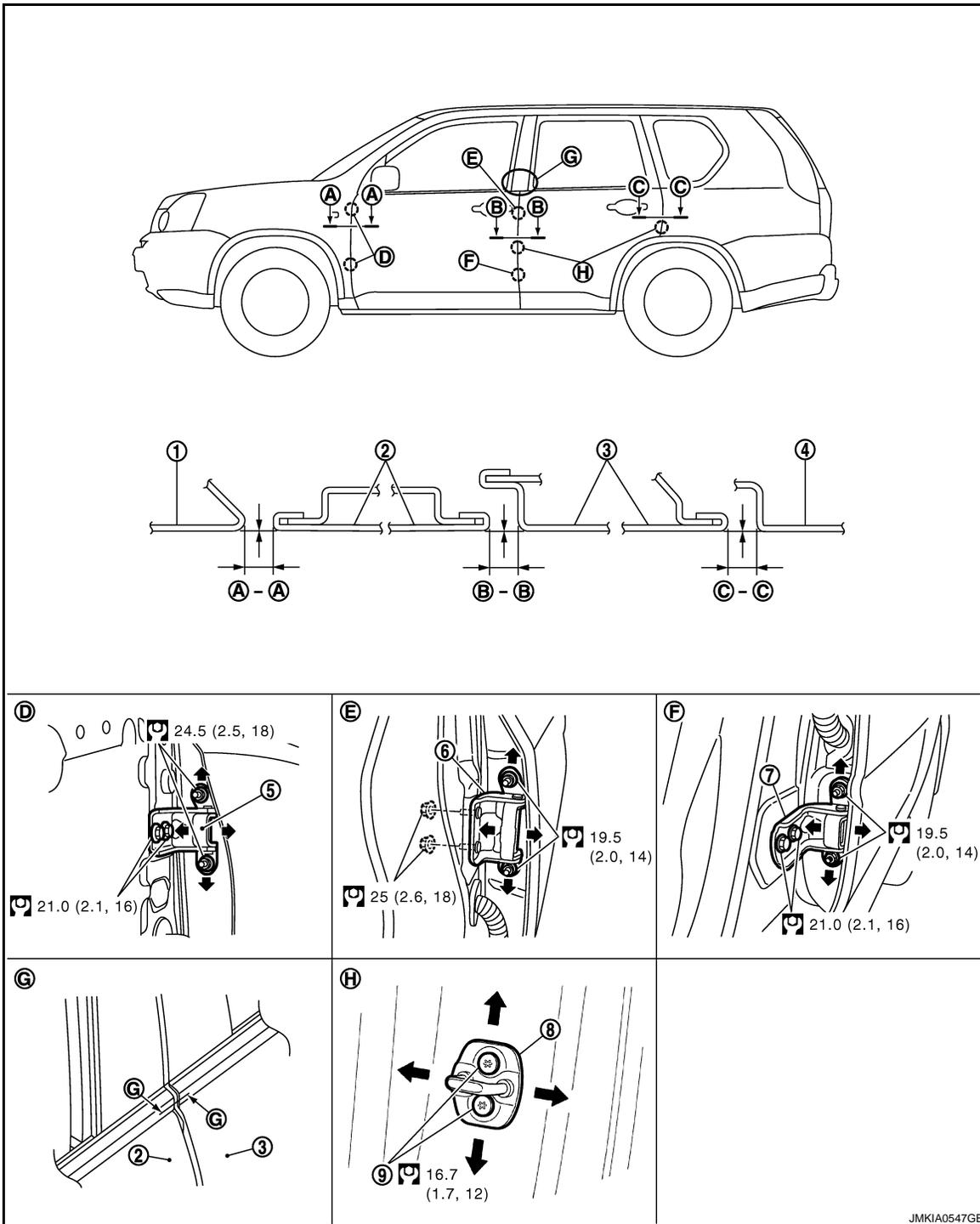
Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]



- | | | |
|----------------------------|---------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Front door hinge | 6. Rear door hinge (upper) |
| 7. Rear door hinge (lower) | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001451732

CAUTION:

- Perform work with 2 workers, because of it's heavy weight.
- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.

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REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

REMOVAL

1. Remove the mounting bolts of the door check link on the vehicle.
2. Remove the rear door harness grommet, and then pull out the door harness from the vehicle.
3. Disconnect the rear door harness connector.
4. Remove the door hinge mounting nuts (door side), and then remove the rear door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the rear door lock/unlock operation after installation.
- Check the rear door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to [DLK-897, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.

DOOR ASSEMBLY : Adjustment

INFOID:000000001451733

CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

mm(in)

Portion		Clearance	Surface height
Front door – Rear door	B – B	3.5 – 5.5 (0.138 – 0.217)	-1.0 – 1.0 (-0.039 – 0.039)
Rear door – Body side outer	C – C	3.5 – 5.5 (0.138 – 0.217)	-1.0 – 1.0 (-0.039 – 0.039)
Front door – Rear door	G – G	3.0 – 6.0 (0.118 – 0.236)	-1.5 – 1.5 (-0.059 – 0.059)

1. Check the clearance and surface height and surface mismatch between the rear door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the center pillar lower garnish. Refer to [INT-16, "Removal and Installation"](#).
4. Loosen the door hinge mounting nuts on door side.
5. Adjust the surface height and surface mismatch of the rear door according to the fitting standard dimension.
6. Temporarily tighten the hinge mounting nuts on door side.
7. Loosen the door hinge mounting nuts and bolts on body side.
8. Raise the rear door at rear end to adjust clearance of the rear door according to the fitting standard dimension.
9. After adjustment tighten bolts and nuts to the specified torque.
10. Install the center pillar lower garnish. Refer to [INT-16, "Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.

DOOR STRIKER

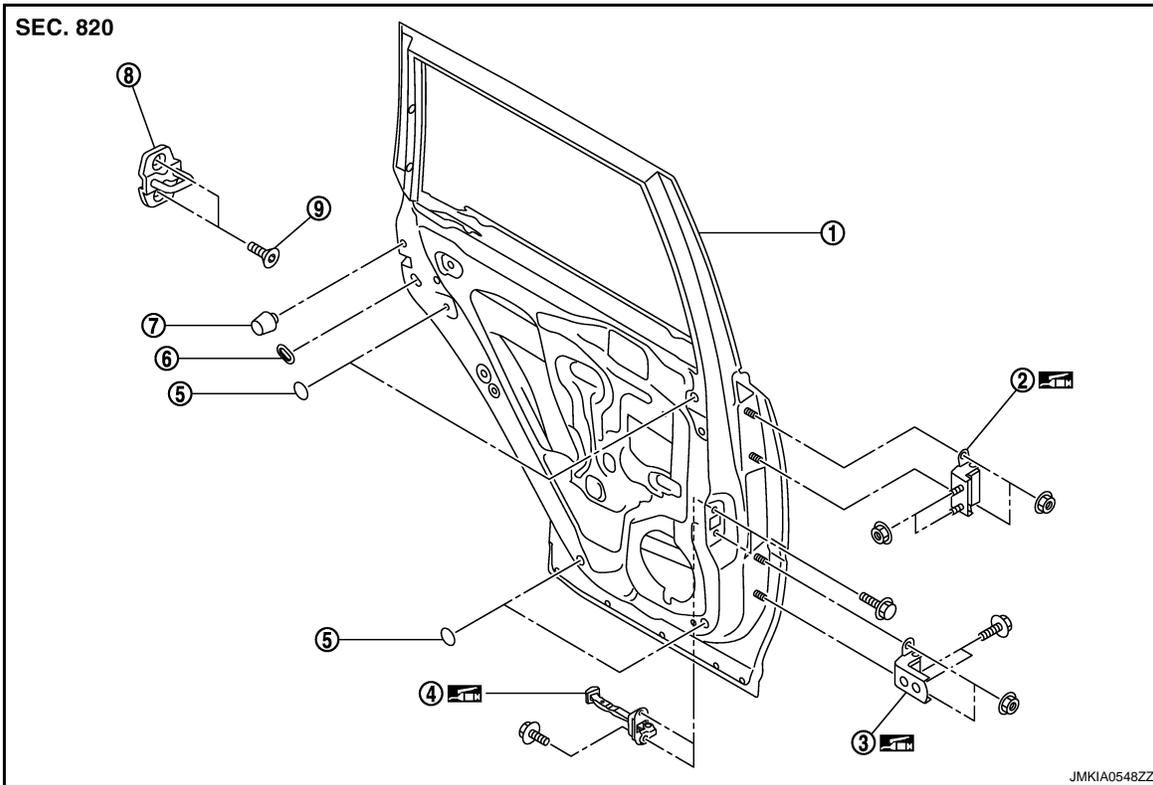
REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001451734



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|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001451735

REMOVAL

Remove the TORX bolts, and then remove the door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the rear door open/close operation after installation.
- When removing and installing the door striker, be sure to perform the fitting adjustment. Refer to [DLK-897. "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

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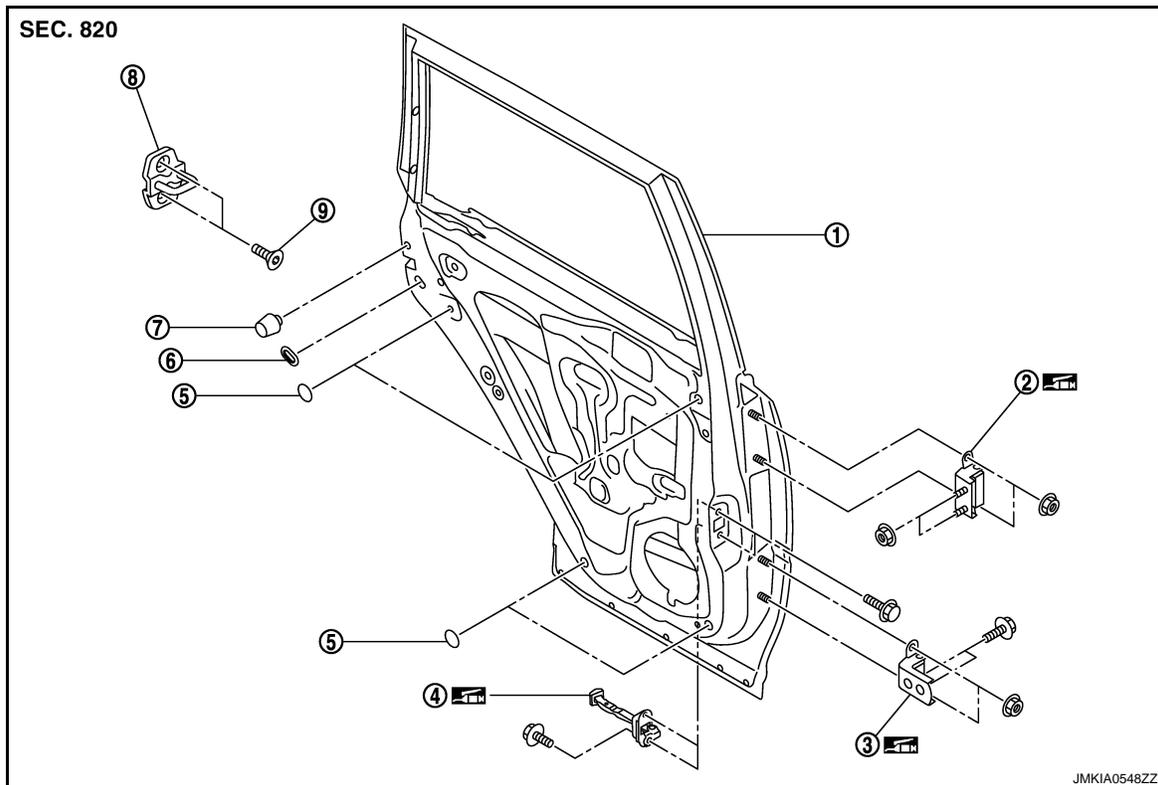
REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001451737



- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001451738

REMOVAL

1. Remove the center pillar lower garnish. Refer to [INT-16. "Removal and Installation"](#).
2. Remove the rear door assembly. Refer to [DLK-896. "DOOR ASSEMBLY : Removal and Installation"](#).
3. Remove the rear door hinge mounting bolts and nuts (body side), and then remove the door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the rear door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the rear door assembly, perform the fitting adjustment. Refer to [DLK-897. "DOOR ASSEMBLY : Adjustment"](#).
- After installing, apply the touch-up paint (the body color) onto the head of the hinge mounting nuts.

DOOR CHECK LINK

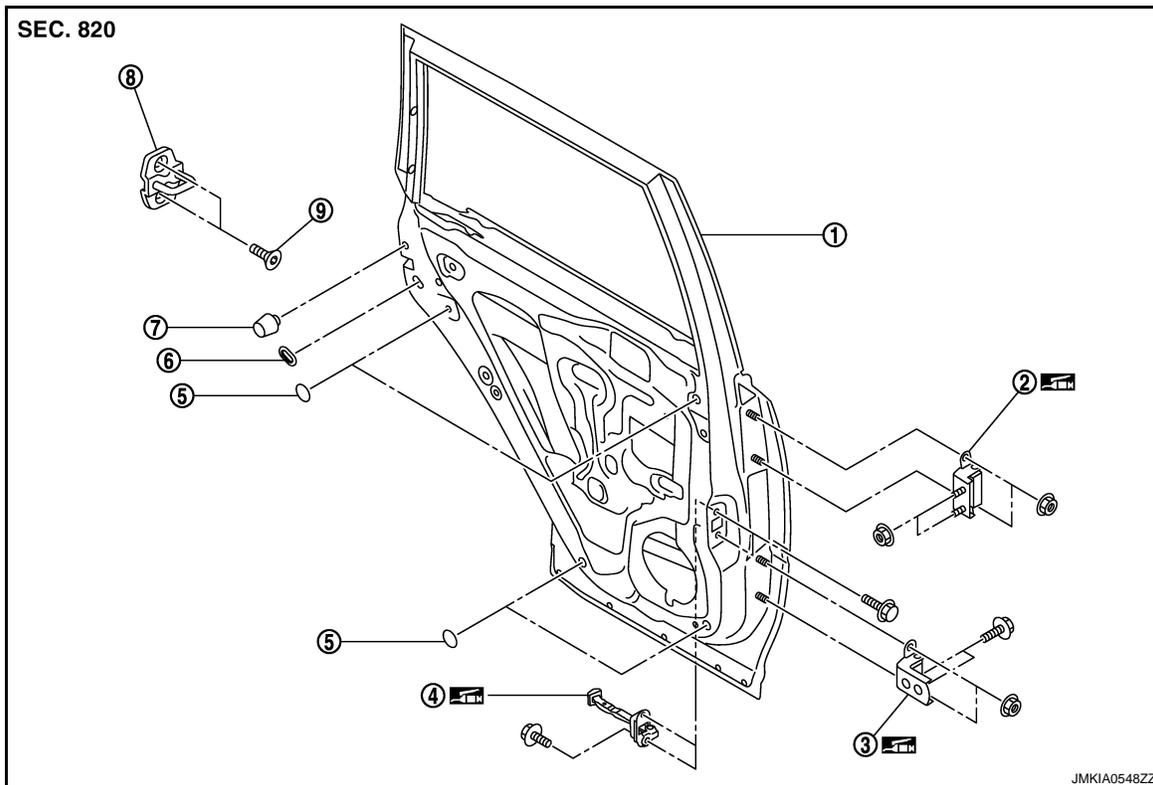
REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001451740



- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001451741

DLK

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove the rear door speaker.
3. Remove the mounting bolts of the check link on the vehicle.
4. Remove the door check link mounting bolts on the door panel.
5. Remove the door check link.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check front door open/close operation after installation.

BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

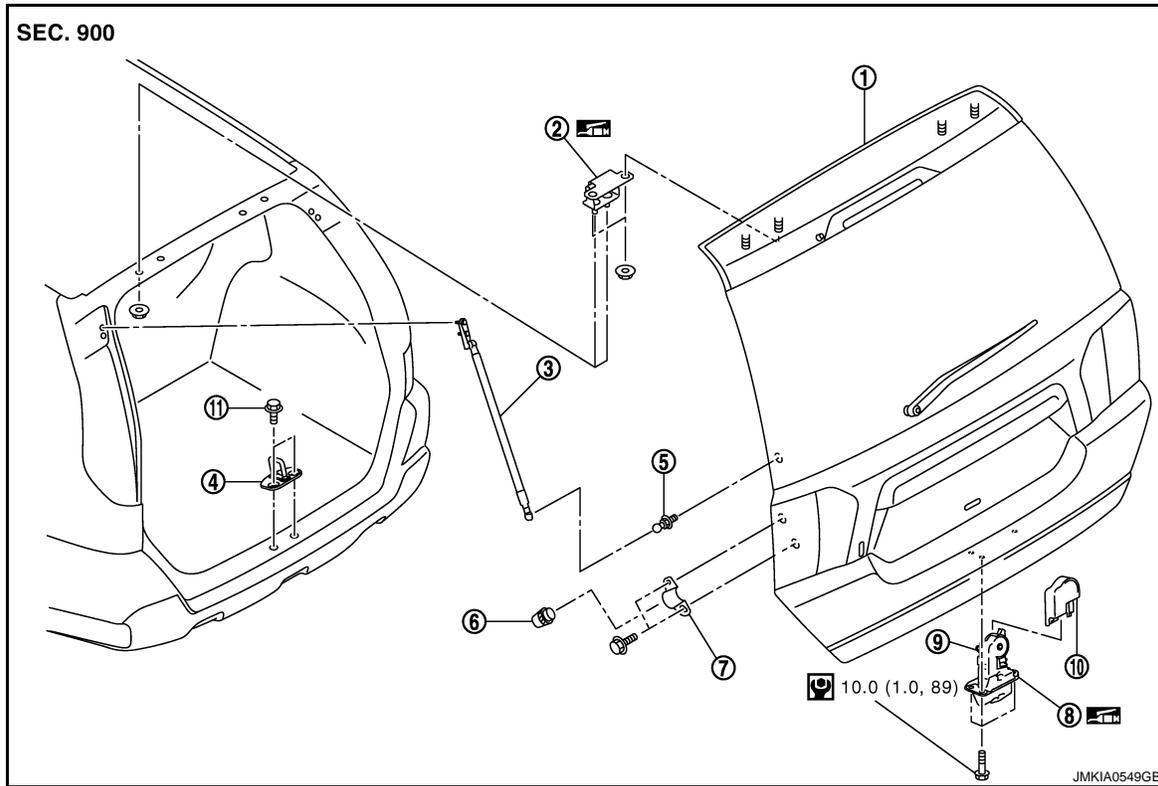
BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:000000001451742

REMOVAL



- | | | |
|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

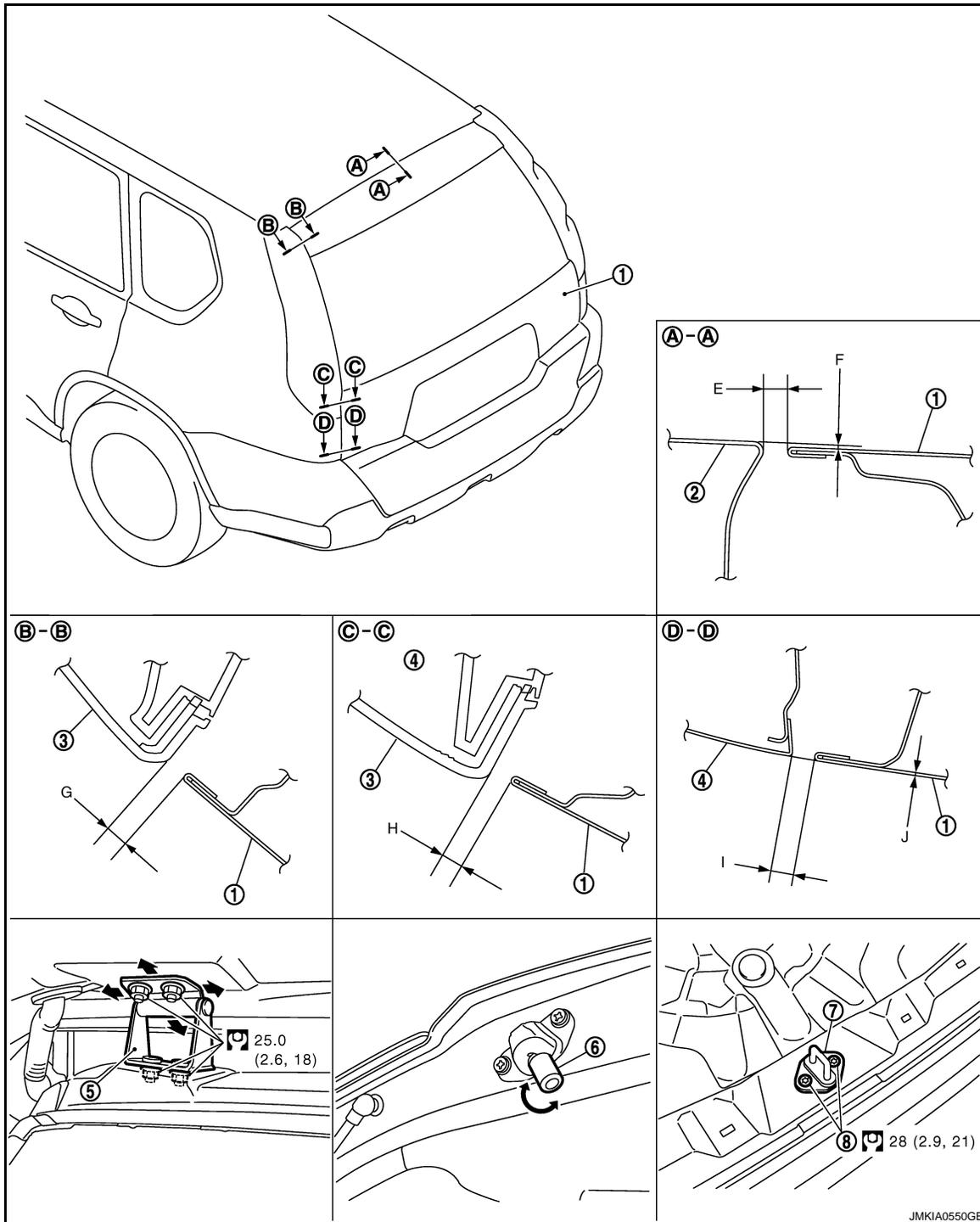
Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]



- | | | |
|----------------------|--------------------|--------------------------|
| 1. Back door | 2. Roof | 3. Rear combination lamp |
| 4. Body side outer | 5. Back door hinge | 6. Bumper rubber |
| 7. Back door striker | 8. TORX bolt | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000001451743

REMOVAL

1. Remove the back door finisher inner (upper, lower, side LH). Refer to [INT-31, "Removal and Installation"](#).
2. Disconnect the connectors in the back door, and then remove the grommet, and pull out the harness.

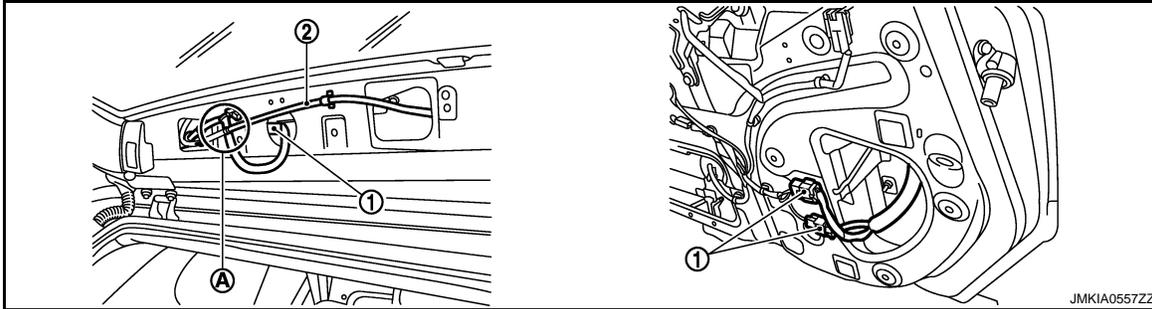
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BACK DOOR

< ON-VEHICLE REPAIR >

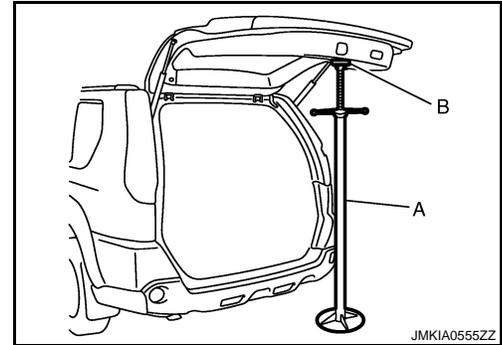
[WITH I-KEY & SUPER LOCK]

- Remove the grommet, and then disconnect the connectors (1), and pull out the washer tube (2) at (A).



- Pull the harness out of the back door.
- Support the back door lock with the proper material to prevent it from falling.

- A : Jack
- B : Shop cloth



- Remove the back door stay bracket mounting bolts on the back door.
- Remove the back door hinge mounting nuts on the back door and remove the back door assembly.

CAUTION:

Perform work with 2 workers, because of its heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the back door open/close operation after installation.
- Check the back door lock/unlock operation after installation.
- After installation, perform fitting adjustment. Refer to [DLK-903, "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR ASSEMBLY : Adjustment

INFOID:000000001451744

mm(in)

Portion		Standard	
Back door panel – Roof panel	A – A	E	Clearance 5.0 – 7.0 (0.197 – 0.276)
		F	Surface height -0.3 – 1.7 (-0.012 – 0.067)
Back door panel – Rear combination lamp	B – B	G	Clearance 4.0 – 8.0 (0.157 – 0.315)
Back door panel – Rear combination lamp	C – C	H	Clearance 4.0 – 8.0 (0.157 – 0.315)
Back door panel – Body side outer	D – D	I	Clearance 5.0 – 7.0 (0.197 – 0.276)
		J	Surface height -1.0 – 1.1 (0.039 – 0.043)

FITTING ADJUSTMENT

- Check the clearance and the evenness between the back door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
- In case any parts are out of specification, adjust them according to the procedures shown below.
- Loosen the bumper rubber.
- Loosen the back door striker mounting bolts.

BACK DOOR

< ON-VEHICLE REPAIR >

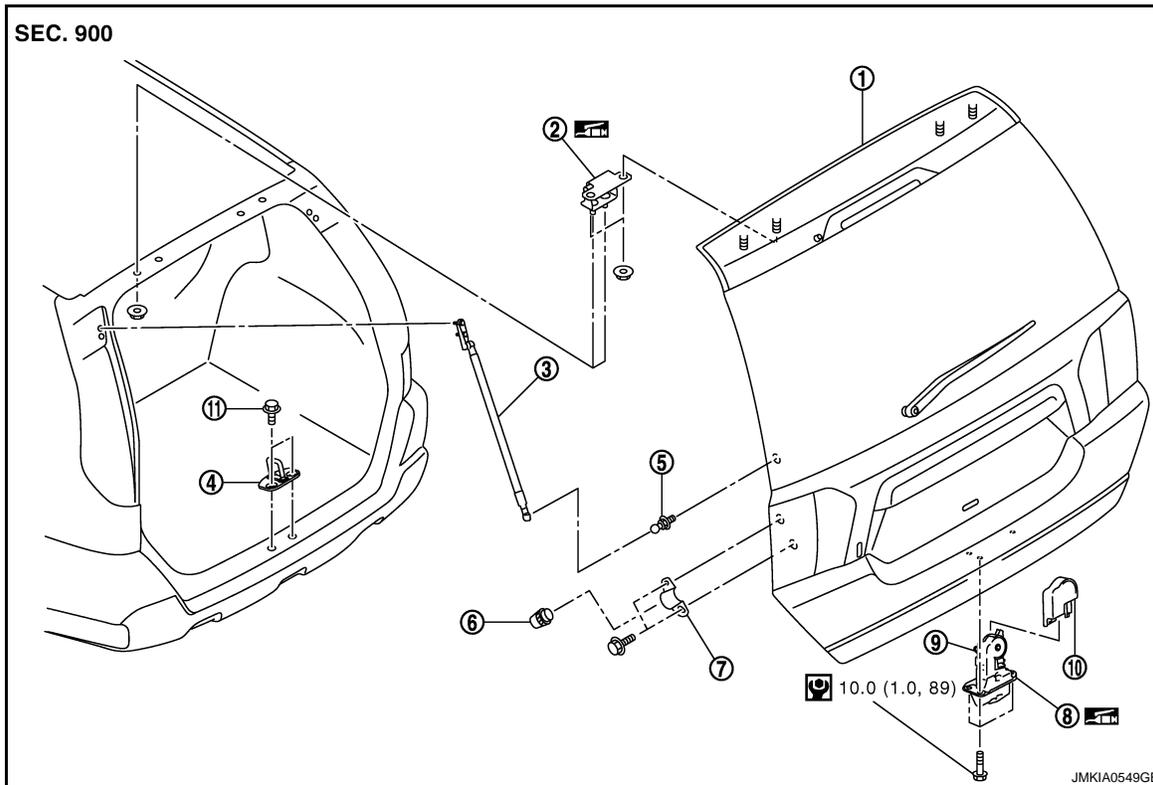
[WITH I-KEY & SUPER LOCK]

5. Lift up the back door approximately 100 – 150 mm (3.937 – 5.906 in) height then close it lightly and check that it is engaged firmly with the back door closed.
6. Check the clearance and evenness.
7. Finally tighten the back door striker.

BACK DOOR STRIKER

BACK DOOR STRIKER : Exploded View

INFOID:000000001451745



- | | | |
|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STRIKER : Removal and Installation

INFOID:000000001451746

REMOVAL

Remove the TORX bolts, and then remove the back door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the back door open/close operation after installation.
- When removing and installing the back door striker, be sure to perform the fitting adjustment. Refer to [DLK-903. "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR HINGE

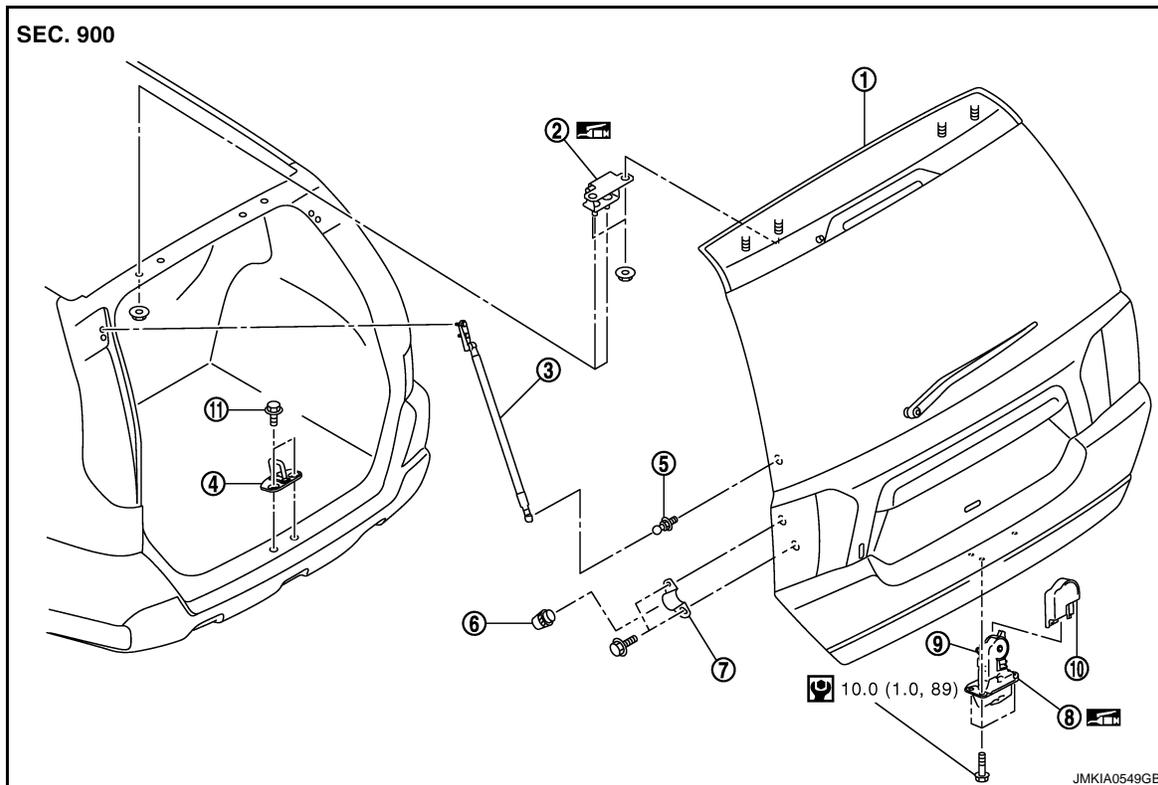
BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

BACK DOOR HINGE : Exploded View

INFOID:000000001451748



- | | | |
|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR HINGE : Removal and Installation

INFOID:000000001451749

REMOVAL

1. Remove the back door assembly. Refer to [DLK-902, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove the back door weather-strip. Refer to [DLK-907, "BACK DOOR WEATHER-STRIP : Removal and Installation"](#).
3. Remove the luggage side lower finisher. Refer to [INT-28, "Removal and Installation"](#).
4. Remove the luggage side upper finisher. Refer to [INT-28, "Removal and Installation"](#).
5. Using remover tool, remove the headlining clip at the rear side of the headlining. Refer to [INT-22, "NORMAL ROOF : Exploded View"](#) (NORMAL ROOF), [INT-25, "SUNROOF : Exploded View"](#) (SUNROOF).
6. Remove the rear side of the headlining.
7. Remove the back door hinge mounting nuts (body side), and then remove the back door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the back door open/close operation after installation.
- Check the hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the back door assembly, perform the fitting adjustment. Refer to [DLK-903, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting nuts.

BACK DOOR

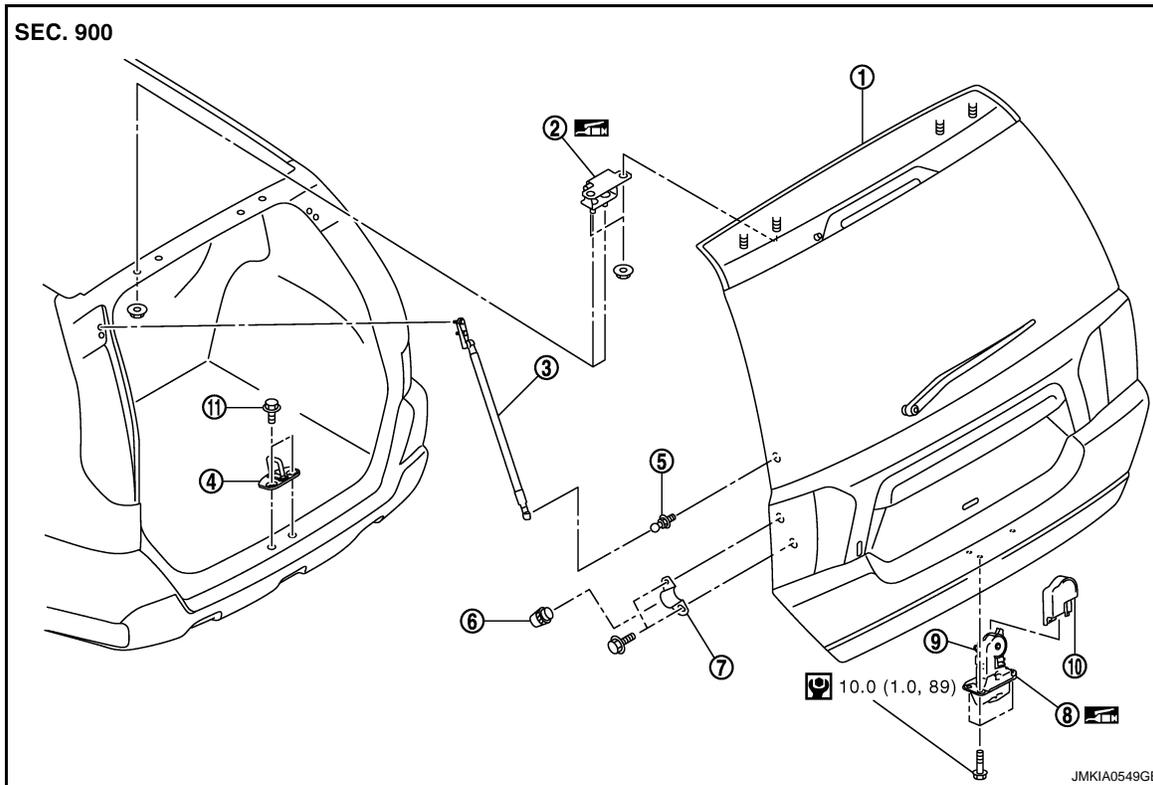
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:000000001451751



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|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STAY : Removal and Installation

INFOID:000000001451752

REMOVAL

1. Remove the mounting bolts (body side), and then remove the back door stay bracket.
2. Remove the stud ball (back door side), and then remove the back door stay.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the back door open/close operation after installation.

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Exploded View

INFOID:000000001451753

REMOVAL

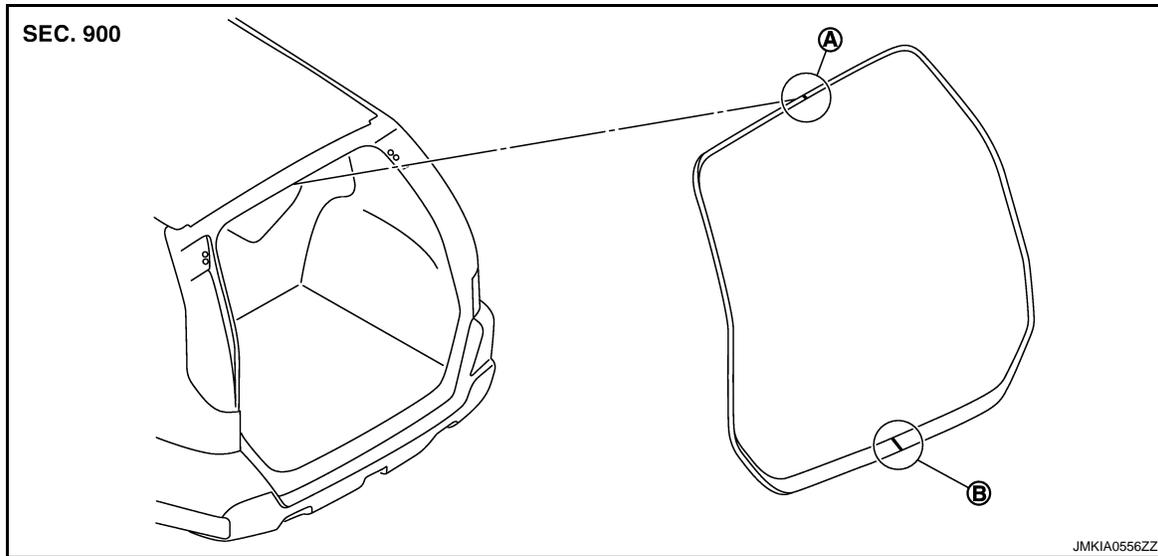
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BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]



1. Back door weather-strip
- A. Mark (upper)
- B. Mark (lower)

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000001451754

REMOVAL

Pull up and remove engagement with body from the weather-strip joint.

CAUTION:

After removal, do not pull strongly on the weather-strip.

INSTALLATION

1. Working from the upper section, align the weather-strip mark with vehicle center position mark and install the weather-strip onto the vehicle.
2. For the lower section, align the weather-strip seam with center of the back door striker.
3. After installation, pull the weather-strip gently to ensure that there is no loose section.

NOTE:

Make sure that the weather-strip is fit tightly at each corner and the luggage rear plate.

FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

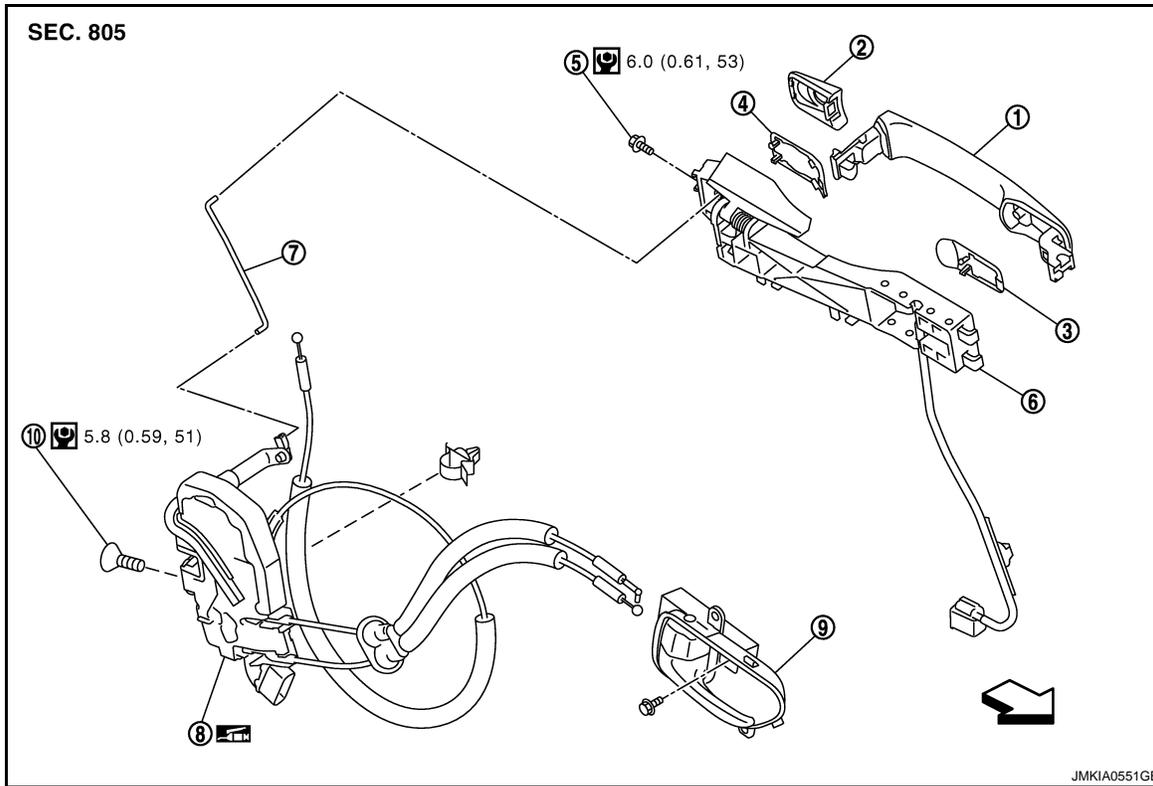
[WITH I-KEY & SUPER LOCK]

FRONT DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001451755



- | | | |
|----------------------------|---|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder assembly (driver side)
Outside handle escutcheon (passenger side) | 3. Front gasket |
| 4. Rear gasket | 5. TORX bolt | 6. Outside handle bracket |
| 7. Key rod | 8. Door lock assembly | 9. Inside handle |
| 10. TORX bolt | | |

← :Vehicle front

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001451756

REMOVAL

1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable and the lock knob cable.
3. Remove the front door glass. Refer to [GW-17. "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-17. "Exploded View"](#).
5. Disconnect the door antenna and the door request switch connector and remove the harness clamp (models with Intelligent Key system).

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FRONT DOOR LOCK

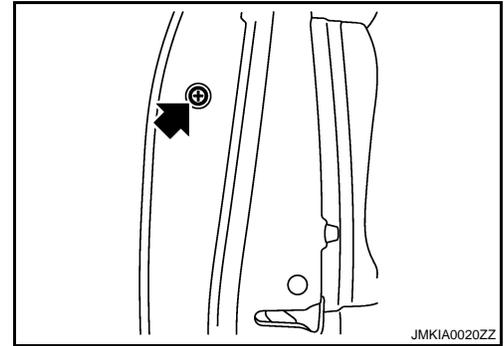
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

6. Remove the door side grommet, and loosen the TORX bolt.

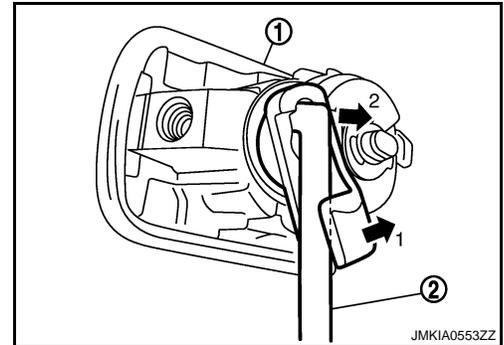
CAUTION:

Do not forcibly remove the TORX bolt.

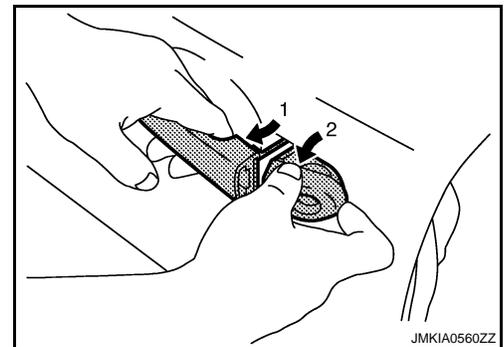


7. Reach in to separate the door key cylinder rod connection (on the handle) (driver side).

1. Door key cylinder assembly
2. Key rod

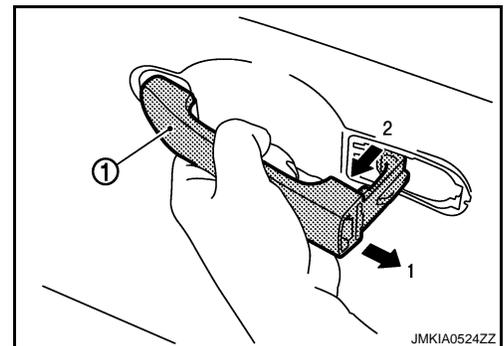


8. While pulling the outside handle, remove door key cylinder assembly.



9. Disconnect front door request switch harness connector (models with Intelligent Key system).

10. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.

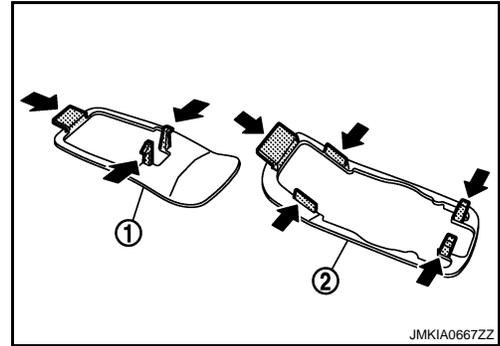


FRONT DOOR LOCK

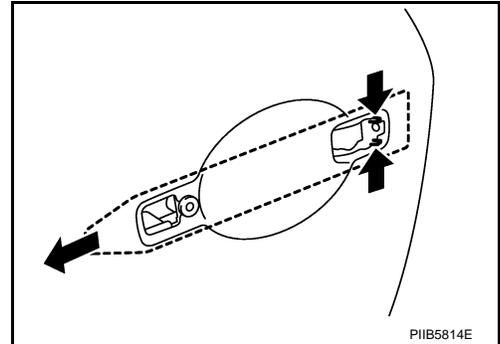
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

11. Remove the front gasket (1) and the rear gasket (2).



12. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



13. Reach in to separate the outside handle cable connection.

14. Remove the door lock assembly TORX bolts.

15. Disconnect the door lock actuator connector, and then remove the door lock assembly.

16. Remove the key rod from door lock assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

INSIDE HANDLE

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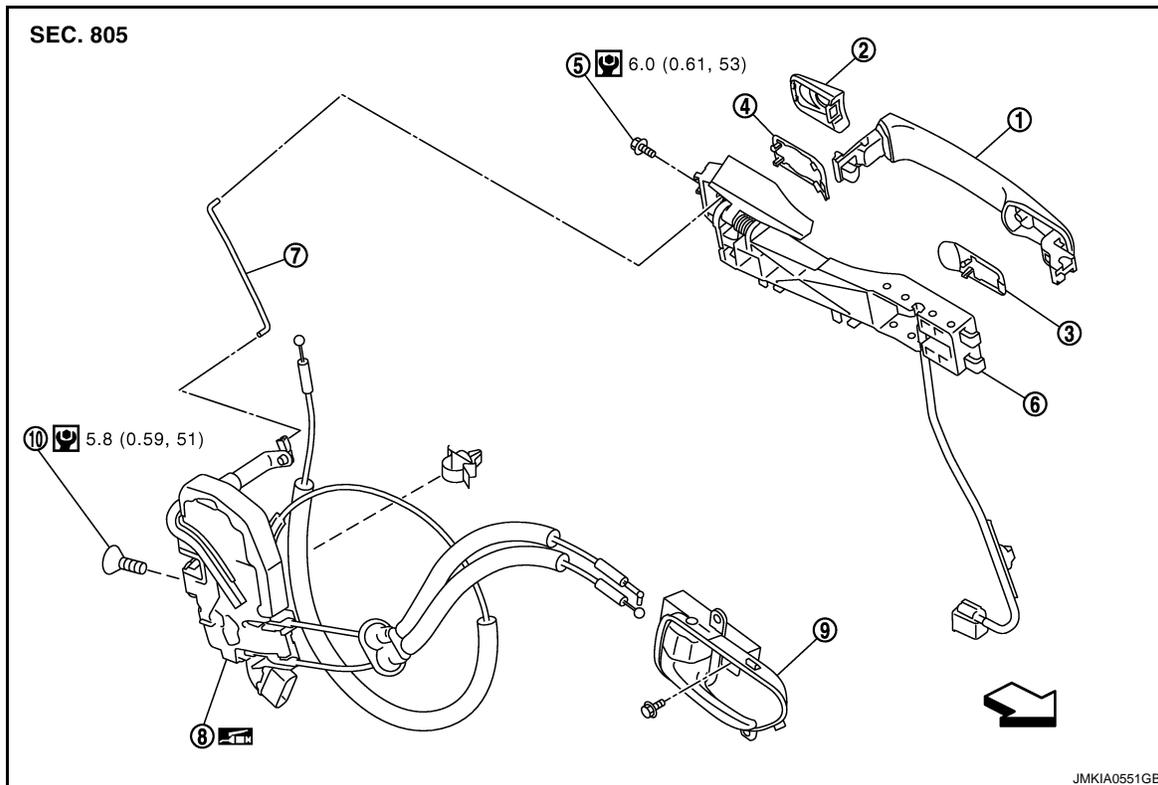
FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

INSIDE HANDLE : Exploded View

INFOID:000000001451758



- | | | |
|----------------------------|---|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder assembly (driver side)
Outside handle escutcheon (passenger side) | 3. Front gasket |
| 4. Rear gasket | 5. TORX bolt | 6. Outside handle bracket |
| 7. Key rod | 8. Door lock assembly | 9. Inside handle |
| 10. TORX bolt | | |

← :Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001451759

REMOVAL

1. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolts.
3. Disconnect the inside handle knob cable and the lock knob cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

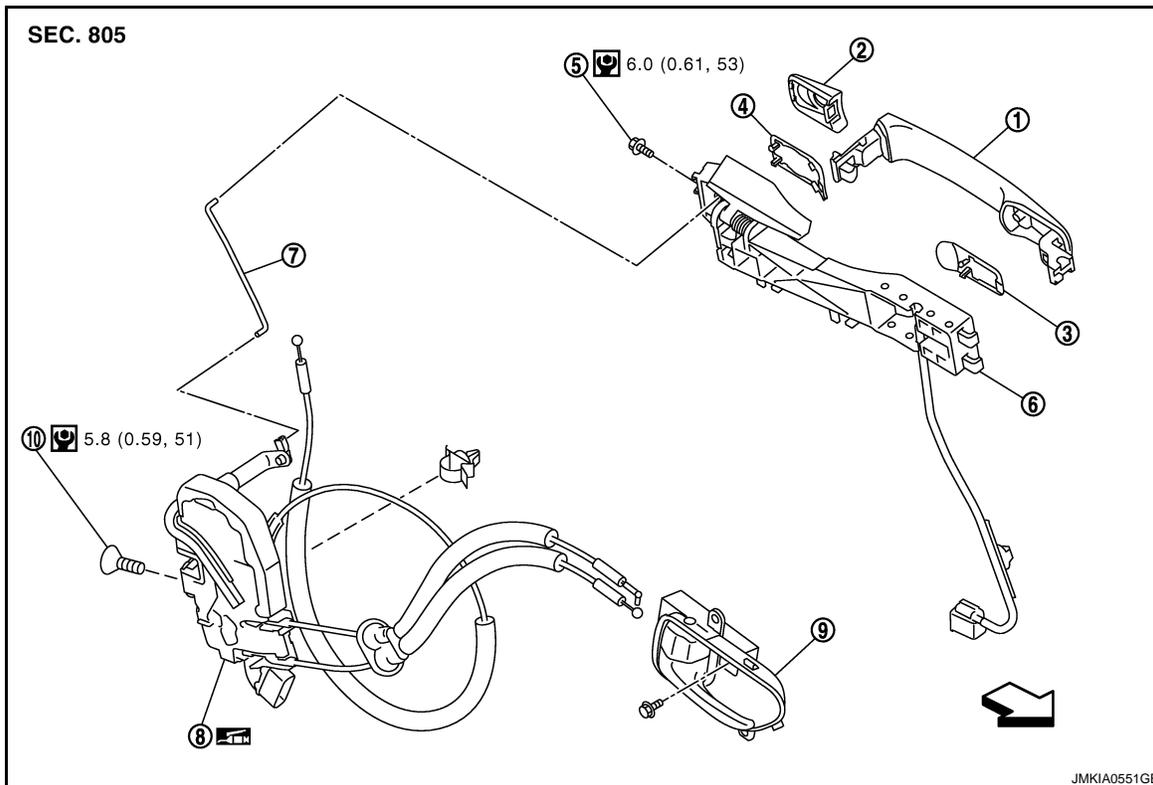
FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

OUTSIDE HANDLE : Exploded View

INFOID:000000001451761



- | | | |
|----------------------------|---|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder assembly (driver side)
Outside handle escutcheon (passenger side) | 3. Front gasket |
| 4. Rear gasket | 5. TORX bolt | 6. Outside handle bracket |
| 7. Key rod | 8. Door lock assembly | 9. Inside handle |
| 10. TORX bolt | | |

← :Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

INFOID:000000001451762

REMOVAL

1. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable and the lock knob cable.
3. Remove the front door glass. Refer to [GW-17, "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-17, "Exploded View"](#).
5. Disconnect the connector and remove the harness clamp (models with Intelligent Key system).

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FRONT DOOR LOCK

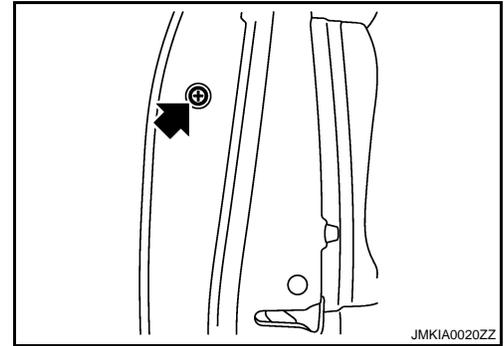
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

6. Remove the door side grommet, and loosen the TORX bolt.

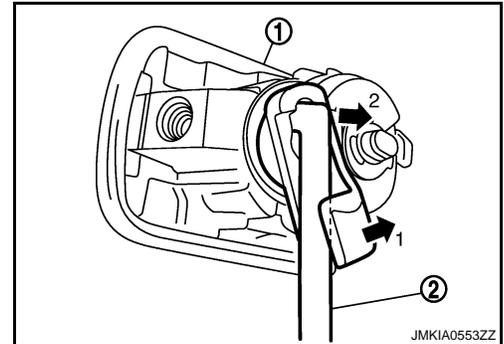
CAUTION:

Do not forcibly remove the TORX bolt.

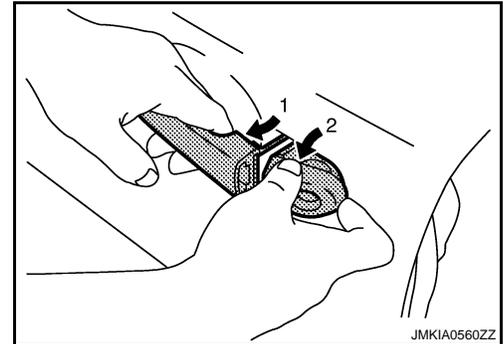


7. Reach in to separate the door key cylinder rod connection (on the handle) (driver side).

1. Door key cylinder assembly
2. Key rod

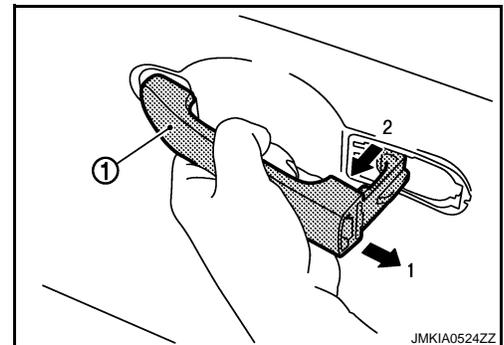


8. Disconnect the door key cylinder switch harness connector.
9. While pulling the outside handle, remove the door key cylinder assembly (driver side) or outside handle escutcheon (passenger side).



10. Disconnect the front door request switch harness connector (models with Intelligent Key system).

11. While pulling the outside handle, slide toward rear of vehicle to remove the outside handle (1).

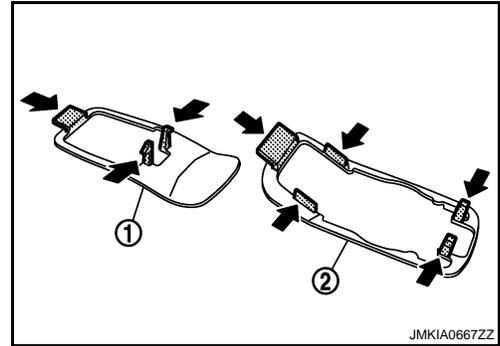


FRONT DOOR LOCK

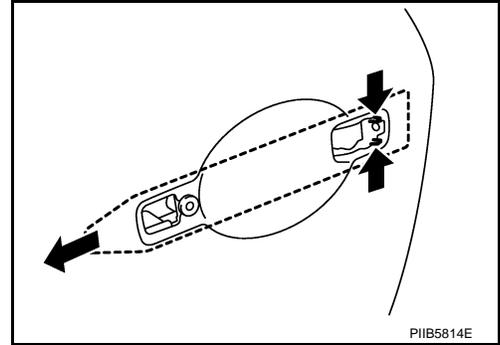
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

12. Remove the front gasket (1) and rear gasket (2).



13. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



14. Reach in to separate the outside handle cable connection.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

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REAR DOOR LOCK

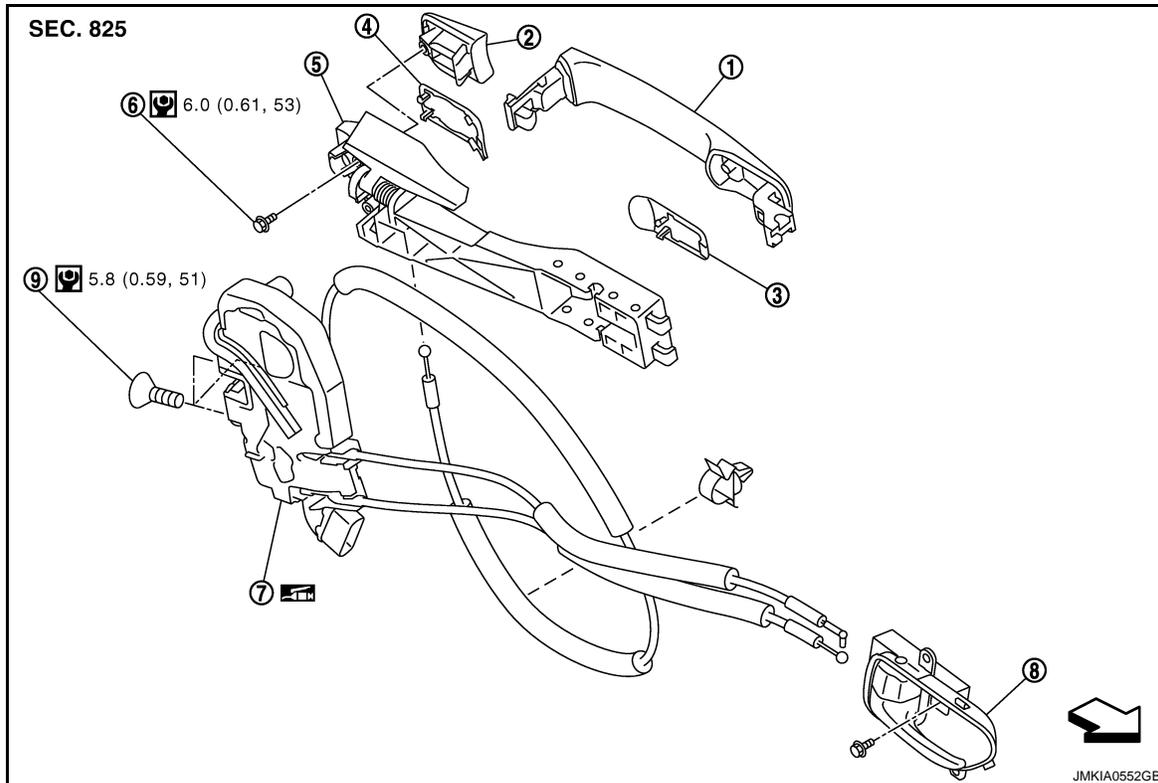
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

REAR DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001451763



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|----------------------------|------------------------------|-----------------|
| 1. Outside handle assembly | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. TORX bolt |
| 7. Door lock assembly | 8. Inside handle | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001451764

REMOVAL

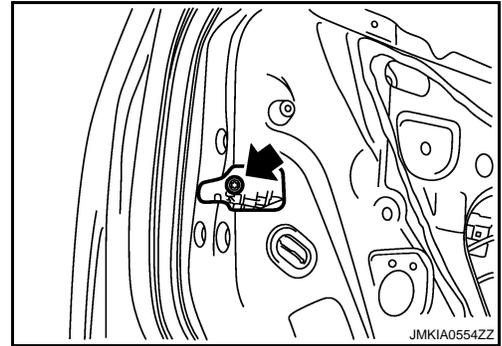
1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable.
3. Remove the door sealing screen. Refer to [GW-23, "Removal and Installation"](#).
4. Remove the lower partition sash. Refer to [GW-17, "Removal and Installation"](#).
5. Remove the corner piece assembly. Refer to [GW-17, "Removal and Installation"](#).
6. Remove the door lock assembly TORX bolts.
7. Disconnect the door lock actuator connector.

REAR DOOR LOCK

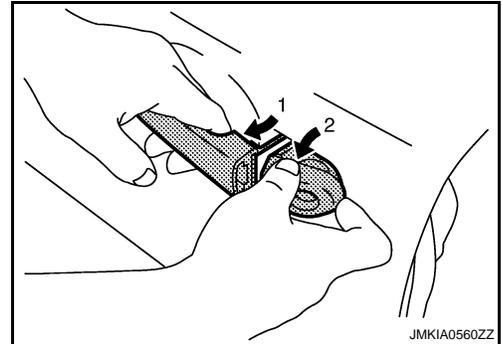
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

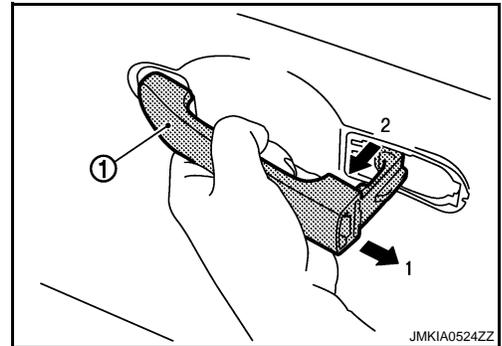
8. Slide the door lock assembly from the inside the door panel until the outside handle escutcheon TORX bolt can be seen.



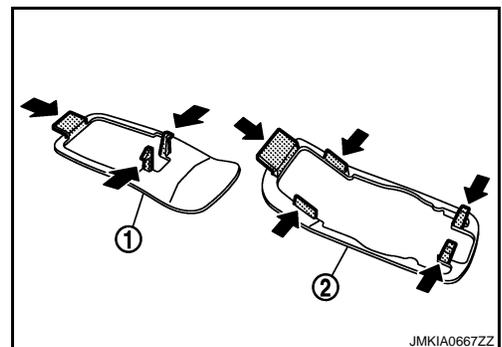
9. While pulling the outside handle, remove the outside handle escutcheon.



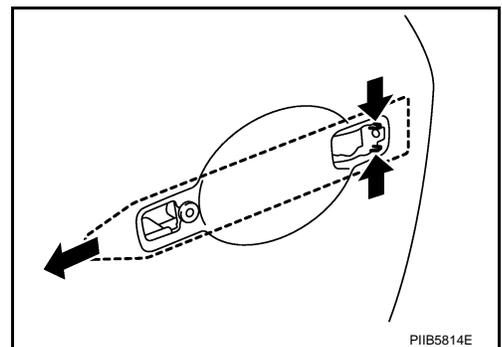
10. While pulling the outside handle(1), slide toward rear of vehicle to remove the outside handle.



11. Remove the front gasket (1) and the rear gasket (2).



12. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



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REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

13. Reach in to separate the outside handle cable connection.
14. Remove the door lock assembly.

INSTALLATION

Install in the reverse order of removal.

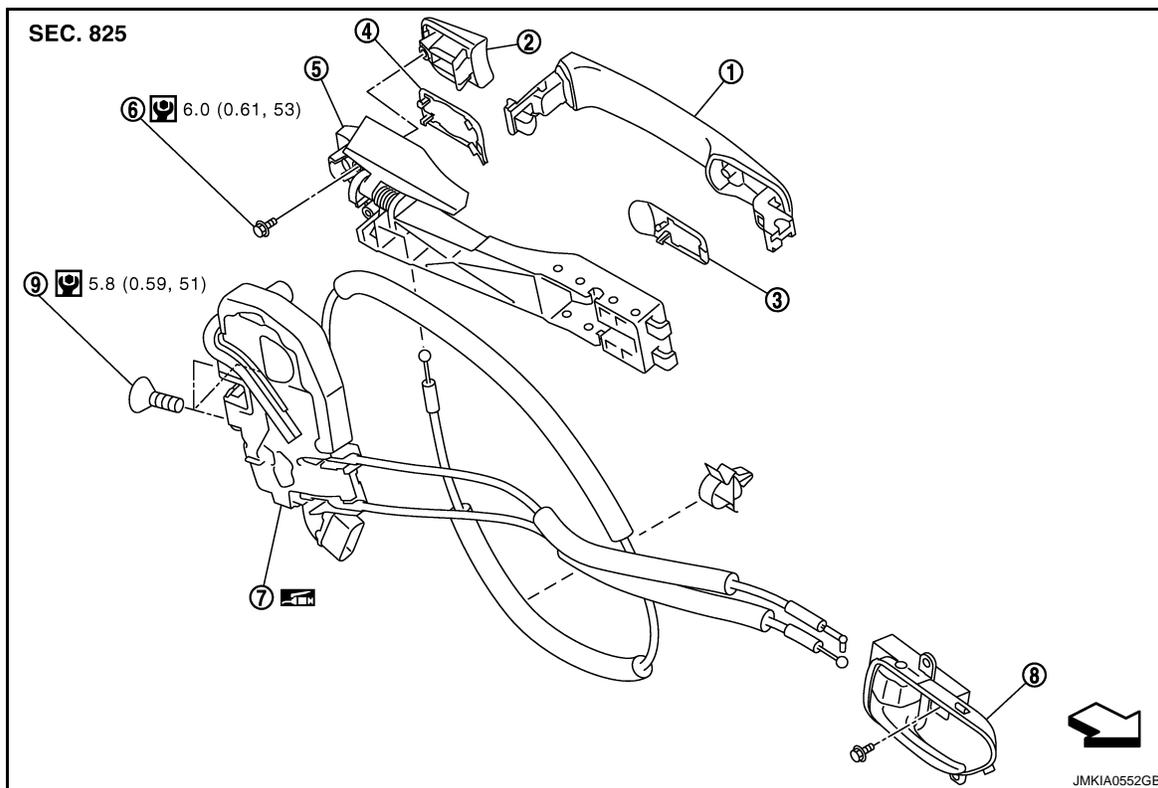
CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000001451766



- | | | |
|----------------------------|------------------------------|-----------------|
| 1. Outside handle assembly | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. TORX bolt |
| 7. Door lock assembly | 8. Inside handle | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001451767

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting screws.
3. Disconnect the inside handle knob cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

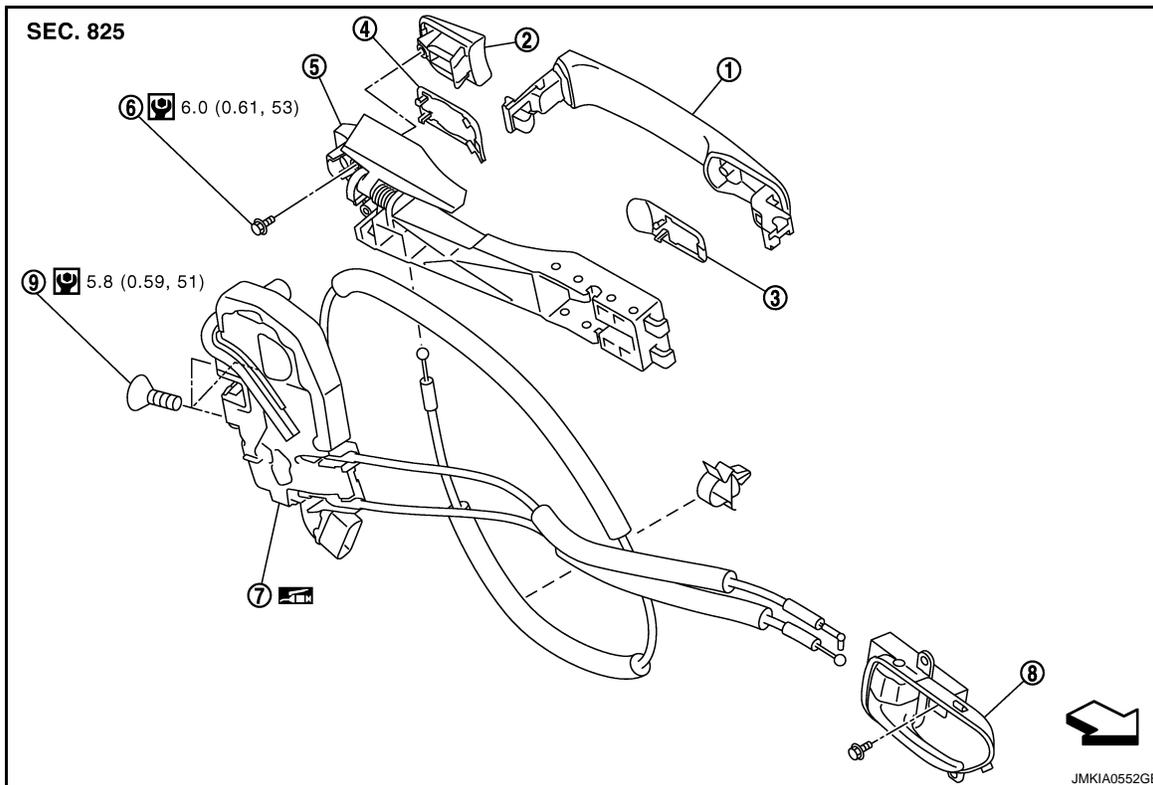
REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

OUTSIDE HANDLE : Exploded View

INFOID:000000001451769



- | | | |
|----------------------------|------------------------------|-----------------|
| 1. Outside handle assembly | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. TORX bolt |
| 7. Door lock assembly | 8. Inside handle | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

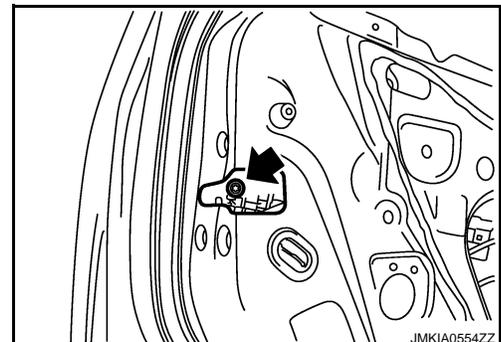
OUTSIDE HANDLE : Removal and Installation

INFOID:000000001451770

DLK

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable.
3. Remove the door sealing screen. Refer to [GW-23. "Removal and Installation"](#).
4. Remove the lower partition sash. Refer to [GW-17. "Removal and Installation"](#).
5. Remove the corner piece assembly. Refer to [GW-17. "Removal and Installation"](#).
6. Remove the door lock assembly TORX bolts.
7. Disconnect the door lock actuator connector.
8. Slide the door lock assembly from the inside the door panel until the outside handle escutcheon TORX bolt can be seen.

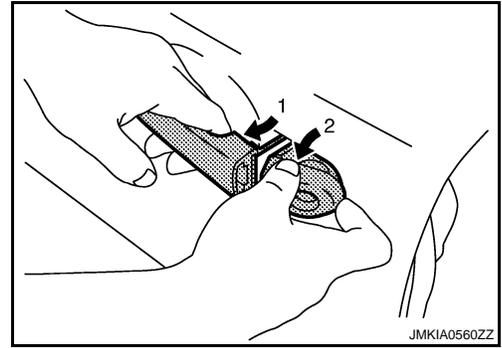


REAR DOOR LOCK

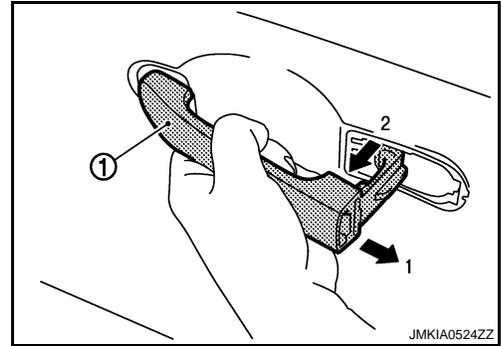
[WITH I-KEY & SUPER LOCK]

< ON-VEHICLE REPAIR >

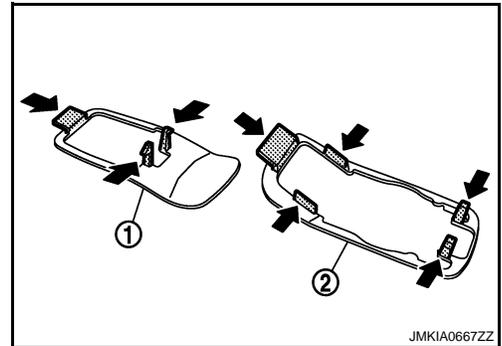
9. While pulling the outside handle, remove the outside handle escutcheon.



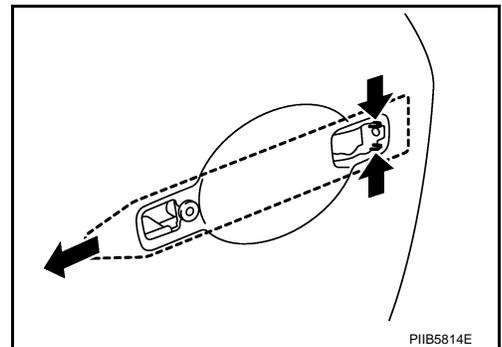
10. While pulling the outside handle(1), slide toward rear of vehicle to remove the outside handle.



11. Remove the front gasket (1) and the rear gasket (2).



12. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



13. Reach in to separate the outside handle cable connection.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

BACK DOOR LOCK

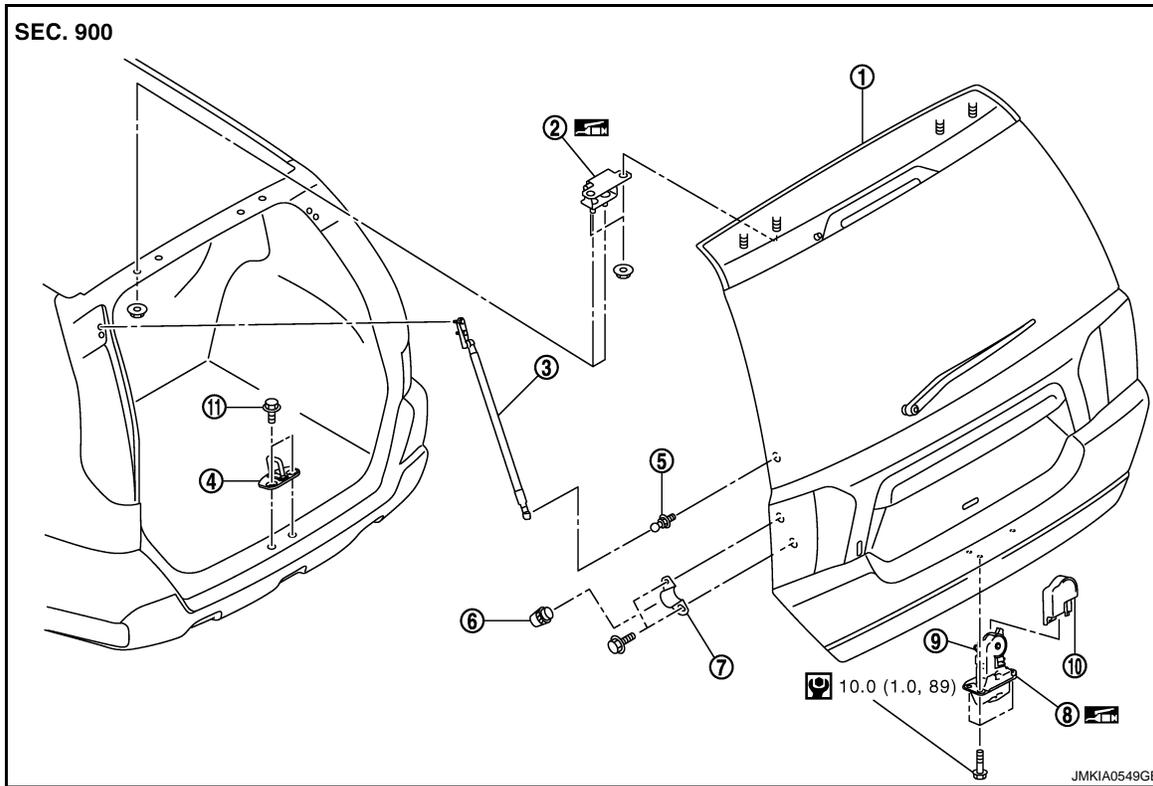
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

BACK DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001451771



- | | | |
|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001451773

REMOVAL

1. Remove the back door trim finisher lower. Refer to [INT-31. "Removal and Installation"](#).
2. Disconnect the back door lock assembly and back door opener switch connectors.
3. Remove the back door lock mounting bolts, and then remove the back door lock and actuator.

INSTALLTION

Install in the reverse order of removal.

CAUTION:

Check the back door lock/unlock operation after installation.

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DLK

FUEL FILLER LID OPENER

< ON-VEHICLE REPAIR >

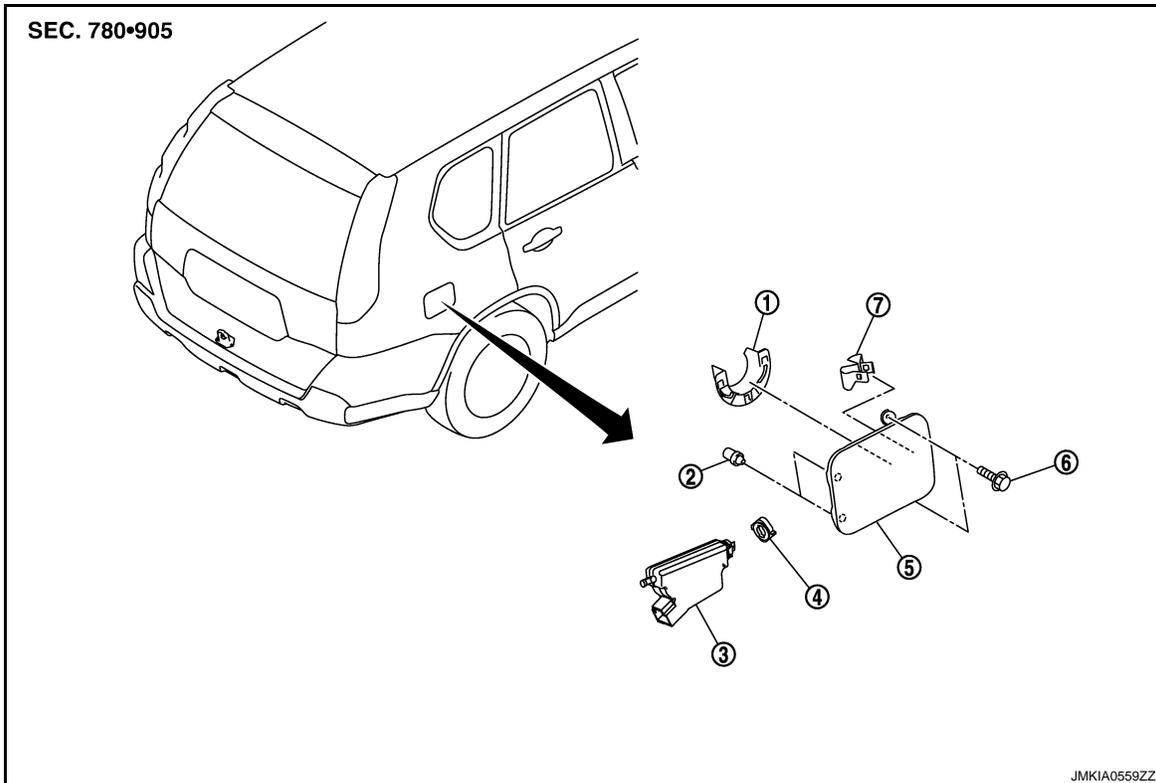
[WITH I-KEY & SUPER LOCK]

FUEL FILLER LID OPENER

FUEL FILLER LID

FUEL FILLER LID : Exploded View

INFOID:000000001451774



- | | | |
|------------------------------|-----------------------------|----------------------------------|
| 1. Fuel filler cap holder | 2. Bumper rubber | 3. Fuel filler lid lock actuator |
| 4. Fuel filler lid lock seal | 5. Fuel filler lid assembly | 6. TORX bolt |
| 7. Spring | | |

FUEL FILLER LID : Removal and Installation

INFOID:000000001451775

REMOVAL

1. Fully open the fuel filler lid.
2. Remove the filler cap.
3. Remove the TORX bolts, and then remove the fuel filler lid assembly.
4. Remove the following parts after removing the fuel filler lid assembly.
 - Fuel filler cap holder
 - Bumper rubber
 - Spring

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the fuel filler lid open/close operation after installation.
- After installation, apply the touch-up paint (the body color) onto the head of the mounting screws.

NOTE:

After installation, perform fitting adjustment.

mm(in)

	Clearance	Evenness
Fuel filler lid— Body side outer	2.0 – 4.0 (0.079 – 0.157)	-1.0 – 1.0 (-0.039 – 0.039)

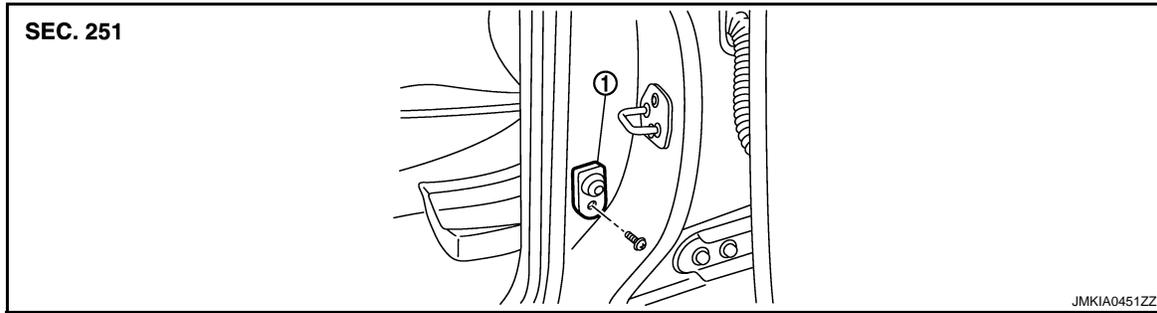
DOOR SWITCH

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR SWITCH

Exploded View



1. Door switch (driver side)

Removal and Installation

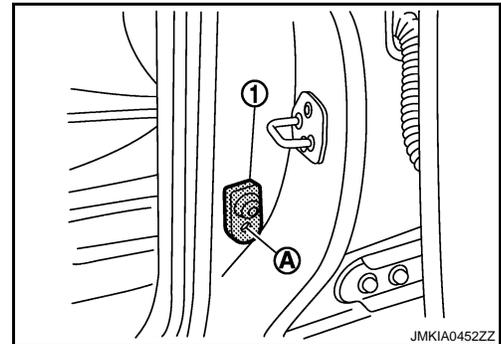
INFOID:000000001281005

REMOVAL

1. Remove the door switch mounting bolt (A), and then remove door switch (1).

NOTE:

The same procedure is also performed for door switch (passenger side, rear LH and rear RH).



INSTALLATION

Install in the reverse order of removal.

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DLK

INSIDE KEY ANTENNA

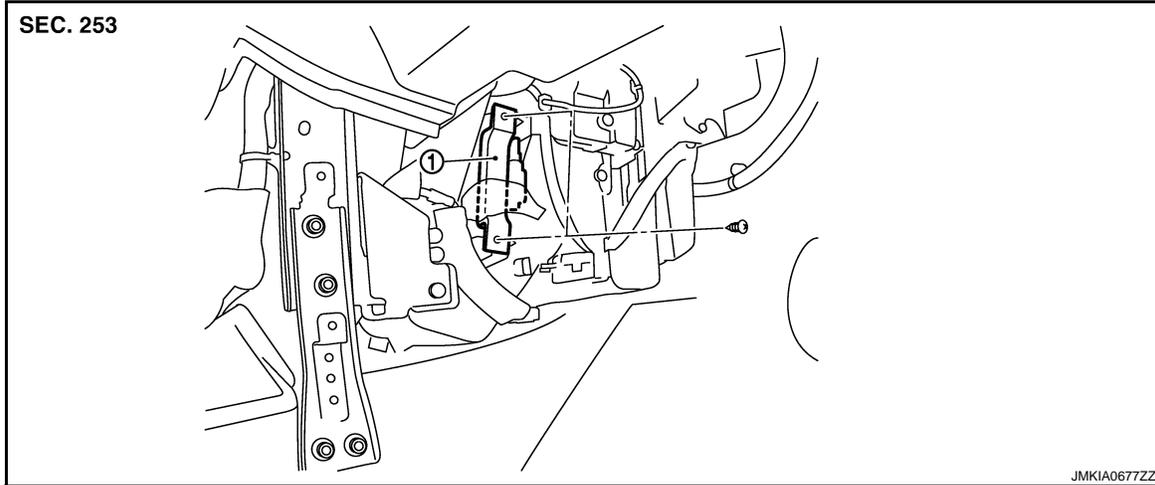
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Exploded View

INFOID:000000001281006



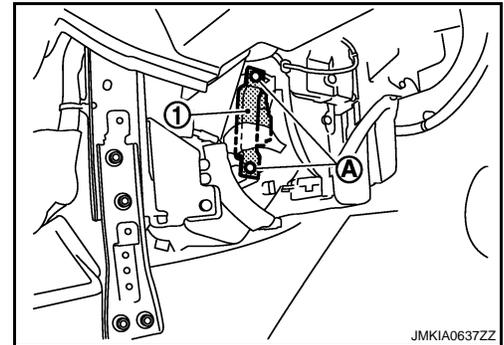
1. Inside key antenna (instrument center)

INSTRUMENT CENTER : Removal and Installation

INFOID:000000001281007

REMOVAL

1. Instrument lower cover RH. Refer to [IP-12. "Removal and Installation"](#).
2. Remove the inside key antenna (instrument center) mounting screw (A), and then remove inside key antenna (instrument center) (1).



INSTALLATION

Install in the reverse order of removal.

CONSOLE

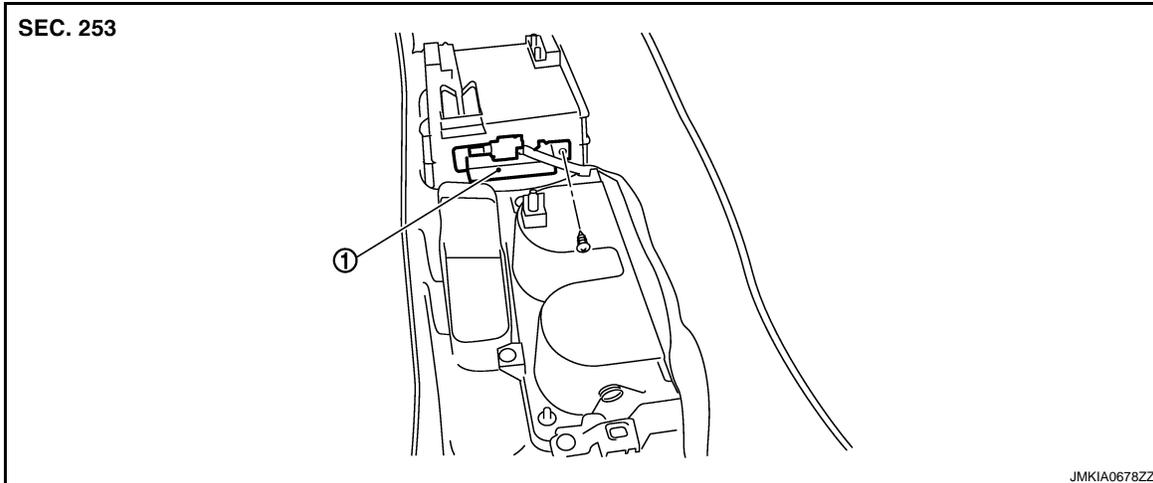
INSIDE KEY ANTENNA

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

CONSOLE : Exploded View

INFOID:000000001281008



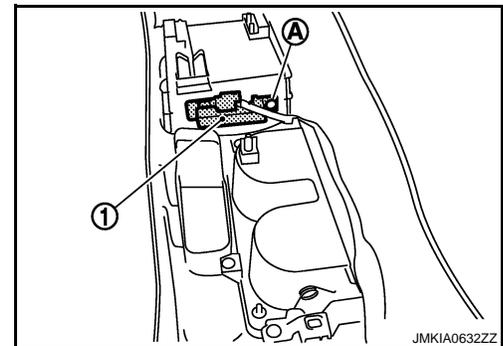
1. Inside key antenna (console)

CONSOLE : Removal and Installation

INFOID:000000001281009

REMOVAL

1. Remove the center console. Refer to [IP-21, "Removal and Installation"](#).
2. Remove the inside key antenna mounting screw (A), and then remove inside key antenna (console) (1).



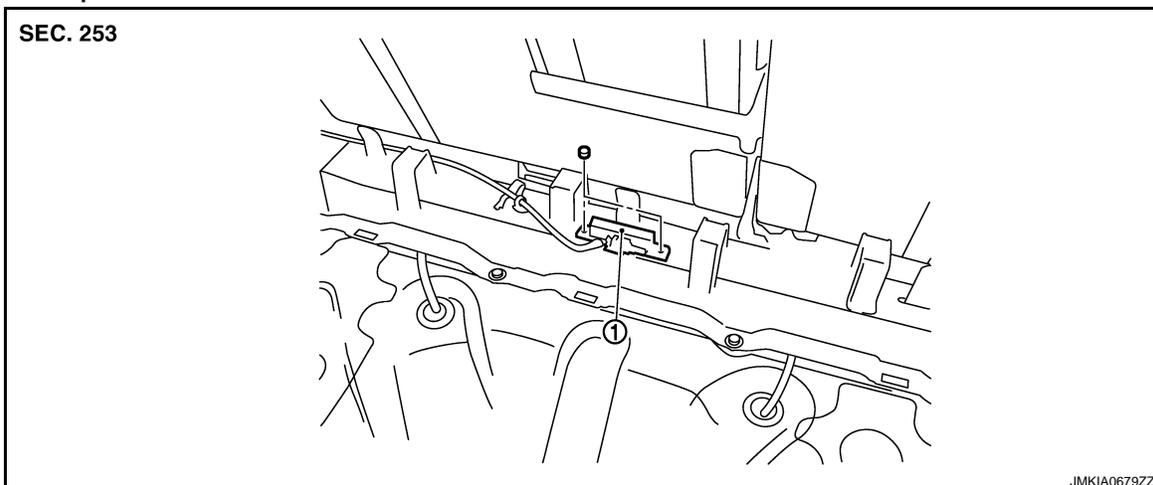
INSTALLATION

Install in the reverse order of removal.

REAR

REAR : Exploded View

INFOID:000000001281010



1. Inside key antenna (rear seat)

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INSIDE KEY ANTENNA

< ON-VEHICLE REPAIR >

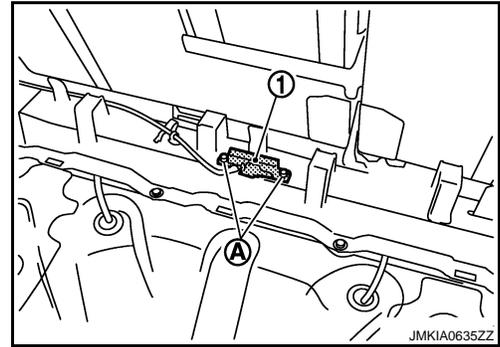
[WITH I-KEY & SUPER LOCK]

REAR : Removal and Installation

INFOID:000000001281011

REMOVAL

1. Remove the luggage floor spacer. Refer to [INT-28. "Removal and Installation"](#).
2. Remove the inside key antenna (rear seat) mounting clips (A), and then remove inside key antenna (rear seat) (1).



INSTALLATION

Install in the reverse order of removal.

OUTSIDE KEY ANTENNA

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:000000001281012

Refer to [DLK-575, "OUTSIDE HANDLE : Exploded View"](#).

DRIVER SIDE : Removal and Installation

INFOID:000000001281013

REMOVAL

Remove the front outside handle LH. Refer to [DLK-575, "OUTSIDE HANDLE : Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:000000001281014

Refer to [DLK-575, "OUTSIDE HANDLE : Exploded View"](#).

PASSENGER SIDE : Removal and Installation

INFOID:000000001281015

REMOVAL

Remove the front outside handle RH. Refer to [DLK-575, "OUTSIDE HANDLE : Removal and Installation"](#).

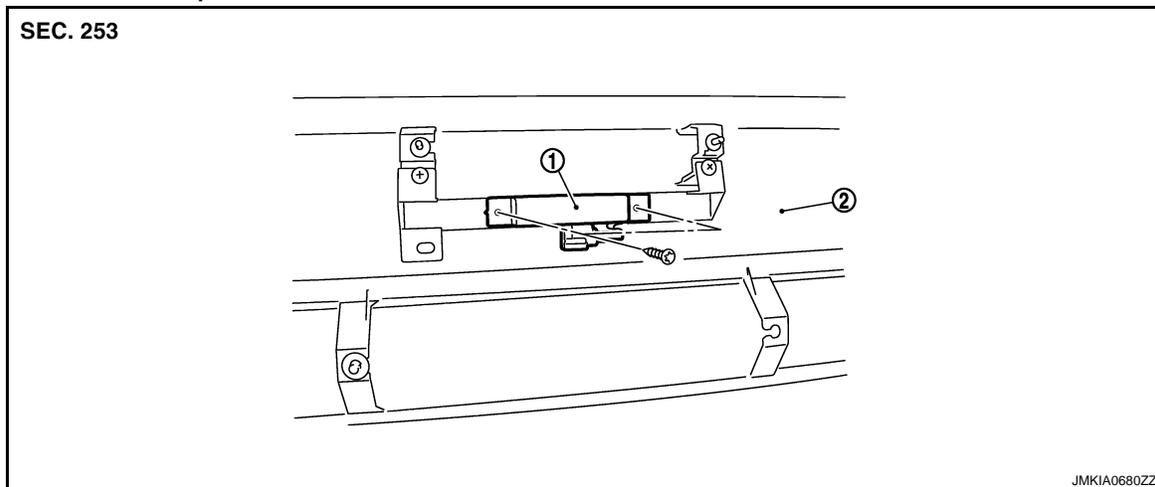
INSTALLATION

Install in the reverse order of removal.

BACK DOOR

BACK DOOR : Exploded View

INFOID:000000001281016



1. Outside key antenna (back door)
2. Back door lower finisher

BACK DOOR : Removal and Installation

INFOID:000000001281017

REMOVAL

1. Remove the back door lower finisher. Refer to [EXT-36, "Removal and Installation"](#).

INTELLIGENT KEY WARNING BUZZER

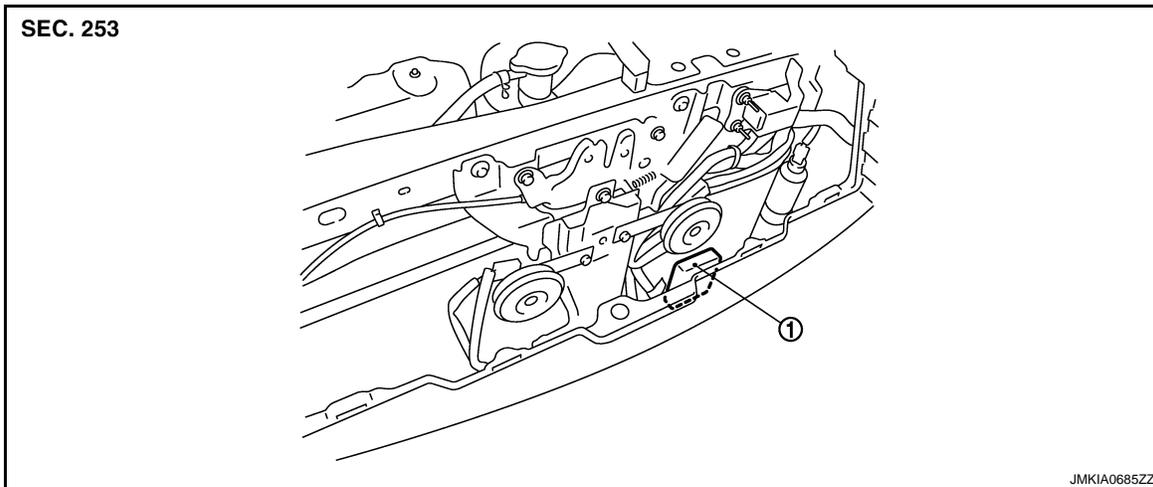
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY WARNING BUZZER

Exploded View

INFOID:000000001281018



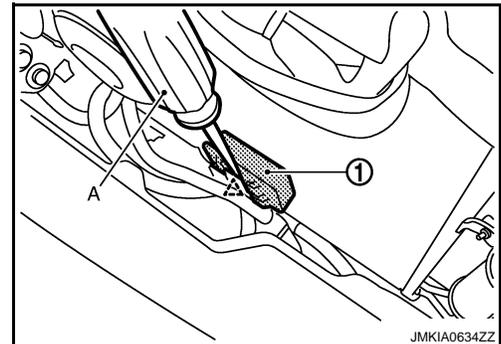
1. Intelligent Key warning buzzer

Removal and Installation

INFOID:000000001281019

REMOVAL

1. Remove the front grille. Refer to [EXT-18, "Removal and Installation"](#).
2. Remove the Intelligent Key warning buzzer using flat-bladed screw driver (A) etc.



INSTALLATION

Install in the reverse order of removal.

BACK DOOR REQUEST SWITCH

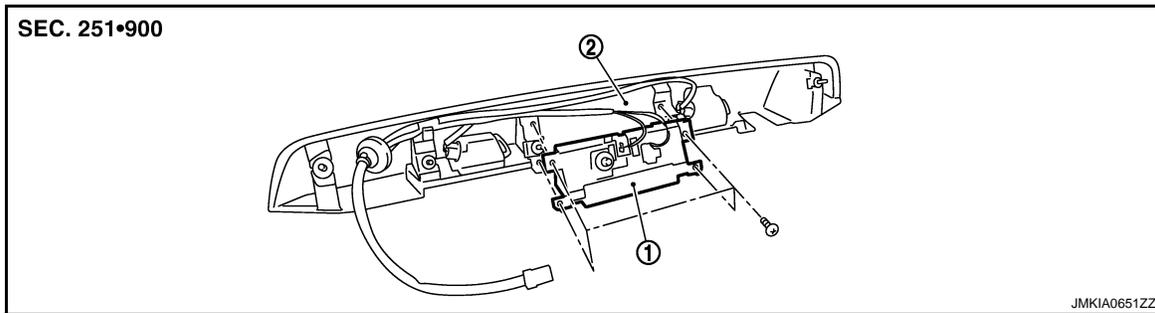
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

BACK DOOR REQUEST SWITCH

Exploded View

INFOID:000000001281020



1. Back door opener switch assembly

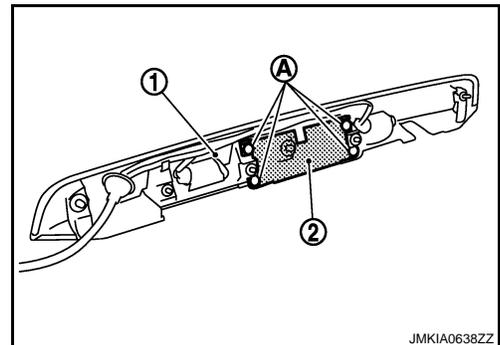
2. Back door finisher

Removal and Installation

INFOID:000000001281021

REMOVAL

1. Remove the back door finisher. Refer to [EXT-34, "Removal and Installation"](#).
2. Remove the back door opener switch assembly mounting bolt (A).
3. Remove the back door opener switch assembly (2) from back door finisher (1).



INSTALLATION

Install in the reverse order of removal.

BACK DOOR OPENER SWITCH

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH

Exploded View

INFOID:000000001281022

Refer to [DLK-592, "Exploded View"](#).

Removal and Installation

INFOID:000000001281023

REMOVAL

Refer to [DLK-592, "Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

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INTELLIGENT KEY BATTERY

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY BATTERY

Exploded View

INFOID:000000001281024

Refer to [DLK-594. "Removal and Installation"](#).

Removal and Installation

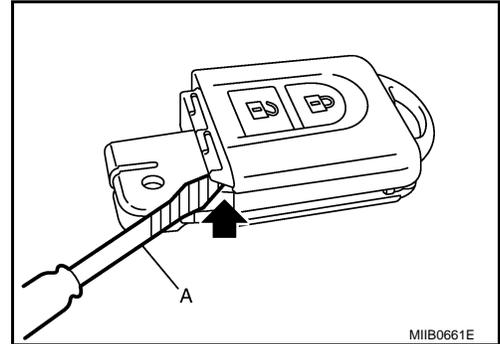
INFOID:000000001281025

REMOVAL

1. Remove Intelligent Key cover.
2. Insert a flat-bladed screwdriver (A) wrapped with tape as shown in the illustration and then separate lower and upper cases by twisting screwdriver.

CAUTION:

- Do not touch the circuit board or battery terminal.
- The Intelligent Key is water-resistant. However, if it does get wet, immediately wipe it dry.



3. Remove the circuit board assembly from the upper case (1).
[Substrate assembly: circuit board (3) + rubber (2)]
4. Gently press the rubber (2) and remove the circuit board (3).
5. Remove the battery (4) from the lower case (5) and replace it.

Battery replacement : Coin-type lithium battery (CR2032)

CAUTION:

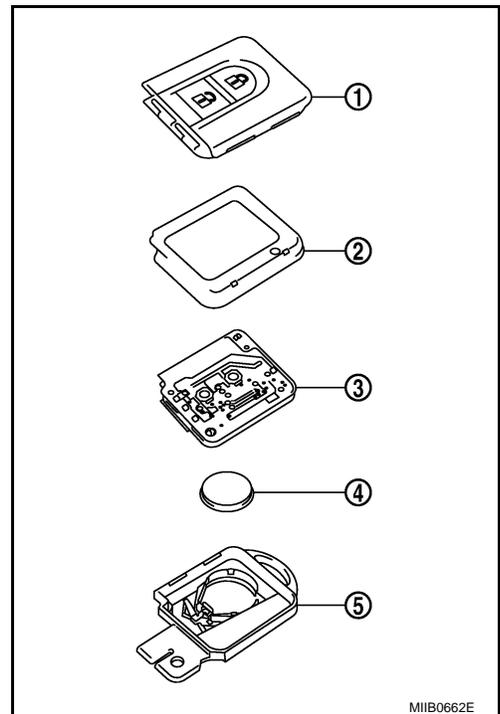
When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.

6. After replacement, assemble the upper and lower cases by engaging the hooks on their circumference while being careful not to pinch the rubber, etc.

CAUTION:

After replacing the battery, check that all Intelligent Key functions work normally.

Refer to [DLK-427. "Component Function Check"](#).



INSTALLATION

Install in the reverse order of removal.

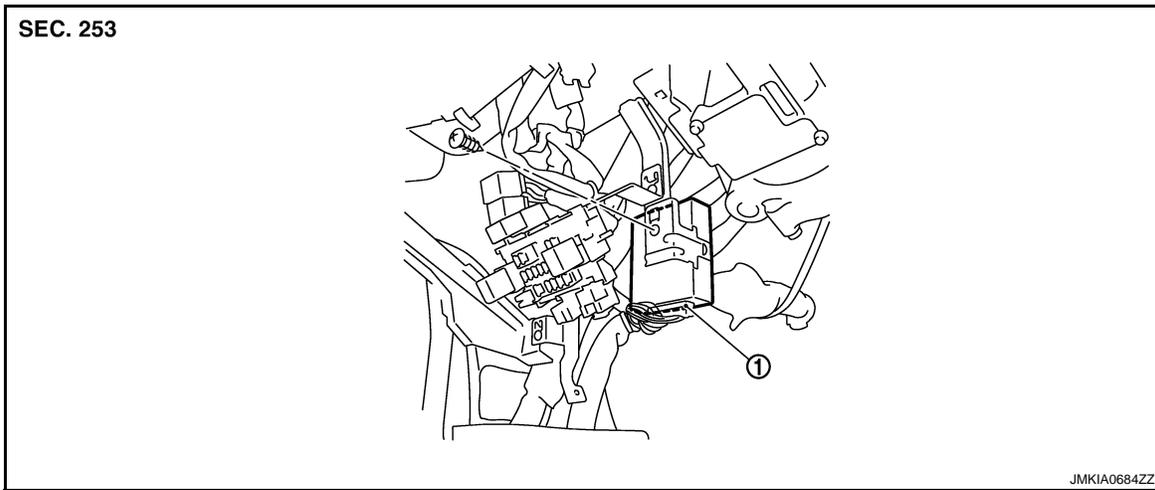
INTELLIGENT KEY UNIT

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY UNIT

Exploded View



1. Intelligent Key unit M40

Removal and Installation

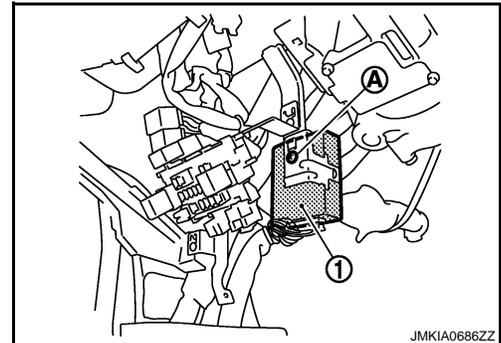
INFOID:000000001281027

REMOVAL

1. Remove lower instrument panel (driver side). Refer to [IP-12. "Removal and Installation"](#).
2. Remove the Intelligent Key unit mounting screw (A), and then remove Intelligent Key unit (1).

NOTE:

Perform the system initialization when replacing Intelligent Key unit. Refer to [DLK-306. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).



INSTALLATION

Install in the reverse order of removal.

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DLK

DOOR LOCK AND UNLOCK SWITCH

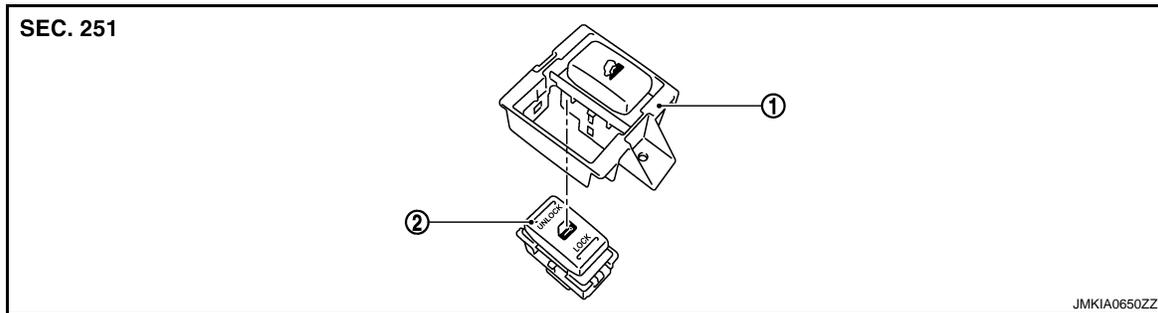
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH

Exploded View

INFOID:000000001450371



1. Switch bracket

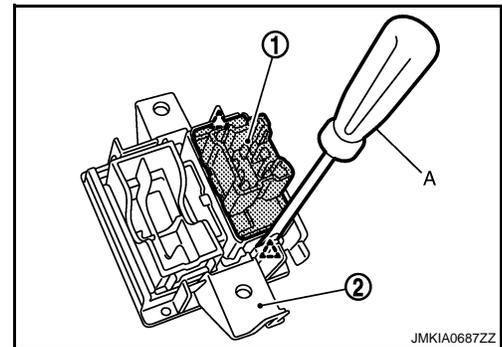
2. Door lock and unlock switch

Removal and Installation

INFOID:000000001450372

Remove the door lock and unlock switch (1) from switch bracket (2) using flat-bladed screw driver (A) etc.

 : Pawl



DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT I-KEY & SUPER LOCK]

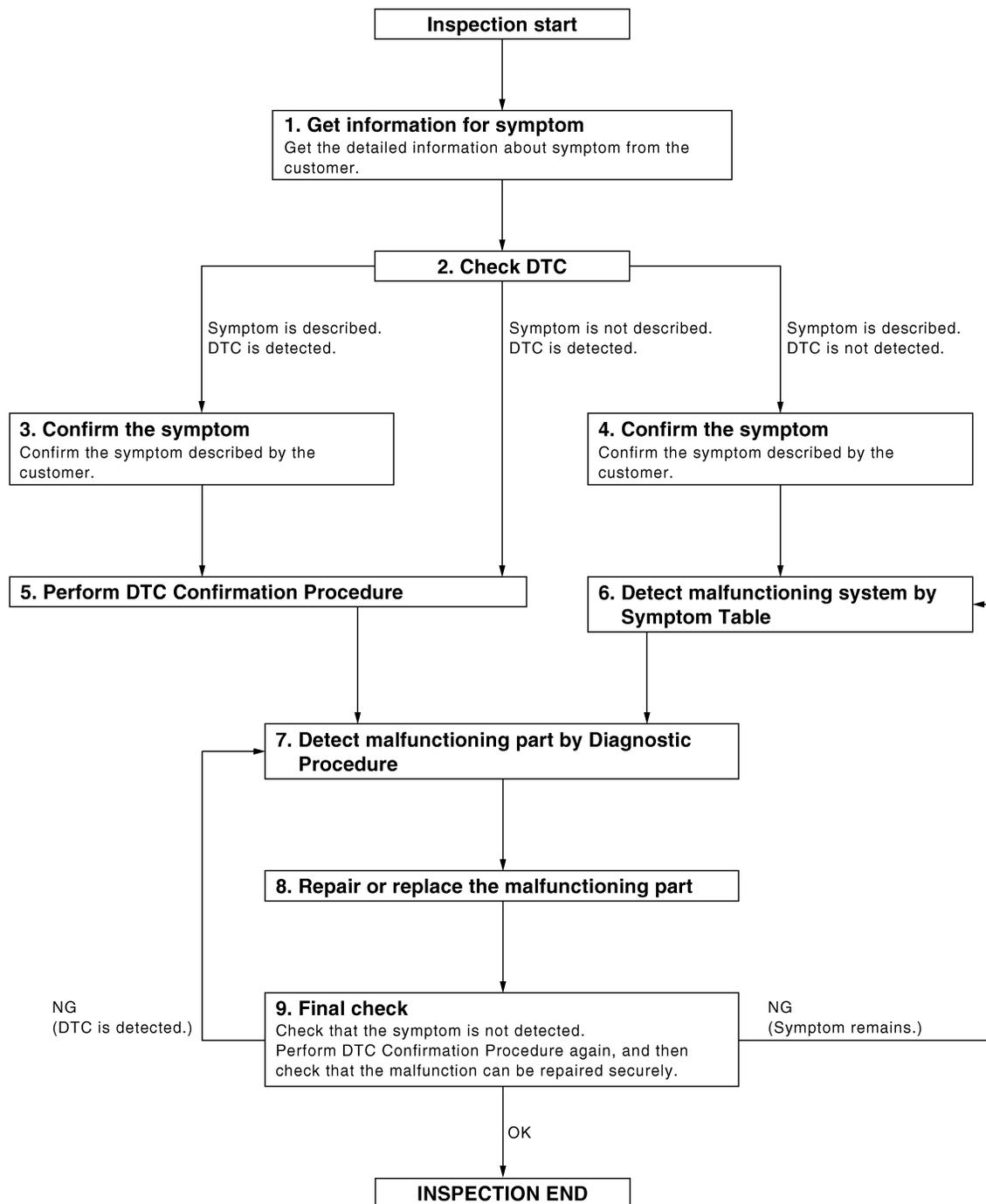
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000001569820

OVERALL SEQUENCE



DETAILED FLOW

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT I-KEY & SUPER LOCK]

1.GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2.CHECK DTC

1. Check DTC for BCM.
2. Perform the following procedure if DTC is displayed.
 - Erase DTC.
 - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

- Symptom is described, DTC is displayed>>GO TO 3.
- Symptom is described, DTC is not displayed>>GO TO 4.
- Symptom is not described, DTC is displayed>>GO TO 5.

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real-time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR " mode and check real-time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.
If two or more DTCs are detected, refer to [DLK-690, "DTC Inspection Priority Chart"](#) (BCM) and determine trouble diagnosis order.

Is DTC detected?

- YES >> GO TO 7.
- NO >> Refer to [GI-39, "Intermittent Incident"](#).

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to Symptom Table based on the confirmed symptom in step 4.

>> GO TO 7.

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

The Diagnostic Procedure is described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

>> GO TO 8.

8.REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
3. Check DTC. If DTC is displayed, erase it.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT I-KEY & SUPER LOCK]

>> GO TO 9.

9.FINAL CHECK

When DTC was detected in step 9, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunctions have been fully repaired.

When symptom was described by the customer, refer to the confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Are all malfunctions corrected?

NO (DTC is detected)>>GO TO 7.

NO (Symptom remains)>>GO TO 6.

YES >> **INSPECTION END**

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITHOUT I-KEY & SUPER LOCK]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000001281031

Perform the system initialization when replacing or registering Keyfob and ignition key.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000001281032

Refer to the CONSULT-III Operation Manual-NATS.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

FUNCTION DIAGNOSIS

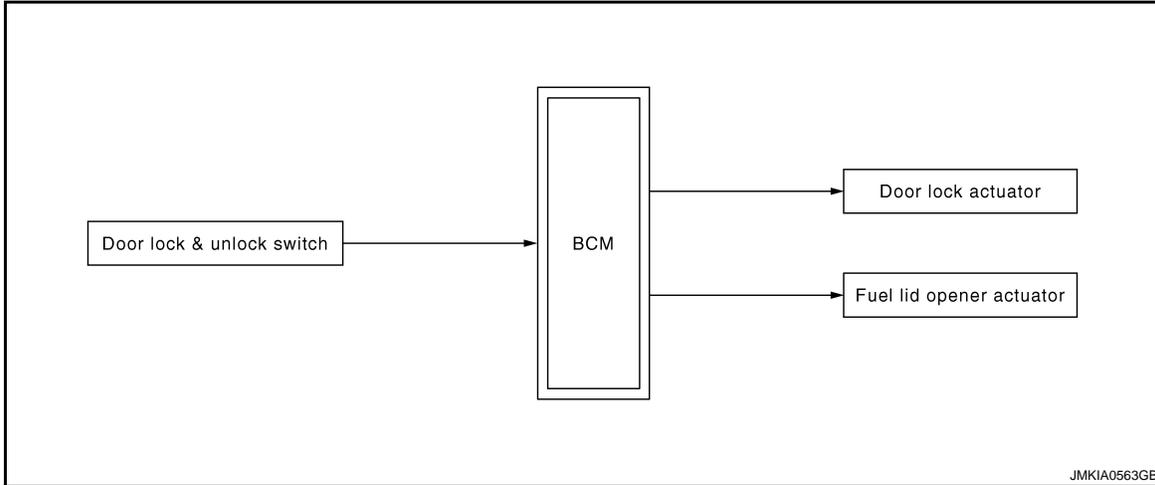
DOOR LOCK FUNCTION

DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH : System Diagram

INFOID:000000001281033

DOOR LOCK AND UNLOCK SWITCH OPERATION



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DOOR LOCK AND UNLOCK SWITCH : System Description

INFOID:000000001281034

DOOR LOCK AND UNLOCK SWITCH OPERATION

Functions are available by operating the door lock and unlock switch on center console. Interlocked with the lock/unlock operation of door lock and unlock switch, door lock actuators of all doors are locked/unlocked.

Operation Condition

If the following conditions are not satisfied, door lock/unlock operation is not performed even if the door lock and unlock switch is operated.

Door lock and unlock switch	Operation condition
Lock operation	All the following conditions are satisfied. <ul style="list-style-type: none"> • Except driver side, doors are closed. • Doors are not locked with keyfob.
Unlock operation	All the following all conditions are satisfied. <ul style="list-style-type: none"> • Doors are not locked with keyfob.

NOTE:

When the door lock is locked with keyfob, door lock and unlock switch operation will be invalid until either of the following conditions is satisfied.

- Turn ignition switch ON.
- Unlock operation by keyfob.

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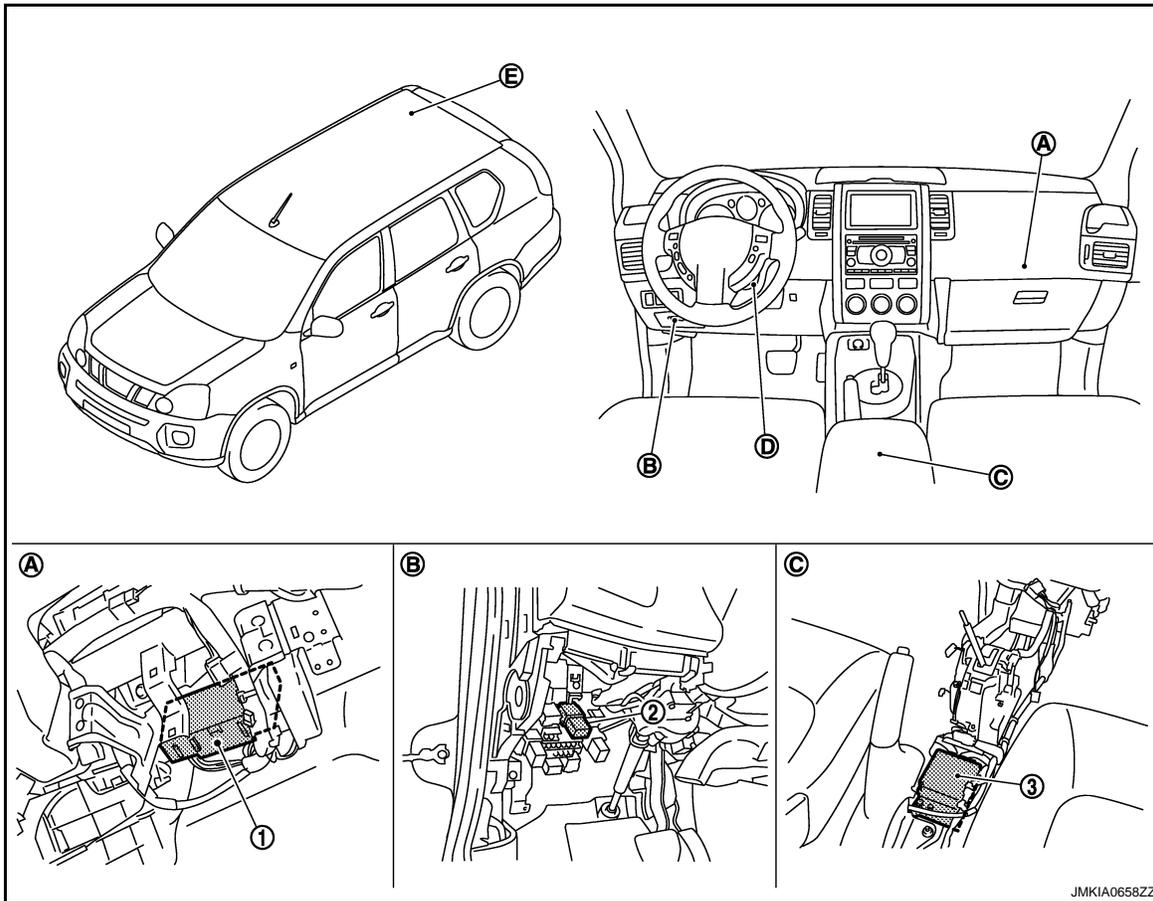
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH : Component Parts Location

INFOID:000000001281035



- 1. BCM
M65, M66, M67
- A. Over the glove box

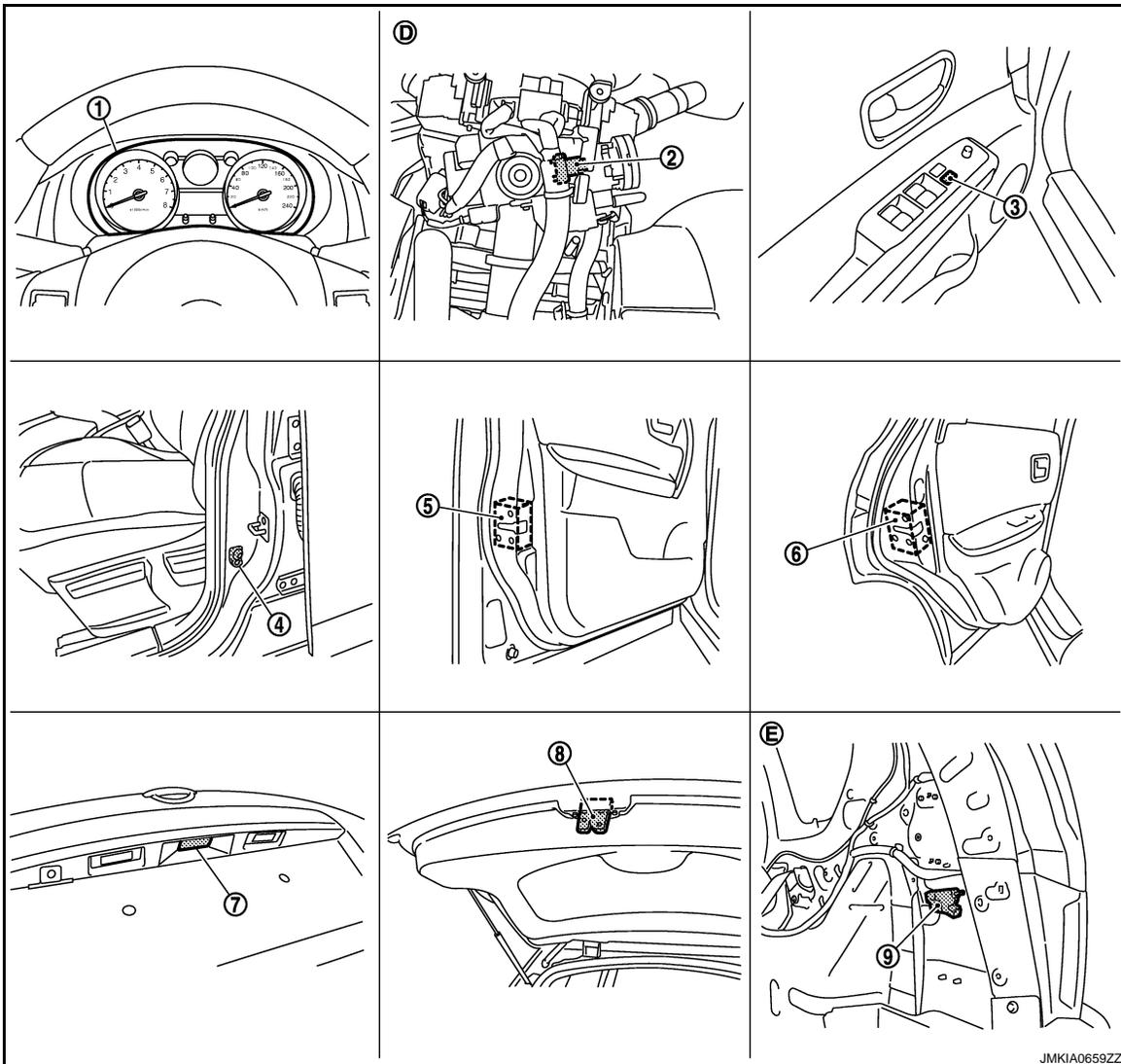
- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 3. Air bag diagnosis sensor unit
M59
- C. View with center console removed

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]



- | | | |
|--|--|---|
| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Power window main switch (Door lock and unlock switch) D5,D6 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D9 | 6. Rear door lock actuator LH
D85 |
| 7. Back door opener switch assembly (opener switch) D186 | 8. Back door lock assembly D190 | 9. Fuel lid opener actuator B58 |
| D. View with steering column cover removed | E. View with luggage side lower finisher (RH) removed. | |

DOOR LOCK AND UNLOCK SWITCH : Component Description

INFOID:000000001281036

Item	Function
BCM	Controls the door lock and unlock function.
Door switch	Detects door state (open or closed).
Door lock and unlock switch	Transmits door lock and unlock signal to BCM. Door lock and unlock switch indicator is built in door lock and unlock switch.
Door lock actuator	Receives door lock and unlock signal from BCM and locks and unlocks each door.

KEYFOB

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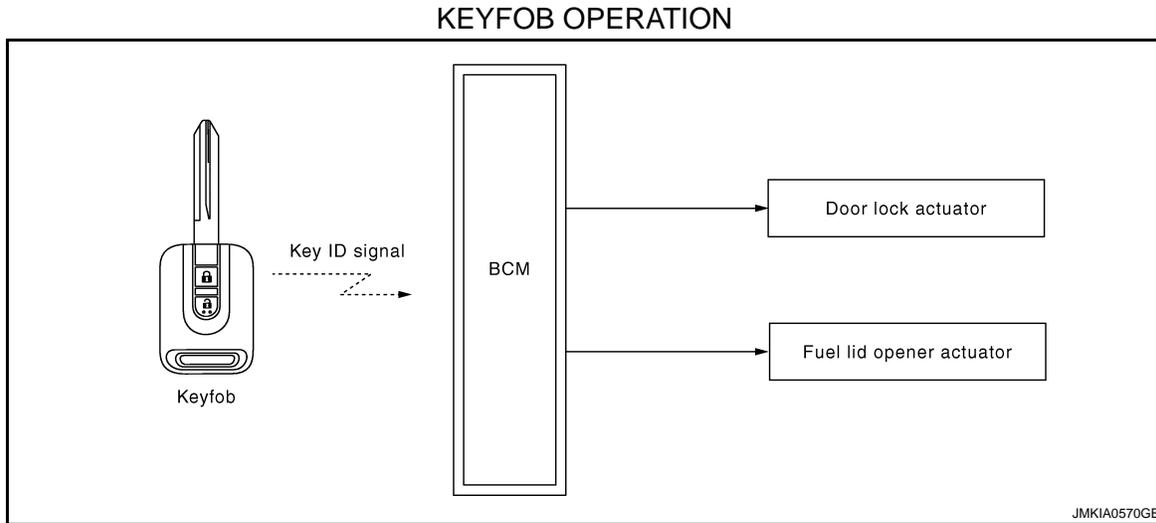
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

KEYFOB : System Diagram

INFOID:000000001281037



KEYFOB : System Description

INFOID:000000001281038

KEYFOB OPERATION

The multi remote control system can be locked and unlocked by pressing door lock and unlock button of keyfob.

DOOR LOCK AND UNLOCK OPERATION

When door lock and unlock button of keyfob is pressed, door lock and unlock signal transmits from keyfob to BCM. When BCM receives the door lock and unlock signal, it operates door lock actuator.

OPERATION CONDITION

Remote controller operation	Operation condition
Lock/unlock	Key switch is OFF (key is removed from ignition key cylinder).

OPERATION AREA

To ensure that the keyfob works effectively, use within 100 cm range of each door, however the operable range may differ according to surroundings.

ANTI-HIJACK MODE

When door lock is unlocked, pressing LOCK button on keyfob once will lock all doors. When door lock is locked, pressing UNLOCK button on keyfob will unlock driver side door. Pressing UNLOCK button on keyfob second time within 5 seconds from the first time will unlock all doors and back door can be opened with back door opener switch.

NOTE:

Anti-hijack mode can be set to ON or OFF with CONSULT-III. For the setting information, refer to [DLK-625. "MULTIREMOTE ENT : CONSULT-III Function \(BCM - MULTIREMOTE ENT\)"](#).

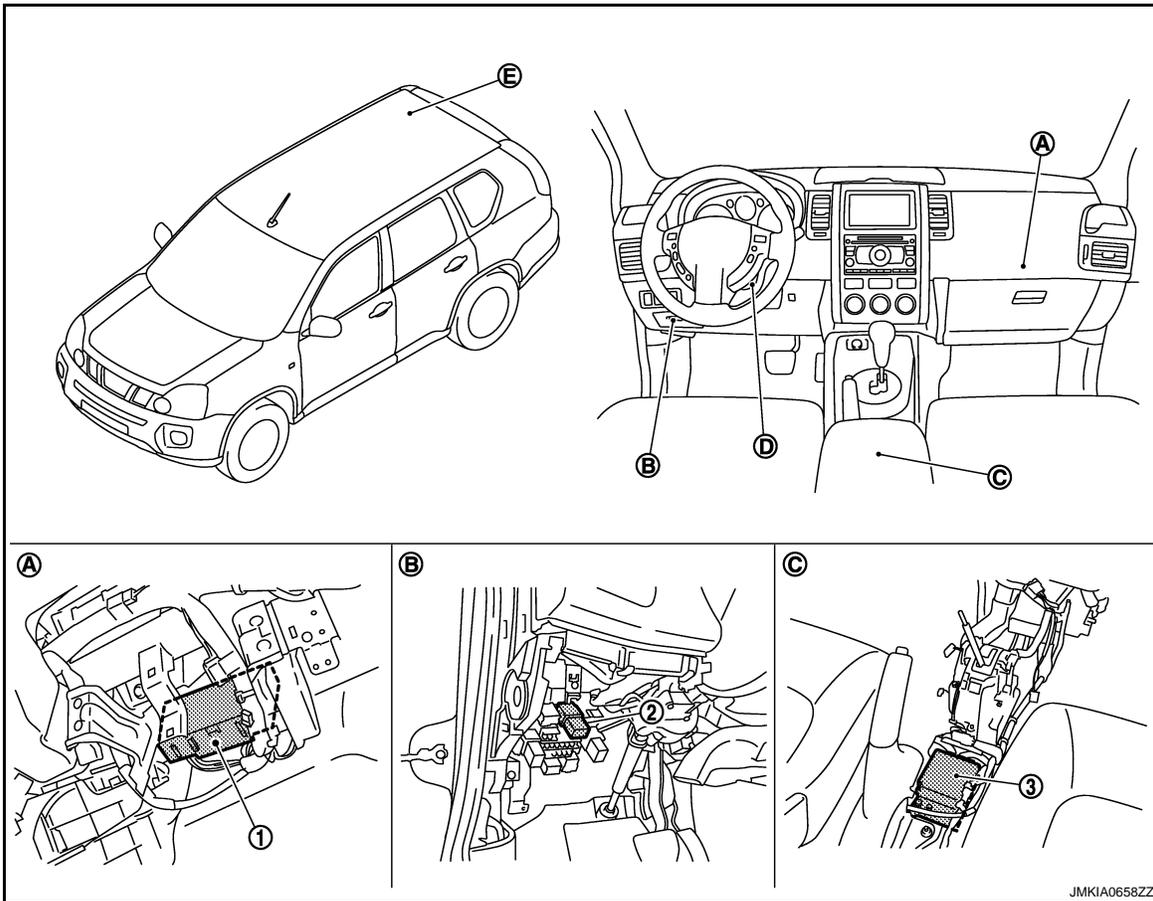
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

KEYFOB : Component Parts Location

INFOID:000000001394631



- 1. BCM
M65, M66, M67
- A. Over the glove box

- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 3. Air bag diagnosis sensor unit
M59
- C. View with center console removed

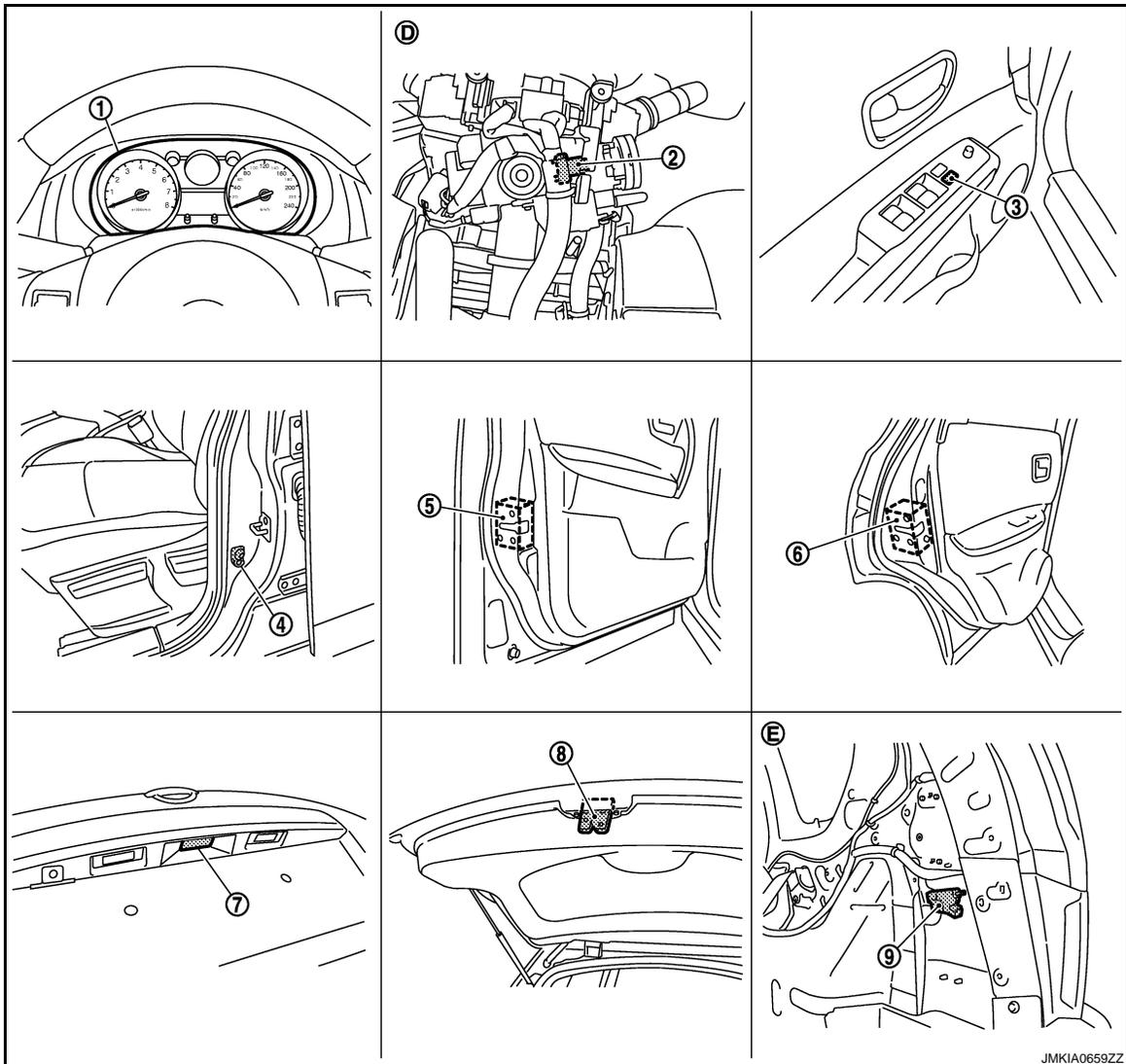
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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]



- | | | |
|---|---|--|
| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Power window main switch (Door
lock and unlock switch) D5,D6 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D9 | 6. Rear door lock actuator LH
D85 |
| 7. Back door opener switch assembly
(opener switch) D186 | 8. Back door lock assembly D190 | 9. Fuel lid opener actuator B58 |
| D. View with steering column cover re-
moved | E. View with luggage side lower finisher (RH)
removed. | |

KEYFOB : Component Description

INFOID:000000001281040

Item	Function
BCM	Controls the door lock function.
Key switch	Detects that ignition key is inserted into ignition key cylinder.
Door lock actuator	Receives lock and unlock signal from BCM and locks and unlocks each door.

AUTO DOOR LOCK

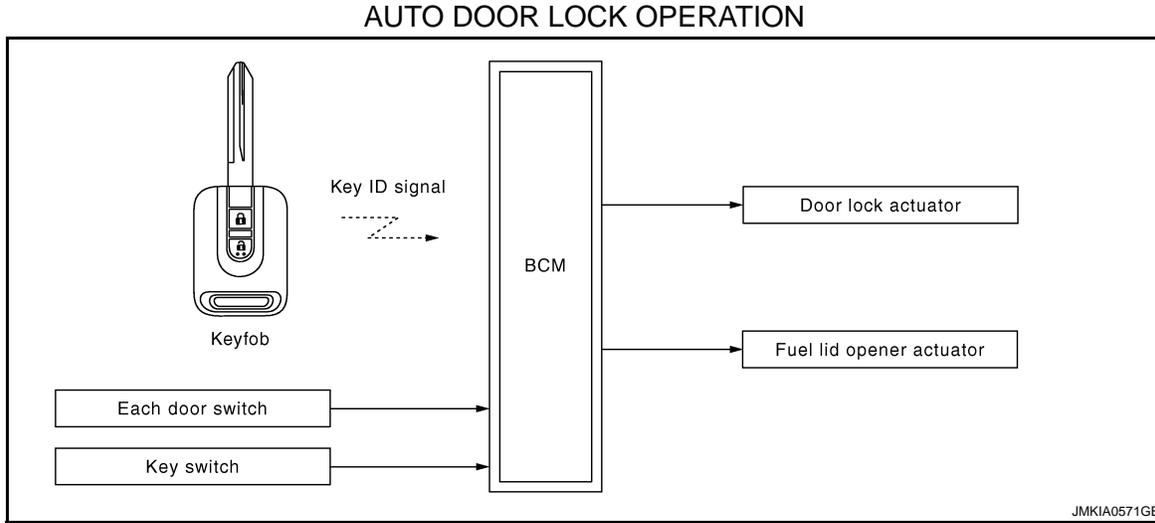
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

AUTO DOOR LOCK : System Diagram

INFOID:000000001281041



AUTO DOOR LOCK : System Description

INFOID:000000001281042

AUTO RELOCK OPERATION

When all doors are locked and then doors are unlocked with keyfob, if BCM does not receive the following signal within 2 minutes^{*1}, all doors are automatically locked.

- Any door is opened.
- Ignition key is inserted into ignition key cylinder.
- Door is locked with keyfob.
- Door is locked/unlocked with door lock and unlock switch.

^{*1}: The time can be changed with CONSULT-III. Refer to [DLK-625. "MULTIREMOTE ENT : CONSULT-III Function \(BCM - MULTIREMOTE ENT\)"](#).

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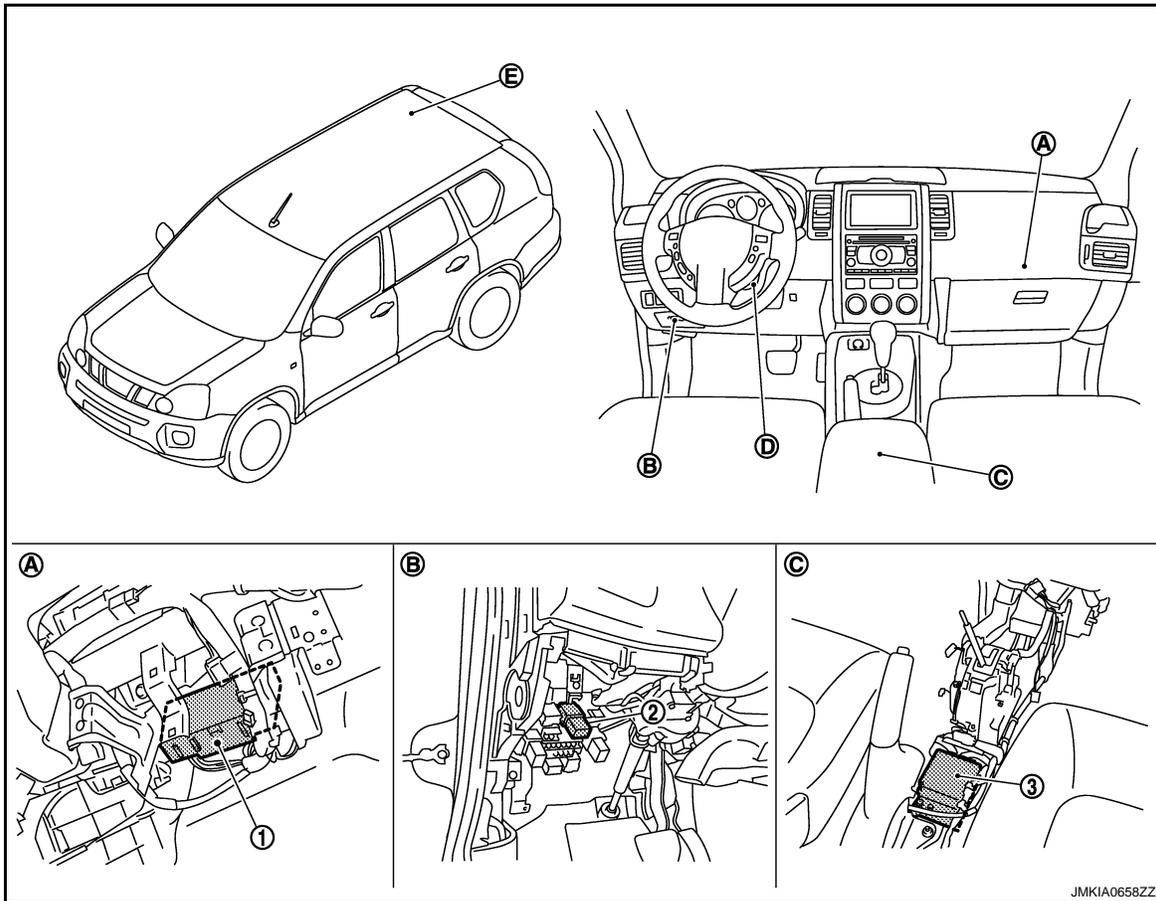
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

AUTO DOOR LOCK : Component Parts Location

INFOID:000000001394632



- 1. BCM
M65, M66, M67
- A. Over the glove box

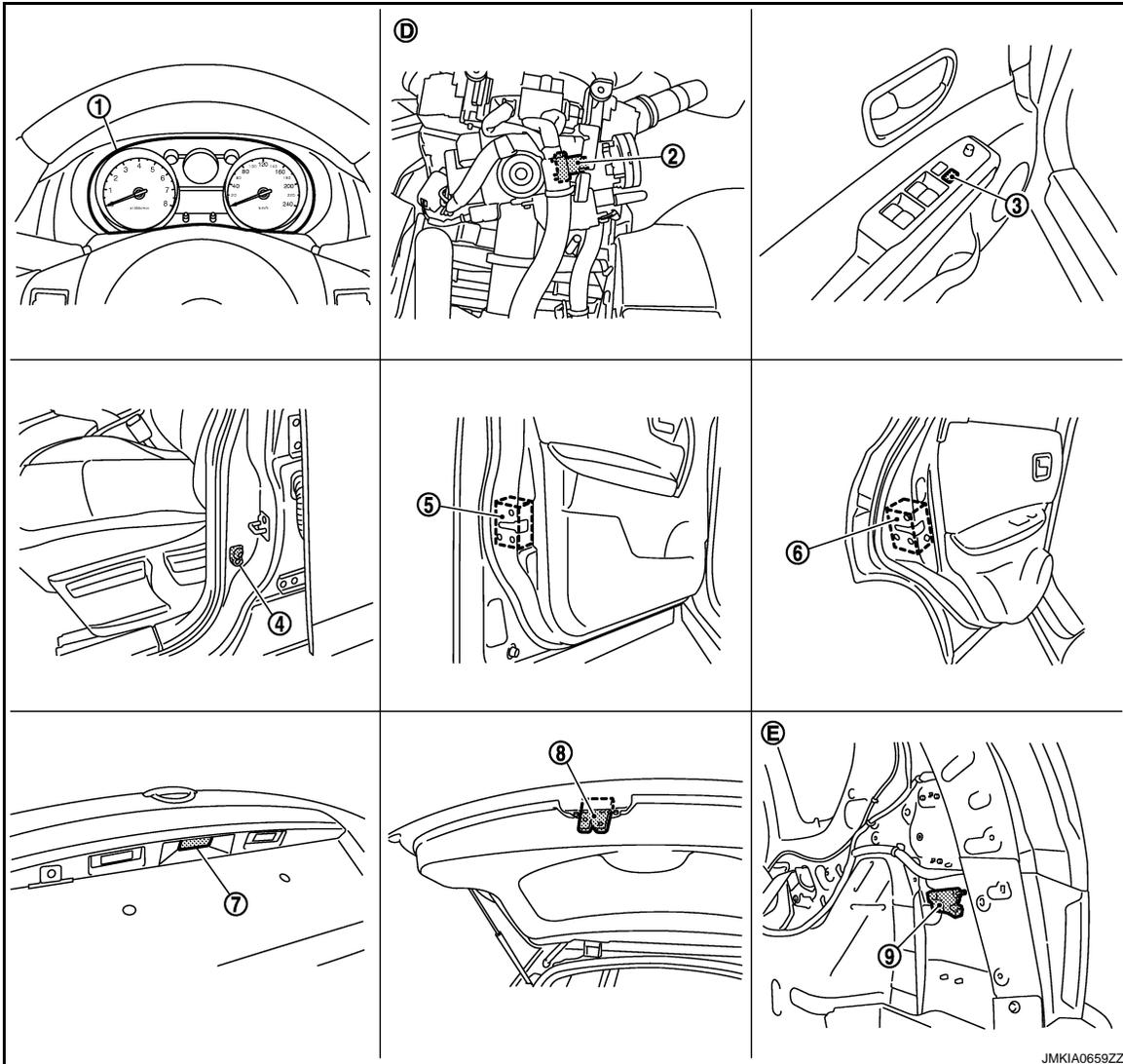
- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 3. Air bag diagnosis sensor unit
M59
- C. View with center console removed

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]



- | | | |
|---|---|--|
| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Power window main switch (Door
lock and unlock switch) D5,D6 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D9 | 6. Rear door lock actuator LH
D85 |
| 7. Back door opener switch assembly
(opener switch) D186 | 8. Back door lock assembly D190 | 9. Fuel lid opener actuator B58 |
| D. View with steering column cover re-
moved | E. View with luggage side lower finisher (RH)
removed. | |

AUTO DOOR LOCK : Component Description

INFOID:000000001281044

Item	Function
BCM	Controls the door lock function.
Door switch	Detects door state (open or closed).
Key switch	Detects that ignition key is inserted into ignition key cylinder.
Door lock/unlock switch	Transmits door lock/unlock signal to BCM.
Keyfob	Transmits key ID to BCM when lock and unlock button is pressed.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.

VEHICLE SPEED SENSING AUTO DOOR LOCK

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DOOR LOCK FUNCTION

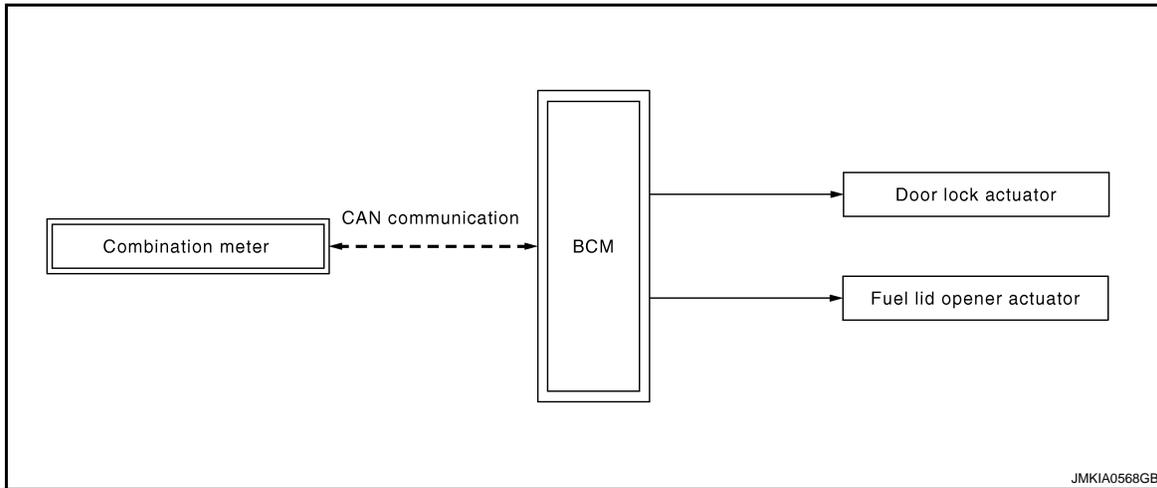
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

VEHICLE SPEED SENSING AUTO DOOR LOCK : System Diagram

INFOID:000000001281045

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION



VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description

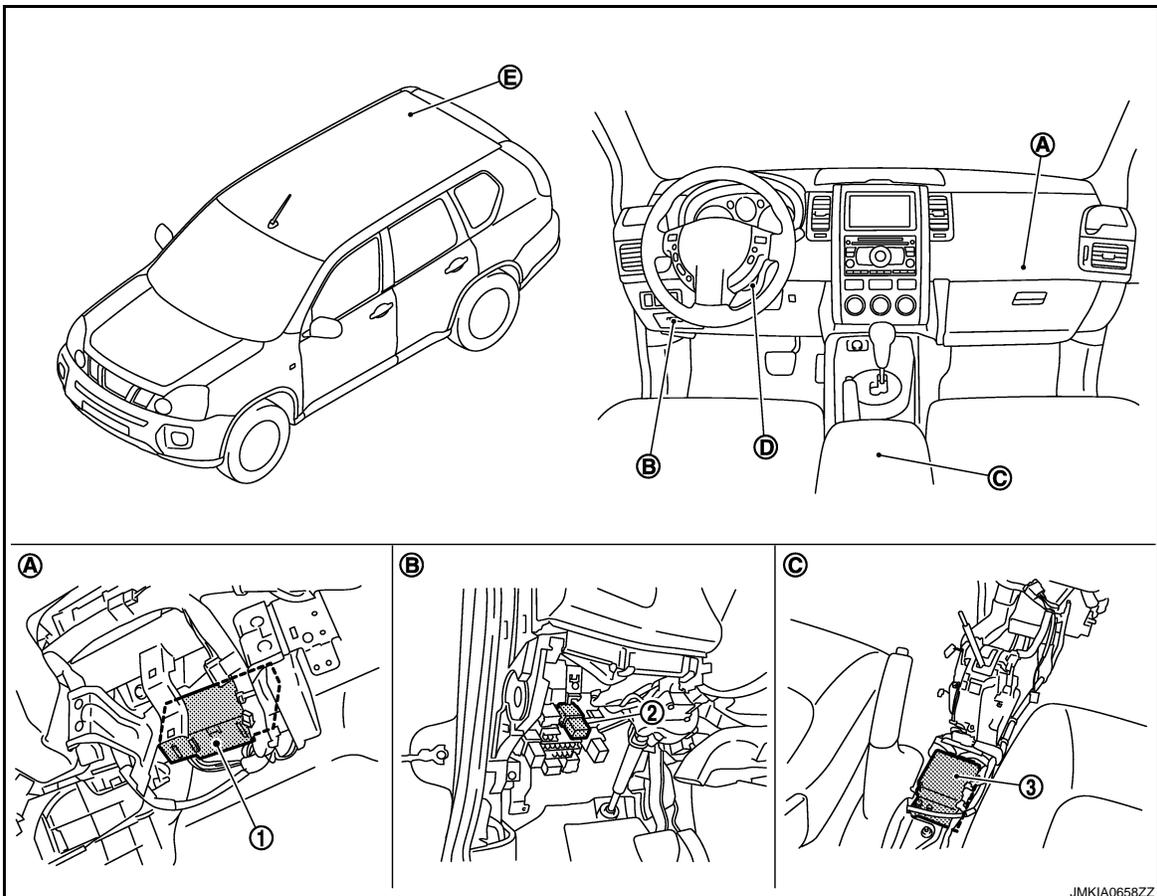
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VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION

When the vehicle speed exceeds more than 25 km/h (16 MPH), all doors are automatically locked. The vehicle speed signal is received from combination meter via CAN communication.

VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Parts Location

INFOID:000000001394634

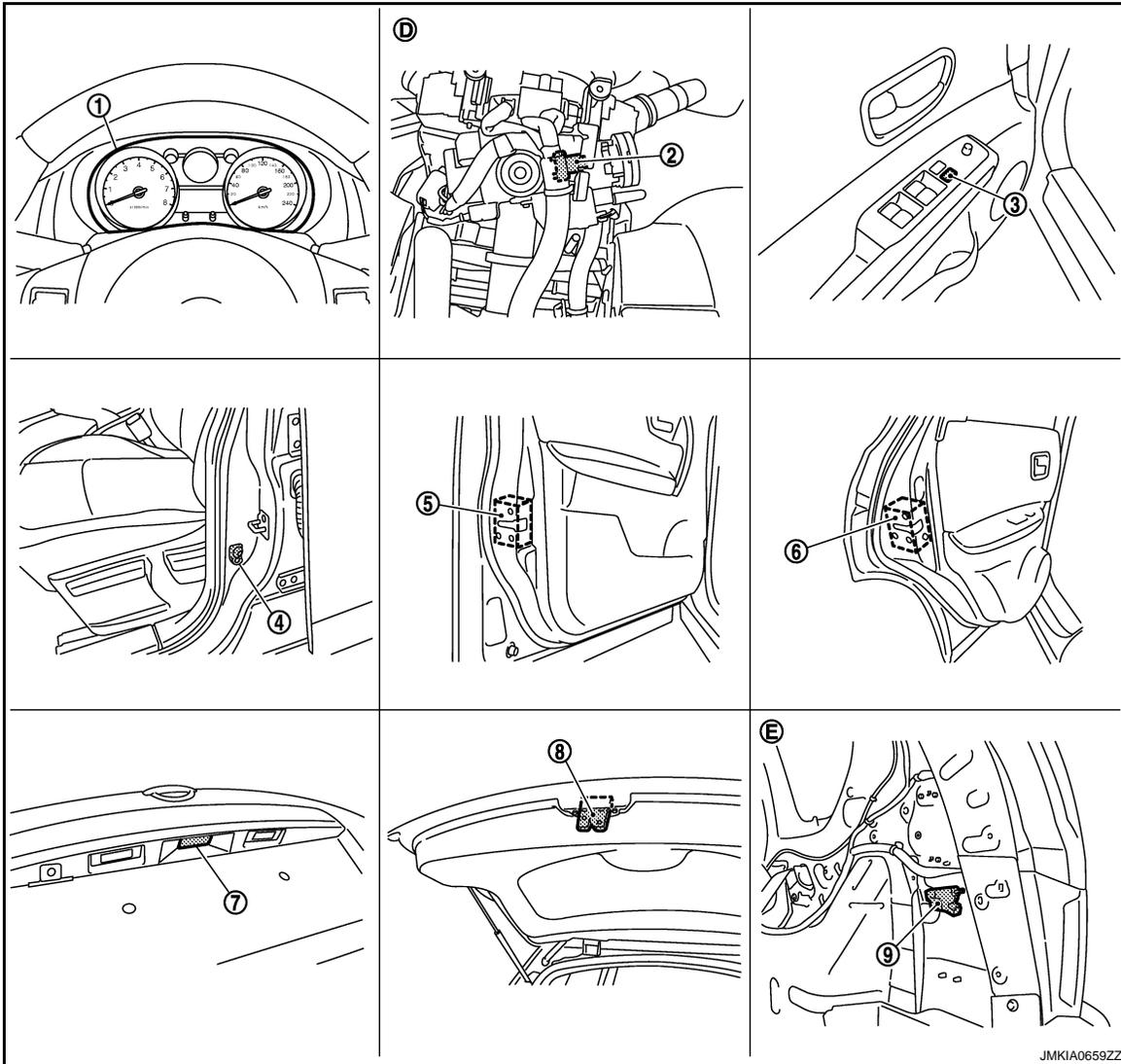


DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

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|-------------------------|--|---|
| 1. BCM
M65, M66, M67 | 2. Passenger side anti-hijack relay
M90 | 3. Air bag diagnosis sensor unit
M59 |
| A. Over the glove box | B. View with fuse box lid removed | C. View with center console removed |



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|--|--|---|
| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Power window main switch (Door lock and unlock switch) D5,D6 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D9 | 6. Rear door lock actuator LH
D85 |
| 7. Back door opener switch assembly (opener switch) D186 | 8. Back door lock assembly D190 | 9. Fuel lid opener actuator B58 |
| D. View with steering column cover removed | E. View with luggage side lower finisher (RH) removed. | |

VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Description

INFOID:000000001281048

Item	Function
BCM	Controls the door lock function.
Combination meter	Transmits vehicle speed signal to BCM via CAN communication.
Door lock actuator	Receives door lock and unlock signal from BCM and locks and unlocks each door.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

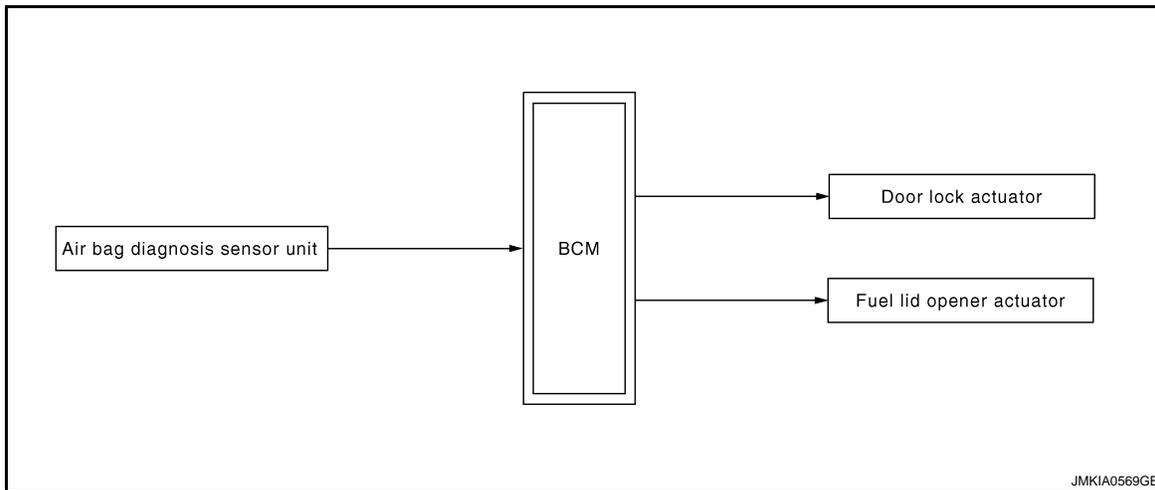
[WITHOUT I-KEY & SUPER LOCK]

AIR BAG INTERLOCK UNLOCK

AIR BAG INTERLOCK UNLOCK : System Diagram

INFOID:000000001281049

AIR BAG INTERLOCK UNLOCK OPERATION



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AIR BAG INTERLOCK UNLOCK : System Description

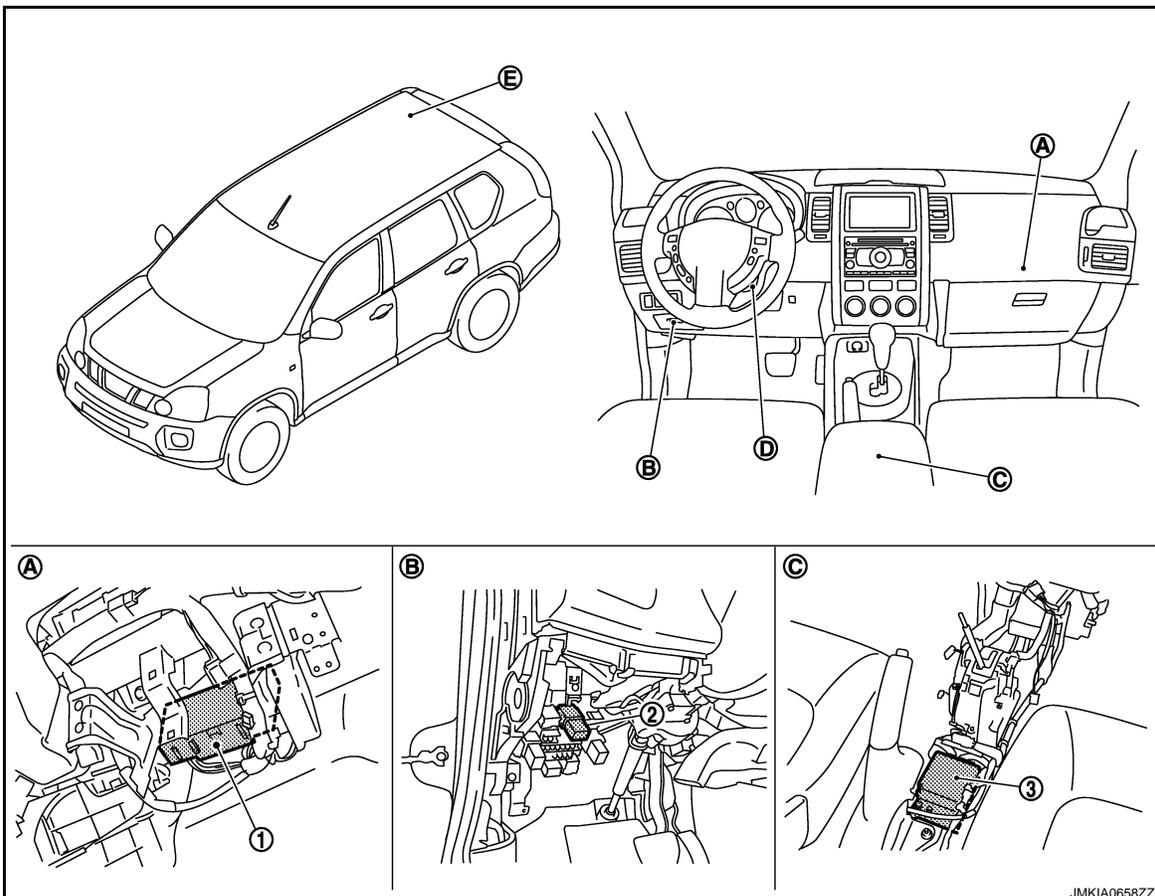
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AIR BAG INTERLOCK UNLOCK OPERATION

When ignition switch is ON and BCM receive air bag deployment signal, it operates automatically to unlock all doors. Air bag diagnosis sensor unit sends the air bag deployment signal to BCM.

AIR BAG INTERLOCK UNLOCK : Component Parts Location

INFOID:0000000012814635



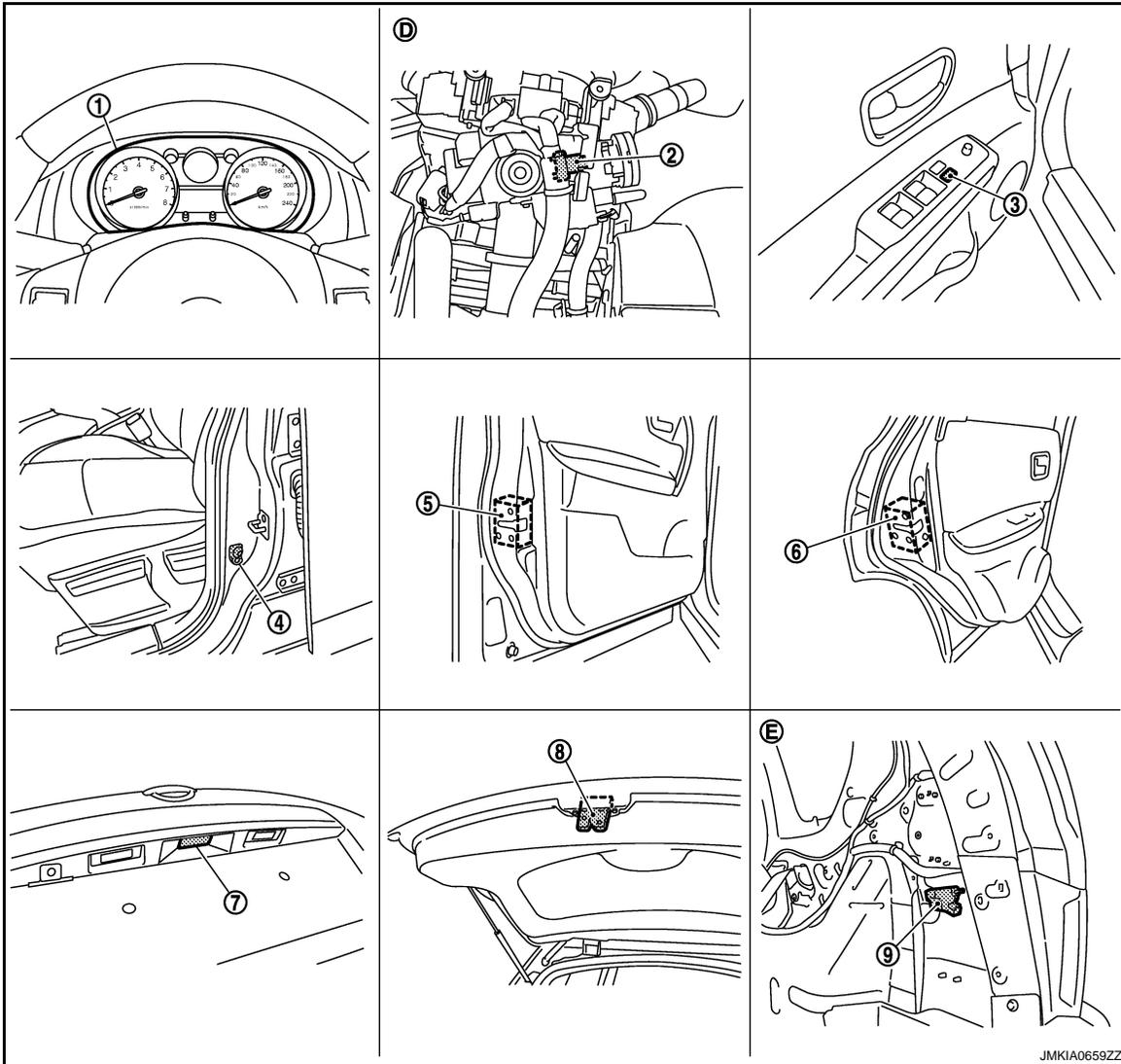
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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

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|-------------------------|--|---|
| 1. BCM
M65, M66, M67 | 2. Passenger side anti-hijack relay
M90 | 3. Air bag diagnosis sensor unit
M59 |
| A. Over the glove box | B. View with fuse box lid removed | C. View with center console removed |



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|--|--|---|
| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Power window main switch (Door lock and unlock switch) D5,D6 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D9 | 6. Rear door lock actuator LH
D85 |
| 7. Back door opener switch assembly (opener switch) D186 | 8. Back door lock assembly D190 | 9. Fuel lid opener actuator B58 |
| D. View with steering column cover removed | E. View with luggage side lower finisher (RH) removed. | |

AIR BAG INTERLOCK UNLOCK : Component Description

INFOID:000000001281052

Item	Function
BCM	Controls the door lock function.
Air bag diagnosis sensor unit	Transmits air bag deployment signal to BCM.
Door lock actuator	Receives door lock and unlock signal from BCM and lock and unlock each door.

BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

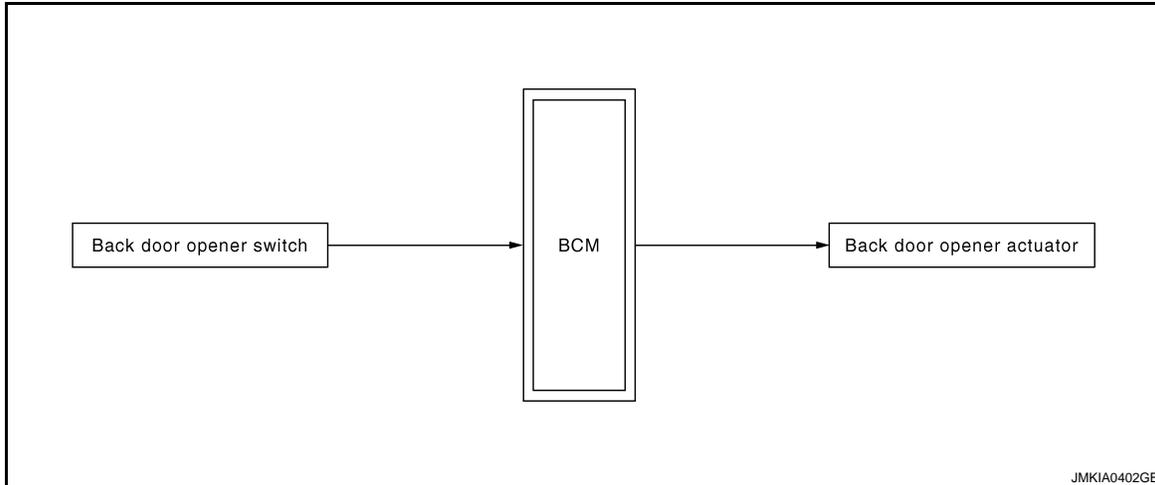
BACK DOOR OPENER FUNCTION

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : System Diagram

INFOID:000000001281053

BACK DOOR OPENER OPERATION



BACK DOOR OPENER SWITCH : System Description

INFOID:000000001281054

BACK DOOR OPENER OPERATION

When back door opener switch is pressed, BCM opens back door opener actuator.

NOTE:

Back door opener actuator is not for locking the back door. The function is only to open the back door.

OPERATION CONDITION

If the following conditions are not satisfied, back door opener operation is not performed.

Back door opener switch operation	Operation condition
Back door open	<ul style="list-style-type: none">• Vehicle speed is less than 5 km/h (3 MPH).• All doors are unlocked.

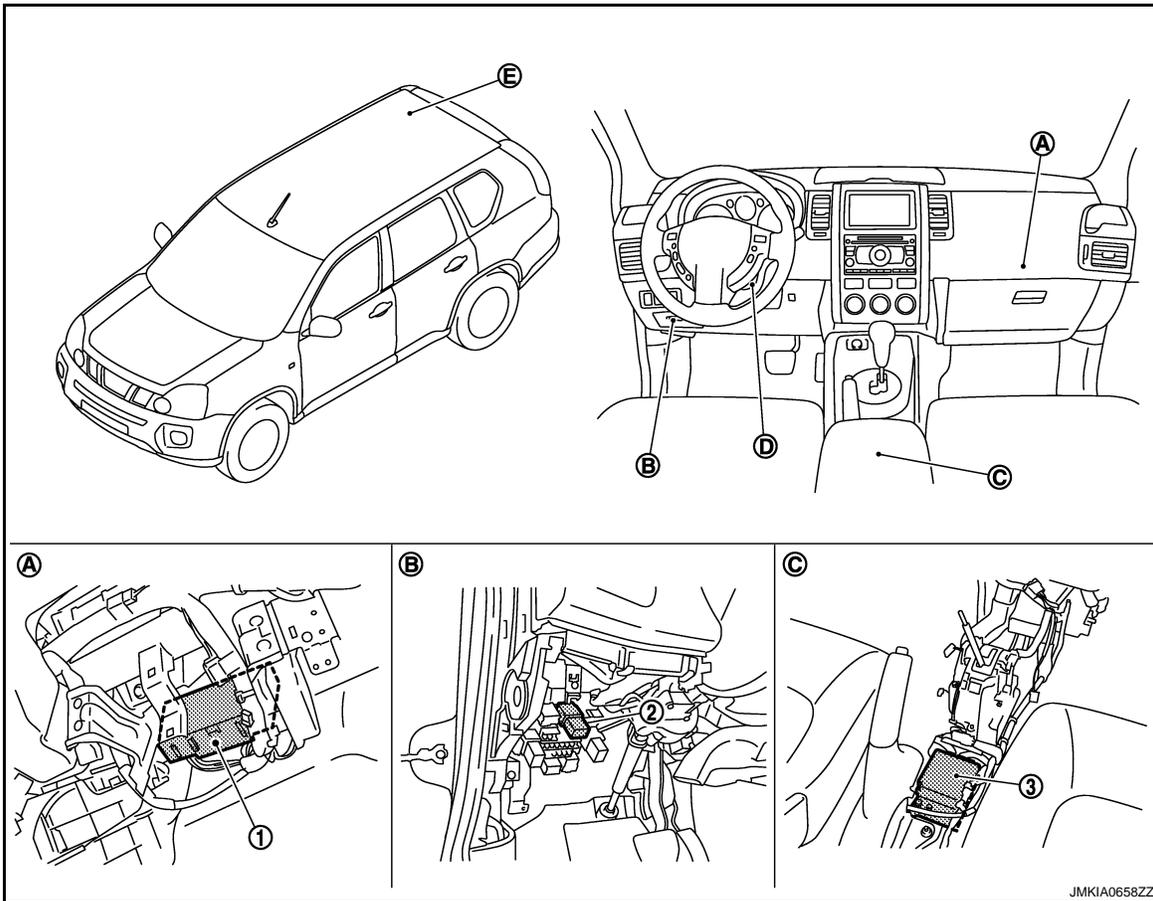
BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH : Component Parts Location

INFOID:000000001394636



- 1. BCM
M65, M66, M67
- A. Over the glove box

- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 3. Air bag diagnosis sensor unit
M59
- C. View with center console removed

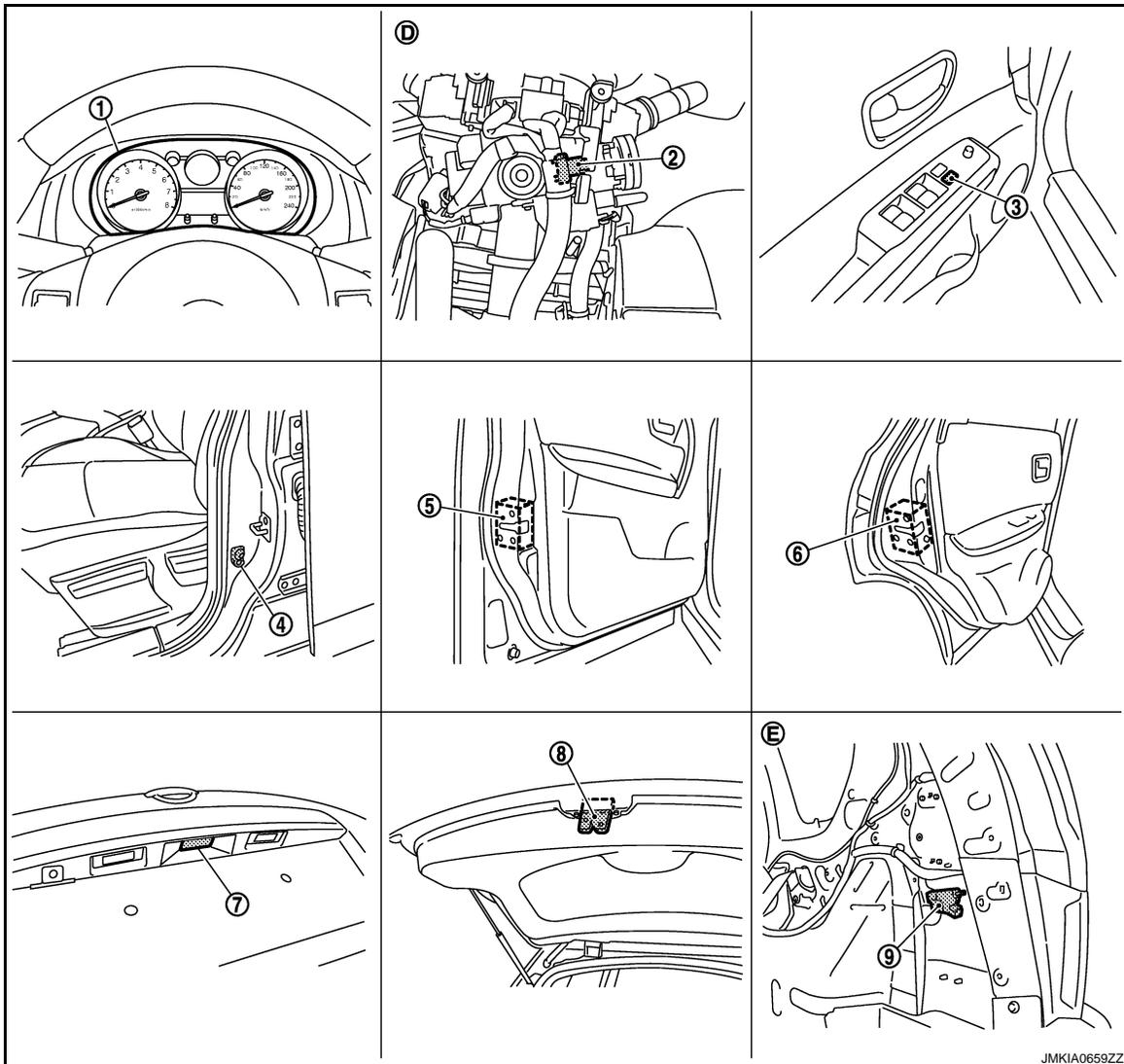
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BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]



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| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Power window main switch (Door lock and unlock switch) D5,D6 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D9 | 6. Rear door lock actuator LH
D85 |
| 7. Back door opener switch assembly (opener switch) D186 | 8. Back door lock assembly D190 | 9. Fuel lid opener actuator B58 |
| D. View with steering column cover removed | E. View with luggage side lower finisher (RH) removed. | |

BACK DOOR OPENER SWITCH : Component Description

INFOID:000000001281056

Item	Function
BCM	Controls the back door opener function.
Back door opener switch	Transmits back door opener switch operation signal to BCM.
Back door opener actuator	Opens the back door with the back door open signal from BCM.
Combination meter	Transmits vehicle speed signal to BCM via CAN communication.

WARNING FUNCTION

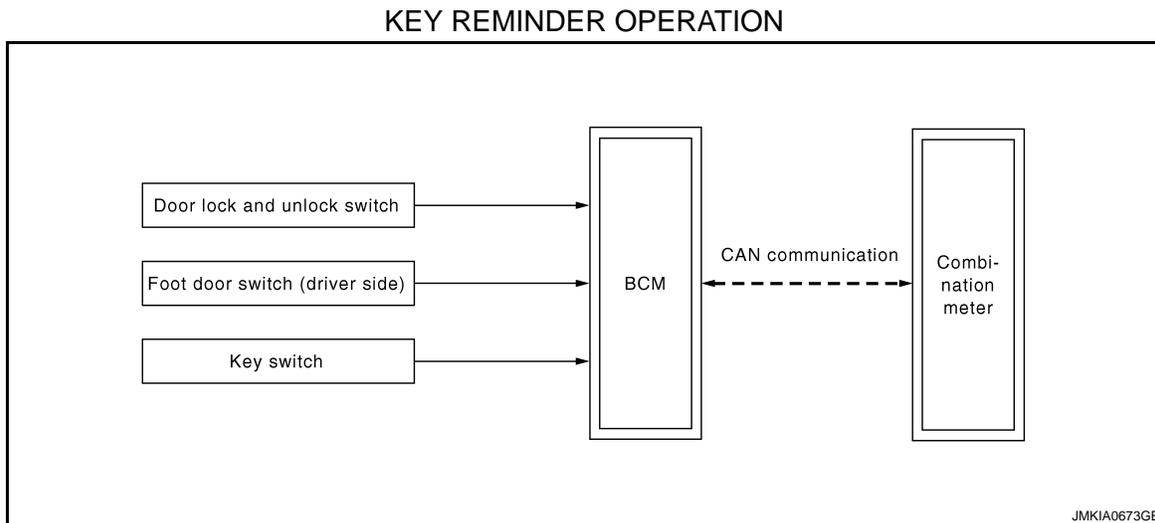
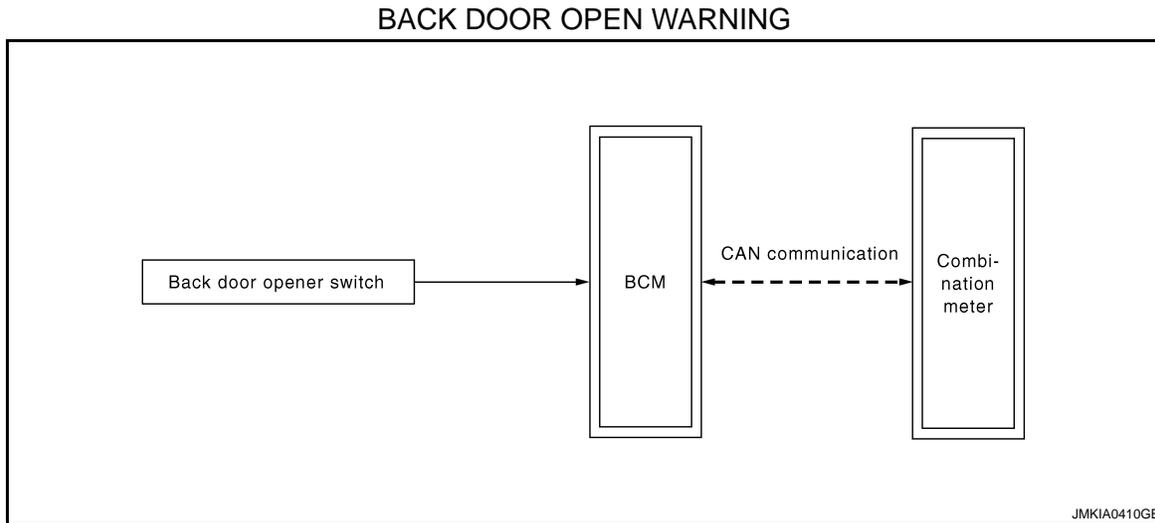
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

WARNING FUNCTION

System Diagram

INFOID:000000001281057



System Description

INFOID:000000001281058

BACK DOOR OPEN WARNING OPERATION

Back door opener switch is operated, when door lock is locked with door lock and unlock switch, by speed sensing lock or when only the driver side is unlocked by the anti-hijack function, the buzzer (built in combination meter) will sound.

KEY REMINDER OPERATION

- The buzzer (combination meter) will sound and the doors will not lock if the door lock and unlock switch is pressed while the driver door is open and mechanical key is inserted ignition key cylinder.
- The buzzer (combination meter) will sound and the doors will not lock if the door lock and unlock switch is pressed while any door other than the driver door is open.

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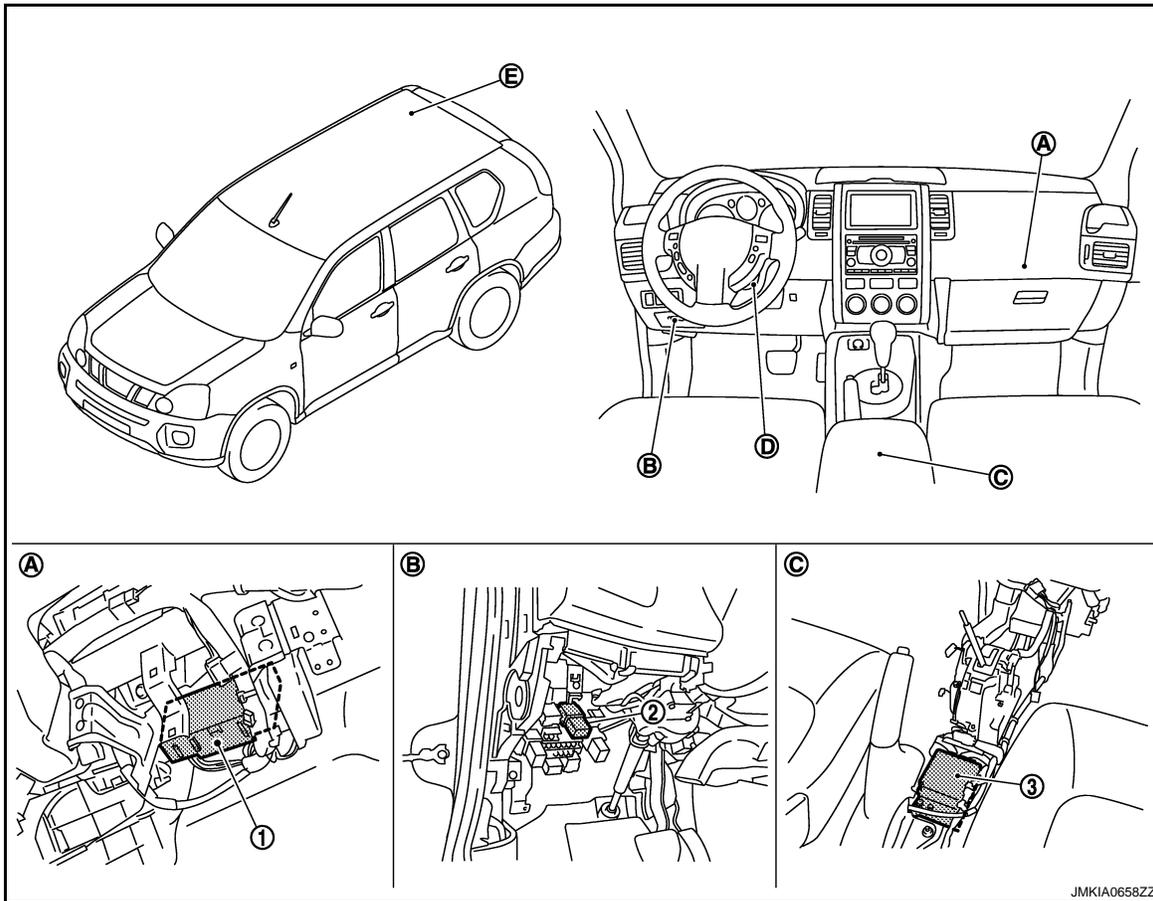
WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Component Parts Location

INFOID:000000001394638



1. BCM
M65, M66, M67
A. Over the glove box

2. Passenger side anti-hijack relay
M90
B. View with fuse box lid removed

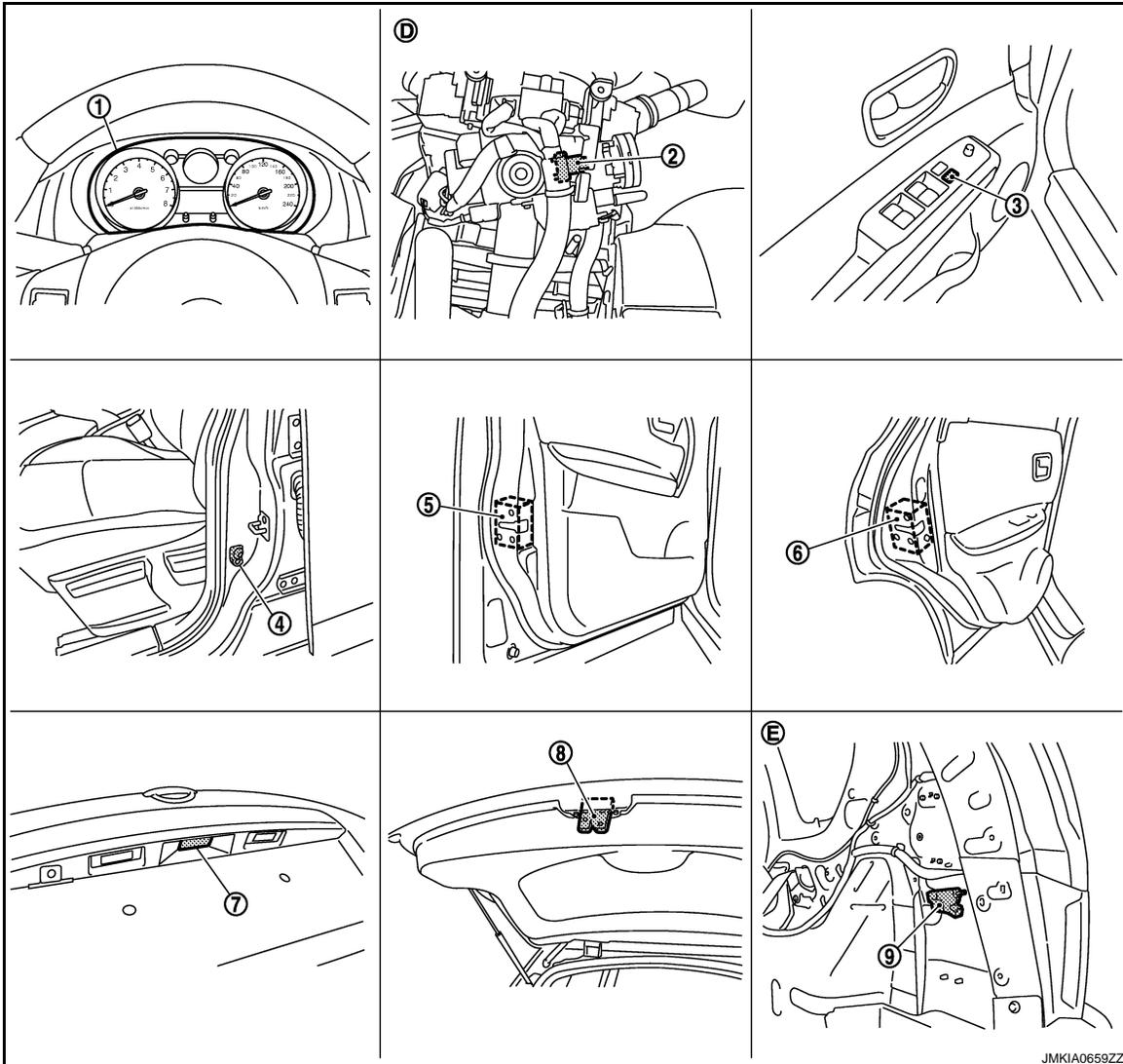
3. Air bag diagnosis sensor unit
M59
C. View with center console removed

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WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]



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|--|--|---|
| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Power window main switch (Door lock and unlock switch) D5,D6 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D9 | 6. Rear door lock actuator LH
D85 |
| 7. Back door opener switch assembly (opener switch) D186 | 8. Back door lock assembly D190 | 9. Fuel lid opener actuator B58 |
| D. View with steering column cover removed | E. View with luggage side lower finisher (RH) removed. | |

Component Description

INFOID:000000001281060

Item	Function
BCM	Controls the warning function.
Combination meter	Sounds the buzzer by the request signal from BCM via CAN communication.
Back door opener switch	Transmit back door open signal to BCM

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HAZARD REMINDER FUNCTION

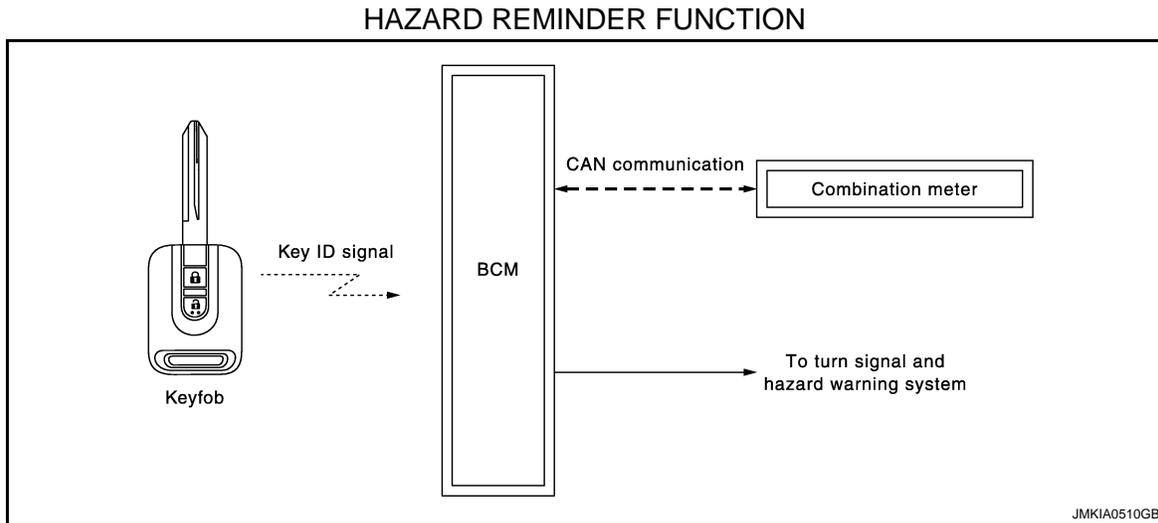
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

HAZARD REMINDER FUNCTION

System Diagram

INFOID:000000001281061



System Description

INFOID:000000001281062

HAZARD REMINDER OPERATION

When door is locked or unlocked by keyfob, then BCM flashes hazard warning lamp as a reminder.

NOTE:

Hazard reminder mode can be changed with CONSULT-III. Refer to [DLK-625, "MULTIREMOTE ENT : CONSULT-III Function \(BCM - MULTIREMOTE ENT\)"](#).

Hazard reminder setting (With CONSULT-III)		Door lock operation (with keyfob)	Hazard warning lamp flash
HAZARD LAMP SET	MODE 1	—	—
	MODE 2	Lock	Once
		Unlock	—
	MODE 3	Lock	—
		Unlock	Twice
	MODE 4	Lock	Once
		Unlock	Twice

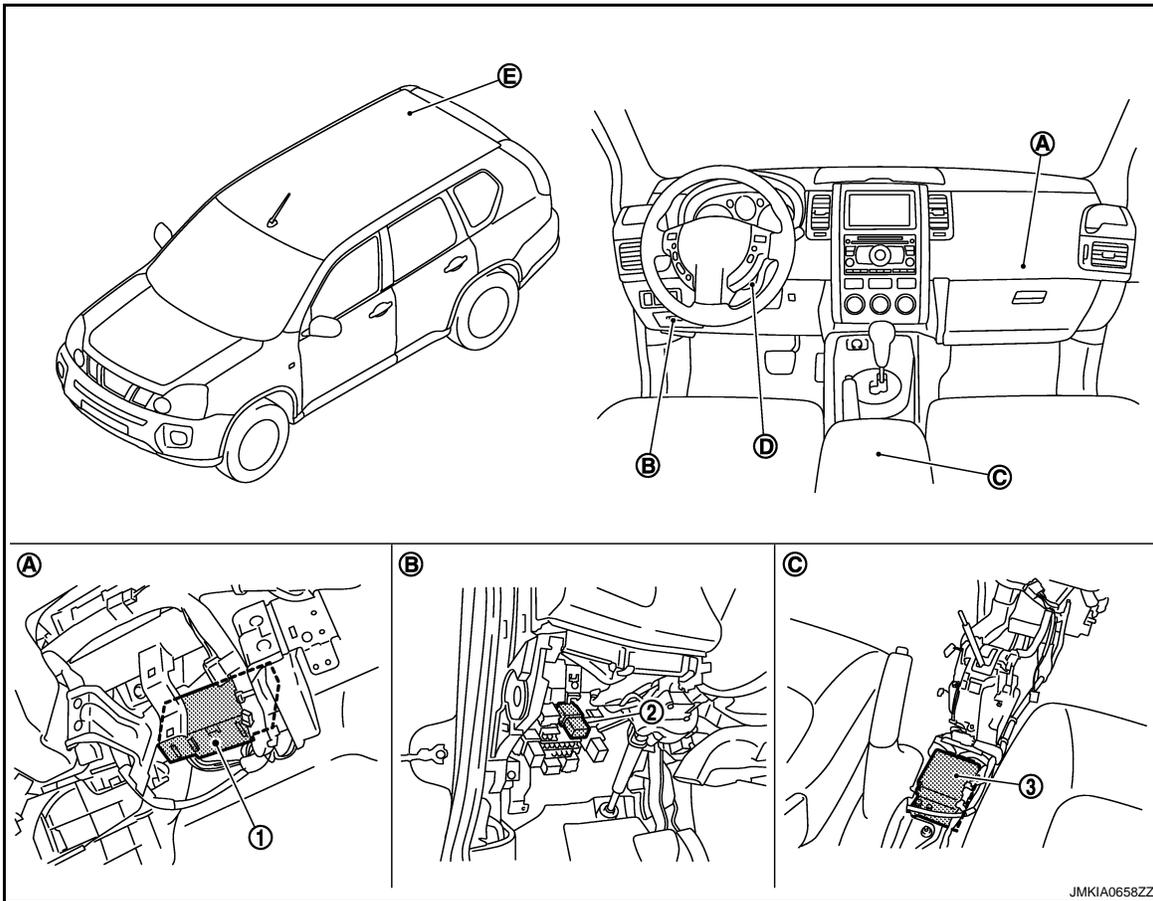
HAZARD REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Component Parts Location

INFOID:000000001394640



- 1. BCM
M65, M66, M67
- A. Over the glove box

- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 3. Air bag diagnosis sensor unit
M59
- C. View with center console removed

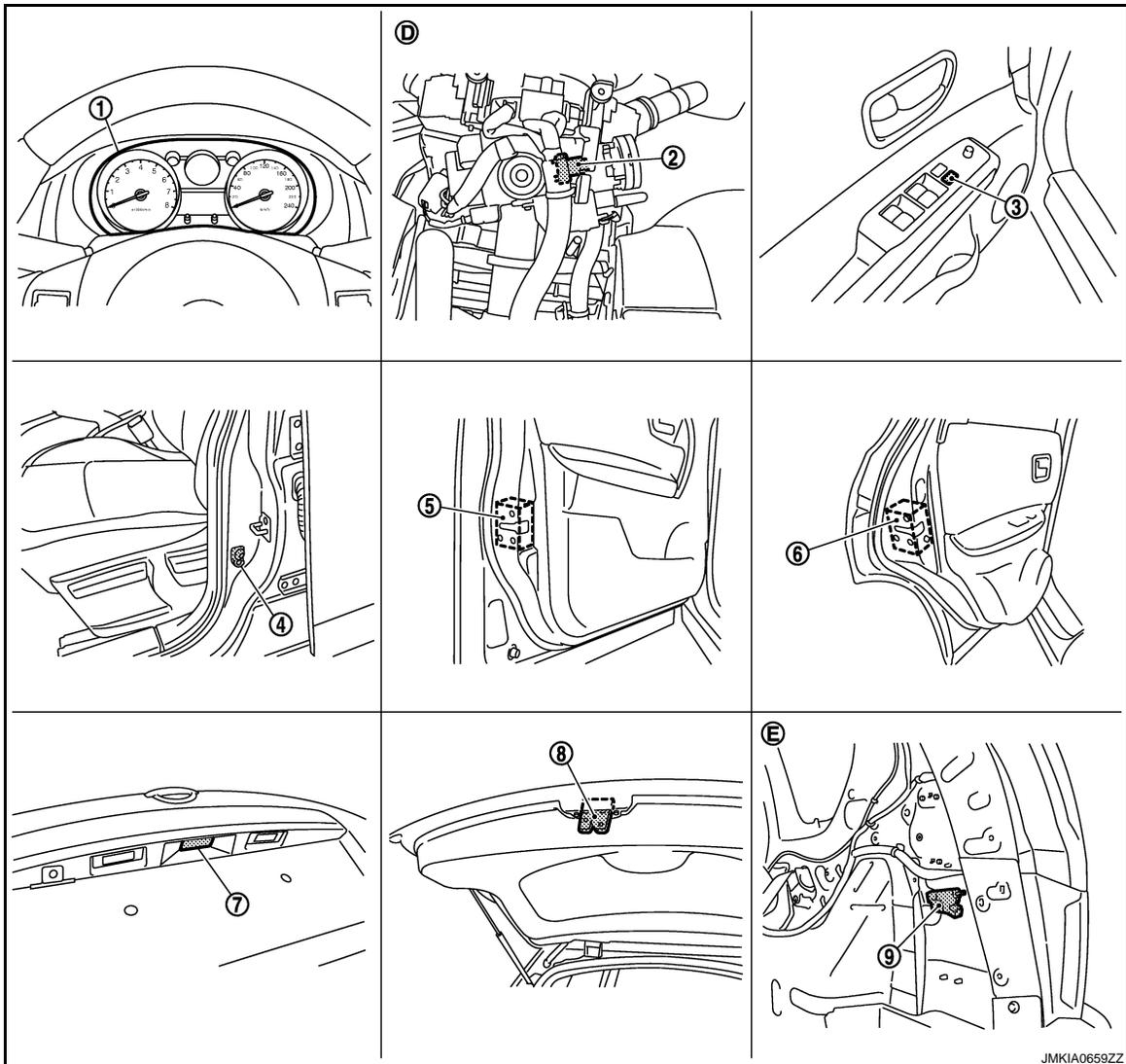
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HAZARD REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]



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|--|--|---|
| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Power window main switch (Door lock and unlock switch) D5,D6 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D9 | 6. Rear door lock actuator LH
D85 |
| 7. Back door opener switch assembly (opener switch) D186 | 8. Back door lock assembly D190 | 9. Fuel lid opener actuator B58 |
| D. View with steering column cover removed | E. View with luggage side lower finisher (RH) removed. | |

Component Description

INFOID:000000001281064

Item	Function
BCM	Controls the hazard reminder system.
Combination meter	Turns ON the turn signal indicator (built in combination meter) by the request from BCM via CAN communication.
Keyfob	Transmits key ID to BCM when lock and unlock button is pressed.

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)

INFOID:000000001569652

APPLICATION ITEM

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description
ECU Identification	BCM part number is displayed.
Self-Diagnostic Results	Displays the diagnosis results judged by BCM. Refer to DLK-691, "DTC Index" .
Data Monitor	BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Changes the setting for each system function.
Configuration	<ul style="list-style-type: none"> Read and save the vehicle specification. Write the vehicle specification when replacing BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

System	CONSULT-III sub system selection item	Diagnosis mode		
		WORK SUPPORT	DATA MONITOR	ACTIVE TEST
—	BCM	×		
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER	×	×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
—	PTC HEATER*			

*: This item is displayed, but is not function.

DOOR LOCK

DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)

INFOID:000000001281066

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

DLK-623

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
PUSH SW*1	Indicates [ON/OFF] condition of ignition knob switch.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.
KEYLESS LOCK*2	Indicates [ON/OFF] condition of lock signal from key fob.
KEYLESS UNLOCK*2	Indicates [ON/OFF] condition of unlock signal from key fob.
I-KEY LOCK*1	Indicates [ON/OFF] condition of lock signal from Intelligent Key.
I-KEY UNLOCK*1	Indicates [ON/OFF] condition of unlock signal from Intelligent Key.
UNLOCK WITH DR	This item is indicated, but not monitored.
UNLOCK SHOCK	Indicates [ON/OFF] condition of signal from air bag diagnosis unit. <ul style="list-style-type: none"> • ON: During the unlock operation interlock with air bag. • OFF: Other than above.
SHOCK SENSOR	Indicates [NORMAL/ON/OFF] condition of circuit between BCM and air bag diagnosis sensor unit. <ul style="list-style-type: none"> • NORMAL: Ignition switch ON. (BCM is receiving normal condition signal from air bag diagnosis sensor unit.) • ON: During the receiving of air bag deployment signal from air bag diagnosis sensor unit. • OFF: After the receiving of air bag deployment signal from air bag diagnosis sensor unit.
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h].

*1: For the Intelligent key equipped vehicle.

*2: For the multi remote control system equipped vehicle.

ACTIVE TEST

Test item	Description
SUPER LOCK*1	This test is able to check super lock operation [LOCK (SET)/UNLOCK (RELEASE)].
DOOR LOCK IND	This test is able to check door lock indicator (built in door lock and unlock switch on center console) operation [ON/OFF].
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLOCK/DR UNLOCK/OTHER UNLOCK].

*1 For the super lock equipped vehicle.

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Test item	Description
SECURITY DOOR LOCK SET	Anti hijack function mode can be changed in this mode. <ul style="list-style-type: none">• ON: Anti hijack mode is active.• OFF: Anti hijack mode is inactive.

MULTIREMOTE ENT

MULTIREMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)

INFOID:000000001281067

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
KEYLESS LOCK	Indicates [ON/OFF] condition of lock signal from key fob.
KEYLESS UNLOCK	Indicates [ON/OFF] condition of unlock signal from key fob.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
RKE LOCK AND UNLOCK	This item is indicated, but not monitored.
MEMORY 1	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 2	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 3	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 4	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 5	Indicates [ON/OFF] condition of remote controller ID code registration.

ACTIVE TEST

Test item	Description
DOOR LOCK	This test is able to check warning chime in combination meter operation. [ALL LOCK/ALL UNLOCK/DR UNLOCK/OTHER UNLOCK]
INT LAMP	This test is able to check interior lamp operation [ON/OFF].
FLASHER	This test is able to check flasher operation [LH/RH/OFF].

WORK SUPPORT

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Test item	Description
HAZARD LAMP SET	Answer back function (hazard) mode can be changed in this mode. For the detail of the setting, refer to DLK-620. "System Description" .
AUTO LOCK SET	Auto door lock time can be changed in this mode. <ul style="list-style-type: none">• MODE 1: 1 minute• MODE 2: 2 minutes• MODE 3: 3 minutes• MODE 4: 4 minutes• MODE 5: 5 minutes

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK)

INFOID:000000001281068

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from Intelligent Key unit.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
PUSH SW ^{*1}	Indicates [ON/OFF] condition of ignition knob switch.
TRNK OPNR SW	Indicates [ON/OFF] condition of back door opener switch.
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h].

*1: For the Intelligent key equipped vehicle.

*2: For the remote keyless entry system equipped vehicle.

ACTIVE TEST

Test item	Description
TRUNK/GLASS HATCH	This test is able to check back door opener operation [ON/OFF].

U1000 CAN COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000001298310

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart, refer to [LAN-25, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001298311

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	In CAN communication system, any item (or items) of the following listed below is malfunctioning. <ul style="list-style-type: none">• Transmission• Receiving (IPDM E/R)• Receiving (ECM)• Receiving (METER/M&A)• Receiving (MULTI AV)

Diagnosis Procedure

INFOID:000000001298312

1. PERFORM SELF DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check "Self Diagnostic Result".

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to [LAN-13, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to [GI-39, "Intermittent Incident"](#).

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U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000001298313

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart, refer to [LAN-25. "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001298314

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	When detecting error during the initial diagnosis of CAN controller of BCM.	BCM

Diagnosis Procedure

INFOID:000000001298315

1. REPLACE BCM

When DTC [U1010] is detected, replace BCM.

>> Replace BCM.

Special Repair Requirement

INFOID:000000001298316

1. REQUIRED WORK WHEN REPLACING INTELLIGENT KEY UNIT

Initialize control unit. Refer to CONSULT-III operation manual NATS-IVIS/NVIS.

>> Work end.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000001298318

1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Terminal No.	Signal name	Fuse and fusible link No.
41	Battery power supply	10 (10A)
57		J (50A)
4	ACC power supply	20 (10A)

Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connectors.
3. Check voltage between BCM harness connector and ground.

Terminals		Condition	Voltage (Approx.)
(+)	(-)		
BCM		Turn ignition switch OFF	Battery voltage
Connector	Terminal		
M66	41	Ground	Battery voltage
M67	57		
M65	4		
		Turn ignition switch ACC	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	55		Exists

Does continuity exist?

YES >> BCM power supply and ground circuit are OK.

NO >> Repair harness or connector.

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DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH

Description

INFOID:000000001298319

Transmits door lock/unlock operation to BCM.

Component Function Check

INFOID:000000001298320

1. CHECK FUNCTION

With CONSULT-III

Check "CDL LOCK SW" and "CDL UNLOCK SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
CDL LOCK SW	LOCK : ON
	UNLOCK : OFF
CDL UNLOCK SW	LOCK : OFF
	UNLOCK : ON

Is the inspection result normal?

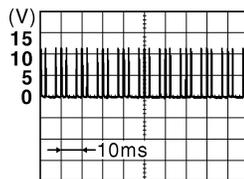
- YES >> Door lock and unlock switch is OK.
- NO >> Refer to [DLK-630, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298321

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect power window main switch (door lock and unlock switch) connector.
3. Check voltage between power window main switch (door lock and unlock switch) and ground.

Terminal (+)		Terminal (-)	Signal (Reference value)
Power window main switch (door lock and unlock switch) connector	Terminal		
D5	6	Ground	
D6	18		

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Is the inspection result normal?

- YES >> GO TO 3.
- NO >> GO TO 2.

2. CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector.
3. Check continuity between BCM connector and power window main switch (door lock and unlock switch) connector.

BCM connector	Terminal	Power window main switch (door lock and unlock switch) connector	Terminal	Continuity
M65	32	D5	6	Exists
	34	D6	18	

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	32		
	34		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

3. CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between power window main switch (door lock and unlock switch) connector and ground.

Power window main switch (door lock and unlock switch) connector	Terminal	Ground	Continuity
D6	17		

Is the inspection result normal?

YES >> GO TO 5.

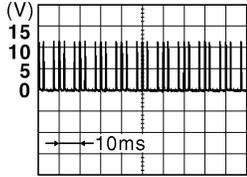
NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.

2. Check voltage between BCM connector and ground.

Terminal		Signal (Reference value)
(+)	(-)	
BCM connector	Terminal	
M65	32	
	34	



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Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 6.

5. CHECK DOOR LOCK AND UNLOCK SWITCH

Check power window main switch (door lock and unlock switch).

Refer to [DLK-631, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace power window main switch (door lock and unlock switch). Refer to [PWC-83, "Removal and Installation"](#).

6. CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001298322

1. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Power window main switch	Terminal		Condition	Continuity
D5	6	17	LOCK	Exists
D6	18		UNLOCK	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Replace power window main switch. Refer to [PWC-83, "Removal and Installation"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

DOOR SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001298496

Detects door open/closed condition.

DRIVER SIDE : Component Function Check

INFOID:000000001298497

1.CHECK FUNCTION

With CONSULT-III

Check door switches "DOOR SW-DR" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition	
DOOR SW-DR	OPEN	:ON
	CLOSE	:OFF

Is the inspection result normal?

YES >> Front door switch (driver side) is OK.

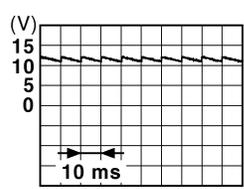
NO >> Refer to [DLK-633. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001298498

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground with oscilloscope.

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal		
M65	15	OPEN	0
		CLOSE	 <p style="text-align: right; font-size: small;">JPMIA0011GB</p>

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and front door switch (driver side) connector.
2. Check continuity between BCM harness connector and front door switch (driver side) harness connector.

BCM connector	Terminal	Front door switch (driver side) connector	Terminal	Continuity
M65	15	B34	2	Exists

3. Check continuity between BCM harness connector and ground.

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DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M65	15		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to [DLK-634, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front door switch (driver side). Refer to [DLK-292, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:000000001298499

1.CHECK DOOR SWITCH

Check front door switch (driver side).

Terminal		Door switch condition	Continuity
front door switch (driver side)			
2	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Front door switch (driver side) is OK.

NO >> Replace front door switch (driver side). Refer to [DLK-292, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001298500

Detects door open/closed condition.

PASSENGER SIDE : Component Function Check

INFOID:000000001298501

1.CHECK FUNCTION

 With CONSULT-III

Check door switches "DOOR SW-AS" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DOOR SW-AS	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

YES >> Front door switch (passenger side) is OK.

NO >> Refer to [DLK-634, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001298502

1.CHECK DOOR SWITCH INPUT SIGNAL

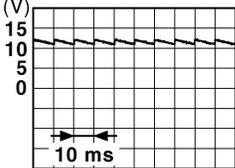
1. Turn ignition switch OFF.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

2. Check signal between BCM harness connector and ground with oscilloscope.

Terminals		(-)	Door condition	Voltage (V) (Approx.)
(+)				
BCM connector	Terminal			
M65	14	Ground	OPEN	0
			CLOSE	

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Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and front door switch (passenger side) connector.
2. Check continuity between BCM harness connector and front door switch (passenger side) harness connector.

BCM connector	Terminal	Front door switch (passenger side) connector	Terminal	Continuity
M65	14	B27	2	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	14		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Check front door switch (passenger side).

Refer to [DLK-635. "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front door switch (passenger side). Refer to [DLK-292. "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000001298503

1.CHECK DOOR SWITCH

Check front door switch (passenger side).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Terminal		Door switch condition	Continuity
Front door switch (passenger side)			
2	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Front door switch (passenger side) is OK.

NO >> Replace front door switch (passenger side). Refer to [DLK-753, "Removal and Installation"](#).

REAR LH

REAR LH : Description

INFOID:000000001298504

Detects door open/closed condition.

REAR LH : Component Function Check

INFOID:000000001298505

1.CHECK FUNCTION

With CONSULT-III

Check door switches "DOOR SW-RL" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DOOR SW-RL	OPEN :ON
	CLOSE :OFF

Is the inspection result normal?

YES >> Rear door switch LH is OK.

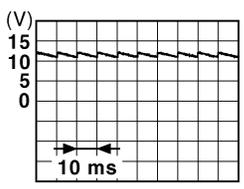
NO >> Refer to [DLK-636, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001298506

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground with oscilloscope.

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal	(-)	
M65	16	OPEN	0
		CLOSE	

JPMIA0011GB

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and rear door switch LH connector.
2. Check continuity between BCM harness connector and rear door switch LH harness connector.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BCM connector	Terminal	Rear door switch LH connector	Terminal	Continuity
M65	16	B71	2	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	16		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and rear door switch LH.

3.CHECK DOOR SWITCH

Check rear door switch LH.

Refer to [DLK-637, "REAR LH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear door switch LH. Refer to [DLK-753, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

REAR LH : Component Inspection

INFOID:000000001298507

1.CHECK DOOR SWITCH

Check rear door switch LH.

Terminal	Door switch condition	Continuity
Rear door switch LH		
2	Pressed	Exists
Ground part of door switch	Released	Does not exist

Is the inspection result normal?

YES >> Rear door switch LH is OK.

NO >> Replace rear door switch LH. Refer to [DLK-753, "Removal and Installation"](#).

REAR RH

REAR RH : Description

INFOID:000000001298508

Detects door open/close condition.

REAR RH : Component Function Check

INFOID:000000001298509

1.CHECK FUNCTION

With CONSULT-III

Check door switches "DOOR SW-RR" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DOOR SW-RR	OPEN :ON
	CLOSE :OFF

Is the inspection result normal?

YES >> Rear door switch RH is OK.

NO >> Refer to [DLK-638, "REAR RH : Diagnosis Procedure"](#).

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DLK

DOOR SWITCH

< COMPONENT DIAGNOSIS >

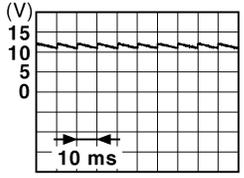
[WITHOUT I-KEY & SUPER LOCK]

REAR RH : Diagnosis Procedure

INFOID:000000001298510

1. CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM connector and ground with oscilloscope.

Terminals		Door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	12	OPEN	0
		CLOSE	

JPMIA0011GB

Is the inspection result normal?

- YES >> GO TO 4.
NO >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and rear door switch RH connector.
2. Check continuity between BCM harness connector and rear door switch RH harness connector.

BCM connector	Terminal	Rear door switch RH connector	Terminal	Continuity
M65	12	B53	2	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	12		Does not exist

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness between BCM and door switch.

3. CHECK DOOR SWITCH

Check rear door switch RH.

Refer to [DLK-638, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace rear door switch RH. Refer to [DLK-753, "Removal and Installation"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

REAR RH : Component Inspection

INFOID:000000001298511

1. CHECK DOOR SWITCH

Check rear door switch RH.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Terminal		Door switch condition	Continuity
Rear door switch RH			
2	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Rear door switch RH is OK.

NO >> Replace rear door switch RH. Refer to [DLK-290, "DOOR LOCK : Removal and Installation"](#).

BACK DOOR

BACK DOOR : Description

INFOID:000000001298512

Detects back door open condition.

BACK DOOR : Component Function Check

INFOID:000000001298513

1.CHECK FUNCTION

With CONSULT-III

Check "BACK DOOR SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
BACK DOOR SW	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

YES >> Back door lock assembly (door switch) is OK.

NO >> Refer to [DLK-639, "BACK DOOR : Diagnosis Procedure"](#).

BACK DOOR : Diagnosis Procedure

INFOID:000000001298514

1.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH) INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals		Back door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	OPEN	0
M65	13		
	Ground	CLOSE	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH) CIRCUIT

1. Disconnect BCM connector back door lock assembly connector.
2. Check continuity between BCM harness connector and back door lock assembly (door switch) harness connector.

BCM connector	Terminal	Back door lock assembly (door switch) connector	Terminal	Continuity
M65	13	D190	2	Exists

3. Check continuity between BCM connector and ground.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M65	13		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and back door lock assembly (door switch).

3.CHECK BACK DOOR LOCK ASSEMBLY GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly (door switch) connector	Terminal	Ground	Continuity
D190	3		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace back door lock assembly ground circuit.

4.CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM harness connector and ground.

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	Battery voltage
M65	13	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 6.

5.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

Check back door lock assembly (door switch).

Refer to [DLK-640, "BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door lock assembly (door switch). Refer to [DLK-290, "DOOR LOCK : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR : Component Inspection

INFOID:000000001298515

1.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

Check back door lock assembly (door switch).

Terminal		Back door condition	Continuity
Back door lock assembly (door switch)			
2	1	OPEN	Exists
		CLOSE	Does not exist

Is the inspection result normal?

YES >> Back door lock assembly (door switch) is OK.

NO >> Replace back door lock assembly. Refer to [DLK-290, "DOOR LOCK : Removal and Installation"](#).

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

KEY SWITCH

Description

INFOID:000000001298516

Key switch detects that mechanical key is inserted into the key cylinder, and then transmits the signal to BCM and Intelligent Key unit.

Component Function Check

INFOID:000000001298517

1.CHECK KEY SWITCH INPUT SIGNAL

Check key switch ("KEY ON SW") in "Data Monitor" mode with CONSULT-III. Refer to [DLK-64, "DOOR LOCK : CONSULT-III Function \(BCM - DOOR LOCK\)"](#).

Monitor item	Condition
KEY ON SW	Insert mechanical key into key cylinder : ON
	Remove mechanical key from key cylinder : OFF

Is the inspection result normal?

YES >> Key switch is OK.

NO >> Refer to [DLK-641, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298518

1.CHECK KEY SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect BCM connector.
3. Check voltage between BCM harness connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Insert mechanical key into key cylinder	Battery voltage
M65	5		Remove mechanical key from key cylinder

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK KEY SWITCH POWER SUPPLY CIRCUIT

1. Remove mechanical key from key cylinder.
2. Disconnect key switch connector.
3. Check voltage between key switch harness connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
Key switch connector	Terminal	Ground	Battery voltage
M24	2		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK KEY SWITCH SIGNAL CIRCUIT

1. Check continuity between BCM harness connector and key switch connector.

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BCM connector	Terminal	Key switch connector	Terminal	Continuity
M65	5	M24	1	Exists

2. Check continuity between ignition knob switch, key switch and key lock solenoid connector and ground.

Key switch connector	Terminal	Ground	Continuity
M24	1	Ground	Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK KEY SWITCH

Check key switch function.

Refer to [DLK-642, "Component Inspection"](#).

Is the inspection result normal?

yes >> GO TO 5.

NO >> Replace key cylinder assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#)

>> INSPECTION END

Component Inspection

INFOID:000000001298519

COMPONENT INSPECTION

1.CHECK KEY SWITCH

Check continuity between key switch terminals.

Terminal		Condition	Continuity
Key switch			
1	2	Insert mechanical key into key cylinder	Exists
		Remove mechanical key from key cylinder	Does not exist

Is the inspection result normal?

YES >> Key switch is OK.

NO >> Replace key cylinder assembly.

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001298522

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:000000001298523

1. CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The all door lock actuators are unlocked
	:DR UNLK	The door lock actuator (driver side) is unlocked
	:LOCK	The all door lock actuators are locked

Is the inspection result normal?

YES >> Front door lock actuator (driver side) is OK.

NO >> Refer to [DLK-643, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001298524

1. CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	56	Lock	0 → Battery voltage → 0
	60	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and front door lock actuator (driver side) connector.
2. Check continuity between BCM connector and front door lock actuator (driver side) connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	56	D9	1	Exists
	60		2	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist
	60		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#)

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001298526

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000001298527

1. CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The all door lock actuators are unlocked
	:AS UNLK	The door lock actuator (passenger side) is locked
	:LOCK	The all door lock actuators are locked

Is the inspection result normal?

YES >> Front door lock actuator (passenger side) is OK.

NO >> Refer to [DLK-644. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001298528

1. CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Ground	0 → Battery voltage → 0
	M67		
	54	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and front door lock actuator (passenger side) connector.
2. Check continuity between BCM connector and front door lock actuator (passenger side) connector.

BCM connector	Terminal	Front door lock actuator (passenger side) connector	Terminal	Continuity
M67	56	D48	2	Exists
	54		1	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist
	54		

DOOR LOCK ACTUATOR

[WITHOUT I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#)

>> INSPECTION END

REAR LH

REAR LH : Description

INFOID:000000001298530

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:000000001298531

1.CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The all door lock actuators are unlocked
	:LOCK	The all door lock actuators are locked

Is the inspection result normal?

- YES >> Rear door lock actuator LH is OK.
- NO >> Refer to [DLK-645. "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001298532

1.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Ground	0 → Battery voltage → 0
M67	56		
		54	Unlock

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and rear door lock actuator LH connector.
2. Check continuity between BCM connector and rear door lock actuator LH connector.

BCM connector	Terminal	Rear door lock actuator LH connector	Terminal	Continuity
M67	56	D85	1	Exists
	54		2	

3. Check continuity between BCM connector and ground.

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M67	56		Ground
	54		

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#)

>> INSPECTION END

REAR RH

REAR RH : Description

INFOID:000000001298534

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:000000001298535

1.CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item	Condition
DOOR LOCK/UNLOCK	:ALL UNLK The all door lock actuators are unlocked
	:LOCK The all door lock actuators are locked

Is the inspection result normal?

- YES >> Door lock actuator is OK.
NO >> Refer to [DLK-646. "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001298536

1.CHECK BCM OUTPUT SIGNAL

- Turn ignition switch OFF.
- Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	56	Lock	0 → Battery voltage → 0
	54	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

- YES >> GO TO 3.
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM and rear door lock actuator RH connector.
- Check continuity between BCM connector and rear door lock actuator RH connector.

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BCM connector	Terminal	Rear door lock actuator RH connector	Terminal	Continuity
M67	56	D105	2	Exists
	54		1	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist
	54		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#)

>> INSPECTION END

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BACK DOOR OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR OPENER ACTUATOR

Description

INFOID:000000001298538

Opens the back door with the signal from BCM.

Component Function Check

INFOID:000000001298539

1.CHECK FUNCTION

With CONSULT-III

Check "TRUNK/GLASS HATCH" in "Active Test" mode with CONSULT-III.

Test item	Condition
TRUNK/GLASS HATCH :OPEN	Back door opener actuator operation

Is the inspection result normal?

YES >> Back door opener actuator is OK.

NO >> Refer to [DLK-648, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298540

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals		Condition of back door opener switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Pressed	0 → Battery voltage → 0
M66	45		

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK BACK DOOR LOCK ASSEMBLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and back door lock assembly connector.
3. Check continuity between BCM harness connector and back door lock assembly harness connector.

BCM connector	Terminal	Back door lock assembly connector	Terminal	Continuity
M66	45	D190	4	Exists

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M66	45		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BACK DOOR LOCK ASSEMBLY GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly connector	Terminal	Ground	Continuity
D190	3		Exists

Is the inspection result normal?

BACK DOOR OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

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FUEL LID OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

FUEL LID OPENER ACTUATOR

Description

INFOID:000000001298542

Locks/unlocks the fuel lid with the signal from BCM.

Component Function Check

INFOID:000000001298543

1.CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The fuel lid opener actuator are unlocked
	:DR UNLK	The fuel lid opener actuator is unlocked
	:LOCK	The fuel lid opener actuator are locked

Is the inspection result normal?

- YES >> Fuel lid opener actuator is OK.
NO >> Refer to [DLK-650. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298544

1.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	56	Lock	0 → Battery voltage → 0
	60	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

- YES >> GO TO 3.
NO >> GO TO 2.

2.CHECK FUEL LID OPENER ACTUATOR CIRCUIT

1. Disconnect BCM and fuel lid opener actuator connector.
2. Check continuity between BCM connector and fuel lid opener actuator connector.

BCM connector	Terminal	Fuel lid opener actuator connector	Terminal	Continuity
M67	56	B58	2	Exists
	60		1	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist
	60		

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

FUEL LID OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Refer to [GI-39. "Intermittent Incident"](#)

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BACK DOOR OPENER SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH

Description

INFOID:000000001298546

Sends the back door opening signal to BCM.

Component Function Check

INFOID:000000001298547

1.CHECK FUNCTION

With CONSULT-III

Check "TRNK OPNR SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
TRNK OPNR SW	Back door opener switch is pressed :ON
	Back door opener switch is released :OFF

Is the inspection result normal?

YES >> Back door opener switch is OK.

NO >> Refer to [DLK-652, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298548

1.CHECK BCM INPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals		Condition of back door opener switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	29	Pressed	0
		Released	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and back door opener switch assembly (opener switch) connector.
3. Check continuity between BCM harness connector and back door opener switch assembly (opener switch) harness connector.

BCM connector	Terminal	Back door opener switch assembly (opener switch) connector	Terminal	Continuity
M65	29	D186	1	Exists

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	29		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

BACK DOOR OPENER SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	Battery voltage
M65	29	

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 6.

4.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

Check continuity between back door opener switch assembly (opener switch) connector and ground.

Back door opener switch assembly (opener switch) connector	Terminal	Ground	Continuity
D186	2		Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch assembly (opener switch).

Refer to [DLK-653, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door opener switch assembly. Refer to [DLK-754, "Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001298549

DLK

1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch assembly (opener switch).

Back door opener switch assembly (opener switch)	Terminal		Back door opener switch condition	Continuity
	1	2		
D186			Pressed	Exists
			Released	Does not exist

Is the inspection result normal?

YES >> Back door opener switch assembly (opener switch) is OK.

NO >> Replace back door opener switch assembly. Refer to [DLK-754, "Removal and Installation"](#).

BUZZER (COMBINATION METER)

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BUZZER (COMBINATION METER)

Description

INFOID:000000001298550

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:000000001298551

1.CHECK FUNCTION

With CONSULT-III

Check the operation with "INSIDE BUZZER" in "Active Test" with CONSULT-III.

Test item	Condition	
INSIDE BUZZER	:TAKE OUT	Take away warning chime sounds
	:KNOB	Ignition knob switch warning chime sounds
	:KEY	Key warning chime sounds

Is the inspection result normal?

- Yes >> Warning buzzer in combination meter is OK.
- No >> Refer to [DLK-654, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298552

1.CHECK BUZZER (COMBINATION METER) CIRCUIT

Refer to [DLK-654, "Component Function Check"](#).

Is the inspection result normal?

- Yes >> GO TO 2.
- No >> Repair or replace buzzer (combination meter) circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

HAZARD WARNING LAMPS

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

HAZARD WARNING LAMPS

Description

INFOID:000000001298553

Performs answer-back for each operation with the number of blinks.

Component Function Check

INFOID:000000001298554

1.CHECK FUNCTION

With CONSULT-III

Check hazard warning lamp "FLASHER" in "Active Test" mode with CONSULT-III.

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.

NO >> Refer to [DLK-655, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298555

1.CHECK HAZARD SWITCH CIRCUIT

Check hazard switch circuit.

Refer to [EXL-84, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace hazard warning switch circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

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VEHICLE SPEED SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

VEHICLE SPEED SIGNAL CIRCUIT

Description

INFOID:000000001298556

Displays the vehicle speed signal received from combination meter as a numerical value (km/h).

Component Function Check

INFOID:000000001298557

1.CHECK FUNCTION

Check that all doors are automatically locked at the vehicle speed of more than 25 km/h (16 MPH).

Is the inspection result normal?

- YES >> Vehicle speed signal circuit is OK.
- NO >> Refer to [DLK-656, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298558

1.CHECK VEHICLE SPEED SIGNAL CIRCUIT

Check vehicle speed signal "VEHICLE SPEED" in "Data Monitor" mode with CONSULT-III.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace vehicle speed signal circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

KEYFOB BATTERY

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

KEYFOB BATTERY

Description

INFOID:000000001281142

Remote door lock and unlock control entry function available when operating on button.

- Door lock and unlock

Component Function Check

INFOID:000000001281143

1.CHECK KEYFOB FUNCTION

Does door lock and unlock operate with operating keyfob switch?

Is the inspection result normal?

YES >> Keyfob is OK.

NO >> Refer to [DLK-657. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001281144

1.CHECK KEYFOB BATTERY

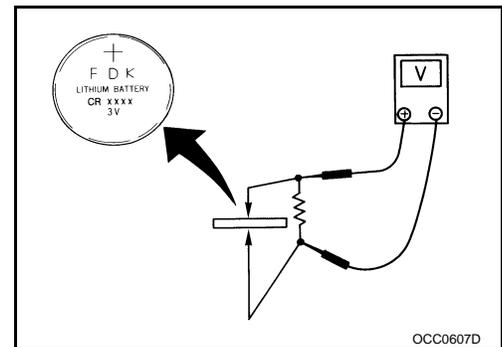
Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0V

Is the measurement value within the specification?

YES >> Replace keyfob.

NO >> Replace keyfob battery. Refer to [DLK-755. "Exploded View"](#).



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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000001551320

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
VEHICLE SPEED	While driving	Equivalent to speedometer reading
IGN ON SW	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the unlock side	On
DOOR SW-DR	Driver's door closed	Off
	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
BACK DOOR SW	Back door closed	Off
	Back door opened	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
PUSH SW	Return to ignition switch to "LOCK" position	Off
	Press ignition switch	On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
	"UNLOCK" button of key fob is pressed	On
SHOCK SENSOR	Ignition switch ON	NOMAL
	After the reception of air bag deployment signal from air bag diagnosis sensor unit	Off
	During the reception of air bag deployment signal from air bag diagnosis sensor unit	On
UNLOCK SHOCK	Other than the following	Off
	During the unlock operation interlocked with air bag	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Monitor Item	Condition	Value/Status	
UNLOCK WITH DR	NOTE: The item is indicated, but not monitored	On	A
		Off	
LOCK WITH SPEED	Vehicle speed sensing auto door lock function does not operate	Off	B
	Vehicle speed sensing auto door lock function is operating	On	
ACC ON SW	Ignition switch OFF	Off	C
	Ignition switch ACC or ON	On	
REAR DEF SW	Rear window defogger switch OFF	Off	D
	Rear window defogger switch ON	On	
TAIL LAMP SW	Lighting switch OFF	Off	E
	Lighting switch 1ST	On	
TURN SIGNAL R	Turn signal switch OFF	Off	F
	Turn signal switch RH	On	
TURN SIGNAL L	Turn signal switch OFF	Off	G
	Turn signal switch LH	On	
HI BEAM SW	Lighting switch OFF	Off	H
	Lighting switch HI	On	
HEAD LAMP SW 1	Lighting switch OFF	Off	I
	Lighting switch 2ND	On	
HEAD LAMP SW 2	Lighting switch OFF	Off	J
	Lighting switch 2ND	On	
PASSING SW	Other than lighting switch PASS	Off	K
	Lighting switch PASS	On	
AUTO LIGHT SW	Lighting switch OFF	Off	L
	Lighting switch AUTO	On	
FR FOG SW	Front fog lamp switch OFF	Off	M
	Front fog lamp switch ON	On	
RR FOG SW	Rear fog lamp switch OFF	Off	N
	Rear fog lamp switch ON	On	
ENGINE RUN	Engine stopped	Off	O
	Engine running	On	
LIT-SEN FAIL	Light & rain sensor is in normal condition	OK	P
	Light & rain sensor is with error	NOTOK	
AUT LIGHT SYS	Outside of the room is dark	On	Q
	Outside of the room is bright	Off	
HD LIGHT TIME	—	Displays a setting time of the follow me home function set by the work support	R
IGN SW CAN	Ignition switch OFF or ACC	Off	S
	Ignition switch ON	On	
FR WIPER HI	Front wiper switch OFF	Off	T
	Front wiper switch HI	On	
FR WIPER LOW	Front wiper switch OFF	Off	U
	Front wiper switch LO	On	
FR WIPER INT	Front wiper switch OFF	Off	V
	Front wiper switch INT	On	

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

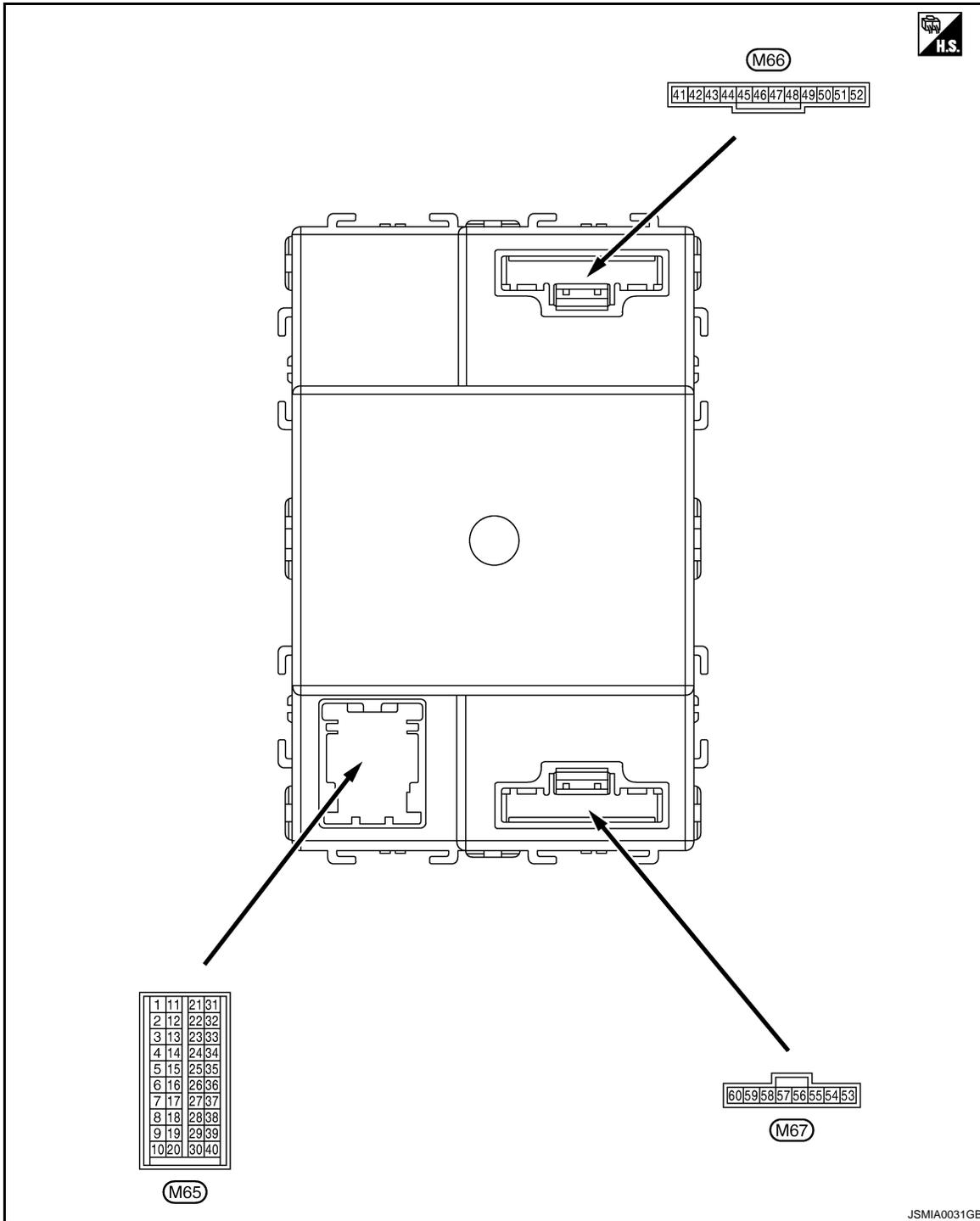
Monitor Item	Condition	Value/Status
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
FR WIPER STOP	Any position other than front wiper stop position	Off
	Front wiper stop position	On
RR WIPER ON	Rear wiper switch OFF	Off
	Rear wiper switch ON	On
RR WIPER INT	Rear wiper switch OFF	Off
	Rear wiper switch INT	On
RR WIPER STOP	Rear wiper stop position	Off
	Other than rear wiper stop position	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
REVERSE SW CAN	NOTE: The item is indicated, but not monitored	Off
		On
H/L WASH SW	When headlamp washer switch is not pressed	Off
	When headlamp washer switch is pressed	On
FAN ON SIG	Blower fan motor switch OFF	Off
	Blower fan motor switch ON (other than OFF)	On
AIR COND SW	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off
	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On
HAZARD SW	Hazard switch OFF	Off
	Hazard switch ON	On
BRAKE SW	Brake pedal is not depressed	Off
	Brake pedal is depressed	On
TRNK OPNR SW	When back door opener switch is not pressed	Off
	When back door opener switch is pressed	On
HOOD SW	Close the hood NOTE: Vehicles without theft warning system are OFF-fixed	Off
	Open the hood	On
AUTO RELOCK	Auto lock function does not operate	Off
	Auto lock function is operating	On
GLS BREAK SEN	The vehicle without glass break sensor	Off
	The vehicle with glass break sensor	On
OIL PRESS SW	<ul style="list-style-type: none"> • Ignition switch OFF or ACC • Engine running 	Off
	Ignition switch ON	On

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

TERMINAL LAYOUT



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PHYSICAL VALUES

CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to [BCS-28, "COMB SW : CONSULT-III Function \(BCM - COMB SW\)"](#).
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to [BCS-9, "System Description"](#).

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

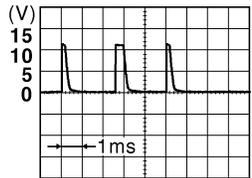
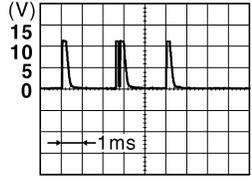
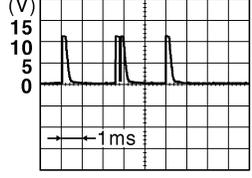
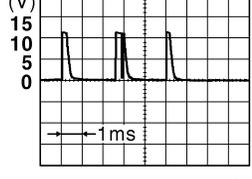
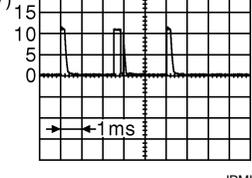
[WITHOUT I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
1 (W)	Ground	NATS antenna amp.	Input/ Output	Insert mechanical key into ignition key cylinder	Just after Insert mechanical key into ignition key cylinder. Pointer of tester should move
2 (G)	Ground	NATS antenna amp.	Input/ Output	Insert mechanical key into ignition key cylinder	Just after Insert mechanical key into ignition key cylinder. Pointer of tester should move
3 (W)	Ground	Ignition power supply	Input	Ignition switch OFF or ACC	0 V
				Ignition switch ON or START	Battery voltage
4 (SB)	Ground	ACC power supply	Input	Ignition switch OFF	0 V
				Ignition switch ON or ACC	Battery voltage
5 (LG) ^{*1} (R) ^{*2}	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder	Battery voltage
				Remove mechanical key from ignition key cylinder	0 V

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
6 (L)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.4 V</p>
					Lighting switch HI (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Lighting switch 2ND (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Rear washer switch ON	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Any of the condition below with all switch OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3  <p style="text-align: right; margin-right: 50px;">1.3 V</p>

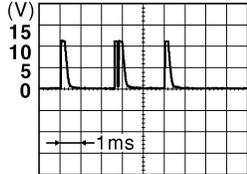
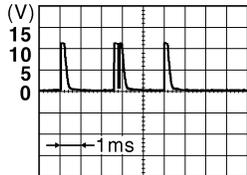
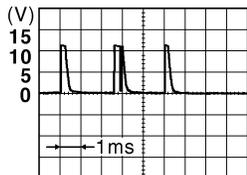
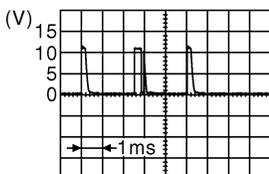
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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

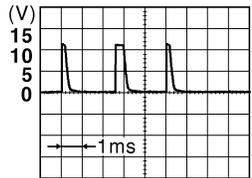
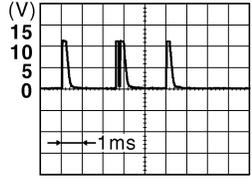
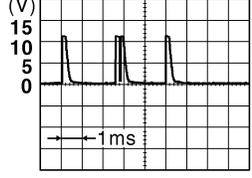
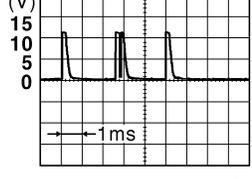
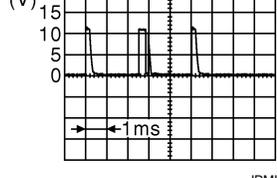
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)		
+	-	Signal name	Input/ Output				
7 (GR)	Ground	Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0165GB</p> <p style="text-align: center;">1.4 V</p>	
					Lighting switch 1ST (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0166GB</p> <p style="text-align: center;">1.3 V</p>	
					Lighting switch AUTO (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0168GB</p> <p style="text-align: center;">1.3 V</p>	
					Any of the condition below with all switch OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 6 	 <p style="text-align: right; font-size: small;">JPMIA0169GB</p> <p style="text-align: center;">1.3 V</p>
					Rear wiper INT (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0196GB</p> <p style="text-align: center;">1.3 V</p>	

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
8 (V)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	 <p style="text-align: center;">1.4 V</p>
					Turn signal switch RH	 <p style="text-align: center;">1.3 V</p>
					Turn signal switch LH	 <p style="text-align: center;">1.3 V</p>
					Front wiper switch LO	 <p style="text-align: center;">1.3 V</p>
					Front washer switch ON	 <p style="text-align: center;">1.3 V</p>

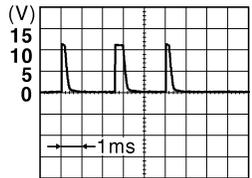
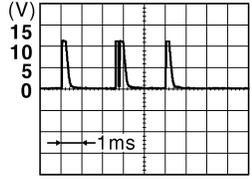
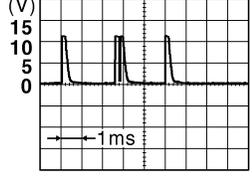
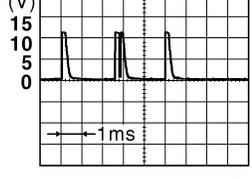
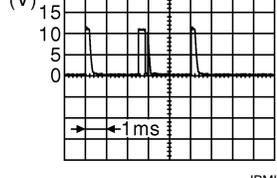
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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

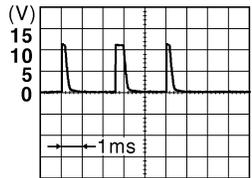
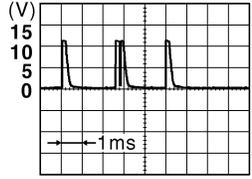
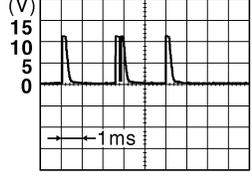
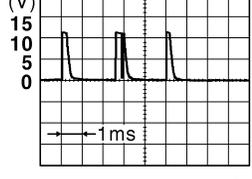
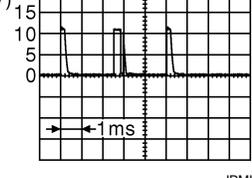
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
9 (G) ^{*3} (B) ^{*4}	Ground	Combination switch INPUT 2	Input	All switch OFF	 <p style="text-align: right; margin-right: 50px;">JPMIA0165GB 1.4 V</p>
				Lighting switch 2ND	 <p style="text-align: right; margin-right: 50px;">JPMIA0166GB 1.3 V</p>
				Lighting switch PASS	 <p style="text-align: right; margin-right: 50px;">JPMIA0167GB 1.3 V</p>
				Front wiper switch INT	 <p style="text-align: right; margin-right: 50px;">JPMIA0168GB 1.3 V</p>
				Front wiper switch HI	 <p style="text-align: right; margin-right: 50px;">JPMIA0196GB 1.3 V</p>

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
10 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0165GB</p> <p style="text-align: center;">1.3 V</p>
					Front fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0167GB</p> <p style="text-align: center;">1.3 V</p>
					Rear fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0168GB</p> <p style="text-align: center;">1.3 V</p>
					Rear wiper switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0169GB</p> <p style="text-align: center;">1.3 V</p>
					Any of the condition below with all switch OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7  <p style="text-align: right; font-size: small;">JPMIA0196GB</p> <p style="text-align: center;">1.3 V</p>
11 (B)	Ground	Audio link	Input/ Output	—	—	

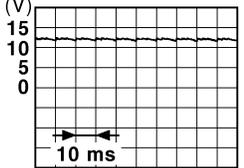
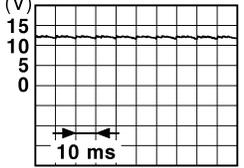
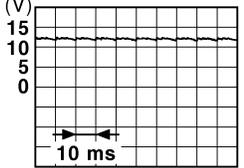
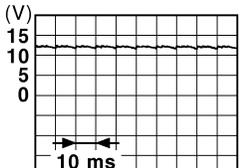
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BCM (BODY CONTROL MODULE)

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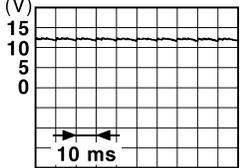
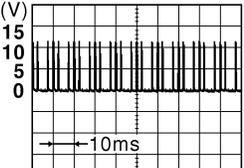
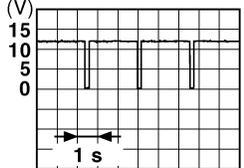
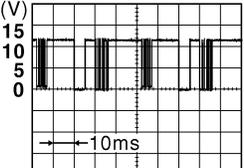
[WITHOUT I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
12 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	 <small>PKID0924E</small> 11.2 V
				Rear door switch RH	ON (When rear door RH opened)	0 V
13 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	 <small>PKID0924E</small> 11.2 V
				Back door switch	ON (When back door opened)	0 V
14 (P) ^{*3} (BR) ^{*4}	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	 <small>PKID0924E</small> 11.2 V
				Passenger door switch	ON (When passenger door opened)	0 V
15 (BR) ^{*3} (P) ^{*4}	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	 <small>PKID0924E</small> 11.2 V
				Driver door switch	ON (When driver door opened)	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
16 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)  11.2 V
				ON (When rear door LH opened)	0 V
17 (L)	Ground	Door lock status indicator	Output	Door lock status indicator	ON 12 V OFF 0 V
20 (SB)	Ground	Rear window defogger switch	Input	Rear window defogger switch	Not pressed  1.1 V
				While pressing	0 V
21 (P)	—	CAN-L	Input/ Output	—	—
22 (L)	—	CAN-H	Input/ Output	—	—
23 (V)	Ground	Security indicator	Output	Security indicator	ON 0 V Blinking  10.3 V
				OFF	12 V
24 (GR)	Ground	Light & rain sensor serial link	Input/ Output	Ignition switch OFF or ACC	12 V
				Ignition switch ON	 8.7 V
25 (G)	Ground	Alarm link	Output	—	—

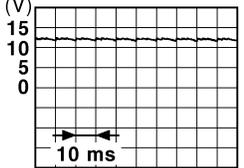
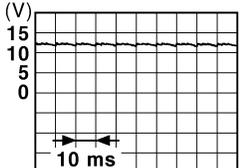
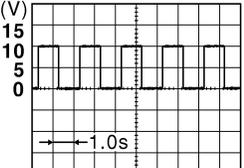
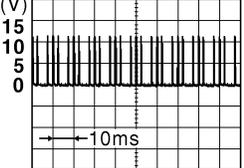
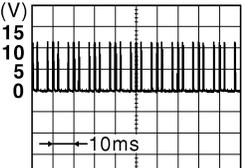
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

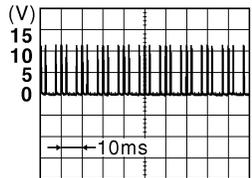
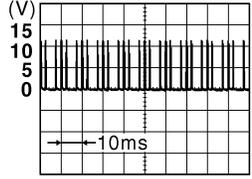
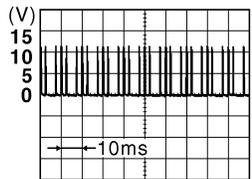
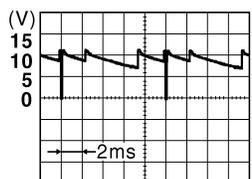
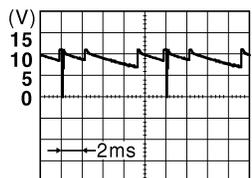
[WITHOUT I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
26 (GR) ^{*5} (LG) ^{*6}	Ground	Blower fan motor switch	Input	Blower fan mo- tor switch	OFF	 PKID0924E 11.2 V
					ON (other than OFF)	0 V
27 (P) ^{*5} (Y) ^{*6}	Ground	A/C switch	Input	Ignition switch ON	Compressor ON is not re- quested from auto amp. (A/C indicator OFF, blow- er fan motor switch OFF or etc.)	 PKID0924E 11.2 V
					Compressor ON is re- quested from auto amp. (A/C indicator ON and blower fan motor switch ON).	0 V
28 (LG) ^{*7} (R) ^{*8}	Ground	Shock detect sensor	Input	Ignition switch OFF or ACC		0 V
				Ignition switch ON		 JPMIA0155GB 6.0 V
29 (LG) ^{*3} (O) ^{*4}	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	 JPMIA0154GB 1.2 V
					Pressed	0 V
32 (BR)	Ground	Door lock/unlock switch (Unlock)	Input	Door lock/un- lock switch	Not pressed	 JPMIA0154GB 1.2 V
					Pressed to the unlock side	0 V

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
33 (W) ^{*9} (Y) ^{*10}	Ground	Hazard switch	Input	Hazard switch	OFF	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
					ON	0 V
34 (SB) ^{*3} (P) ^{*4}	Ground	Door lock/unlock switch (Lock)	Input	Door lock/un- lock switch	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
					Pressed to the lock side	0 V
35 (G)	Ground	Headlamp washer switch	Input	Headlamp washer switch	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
					Pressed to the lock side	0 V
36 (G)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Turn signal switch RH	 <p style="text-align: right; font-size: small;">JPMIA0164GB</p>
					Lighting switch 2ND	
					Lighting switch HI	
					Lighting switch 1ST	
37 (R)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0161GB</p>
					Rear washer switch ON (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF	
					<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	
Rear wiper switch ON (Wiper intermittent dial 4)						

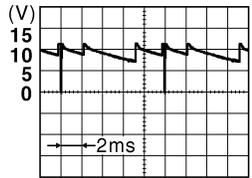
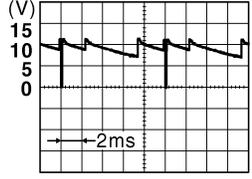
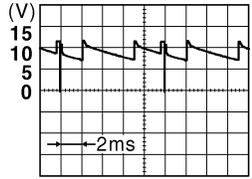
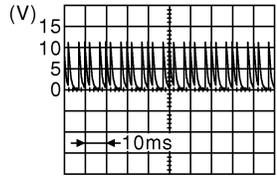
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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

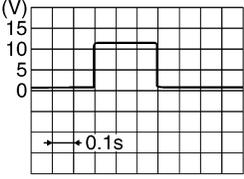
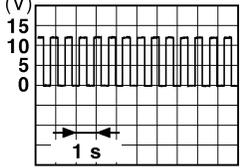
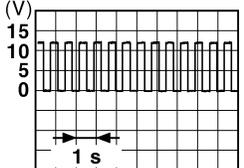
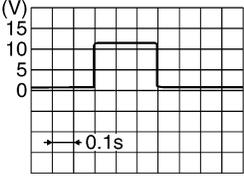
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
38 (W)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Front wiper switch LO	 <p style="text-align: right; font-size: small;">JPMA0162GB</p>
					Front wiper switch MIST	
					Front wiper switch INT	
					Lighting switch AUTO	
					Rear fog lamp switch ON	
39 (Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Turn signal switch LH	 <p style="text-align: right; font-size: small;">JPMA0163GB</p>
					Lighting switch PASS	
					Lighting switch 2ND	
					Front fog lamp switch ON	
40 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMA0160GB</p>
					Any of the condition below with all switch OFF	
					<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	
		Rear wiper switch INT (Wiper intermittent dial 4)	9.1 V			
41 (LG)	Ground	Battery power sup- ply	Input	Ignition switch OFF	Battery voltage	
42 (V)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver activation	0 V	
				Interior room lamp battery saver no activation	12 V	
43 (SB)	Ground	Rear wiper motor	Output	Rear wiper switch OFF	0 V	
				Rear wiper switch ON	12 V	
44 (B)	Ground	Rear wiper auto stop	Input	Ignition switch ON	 <p style="text-align: right; font-size: small;">JPMA0197GB</p>	
				Any position other than rear wiper stop position	0 V	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
45 (V)	Ground	Back door lock actuator	Output	Back door opener switch	Pressed	 <small>SKIA9232E</small>
				Not pressed	0 V	
47 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch OFF	0 V
				Turn signal switch LH	 <small>PKID0926E</small> 6.5 V	
48 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch OFF	0 V
				Turn signal switch RH	 <small>PKID0926E</small> 6.5 V	
49 (Y)	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V
					ON	12 V
50 (G)	Ground	Unlock sensor	Input	Driver's door	Unlock	5 V
					lock	0 V
51 (R)	Ground	Stop lamp switch	Input	Depress the brake pedal		Battery voltage
				Release the brake pedal		0 V
52 (R)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	12 V
				ON	0 V	
53 (L)	Ground	Power window power supply (IGN)	Output	Ignition switch	OFF or ACC	0 V
				ON	12 V	
54 (O)	Ground	Door unlock (All other than driver's door)	Output	Door lock/unlock switch	Pressed to the unlock side	 <small>SKIA9232E</small>
				Not pressed	0 V	
55 (B)	Ground	Ground	—	Ignition switch ON		0 V

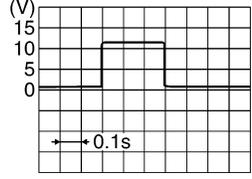
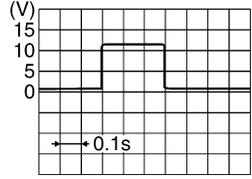
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
56 (V)	Ground	Door lock (All) and fuel lid lock	Output	Door lock/un- lock switch	Not pressed	0 V
					Pressed to the lock side	 <p style="text-align: right; font-size: small;">SKIA9232E</p>
57 (Y)	Ground	Battery power sup- ply	Input	Ignition switch OFF		Battery voltage
58 (P)	Ground	Power window pow- er supply (BAT)	Output	Ignition switch OFF		12 V
59 (R)	Ground	Super lock	Output	When lock button of key fob or Intelligent Key is not pressed		0 V
				When lock button of key fob or Intelligent Key is pressed		12 V
60 (G)	Ground	Driver's door unlock and fuel lid unlock	Output	Door lock/un- lock switch	Pressed to the unlock side	 <p style="text-align: right; font-size: small;">SKIA9232E</p>
					Not pressed	0 V

- *1: With Intelligent Key
- *2: Without Intelligent Key
- *3: RHD models
- *4: LHD models
- *5: With gasoline engine
- *6: With diesel engine
- *7: RHD models with side air bag
- *8: LHD models with side air bag
- *9: With xenon headlamp and daytime light system
- *10: Except with xenon headlamp and daytime light system

BCM (BODY CONTROL MODULE)

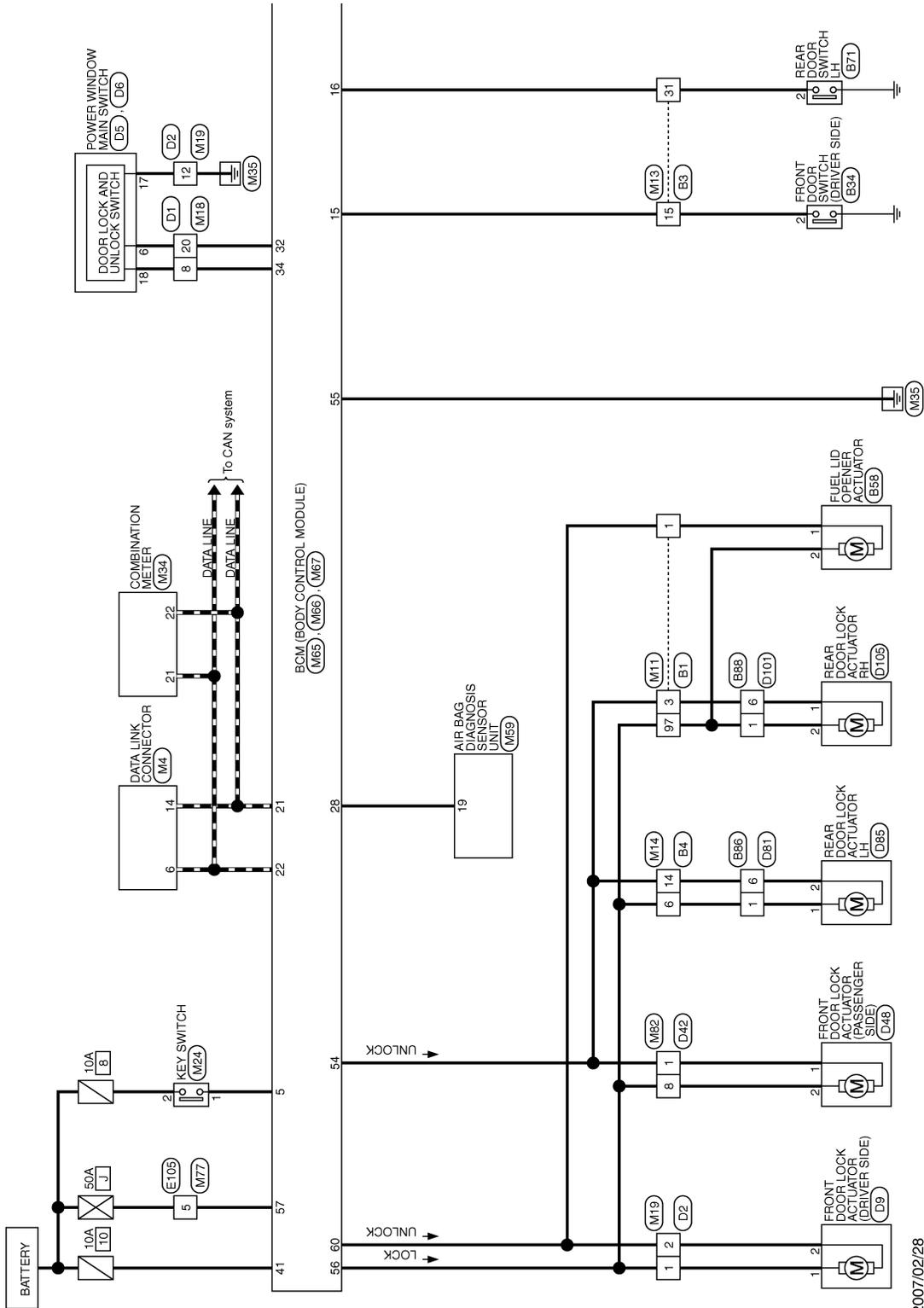
[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - POWER DOOR LOCK CONTROL SYSTEM -

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POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)



2007/02/28

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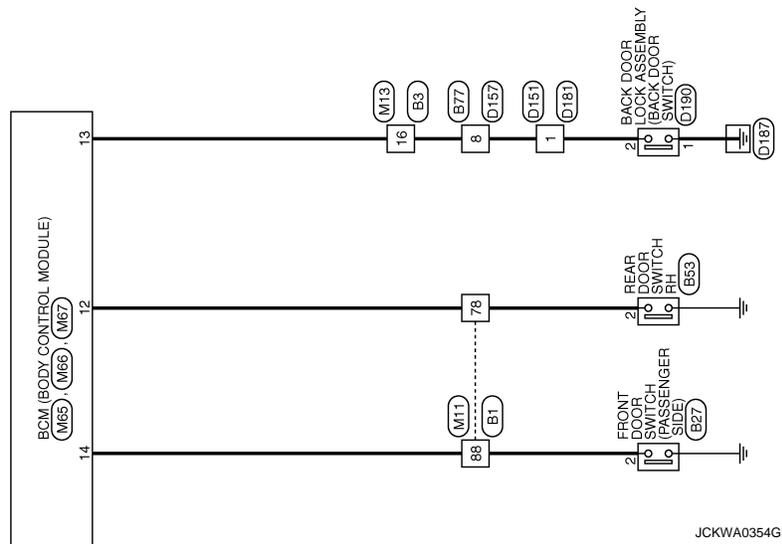
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]



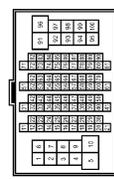
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	THROW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	O	-
78	Y	-
88	BR	-
97	V	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



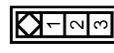
Terminal No.	Color of Wire	Signal Name [Specification]
15	P	-
16	V	-
31	GR	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS18MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	O	-

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [LHD models]

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	- [LHD models]

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



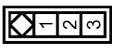
Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-

Connector No.	B58
Connector Name	FUEL LID OPENER ACTUATOR
Connector Type	M04FW-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	UNLOCK
2	V	LOCK

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-

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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



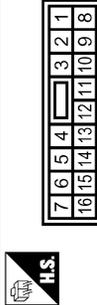
Terminal No.	8	Color of Wire	V	Signal Name [Specification]	-

Terminal No.	1	Color of Wire	V	Signal Name [Specification]	-
	6	O			

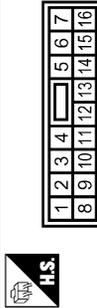
Terminal No.	1	Color of Wire	V	Signal Name [Specification]	-
	6	O			

Terminal No.	8	Color of Wire	G	Signal Name [Specification]	-
	20	BR			

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Connector No.	D9
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	E0PFGY-RS



Terminal No.	1	Color of Wire	V	Signal Name [Specification]	-
	2	G			
	12	B			

Terminal No.	6	Color of Wire	BR	Signal Name [Specification]	-
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Terminal No.	17	Color of Wire	B	Signal Name [Specification]	-
	18	G			

Terminal No.	1	Color of Wire	V	Signal Name [Specification]	-
	2	G			

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



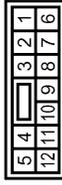
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	
8	V	

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	EOBFGY-RS



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	
2	V	

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



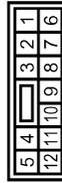
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	
6	G	

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	EOBFGY-RS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	
2	G	

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	
6	G	

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	EOBFGY-RS



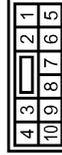
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	
2	V	

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
8	V	

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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

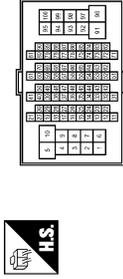
Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS32MBR-CS



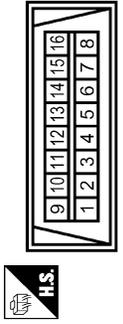
Connector No.	D180
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS34FW-CS



Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



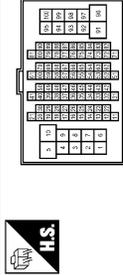
Terminal No.	1	2	3	4
Color of Wire	V	B	V	-
Signal Name [Specification]	-	-	-	-

Terminal No.	1	2
Color of Wire	B	V
Signal Name [Specification]	-	-

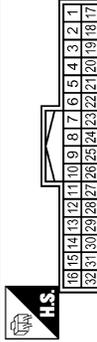
Terminal No.	5
Color of Wire	Y
Signal Name [Specification]	-

Terminal No.	6	14
Color of Wire	L	P
Signal Name [Specification]	-	-

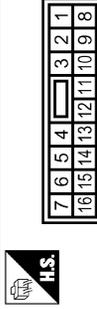
Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	1	3	78	88	97
Color of Wire	G	G	LG	BR	V
Signal Name [Specification]	-[LHD models]	-[LHD models]	-	-	-

Terminal No.	15	16	31
Color of Wire	P	V	GR
Signal Name [Specification]	-	-[LHD models]	-[LHD models]

Terminal No.	6	14
Color of Wire	V	O
Signal Name [Specification]	-	-[LHD models]

Terminal No.	8	20
Color of Wire	P	BR
Signal Name [Specification]	-	-

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



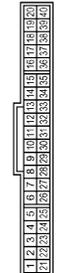

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
12	B	-

Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	TK02MBR-P




Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	Y	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW

Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M59
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TK20FY-EX-5C




Terminal No.	Color of Wire	Signal Name [Specification]
19	R	DEPLOYMENT INFORMATION(LHD models with side air bag)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAB40FE




Terminal No.	Color of Wire	Signal Name [Specification]
5	R	KEY SW(Without Intelligent Key)
12	LG	DOOR SW (GR)
13	V	DOOR SW (BACK)(LHD models)
14	BR	DOOR SW (AS)(LHD models)
15	P	DOOR SW (DR)(LHD models)
16	GR	DOOR SW (RL)(LHD models)
21	P	CAN-L
22	L	CAN-H
28	R	SHOCK DETECT SW(LHD models with side air bag)
32	BR	LOCK UNLOCK SW (UNLOCK)
34	P	LOCK UNLOCK SW (UNLOCK)(LHD models)

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12EBR



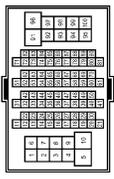

Terminal No.	Color of Wire	Signal Name [Specification]
41	LG	BAT(FUSE)

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA48FB




Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER)(LHD models)
55	B	GND
56	Y	DOOR LOCK OUTPUT (ALL)
57	Y	BAT(F/L)
80	G	DOOR UNLOCK/RELEASE OUTPUT(DRLHD models)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS16/MW-CS



Terminal No.	Color of Wire	Signal Name (Specification)
1	O	-
8	V	-

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BCM (BODY CONTROL MODULE)

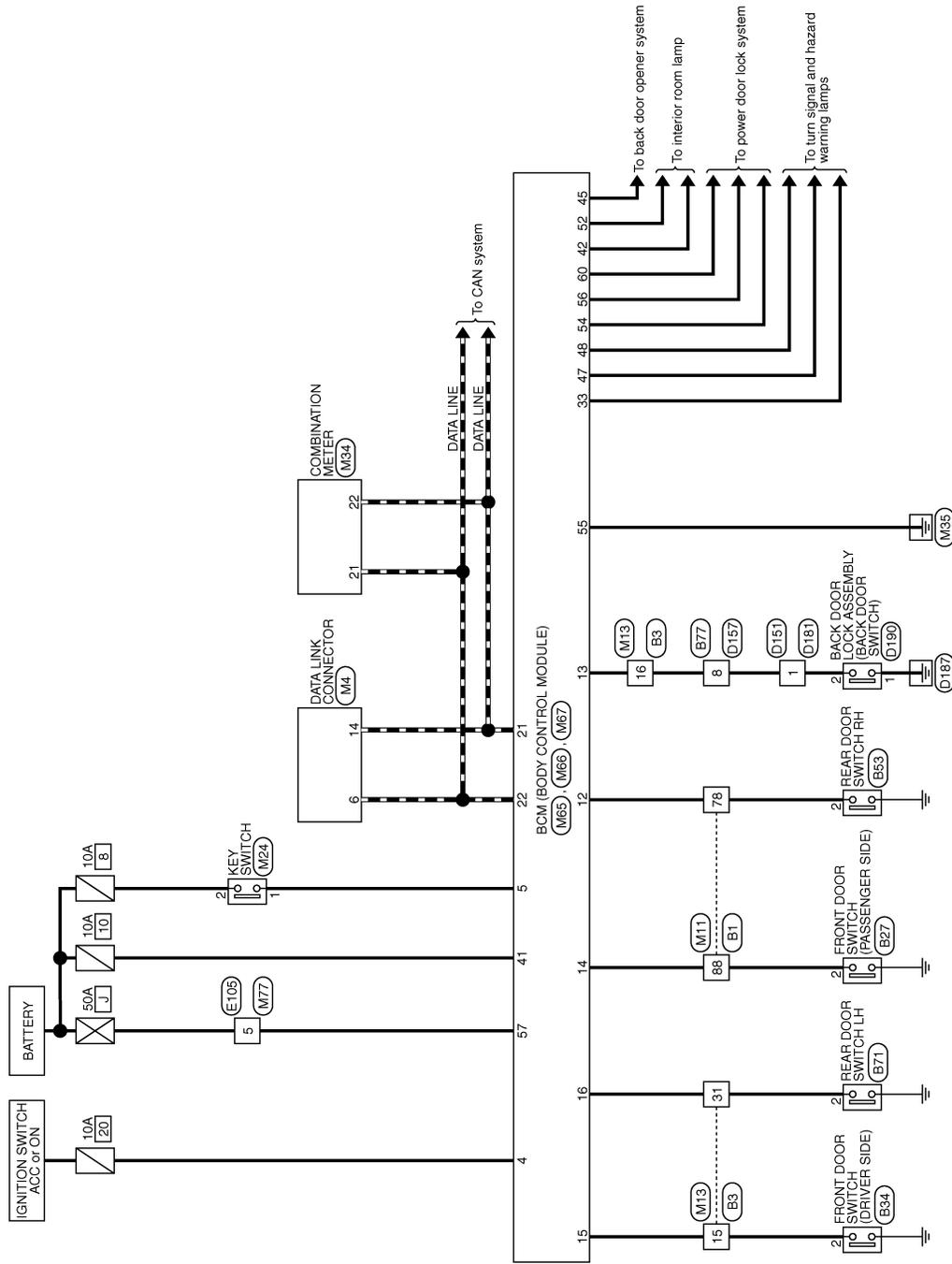
[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - REMOTE KEYLESS ENTRY CONTROL SYSTEM -

INFOID:000000001281147

REMOTE KEYLESS ENTRY SYSTEM (LHD MODELS)



2007/02/28

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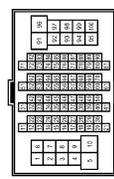
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

REMOTE KEYLESS ENTRY SYSTEM (LHD MODELS)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
78	Y	-
88	BR	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



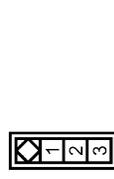
Terminal No.	Color of Wire	Signal Name [Specification]
15	P	-
16	V	-
31	GR	-

Connector No.	B7
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



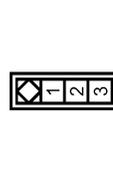
Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [LHD models]

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	- [LHD models]

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



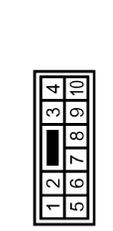
Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



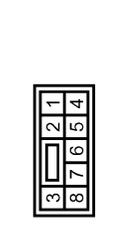
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
8	V	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FB-C5



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-

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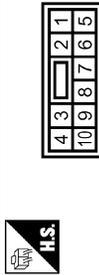
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

REMOTE KEYLESS ENTRY SYSTEM (LHD MODELS)

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



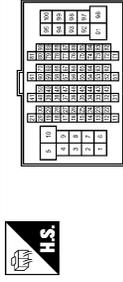
Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS30MBR-CS



Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS24FW-CS



Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



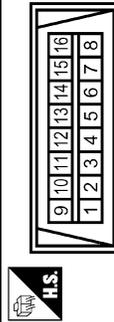
Terminal No.	8	Color of Wire	V	Signal Name [Specification]	-
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Terminal No.	1	Color of Wire	V	Signal Name [Specification]	-
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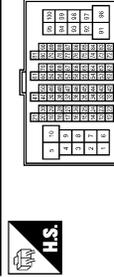
Terminal No.	1	Color of Wire	B	Signal Name [Specification]	-
Terminal No.	2	Color of Wire	V	Signal Name [Specification]	-

Terminal No.	5	Color of Wire	Y	Signal Name [Specification]	-
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Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	TK02MBR-P



Terminal No.	6	Color of Wire	L	Signal Name [Specification]	-
Terminal No.	14	Color of Wire	P	Signal Name [Specification]	-

Terminal No.	78	Color of Wire	LG	Signal Name [Specification]	-
Terminal No.	88	Color of Wire	BR	Signal Name [Specification]	-

Terminal No.	15	Color of Wire	P	Signal Name [Specification]	-
Terminal No.	16	Color of Wire	V	Signal Name [Specification]	-[LHD models]
Terminal No.	31	Color of Wire	GR	Signal Name [Specification]	-[LHD models]

Terminal No.	1	Color of Wire	R	Signal Name [Specification]	-
Terminal No.	2	Color of Wire	Y	Signal Name [Specification]	-

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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

REMOTE KEYLESS ENTRY SYSTEM (LHD MODELS)

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



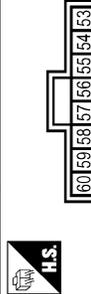
Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAAB40FB



Terminal No.	Color of Wire	Signal Name [Specification]
4	SE	ACC SW
5	LG	KEY SW (With Intelligent Key)
12	LG	DOOR SW (RR)
13	V	DOOR SW (BACK/LHD models)
14	BR	DOOR SW (AS/LHD models)
15	P	DOOR SW (DR/LHD models)
16	GR	DOOR SW (RL/LHD models)
21	P	CAN-L
22	L	CAN-H
33	W	HAZARD SW (With xenon headlamp and daytime light system)

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA8FB



Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER/LHD models)
55	B	GND
56	V	DOOR LOCK OUTPUT (ALL)
57	Y	BAT F/L
80	G	DOOR UNLOCK/RELEASE OUTPUT (DR/LHD models)

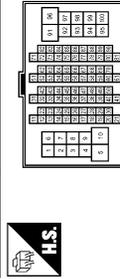
33	Y	HAZARD SW (Except with xenon headlamp and daytime light system)
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Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA1ZFBR



Terminal No.	Color of Wire	Signal Name [Specification]
41	LG	BAT (FUSE)
42	V	ROOM LAMP POWER SUPPLY
45	V	ROOM LAMP OPEN OUTPUT (LHD models)
47	BR	FRASHER OUTPUT (LH)
48	GR	FRASHER OUTPUT (RH)
52	R	ROOM LAMP CONTROL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS1B-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-

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BCM (BODY CONTROL MODULE)

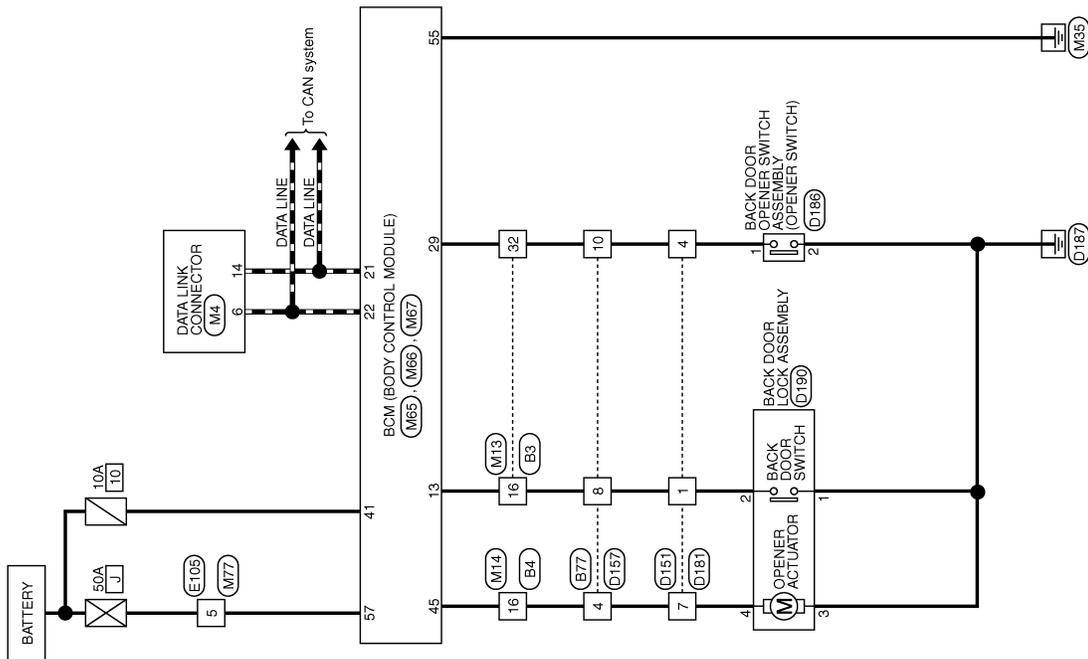
[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

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BACK DOOR OPENER SYSTEM



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JCKWA0409GE

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH




Terminal No.	Color of Wire	Signal Name [Specification]
16	V	-
32	G	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
16	W	-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
8	V	-
10	G	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FB-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	LG	-
7	W	-

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



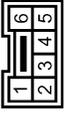

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-[LHD models]
4	V	-[RHD models]
8	V	-
10	G	-

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	G	-
7	W	-

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK08MW-TV

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	BCM
2	B	GND

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-
3	B	-
4	W	-

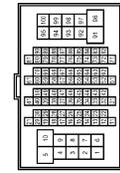
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

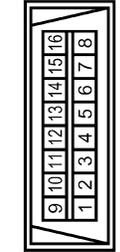
BACK DOOR OPENER SYSTEM

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



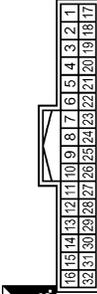
Terminal No.	5	Y	-
Color of Wire			
Signal Name [Specification]			

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



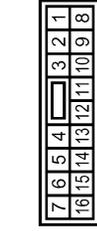
Terminal No.	6	L	-
Color of Wire			
Signal Name [Specification]			

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



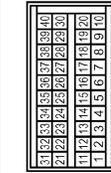
Terminal No.	16	V	-
Color of Wire			
Signal Name [Specification]			

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	16	V	-
Color of Wire			
Signal Name [Specification]			

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AA8A0FE



Terminal No.	13	V	DOOR SW (BACK) (LHD models)
Color of Wire			
Signal Name [Specification]			

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12EB



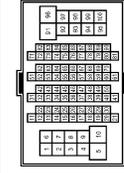
Terminal No.	41	LG	BAT(F)SE
Color of Wire			
Signal Name [Specification]			

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA80FB



Terminal No.	55	B	GND
Color of Wire			
Signal Name [Specification]			

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	5	Y	-
Color of Wire			
Signal Name [Specification]			

Fail Safe

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC is detected.

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

DTC	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC
B2191: DIFFERENCE OF KEY	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC
B2192: ID DISCORD BCM-ECM	Fuel cut (ECM)	Erase DTC
B2193: CHAIN OF BCM-ECM	Fuel cut (ECM)	Erase DTC
B2194: DISCORD BCM-I-KEY	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC
B2195: ANTI SCANNING	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC
B2196: DONGLE NG	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper auto stop signal.

When the rear wiper auto stop signal does not change more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

1. Turn ignition switch OFF.
2. Pass more than 1 minute after the rear wiper stop.
3. Turn ignition switch ON.
4. Operate the rear wiper switch.

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status from the terminal voltage.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

FAIL-SAFE CONTROL BY LIGHT & RAIN SENSOR MALFUNCTION

BCM detects the light & rain sensor serial link error and the light & rain sensor malfunction.

BCM controls the following fail-safe when light & rain sensor has a malfunction.

Fail-safe Control

- Auto light control: Headlamp is turned ON.
- Front wiper control: The condition just before the activation of fail-safe is maintained until the front wiper switch is turned OFF.

DTC Inspection Priority Chart

INFOID:000000001551323

Priority	DTC
1	<ul style="list-style-type: none"> U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
2	<ul style="list-style-type: none"> B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2194: DISCORD BCM-I-KEY B2195: ANTI SCANNING B2196: DONGLE NG

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

DTC Index

INFOID:000000001551324

NOTE:

- Details of time display
- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- PAST: Displays when there is a malfunction that is detected in the past and stored.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

DTC	TIME		Fail-safe	Reference
U1000: CAN COMM CIRCUIT	0	1 - 39	—	BCS-33
U1010: CONTROL UNIT (CAN)	0	1 - 39	—	BCS-34
B2190: NATS ANTENNA AMP	CRNT	PAST	×	<ul style="list-style-type: none"> With Intelligent Key system: SEC-41 Without Intelligent Key system: SEC-254
B2191: DIFFERENCE OF KEY	CRNT	PAST	×	<ul style="list-style-type: none"> With Intelligent Key system: SEC-43 Without Intelligent Key system: SEC-256
B2192: ID DISCORD BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> With Intelligent Key system: SEC-38 Without Intelligent Key system: SEC-251
B2193: CHAIN OF BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> With Intelligent Key system: SEC-40 Without Intelligent Key system: SEC-253
B2194: DISCORD BCM-I-KEY	CRNT	PAST	×	SEC-53
B2195: ANTI SCANNING	CRNT	PAST	×	<ul style="list-style-type: none"> With Intelligent Key system: SEC-54 Without Intelligent Key system: SEC-264
B2196: DONGLE NG	CRNT	PAST	×	<ul style="list-style-type: none"> With Intelligent Key system: SEC-55 Without Intelligent Key system: SEC-265

DLK

DOOR LOCK

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

SYMPTOM DIAGNOSIS

DOOR LOCK

Symptom Table

INFOID:000000001515650

The diagnostics item numbers show the sequence for inspection. Inspection in order from item 1.

NO.	Function	Operation condition	Symptom	Diagnostic Item	Reference page
1	Door lock and unlock switch function	Press door lock and unlock switch.	Door does not lock/unlock	All doors	DLK-693
				Driver side	DLK-693
				Passenger side	DLK-694
				Rear LH	DLK-694
				Rear RH	DLK-695
2	Key reminder function	Open the door, when mechanical key is inserts into ignition key cylinder.	Key reminder function does not operate	—	DLK-696
3	Auto door lock function	Unlock all doors and wait more than 2 minutes.	Auto door lock operation does not operate	—	DLK-697
4	Vehicle speed sensing auto door lock function	Vehicle speed is more than 25km/h.	Vehicle speed sensing auto door lock operation does not operate	—	DLK-698
5	Back door opener function	Press back door opener switch.	Back door does not open	—	DLK-699
6	Warning function	Press back door opener switch under the following conditions. <ul style="list-style-type: none">• Door is locked with door lock and unlock switch.• Speed sensing lock or only driver side is unlocked with anti-hijack function.	Back door open warning does not operate	—	DLK-700
7	Hazard reminder function	Press Key fob button.	Hazard reminder operation does not operate	—	DLK-701

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH < SYMPTOM DIAGNOSIS > [WITHOUT I-KEY & SUPER LOCK]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Description

INFOID:000000001515651

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-597, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by key fob.

ALL DOOR : Diagnosis Procedure

INFOID:000000001515652

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to [DLK-629, "BCM : Diagnosis Procedure"](#) .

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK KEY FOB BATTERY

Check key fob battery.

Refer to [DLK-657, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-634, "PASSENGER SIDE : Component Function Check"](#) (passenger side).

Refer to [DLK-636, "REAR LH : Component Function Check"](#) (rear LH).

Refer to [DLK-637, "REAR RH : Component Function Check"](#) (rear RH).

Refer to [DLK-639, "BACK DOOR : Component Function Check"](#) (back door).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001515653

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-597, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

[WITHOUT I-KEY & SUPER LOCK]

< SYMPTOM DIAGNOSIS >

- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by key fob.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001515654

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).

Refer to [DLK-643, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001515655

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-597, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001515656

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (passenger side).

Refer to [DLK-644, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR LH

REAR LH : Description

INFOID:000000001515657

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-597, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

- Doors are not locked by Intelligent Key or door request switch.

REAR LH : Diagnosis Procedure

INFOID:000000001515658

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator LH.

Refer to [DLK-645. "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

REAR RH

REAR RH : Description

INFOID:000000001515659

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-597. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

REAR RH : Diagnosis Procedure

INFOID:000000001515660

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator RH.

Refer to [DLK-646. "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

KEY REMINDER FUNCTION DOES NOT OPERATE

Description

INFOID:000000001515675

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-597, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Diagnosis Procedure

INFOID:000000001515676

1.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-633, "DRIVER SIDE : Component Function Check"](#). (Driver side)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK KEY SWITCH

Check key switch.

Refer to [DLK-641, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Description

INFOID:000000001515677

NOTE:

- "AUTO RELOCK TIMER" is not OFF when setting on CONSULT-III.
 - Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-597, "Work Flow"](#).
 - Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
 - Understand the operation when does it work, refer to [DLK-607, "AUTO DOOR LOCK : System Description"](#).
- Conditions of Vehicle (Operating Conditions)
- Request switch operation and door lock and unlock switch operation are normal.

Diagnosis Procedure

INFOID:000000001515678

1. CHECK "AUTO LOCK SET" SETTING IN "WORK SUPPORT"

Check "AUTO LOCK SET" setting in "WORK SUPPORT".

Refer to [DLK-623, "DOOR LOCK : CONSULT-III Function \(BCM - DOOR LOCK\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

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VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE
< SYMPTOM DIAGNOSIS > **[WITHOUT I-KEY & SUPER LOCK]**

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

Description

INFOID:000000001515679

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-597, "Work Flow"](#).
- Understand the operation when does it work, refer to [DLK-610, "VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Diagnosis Procedure

INFOID:000000001515680

1.CHECK VEHICLE SPEED SIGNAL

Check vehicle speed signal.

Refer to [DLK-656, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

BACK DOOR DOES NOT OPENED

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR DOES NOT OPENED

Description

INFOID:000000001515681

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-597. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock function is normal.
- Vehicle speed is less than 5 km/h (3MPH).
- All doors are unlocked.

Diagnosis Procedure

INFOID:000000001515682

1. CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-652. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK BACK DOOR OPENER ACTUATOR

Check back door opener actuator.

Refer to [DLK-648. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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BACK DOOR OPEN WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR OPEN WARNING DOES NOT OPERATE

Description

INFOID:000000001515711

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-597, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock function and back door opener function is normal.

Diagnosis Procedure

INFOID:000000001515712

1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-654, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

HAZARD REMINDER OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

HAZARD REMINDER OPERATION DOES NOT OPERATE

Description

INFOID:000000001515715

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-597. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- “HAZARD ANSWER BACK” is ON when setting on CONSULT-III.
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001515716

1. CHECK SETTING OF BUZZER REMINDER WITH CONSULT-III

Check “HAZARD ANSWER BACK” setting in “WORK SUPPORT”.

Refer to [DLK-625. "MULTIREMOTE ENT : CONSULT-III Function \(BCM - MULTIREMOTE ENT\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set “HAZARD ANSWER BACK” setting in “WORK SUPPORT”. Refer to [DLK-625. "MULTIREMOTE ENT : CONSULT-III Function \(BCM - MULTIREMOTE ENT\)"](#).

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

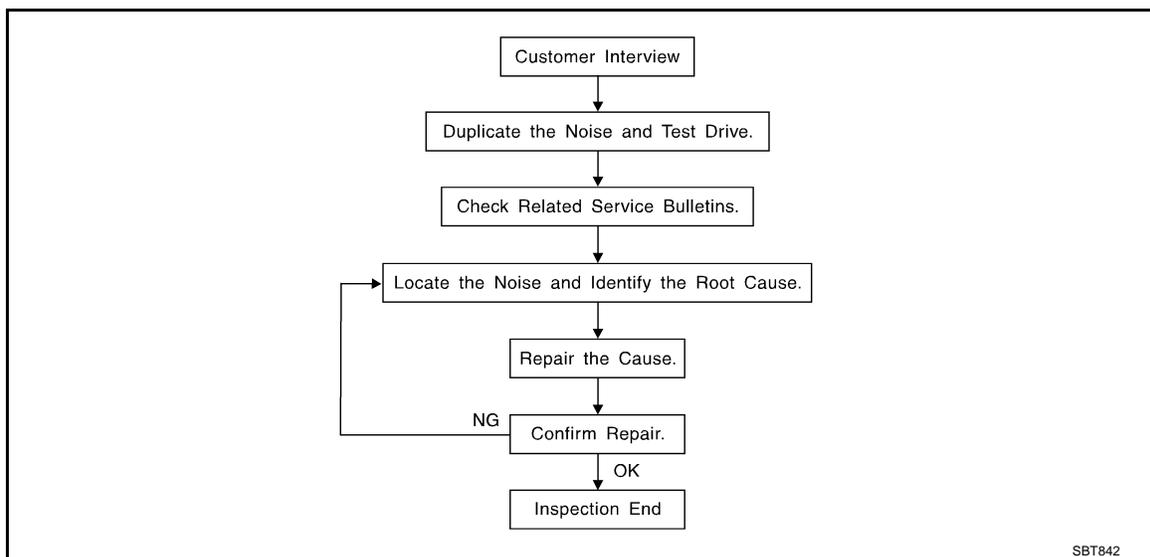
< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000001537524



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of the customer's comments; refer to [DLK-875, "Diagnostic Worksheet"](#). This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by a test drive with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)
Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)
Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)
Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)
Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumble bee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on A/T model).
 - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
 - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Engine Ear or mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - removing the components in the area that you suspect the noise is coming from.
Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
 - tapping or pushing/pulling the component that you suspect is causing the noise.
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
 - placing a piece of paper between components that you suspect are causing the noise.
 - looking for loose components and contact marks.
Refer to [DLK-873. "Inspection Procedure"](#).

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
 - separate components by repositioning or loosening and retightening the component, if possible.
 - insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape are available through your authorized Nissan Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged.

NOTE:

- URETHANE PADS
Insulates connectors, harness, etc.
- INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
- INSULATOR (Light foam block)
- FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
The following materials, not available through NISSAN Parts Department, can also be used to repair squeaks and rattles.
- UHMW(TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications.
- SILICONE GREASE
Used in place of UHMW tape that will be visible or not fit.
Note: Will only last a few months.
- SILICONE SPRAY
Use when grease cannot be applied.
- DUCT TAPE
Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Inspection Procedure

INFOID:000000001537525

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. Cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

1. Shifter assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner.

In addition look for:

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment
3. Trunk lid torsion bars knocking together
4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

SEATS

When isolating seat noise it is important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. Rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Diagnostic Worksheet

INFOID:000000001537526



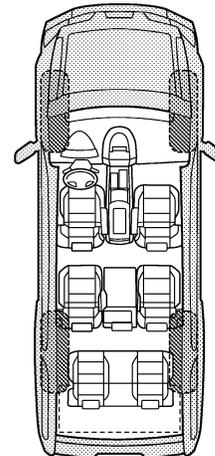
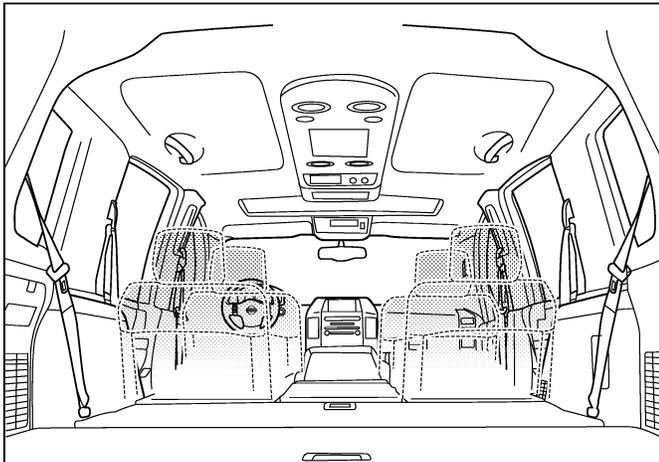
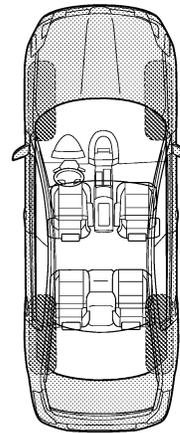
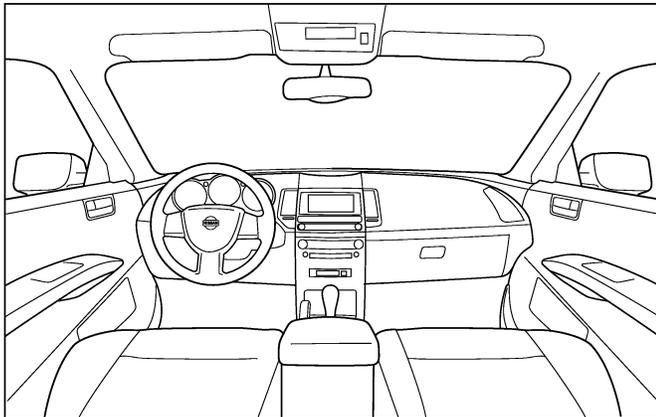
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

PIIB8740E

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| <input type="checkbox"/> anytime | <input type="checkbox"/> after sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> when it is raining or wet |
| <input type="checkbox"/> only when it is cold outside | <input type="checkbox"/> dry or dusty conditions |
| <input type="checkbox"/> only when it is hot outside | <input type="checkbox"/> other: |

III. WHEN DRIVING:

- through driveways
- over rough roads
- over speed bumps
- only about ____ mph
- on acceleration
- coming to a stop
- on turns: left, right or either (circle)
- with passengers or cargo
- other: _____
- after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- squeak (like tennis shoes on a clean floor)
- creak (like walking on an old wooden floor)
- rattle (like shaking a baby rattle)
- knock (like a knock at the door)
- tick (like a clock second hand)
- thump (heavy, muffled knock noise)
- buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise verified on test drive	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise source located and repaired	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Follow up test drive performed to confirm repair	<input type="checkbox"/>	<input type="checkbox"/>	_____

VIN: _____ Customer Name: _____
W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

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PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000001524331

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

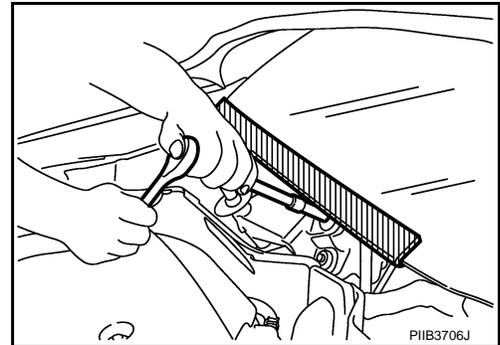
WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIRBAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precaution for Procedure without Cowl Top Cover

INFOID:000000001451783

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



Work

INFOID:000000001451784

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operational.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

PREPARATION

< PREPARATION >

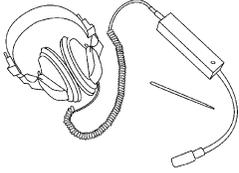
[WITHOUT I-KEY & SUPER LOCK]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000001451785

Tool name	Description
<p data-bbox="191 520 305 546">Engine ear</p>  <p data-bbox="803 632 868 646">SIIA0995E</p>	<p data-bbox="998 520 1185 546">Locating the noise</p>
<p data-bbox="191 772 332 798">Remover tool</p>  <p data-bbox="803 884 868 898">PIIB7923J</p>	<p data-bbox="998 772 1404 798">Remove the clips, pawls, and metal clips</p>
<p data-bbox="191 1024 305 1050">Power tool</p>  <p data-bbox="803 1136 868 1150">PIIB1407E</p>	

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HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

ON-VEHICLE REPAIR

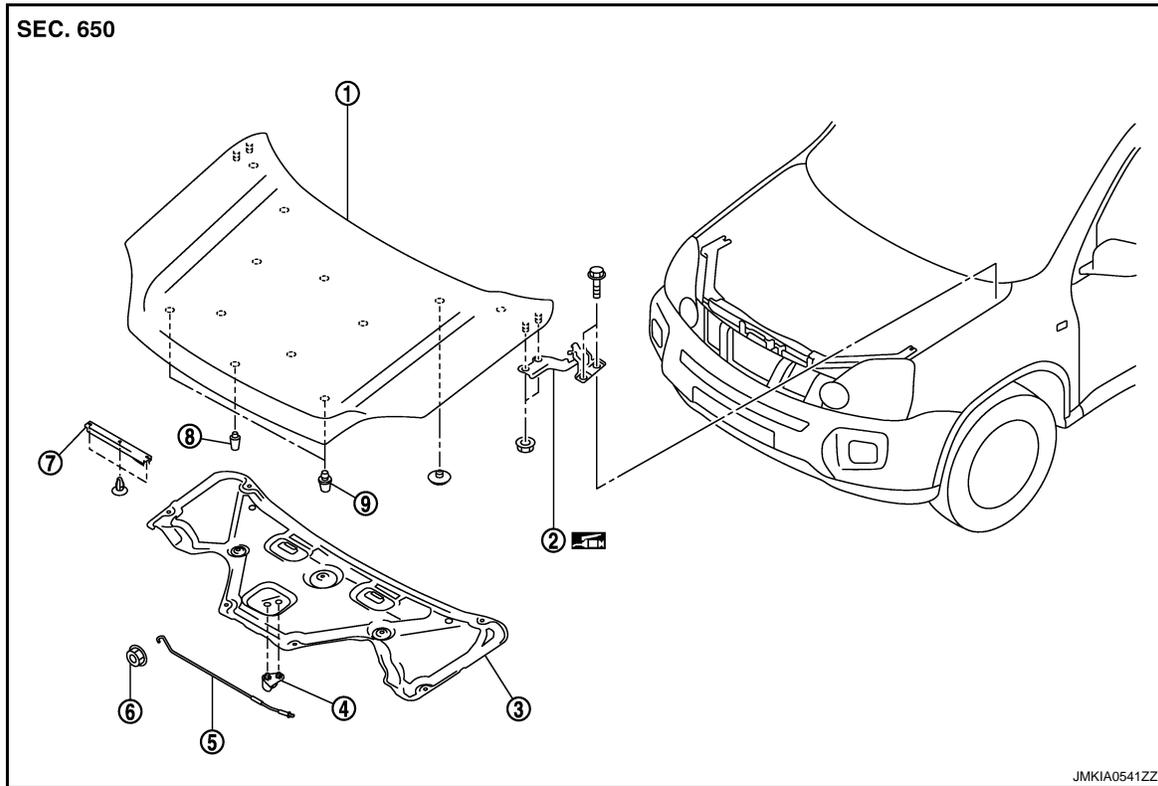
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000001451790

REMOVAL



- | | | |
|-----------------------|------------------------------|----------------------------|
| 1. Hood assembly | 2. Hood hinge | 3. Hood insulator |
| 4. Clamp | 5. Hood support rod | 6. Grommet |
| 7. Radiator core seal | 8. Hood bumper rubber center | 9. Hood bumper rubber side |

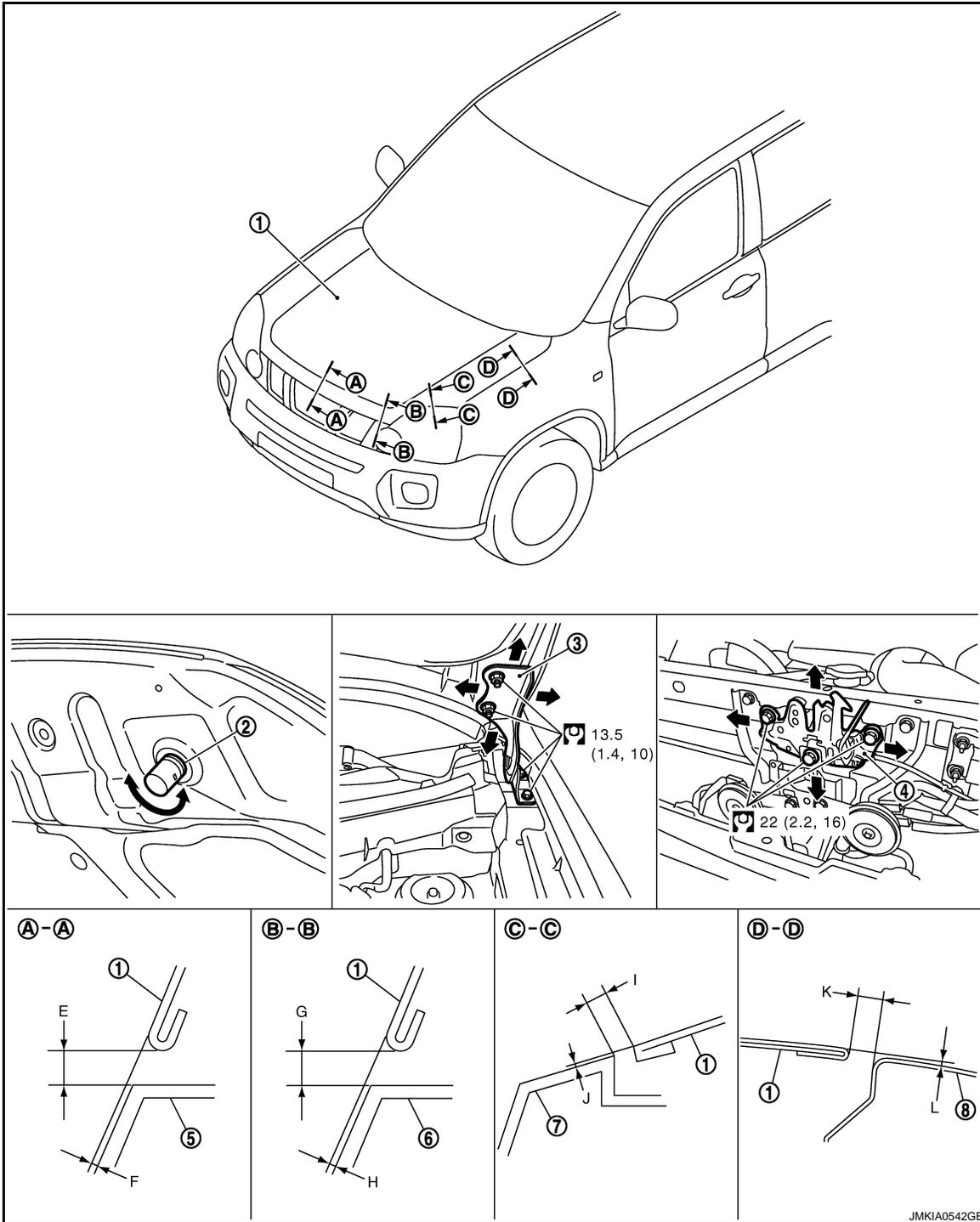
Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]



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|---------------------------|----------------------------|-----------------|
| 1. Hood assembly | 2. Hood bumper rubber side | 3. Hood hinge |
| 4. Hood lock assembly | 5. Front grille | 6. Front bumper |
| 7. Front combination lamp | 8. Front fender | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:000000001451791

REMOVAL

1. Support the hood lock assembly with the proper material to prevent it from falling.

WARNING:

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HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

Bodily injury may occur if no supporting rod is holding the hood open when removing the hood stay.

- Remove the hood hinge mounting nuts on the hood to remove the hood assembly.

CAUTION:

Perform work with 2 workers, because of its heavy weight.

- Remove the following parts after removing the hood assembly.
 - Hood insulator
 - Clamp
 - Hood support rod
 - Grommet
 - Radiator core seal
 - Hood bumper rubber center
 - Hood bumper rubber side

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installing, perform hood fitting adjustment. Refer to [DLK-881, "HOOD ASSEMBLY : Adjustment"](#).

HOOD ASSEMBLY : Adjustment

INFOID:000000001451792

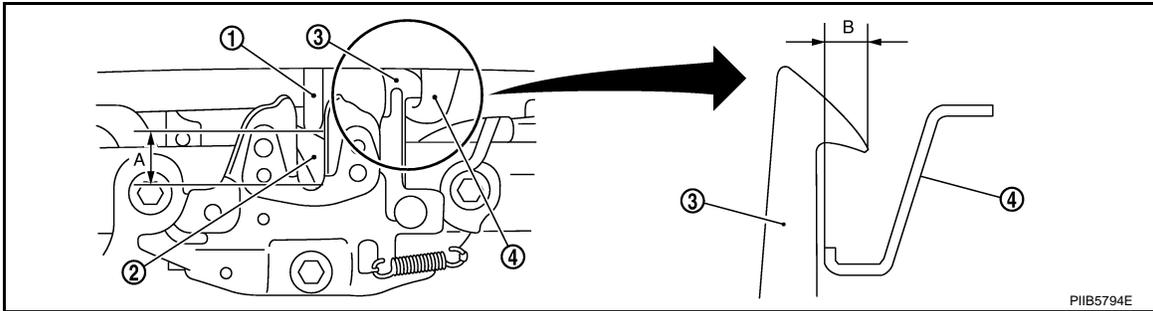
Portion				Standard
Hood – Front grill	A – A	E	Clearance	4.0 – 8.0 (0.157 – 0.315)
		F	Surface height	- 0.4 – 4.0 (- 0.016 – 0.157)
Hood – Front bumper	B – B	G	Clearance	4.0 – 8.0 (0.157 – 0.315)
		H	Surface height	- 0.4 – 4.0 (- 0.016 – 0.157)
Hood – Front combination lamp	C – C	I	Clearance	1.8 – 6.2 (0.071 – 0.244)
		J	Surface height	- 1.3 – 2.7 (- 0.051 – 0.106)
Hood – Front fender	D – D	K	Clearance	2.6 – 4.6 (0.102 – 0.181)
		L	Surface height	- 1.0 – 1.0 (- 0.039 – 0.039)

- Check the clearance and the surface height between the hood and each part by visually and touching. (Fitting standard dimension in the table below should be satisfied.)
- Remove the front grille. Refer to [EXT-18, "Removal and Installation"](#).
- In case any parts are out of specification, adjust them according to the procedures shown below.
- Remove the hood lock and adjust the height by rotating the hood bumper rubber side until the hood becomes 1 to 1.5 mm (0.04 to 0.059 in) lower than the fender.
- Temporarily tighten the hood lock, and position by engaging it with the hood striker. Check the lock and striker for looseness and adjust the clearance and evenness with the striker to satisfy the specification.
- Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately. 200 mm (7.87 in) height or by pressing the hood lightly [approximately. 29 N (3 kg)].

HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]



- 1. Hood striker
- 2. Primary latch
- 3. Secondary striker
- 4. Secondary latch

A : 20.0 mm (0.787 in)

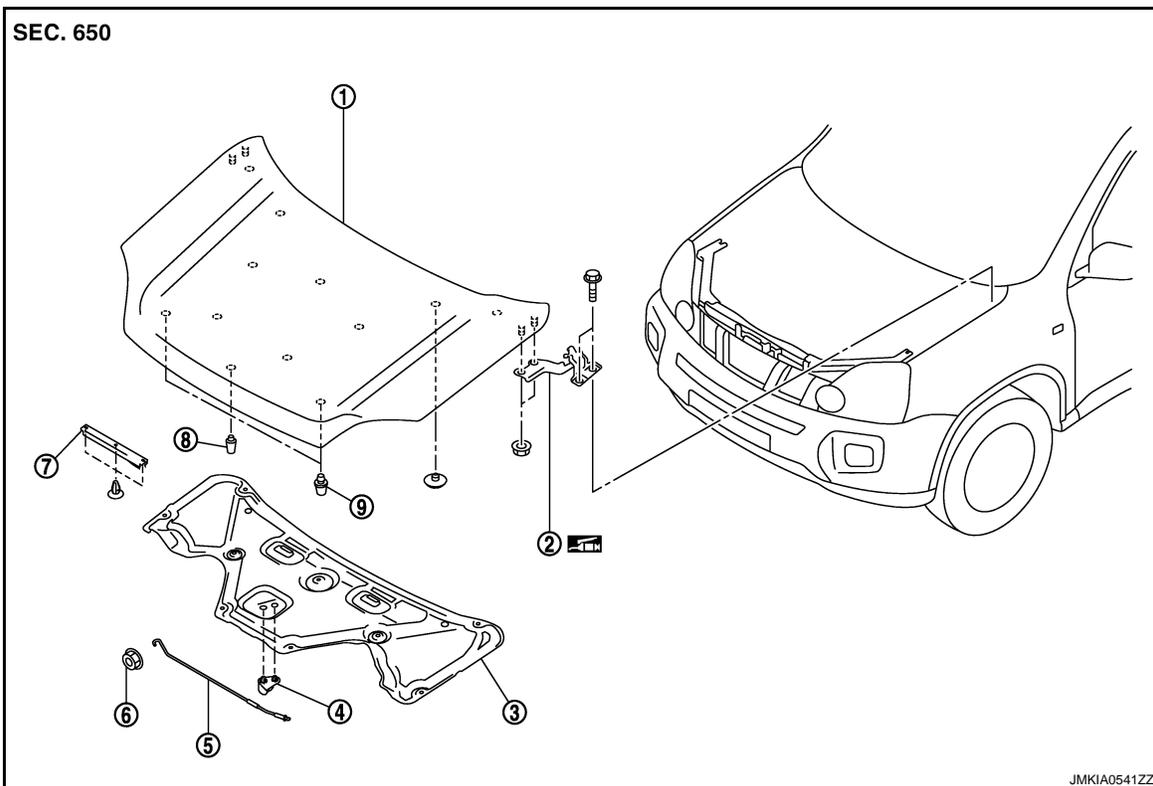
B : 6.8 mm (0.268 in)

7. After adjustment tighten lock bolts to the specified torque.

HOOD HINGE

HOOD HINGE : Exploded View

INFOID:000000001451793



- 1. Hood assembly
- 2. Hood hinge
- 3. Hood insulator
- 4. Clamp
- 5. Hood support rod
- 6. Gromet
- 7. Radiator core seal
- 8. Hood bumper rubber center
- 9. Hood bumper rubber side

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD HINGE : Removal and Installation

INFOID:000000001451794

REMOVAL

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HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

1. Remove the hood assembly. Refer to [DLK-880. "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove the front fender. Refer to [DLK-888. "Removal and Installation"](#).
3. Remove the hood hinge mounting bolts, and then remove the hood hinge.

INSTALLATION

Install in the reverse order of removal.

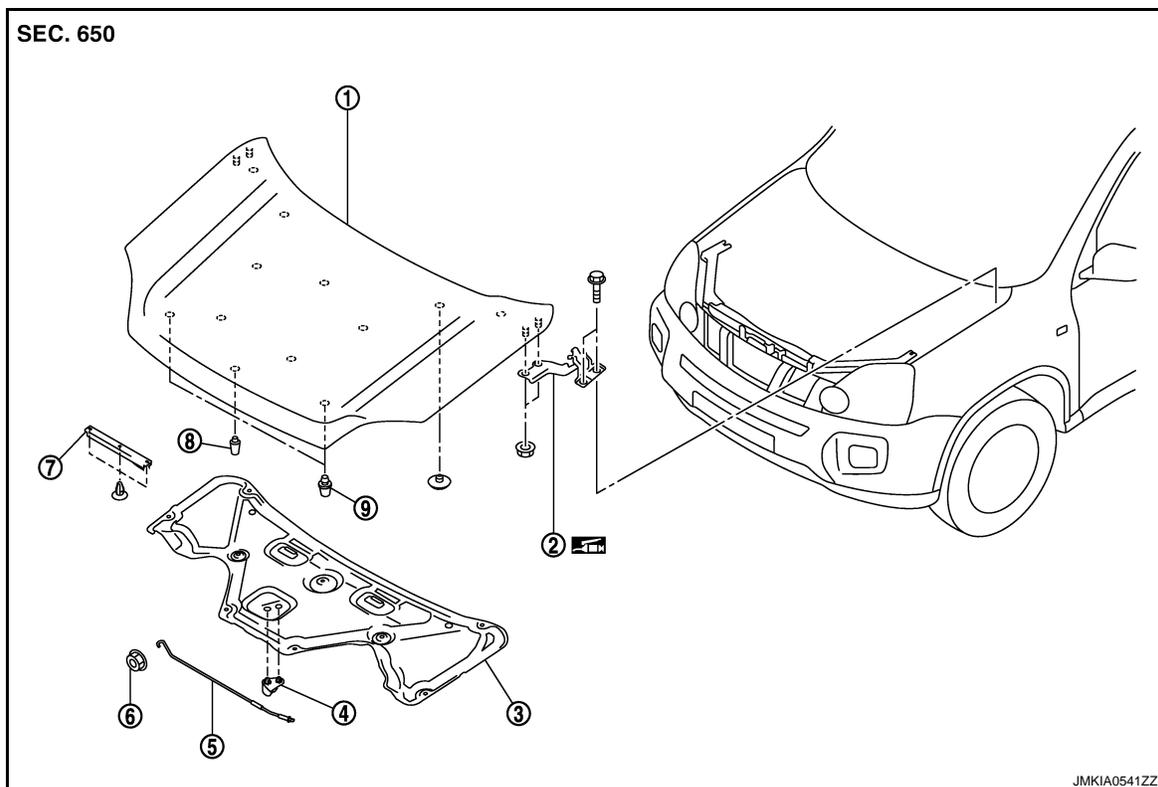
CAUTION:

- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.
- After installation, perform hood fitting adjustment. Refer to [DLK-881. "HOOD ASSEMBLY : Adjustment"](#).

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Exploded View

INFOID:000000001451796



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|-----------------------|------------------------------|----------------------------|
| 1. Hood assembly | 2. Hood hinge | 3. Hood insulator |
| 4. Clamp | 5. Hood support rod | 6. Grommet |
| 7. Radiator core seal | 8. Hood bumper rubber center | 9. Hood bumper rubber side |

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000001451797

REMOVAL

1. Support the hood lock assembly with the proper material to prevent it from falling.
WARNING:
Bodily injury may occur if no supporting rod is holding the hood open when removing the hood stay.
2. Remove the hood support rod from the grommet.

INSTALLATION

HOOD

< ON-VEHICLE REPAIR >

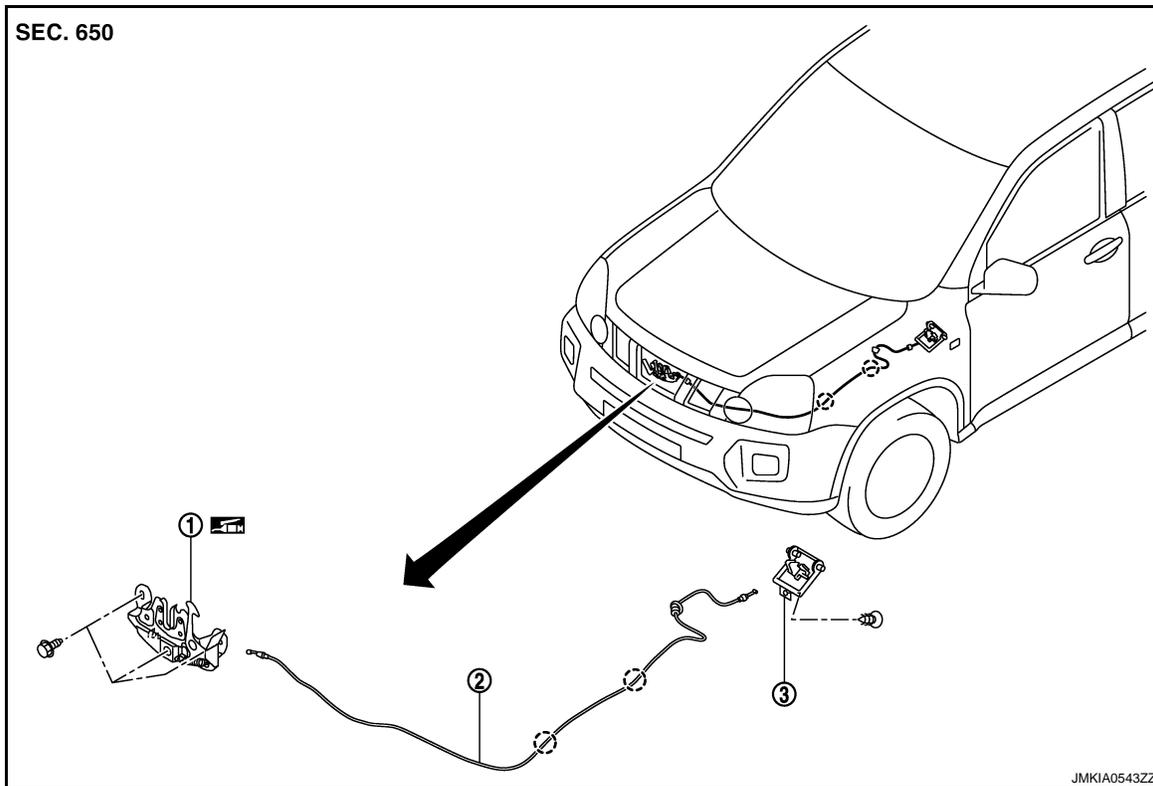
[WITHOUT I-KEY & SUPER LOCK]

Install in the reverse order of removal.

HOOD LOCK CONTROL

HOOD LOCK CONTROL : Exploded View

INFOID:000000001451798



1. Hood lock assembly

2. Hood lock control cable

3. Hood lock opener

○ :Clip

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD LOCK CONTROL : Removal and Installation

INFOID:000000001451799

REMOVAL

1. Remove the hood lock opener mounting bolts, and then remove the hood lock opener.
2. Remove the front grille. Refer to [EXT-18. "Removal and Installation"](#).
3. Remove the fender protector. Refer to [EXT-21. "Removal and Installation"](#).
4. Remove the hood lock mounting bolts, and then remove the hood lock.
5. Disconnect the hood lock cable from hood lock, and clip it from the hoodledge.
6. Remove the grommet on the dash lower panel, and pull the hood lock control cable toward the passenger compartment.

CAUTION:

While pulling, do not to damage (peeling) the outside of the hood lock control cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Do not to bend the cable too much, keeping the radius 100 mm (3.94 in) or more.

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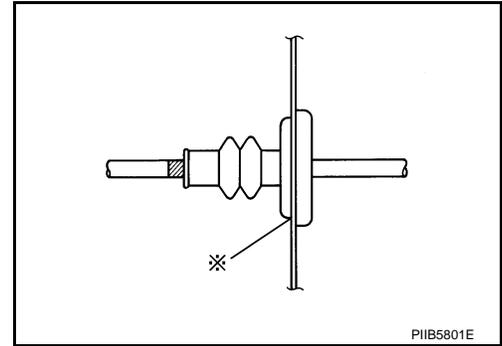
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HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

- Check that the cable is not offset from the positioning grommet, and apply the sealant to the grommet (at *mark) properly.



- Check that the hood lock control cable is properly engaged with the hood lock.
- After installation, perform hood fitting adjustment. Refer to [DLK-881, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform the hood lock control inspection. Refer to [DLK-885, "HOOD LOCK CONTROL : Inspection"](#).

HOOD LOCK CONTROL : Inspection

INFOID:000000001451800

NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Check that the secondary latch is properly engaged with the secondary striker [6.8 mm (0.268 in) shown in the figure] by hood weight.
2. While operating the hood opener, carefully check that the front end of the hood is raised by approximately 20.0 mm (0.787 in). Also check that the hood opener returns to the original position.
3. Check that the hood opener operating is condition 49 N (5.0 kg) or below.
4. Install so that static closing face of hood is 94 – 490 N·m (9.6 – 50.0 kg·m).

NOTE:

- Exert vertical force on right side and left side of hood lock.
 - Do not press simultaneously both sides.
5. Check the hood lock lubrication condition. If necessary, apply body grease to the hood lock.

RADIATOR CORE SUPPORT

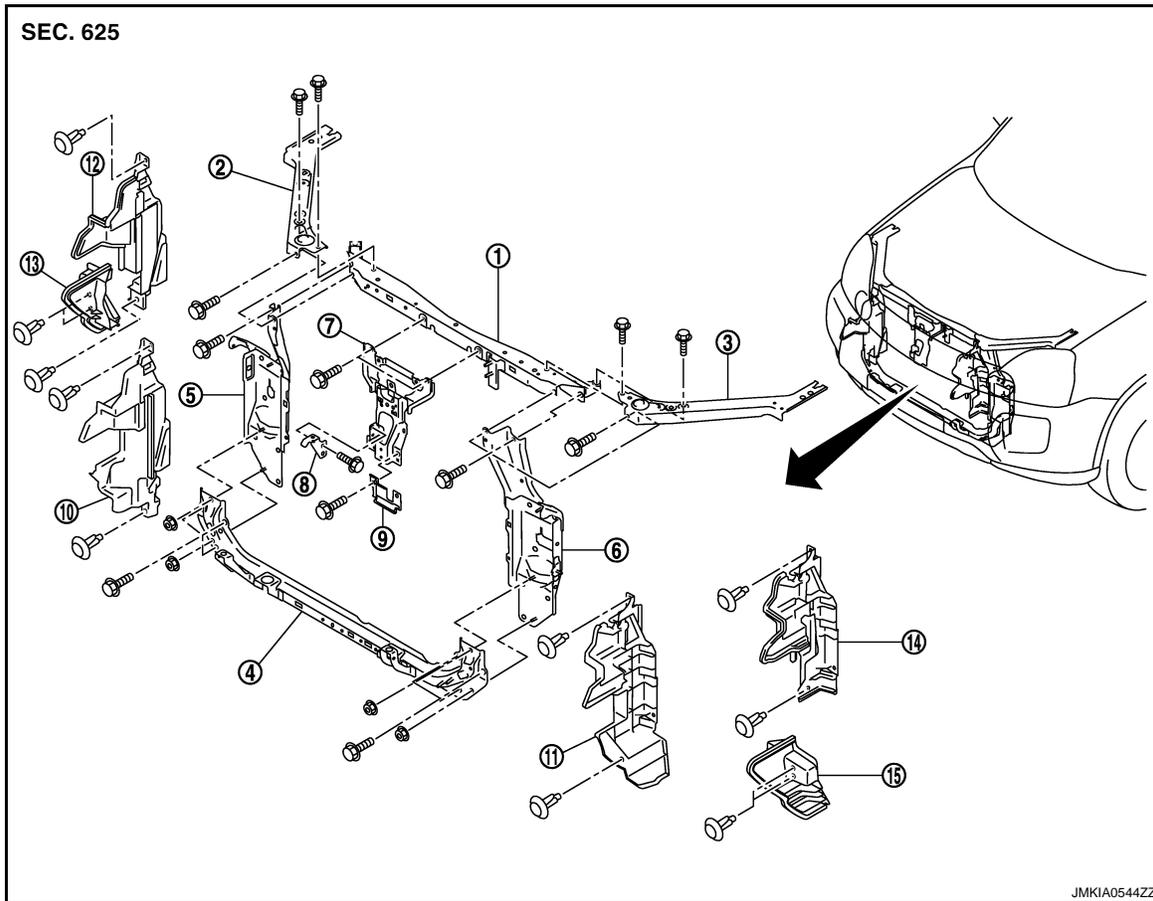
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

RADIATOR CORE SUPPORT

Exploded View

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|---------------------------------------|---------------------------------------|------------------------------------|
| 1. Radiator core support upper center | 2. Radiator core support upper RH | 3. Radiator core support upper LH |
| 4. Radiator core support lower | 5. Radiator core support side RH | 6. Radiator core support side LH |
| 7. Hood lock support stay assembly | 8. Front bumper fascia center bracket | 9. Sensor bracket |
| 10. Air guide RH | 11. Air guide LH | 12. Air guide upper RH (M9R model) |
| 13. Air guide lower RH (M9R model) | 14. Air guide upper LH (M9R model) | 15. Air guide lower LH (M9R model) |

Removal and Installation

INFOID:000000001451802

REMOVAL

1. Remove the front bumper fascia and the energy absorber. Refer to [EXT-13, "Removal and Installation"](#).
2. Remove the bumper reinforcement. Refer to [EXT-13, "Removal and Installation"](#).
3. Disconnect the liquid tank connector. Refer to [HA-66, "Exploded View"](#).
4. Remove the front combination lamp. Refer to [EXL-213, "Removal and Installation"](#) (XENON TYPE), [EXL-409, "Removal and Installation"](#) (HALOGEN TYPE).
5. Remove the washer tank. Refer to [WW-104, "Removal and Installation"](#).
6. Remove the air inlet hose (LH) and air inlet tube (LH). Refer to [EM-266, "Exploded View"](#) (M9R model).
7. Remove the charge air cooler. Refer to [EM-266, "Removal and Installation"](#) (M9R model).
8. Disconnect the hood lock control cable clamp, and then remove the hood lock assembly. Refer to [DLK-884, "HOOD LOCK CONTROL : Removal and Installation"](#).
9. Remove the air guide mounting clips, and remove the air guide (LH/RH).
10. Remove the horn. Refer to [HRN-6, "Removal and Installation"](#).

RADIATOR CORE SUPPORT

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

11. Remove the Intelligent Key warning buzzer (with Intelligent Key systems). Refer to [DLK-298, "Removal and Installation"](#).
12. Disconnect the harness clips from the hood lock stay.
13. Remove the hood lock stay mounting bolts, and then remove the hood lock stay.
14. Remove the crush zone sensor. Refer to [SR-15, "Removal and Installation"](#).
15. Place securely the hood support rod inside the engine mounting bracket hole.

CAUTION:

Check that the hood is securely fix.

16. Remove the radiator core support upper side (RH,LH) mounting bolts, and remove the radiator core support side (RH,LH).
17. Remove the radiator core support upper center mounting bolts, and remove the radiator core support upper center.
18. Disconnect the harness clamp from radiator core support side (LH).
19. Remove the radiator core support lower assembly mounting bolts.
20. Remove the radiator core support lower assembly while other worker is holding the radiator and condenser assembly to prevent the radiator and condenser from falling.

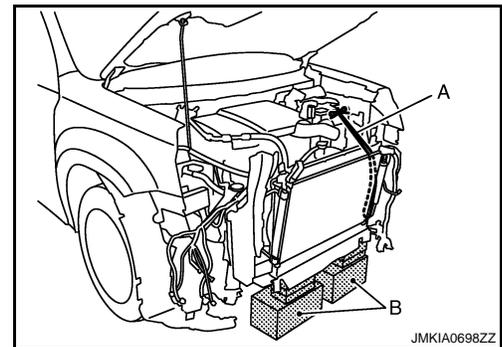
CAUTION:

Operate with two workers, because of its heavy weight.

21. Put some wooden blocks (B) under the radiator and condenser, and use a rope (A) to suspend it to prevent it from falling.

CAUTION:

Operate with two workers, because of its heavy weight.



22. Remove the radiator core support side (RH,LH) mounting nuts, and remove the radiator core support side (RH,LH) from radiator core support lower.

INSTALLATION

Install in the reverse order of removal.

FRONT FENDER

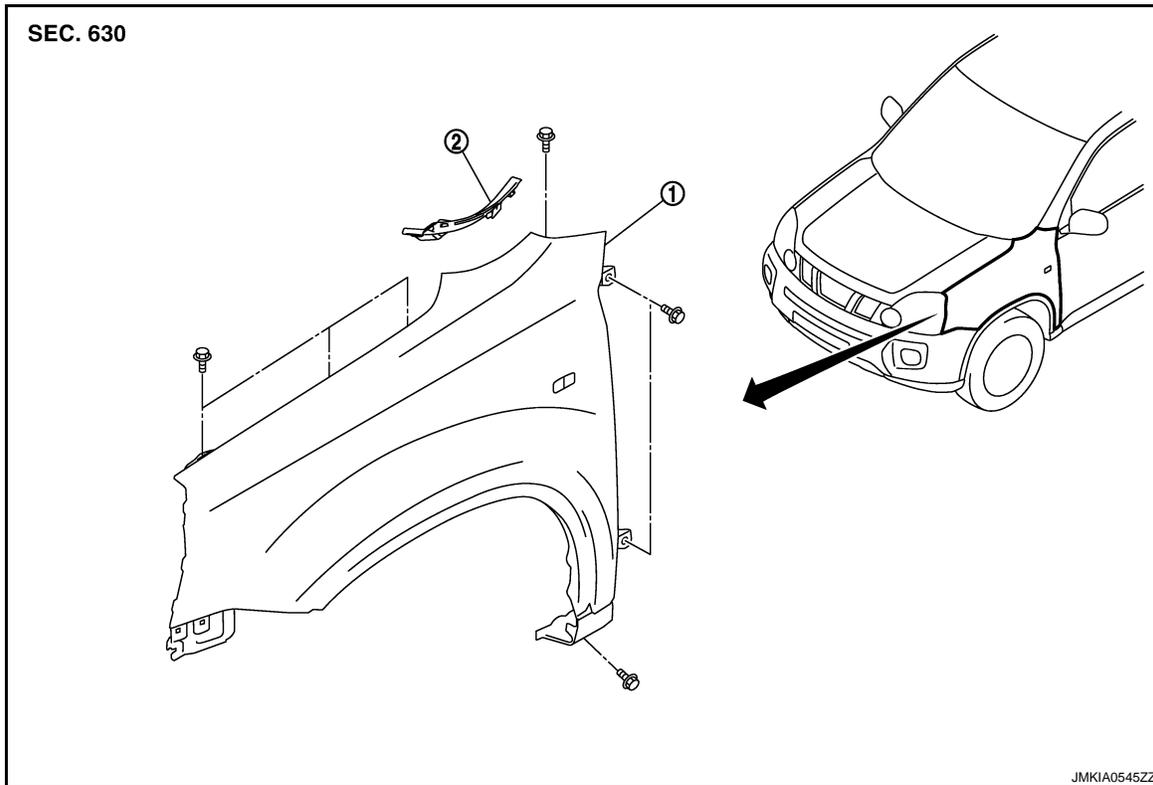
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

FRONT FENDER

Exploded View

INFOID:000000001451803



1. Front fender

2. Front fender finisher

Removal and Installation

INFOID:000000001451804

REMOVAL

1. Remove the fillet molding. Refer to [EXT-24, "Removal and Installation"](#).
2. Remove the front grille. Refer to [EXT-18, "Removal and Installation"](#).
3. Remove the front bumper fascia. Refer to [EXT-13, "Removal and Installation"](#).
4. Remove the front combination lamp. Refer to [EXL-213, "Removal and Installation"](#) (XENON TYPE), [EXL-409, "Removal and Installation"](#) (HALOGEN TYPE).
5. Remove the inner fender protector. Refer to [EXT-21, "Removal and Installation"](#).
6. Remove the front fender finisher.
7. Remove the side turn signal lamp. Refer to [EXL-222, "Removal and Installation"](#).
8. Remove the mounting bolts and remove the front fender.

CAUTION:

Use a shop cloth to protect the body from being damaged during removal.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- After installation, check the front fender adjustment. Refer to [DLK-881, "HOOD ASSEMBLY : Adjustment"](#) and [DLK-891, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply the touch-up paint (the body color) onto the head of the front fender mounting bolts.

FRONT DOOR

< ON-VEHICLE REPAIR >

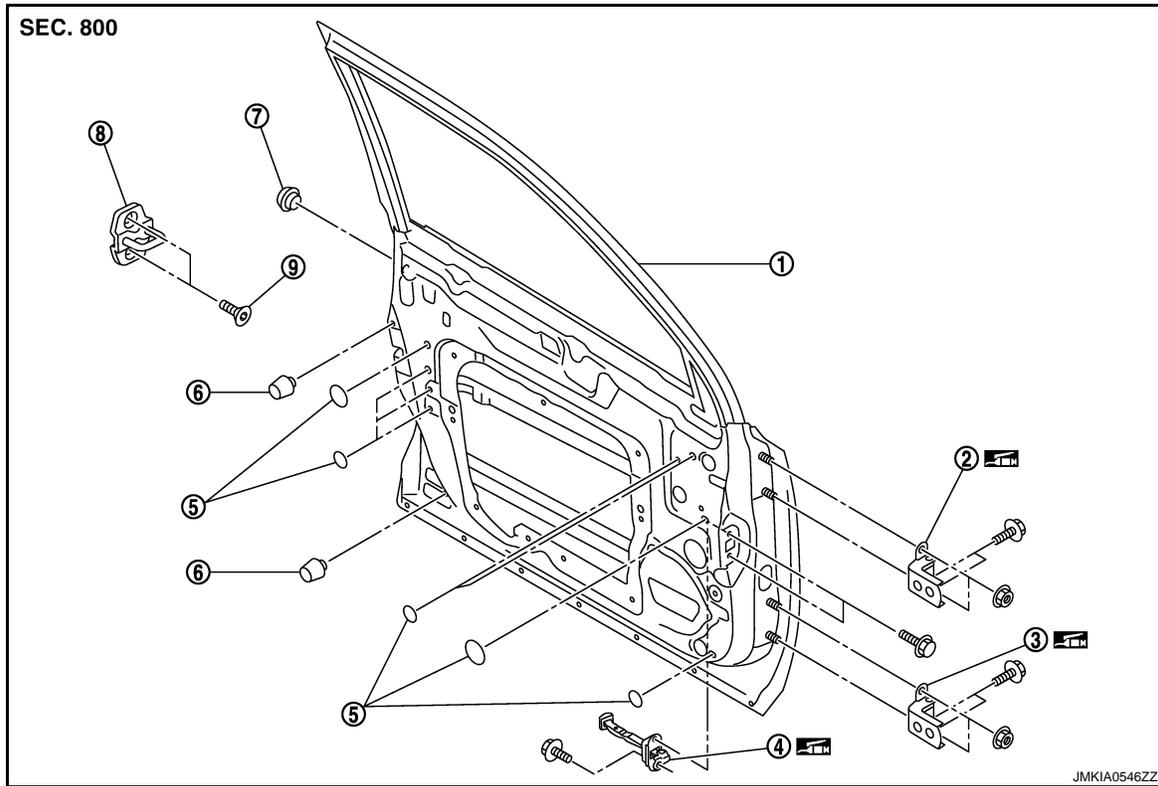
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FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001451805

REMOVAL



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

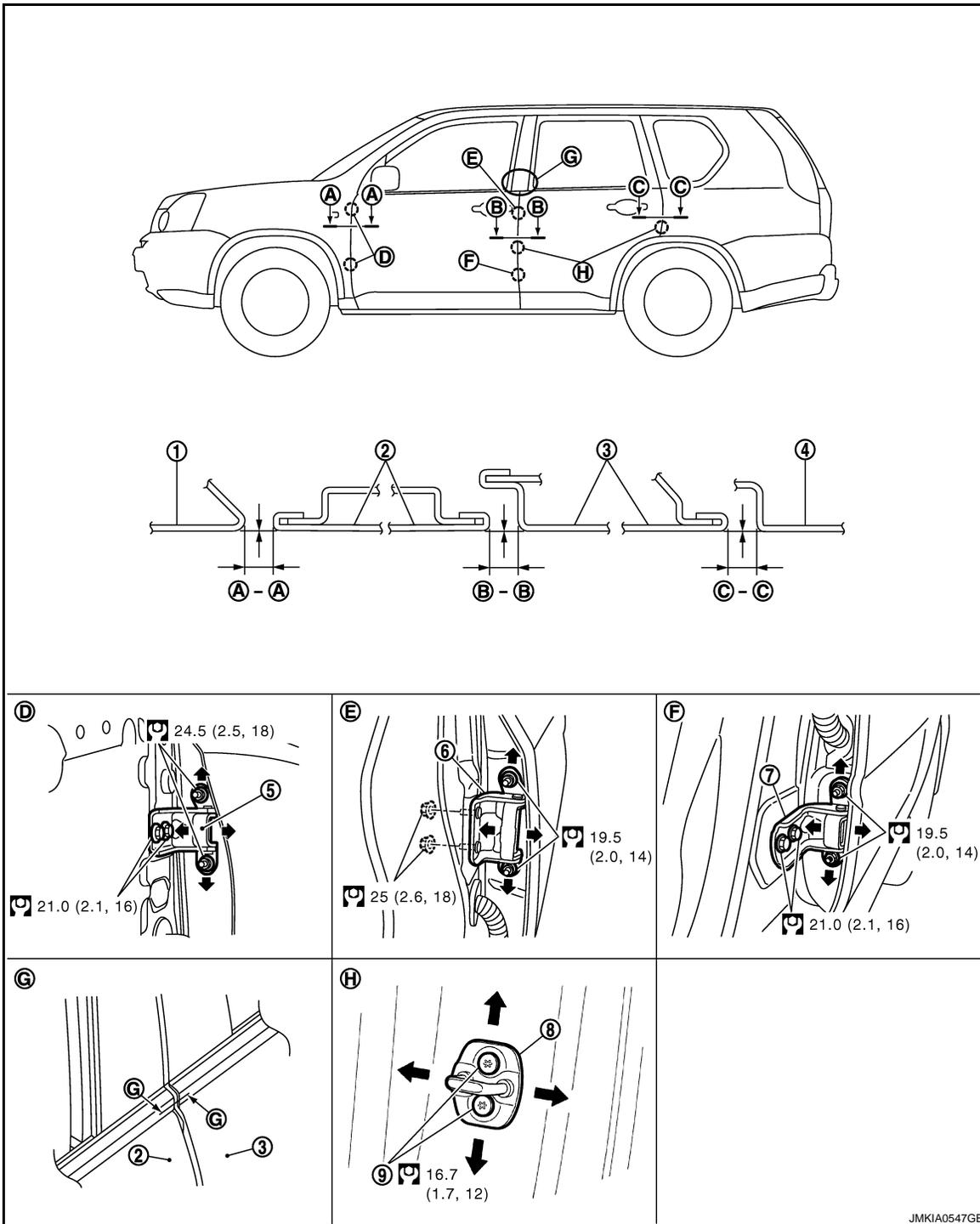
Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]



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|----------------------------|---------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Front door hinge | 6. Rear door hinge (upper) |
| 7. Rear door hinge (lower) | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001451806

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.

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FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

REMOVAL

1. Remove the mounting bolts of the door check link on the vehicle.
2. Remove the front door harness grommet, and then pull out the harness from the vehicle.
3. Disconnect the front door harness connector.
4. Remove the door hinge mounting nuts (door side), and then remove the door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the front door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-891, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.

DOOR ASSEMBLY : Adjustment

INFOID:000000001451807

CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

mm(in)

Portion		Clearance	Surface height
Front fender – Front door	A – A	3.4 – 5.4 (0.134 – 0.213)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	B – B	3.5 – 5.5 (0.138 – 0.217)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	G – G	3.0 – 6.0 (0.118 – 0.236)	- 1.0 – 1.0 (- 0.039 – 0.039)

1. Check the clearance and surface height and surface mismatch between the front door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the front fender. Refer to refer to [DLK-888, "Removal and Installation"](#).
4. Loosen the door hinge mounting nuts on door side.
5. Adjust the surface height and surface mismatch of the front door according to the fitting standard dimension.
6. Temporarily tighten the hinge mounting nuts on door side.
7. Loosen the door hinge mounting bolts on body side.
8. Raise the front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
9. After adjustment tighten bolts and nuts to the specified torque.
10. Install the front fender. Refer to refer to [DLK-888, "Removal and Installation"](#).

CAUTION:

After installation, check the front fender adjustment. Refer to [DLK-891, "DOOR ASSEMBLY : Adjustment"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.

DOOR STRIKER

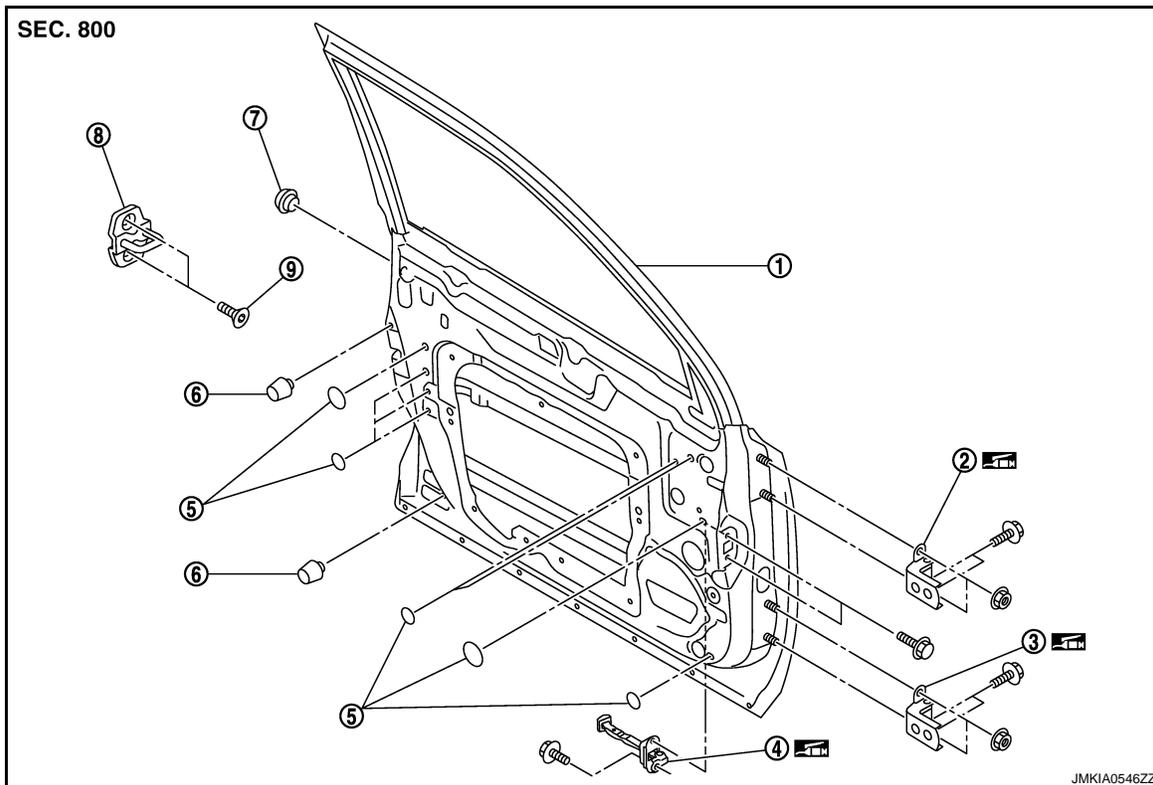
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001451808



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001451809

REMOVAL

Remove the TORX bolts, and then remove the door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the front door open/close operation after installation.
- When removing and installing the door striker, be sure to perform the fitting adjustment. Refer to [DLK-891, "DOOR ASSEMBLY : Adjustment"](#).

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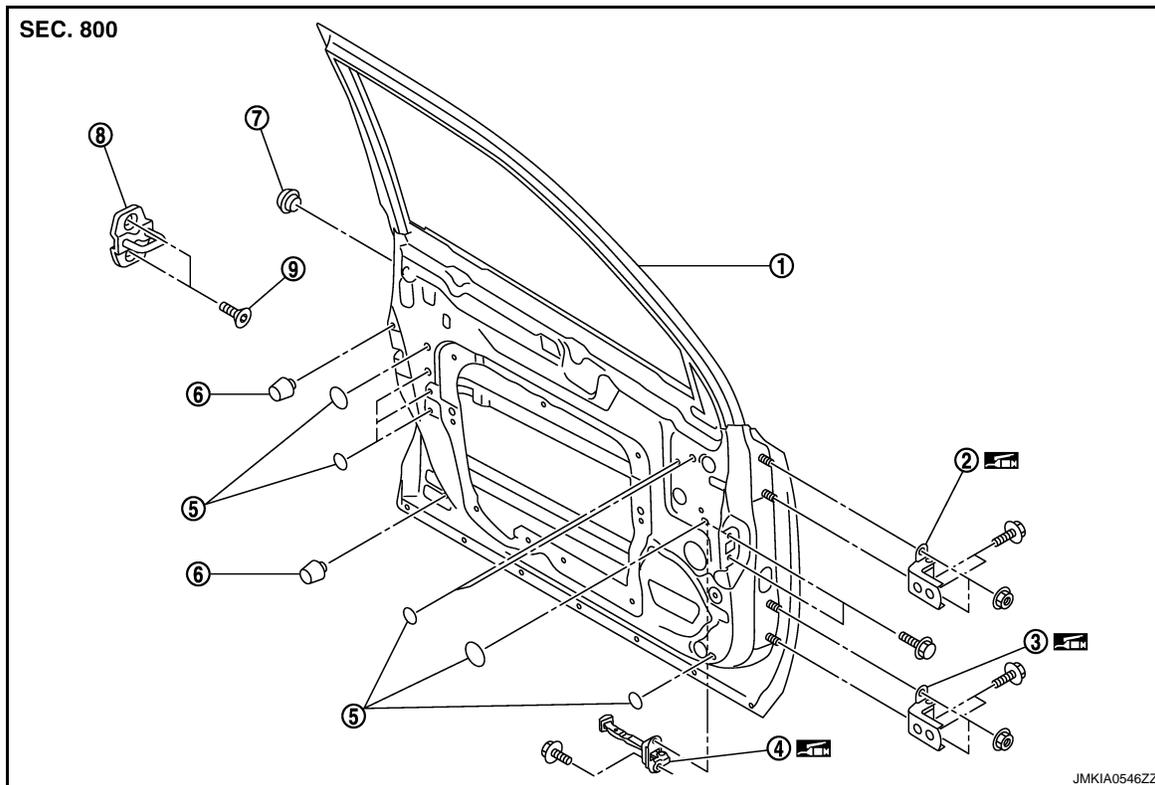
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

DOOR HINGE : Exploded View

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|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001451812

REMOVAL

1. Remove the front door assembly. Refer to [DLK-890. "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove the door hinge mounting bolts, and then remove the front door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the front door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-891. "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.

DOOR CHECK LINK

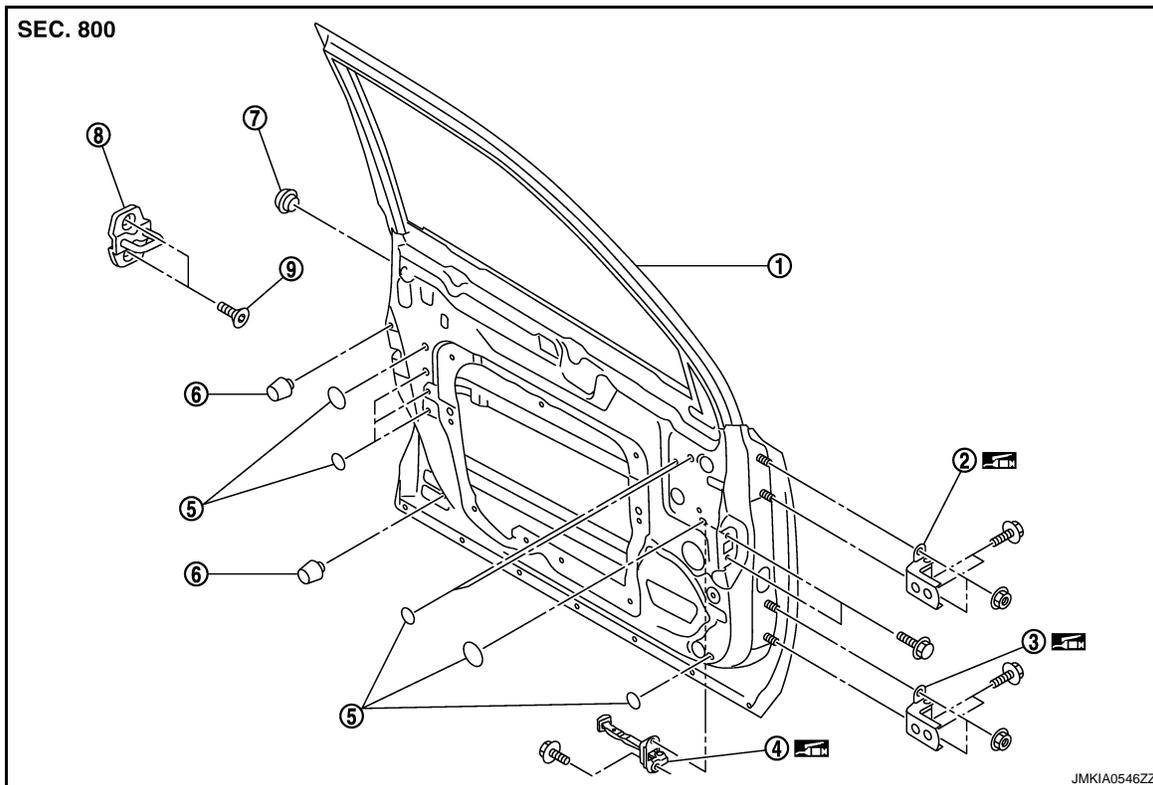
FRONT DOOR

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[WITHOUT I-KEY & SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001451814



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|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001451815

DLK

REMOVAL

1. Fully close the front door window.
2. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
3. Remove the front door speaker. Refer to [AV-38, "Removal and Installation"](#).
4. Remove the mounting bolts of the door check link on the vehicle.
5. Remove the mounting bolts of the door check link on the door panel.
6. Take the door check link out from the hole of the door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the front door open/close operation after installation.

REAR DOOR

< ON-VEHICLE REPAIR >

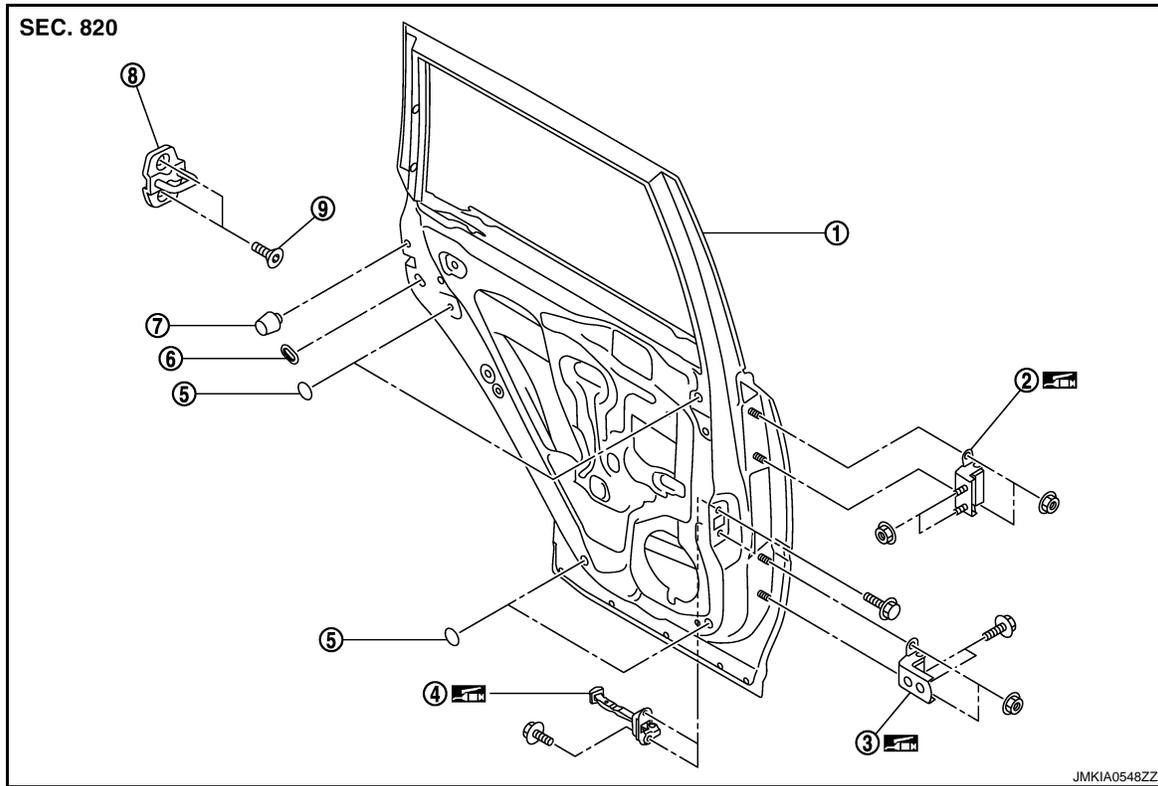
[WITHOUT I-KEY & SUPER LOCK]

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001451816

REMOVAL



- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

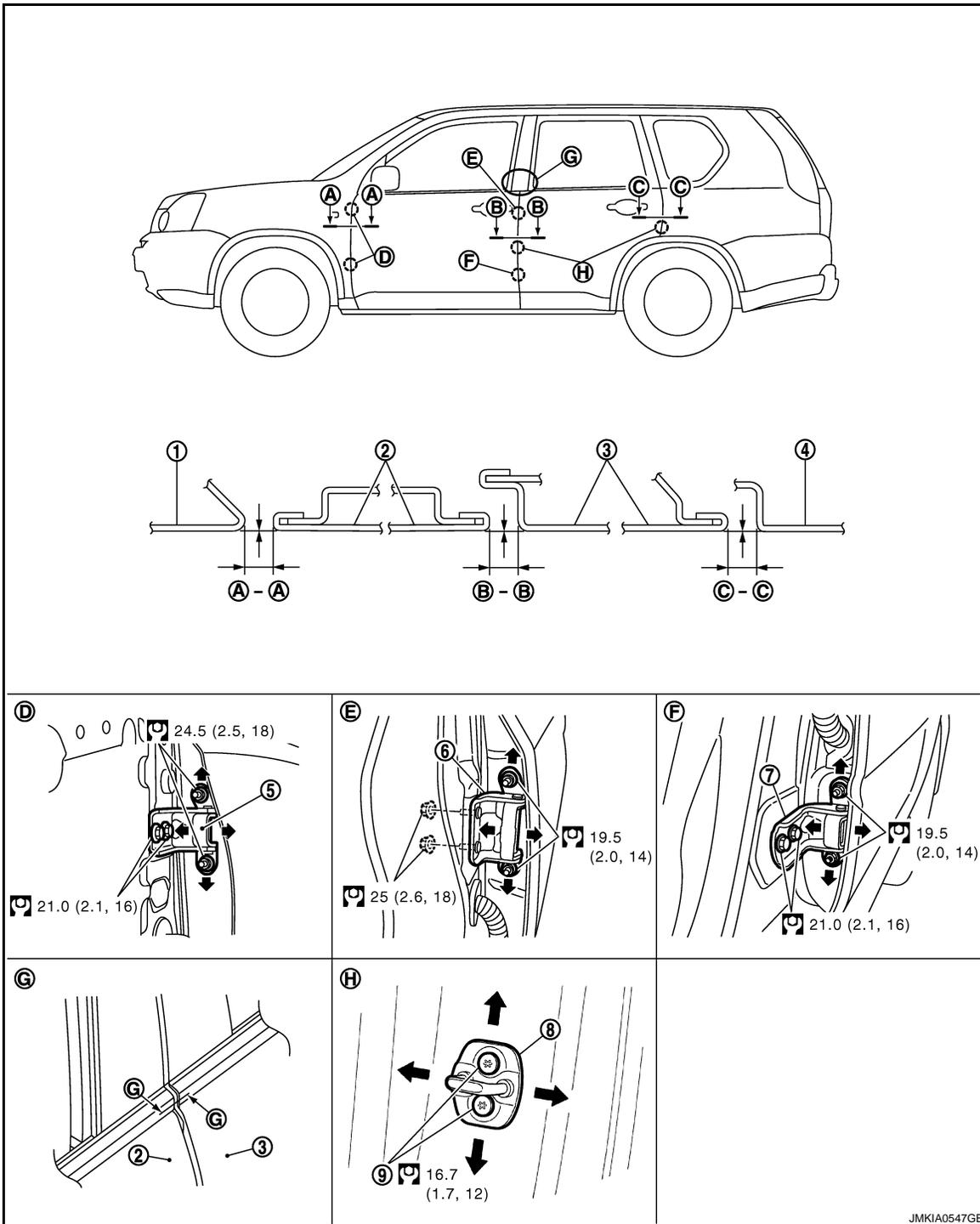
Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]



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|----------------------------|---------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Front door hinge | 6. Rear door hinge (upper) |
| 7. Rear door hinge (lower) | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001451817

CAUTION:

- Perform work with 2 workers, because of it's heavy weight.
- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.

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REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

REMOVAL

1. Remove the mounting bolts of the door check link on the vehicle.
2. Remove the rear door harness grommet, and then pull out the door harness from the vehicle.
3. Disconnect the rear door harness connector.
4. Remove the door hinge mounting nuts (door side), and then remove the rear door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the rear door lock/unlock operation after installation.
- Check the rear door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to [DLK-897, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.

DOOR ASSEMBLY : Adjustment

INFOID:000000001451818

CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

mm(in)

Portion		Clearance	Surface height
Front door – Rear door	B – B	3.5 – 5.5 (0.138 – 0.217)	-1.0 – 1.0 (-0.039 – 0.039)
Rear door – Body side outer	C – C	3.5 – 5.5 (0.138 – 0.217)	-1.0 – 1.0 (-0.039 – 0.039)
Front door – Rear door	G – G	3.0 – 6.0 (0.118 – 0.236)	-1.5 – 1.5 (-0.059 – 0.059)

1. Check the clearance and surface height and surface mismatch between the rear door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the center pillar lower garnish. Refer to [INT-16, "Removal and Installation"](#).
4. Loosen the door hinge mounting nuts on door side.
5. Adjust the surface height and surface mismatch of the rear door according to the fitting standard dimension.
6. Temporarily tighten the hinge mounting nuts on door side.
7. Loosen the door hinge mounting nuts and bolts on body side.
8. Raise the rear door at rear end to adjust clearance of the rear door according to the fitting standard dimension.
9. After adjustment tighten bolts and nuts to the specified torque.
10. Install the center pillar lower garnish. Refer to [INT-16, "Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.

DOOR STRIKER

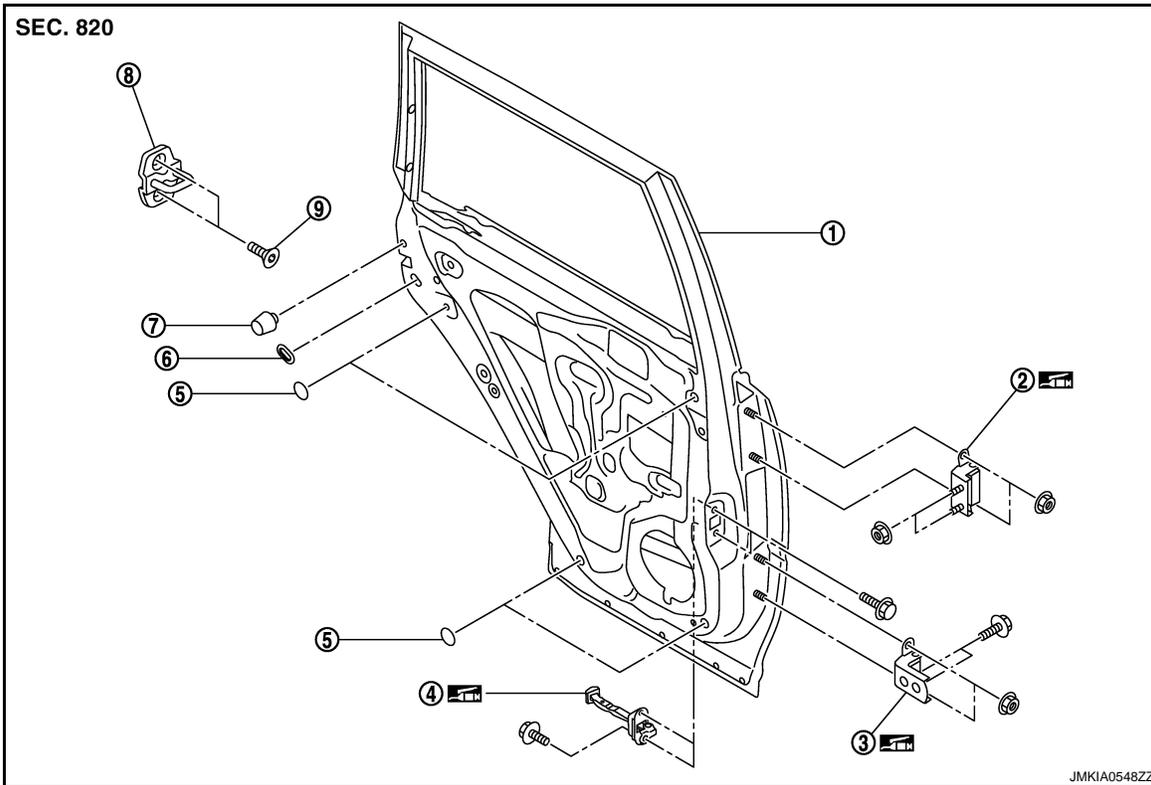
REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001451819



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|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001451820

REMOVAL

Remove the TORX bolts, and then remove the door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the rear door open/close operation after installation.
- When removing and installing the door striker, be sure to perform the fitting adjustment. Refer to [DLK-897. "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

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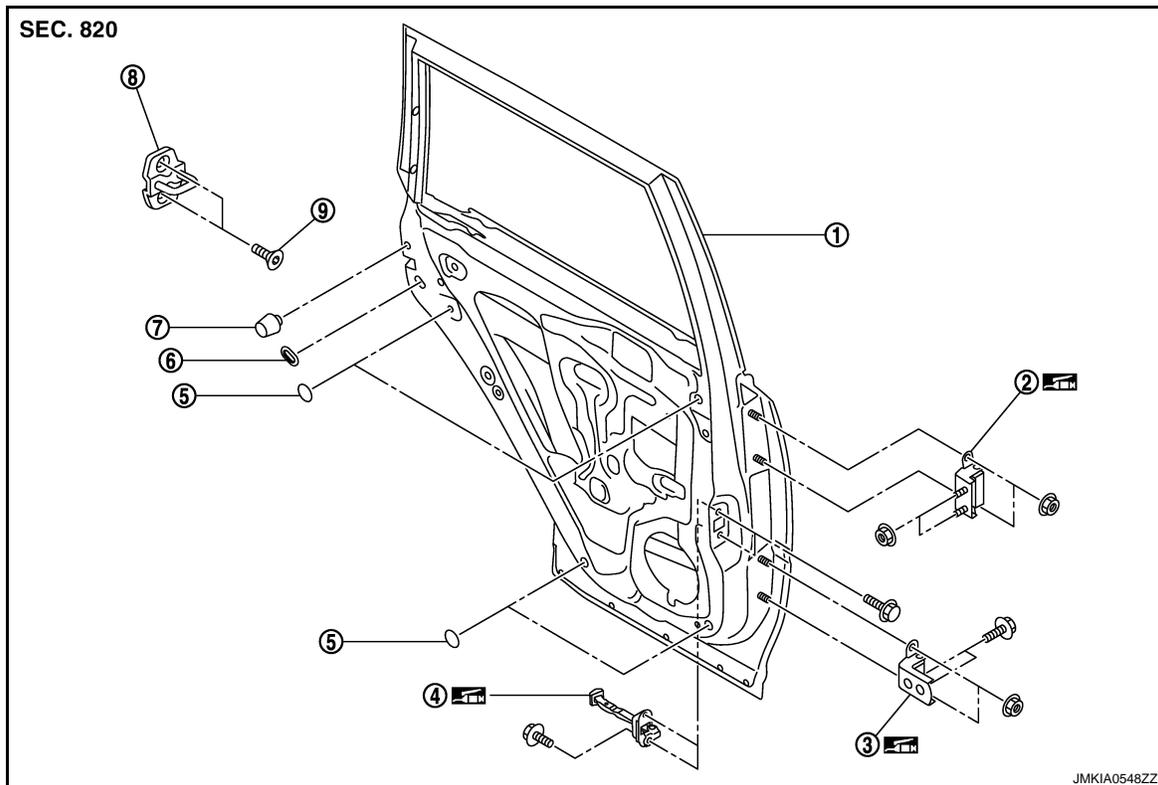
REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001451822



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|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001451823

REMOVAL

1. Remove the center pillar lower garnish. Refer to [INT-16. "Removal and Installation"](#).
2. Remove the rear door assembly. Refer to [DLK-896. "DOOR ASSEMBLY : Removal and Installation"](#).
3. Remove the rear door hinge mounting bolts and nuts (body side), and then remove the door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the rear door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the rear door assembly, perform the fitting adjustment. Refer to [DLK-897. "DOOR ASSEMBLY : Adjustment"](#).
- After installing, apply the touch-up paint (the body color) onto the head of the hinge mounting nuts.

DOOR CHECK LINK

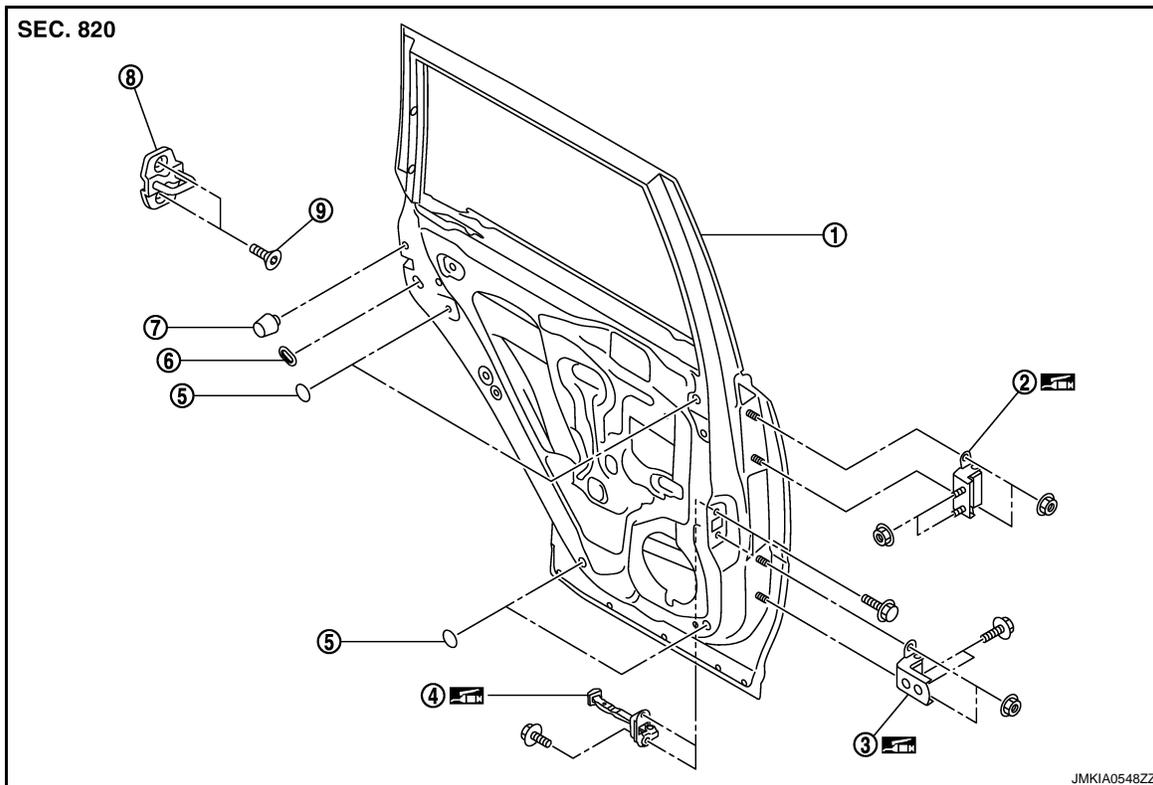
REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001451825



- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001451826

DLK

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove the rear door speaker.
3. Remove the mounting bolts of the check link on the vehicle.
4. Remove the door check link mounting bolts on the door panel.
5. Remove the door check link.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check front door open/close operation after installation.

BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

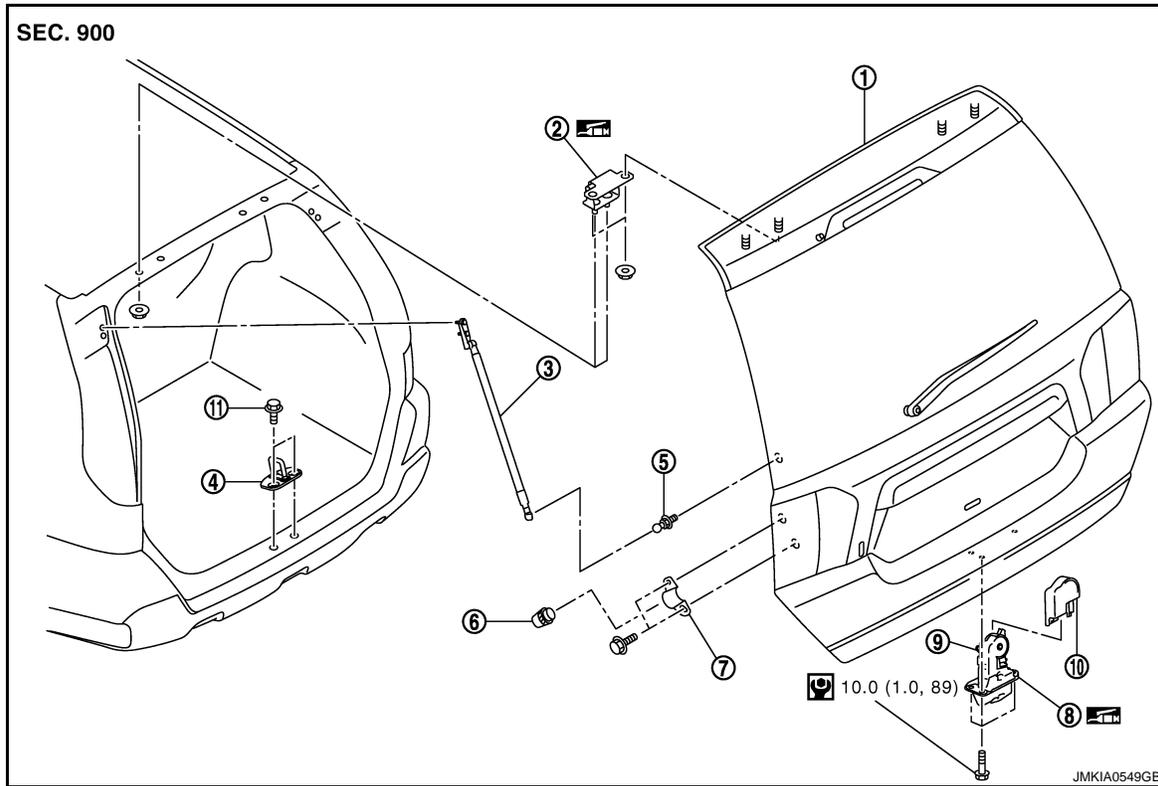
BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:000000001451827

REMOVAL



- | | | |
|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

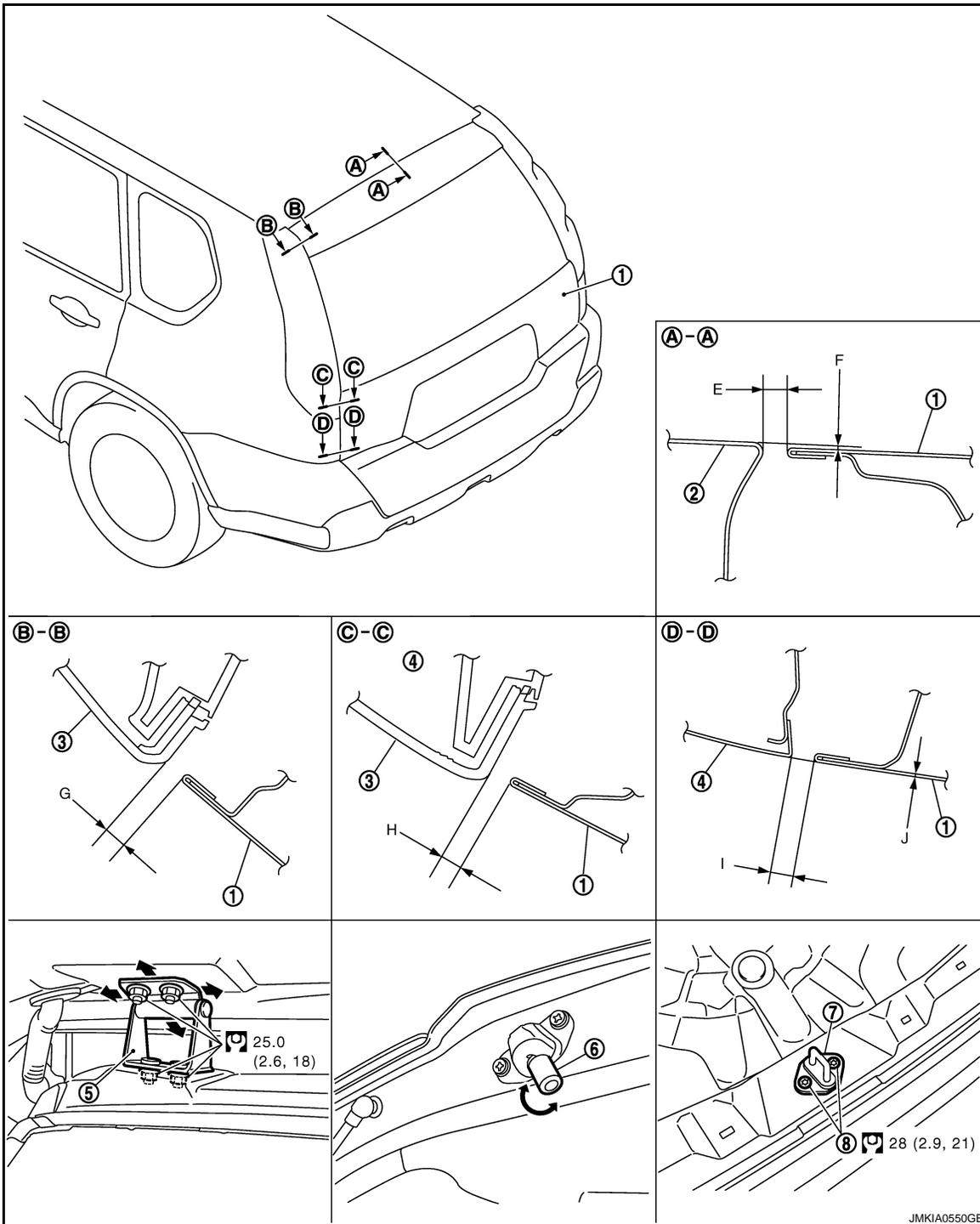
Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]



- | | | |
|----------------------|--------------------|--------------------------|
| 1. Back door | 2. Roof | 3. Rear combination lamp |
| 4. Body side outer | 5. Back door hinge | 6. Bumper rubber |
| 7. Back door striker | 8. TORX bolt | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000001451828

REMOVAL

1. Remove the back door finisher inner (upper, lower, side LH). Refer to [INT-31, "Removal and Installation"](#).
2. Disconnect the connectors in the back door, and then remove the grommet, and pull out the harness.

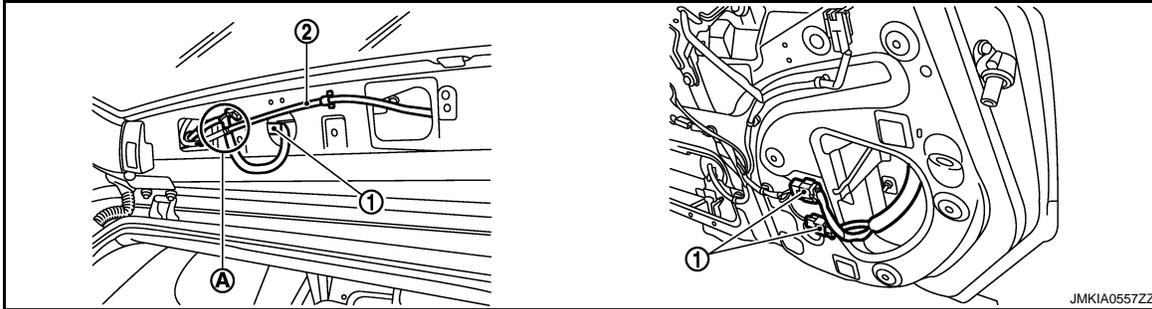
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BACK DOOR

< ON-VEHICLE REPAIR >

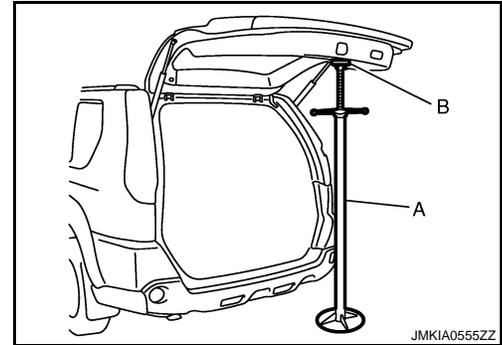
[WITHOUT I-KEY & SUPER LOCK]

- Remove the grommet, and then disconnect the connectors (1), and pull out the washer tube (2) at (A).



- Pull the harness out of the back door.
- Support the back door lock with the proper material to prevent it from falling.

- A : Jack
- B : Shop cloth



- Remove the back door stay bracket mounting bolts on the back door.
- Remove the back door hinge mounting nuts on the back door and remove the back door assembly.

CAUTION:

Perform work with 2 workers, because of its heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the back door open/close operation after installation.
- Check the back door lock/unlock operation after installation.
- After installation, perform fitting adjustment. Refer to [DLK-903, "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR ASSEMBLY : Adjustment

INFOID:000000001451829

mm(in)

Portion		Standard	
Back door panel – Roof panel	A – A	E	Clearance 5.0 – 7.0 (0.197 – 0.276)
		F	Surface height -0.3 – 1.7 (-0.012 – 0.067)
Back door panel – Rear combination lamp	B – B	G	Clearance 4.0 – 8.0 (0.157 – 0.315)
Back door panel – Rear combination lamp	C – C	H	Clearance 4.0 – 8.0 (0.157 – 0.315)
Back door panel – Body side outer	D – D	I	Clearance 5.0 – 7.0 (0.197 – 0.276)
		J	Surface height -1.0 – 1.1 (0.039 – 0.043)

FITTING ADJUSTMENT

- Check the clearance and the evenness between the back door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
- In case any parts are out of specification, adjust them according to the procedures shown below.
- Loosen the bumper rubber.
- Loosen the back door striker mounting bolts.

BACK DOOR

< ON-VEHICLE REPAIR >

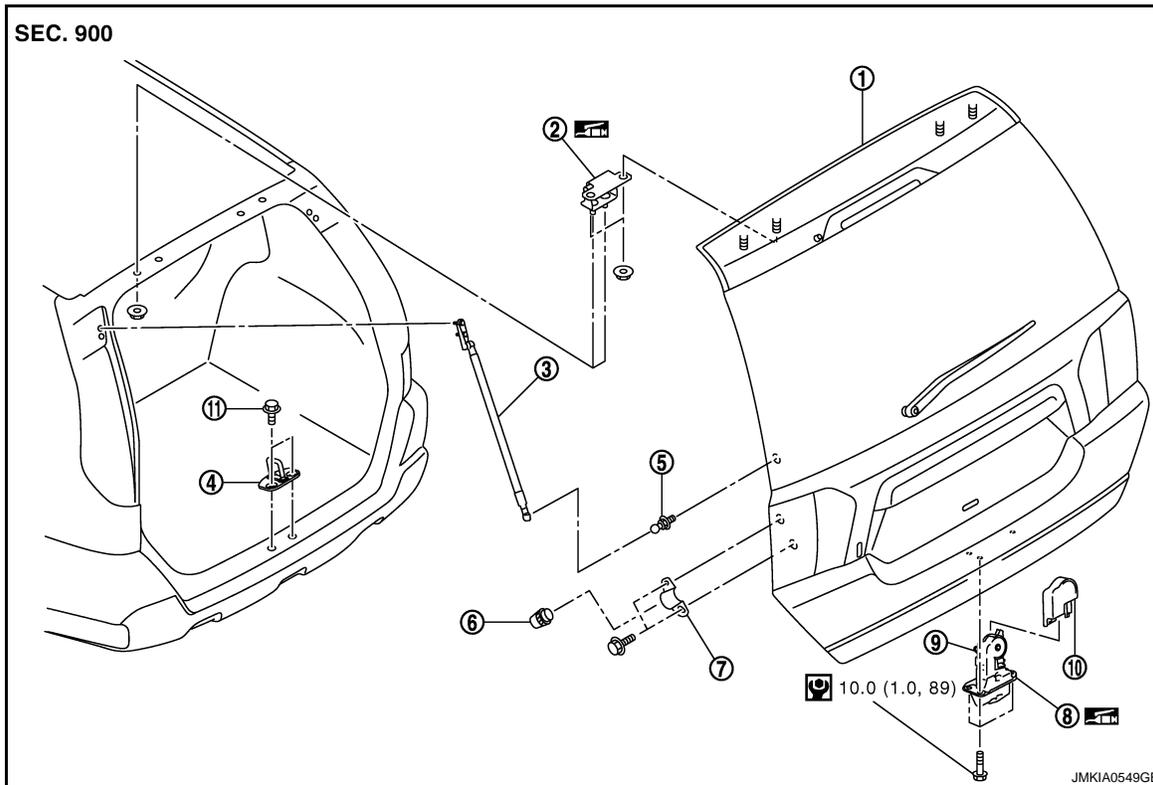
[WITHOUT I-KEY & SUPER LOCK]

5. Lift up the back door approximately 100 – 150 mm (3.937 – 5.906 in) height then close it lightly and check that it is engaged firmly with the back door closed.
6. Check the clearance and evenness.
7. Finally tighten the back door striker.

BACK DOOR STRIKER

BACK DOOR STRIKER : Exploded View

INFOID:000000001451830



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|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STRIKER : Removal and Installation

INFOID:000000001451831

REMOVAL

Remove the TORX bolts, and then remove the back door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the back door open/close operation after installation.
- When removing and installing the back door striker, be sure to perform the fitting adjustment. Refer to [DLK-903. "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR HINGE

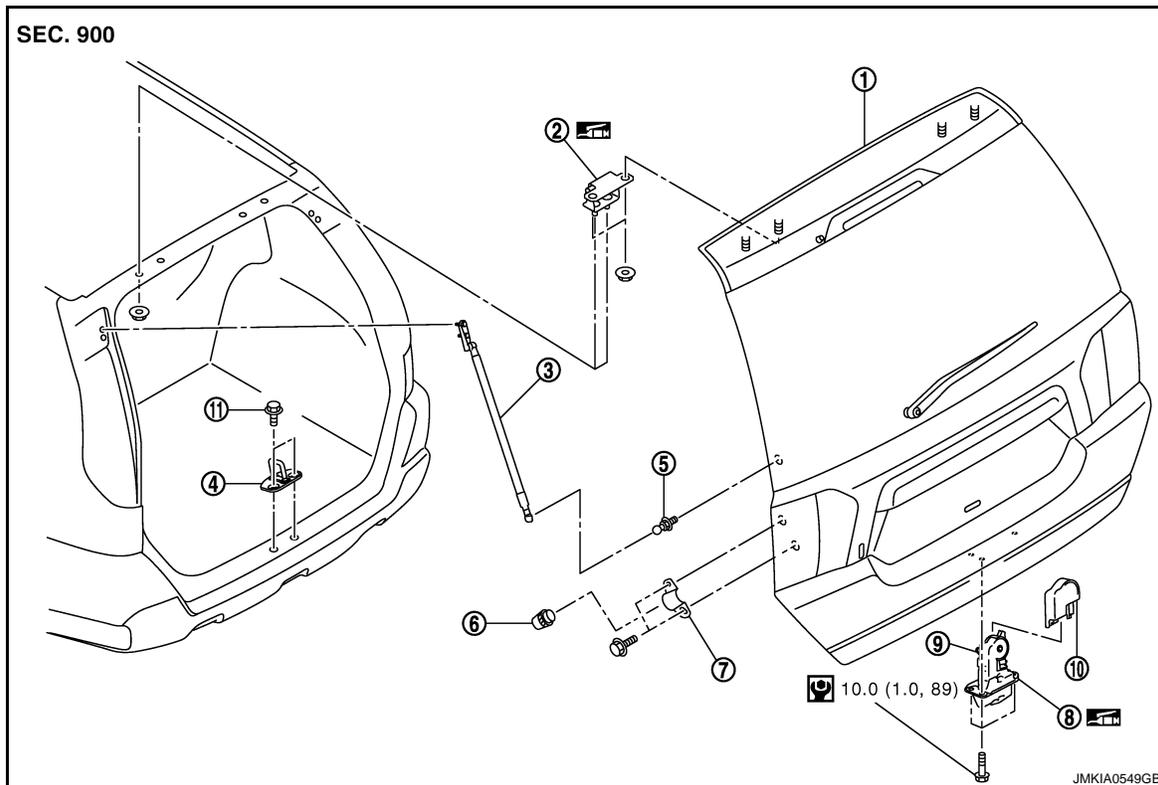
BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR HINGE : Exploded View

INFOID:000000001451833



- | | | |
|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR HINGE : Removal and Installation

INFOID:000000001451834

REMOVAL

1. Remove the back door assembly. Refer to [DLK-902, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove the back door weather-strip. Refer to [DLK-907, "BACK DOOR WEATHER-STRIP : Removal and Installation"](#).
3. Remove the luggage side lower finisher. Refer to [INT-28, "Removal and Installation"](#).
4. Remove the luggage side upper finisher. Refer to [INT-28, "Removal and Installation"](#).
5. Using remover tool, remove the headlining clip at the rear side of the headlining. Refer to [INT-22, "NORMAL ROOF : Exploded View"](#) (NORMAL ROOF), [INT-25, "SUNROOF : Exploded View"](#) (SUNROOF).
6. Remove the rear side of the headlining.
7. Remove the back door hinge mounting nuts (body side), and then remove the back door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the back door open/close operation after installation.
- Check the hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the back door assembly, perform the fitting adjustment. Refer to [DLK-903, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting nuts.

BACK DOOR

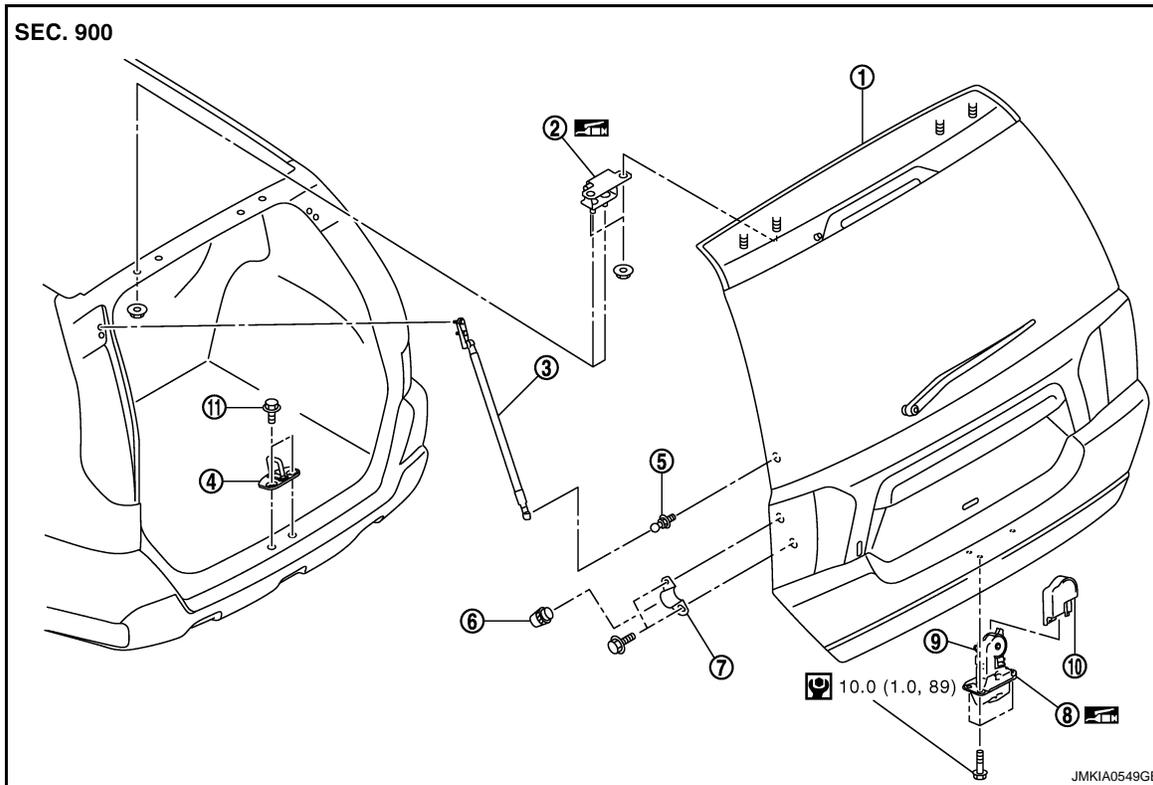
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:000000001451836



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|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STAY : Removal and Installation

INFOID:000000001451837

REMOVAL

1. Remove the mounting bolts (body side), and then remove the back door stay bracket.
2. Remove the stud ball (back door side), and then remove the back door stay.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the back door open/close operation after installation.

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Exploded View

INFOID:000000001451838

REMOVAL

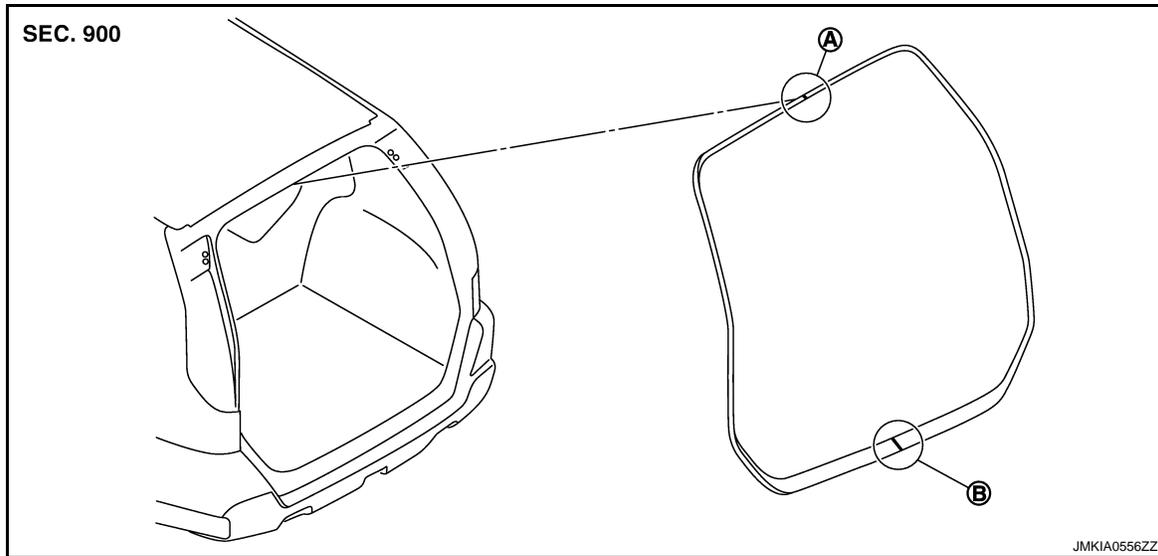
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BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]



1. Back door weather-strip
- A. Mark (upper)
- B. Mark (lower)

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000001451839

REMOVAL

Pull up and remove engagement with body from the weather-strip joint.

CAUTION:

After removal, do not pull strongly on the weather-strip.

INSTALLATION

1. Working from the upper section, align the weather-strip mark with vehicle center position mark and install the weather-strip onto the vehicle.
2. For the lower section, align the weather-strip seam with center of the back door striker.
3. After installation, pull the weather-strip gently to ensure that there is no loose section.

NOTE:

Make sure that the weather-strip is fit tightly at each corner and the luggage rear plate.

FRONT DOOR LOCK

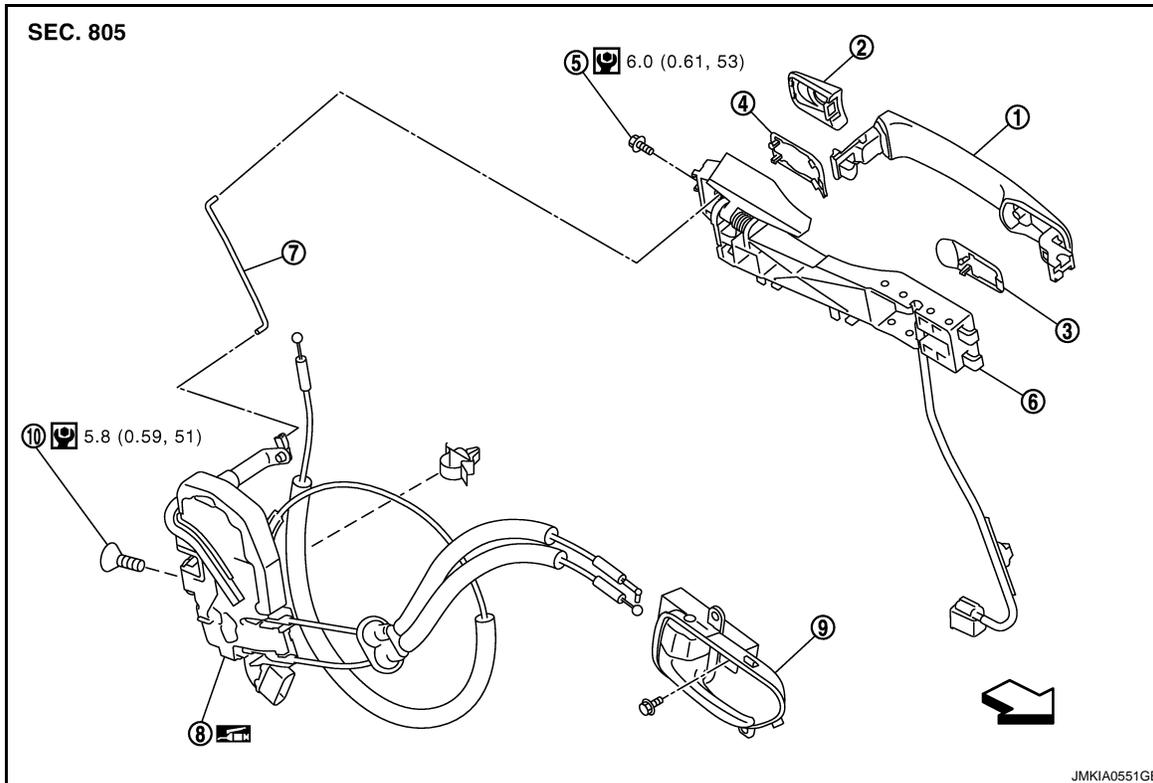
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

FRONT DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001451840



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|----------------------------|---|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder assembly (driver side)
Outside handle escutcheon (passenger side) | 3. Front gasket |
| 4. Rear gasket | 5. TORX bolt | 6. Outside handle bracket |
| 7. Key rod | 8. Door lock assembly | 9. Inside handle |
| 10. TORX bolt | | |

← :Vehicle front

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001451841

REMOVAL

1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable and the lock knob cable.
3. Remove the front door glass. Refer to [GW-17. "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-17. "Exploded View"](#).
5. Disconnect the door antenna and the door request switch connector and remove the harness clamp (models with Intelligent Key system).

FRONT DOOR LOCK

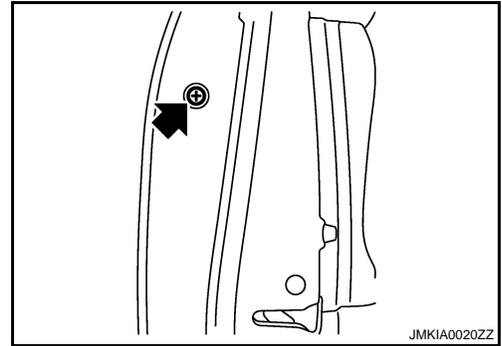
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

6. Remove the door side grommet, and loosen the TORX bolt.

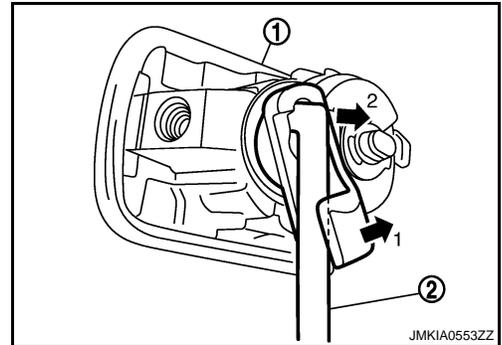
CAUTION:

Do not forcibly remove the TORX bolt.

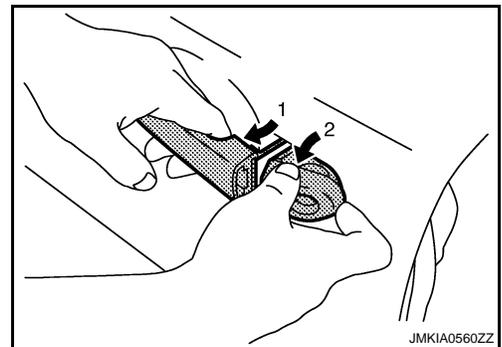


7. Reach in to separate the door key cylinder rod connection (on the handle) (driver side).

1. Door key cylinder assembly
2. Key rod

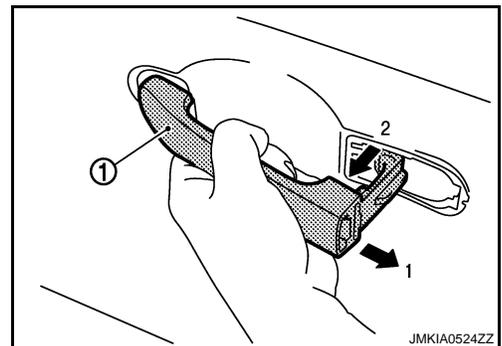


8. While pulling the outside handle, remove door key cylinder assembly.



9. Disconnect front door request switch harness connector (models with Intelligent Key system).

10. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.

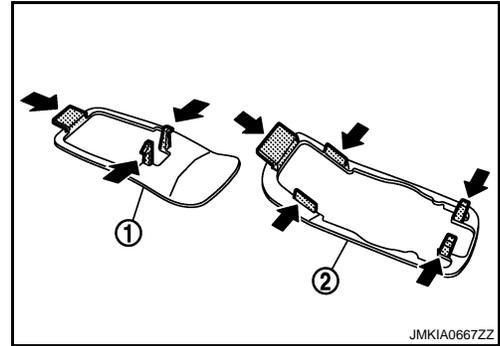


FRONT DOOR LOCK

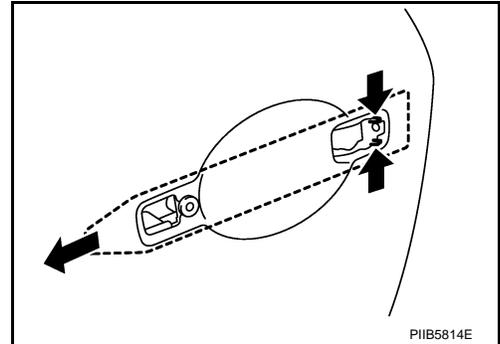
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

11. Remove the front gasket (1) and the rear gasket (2).



12. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



13. Reach in to separate the outside handle cable connection.

14. Remove the door lock assembly TORX bolts.

15. Disconnect the door lock actuator connector, and then remove the door lock assembly.

16. Remove the key rod from door lock assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

INSIDE HANDLE

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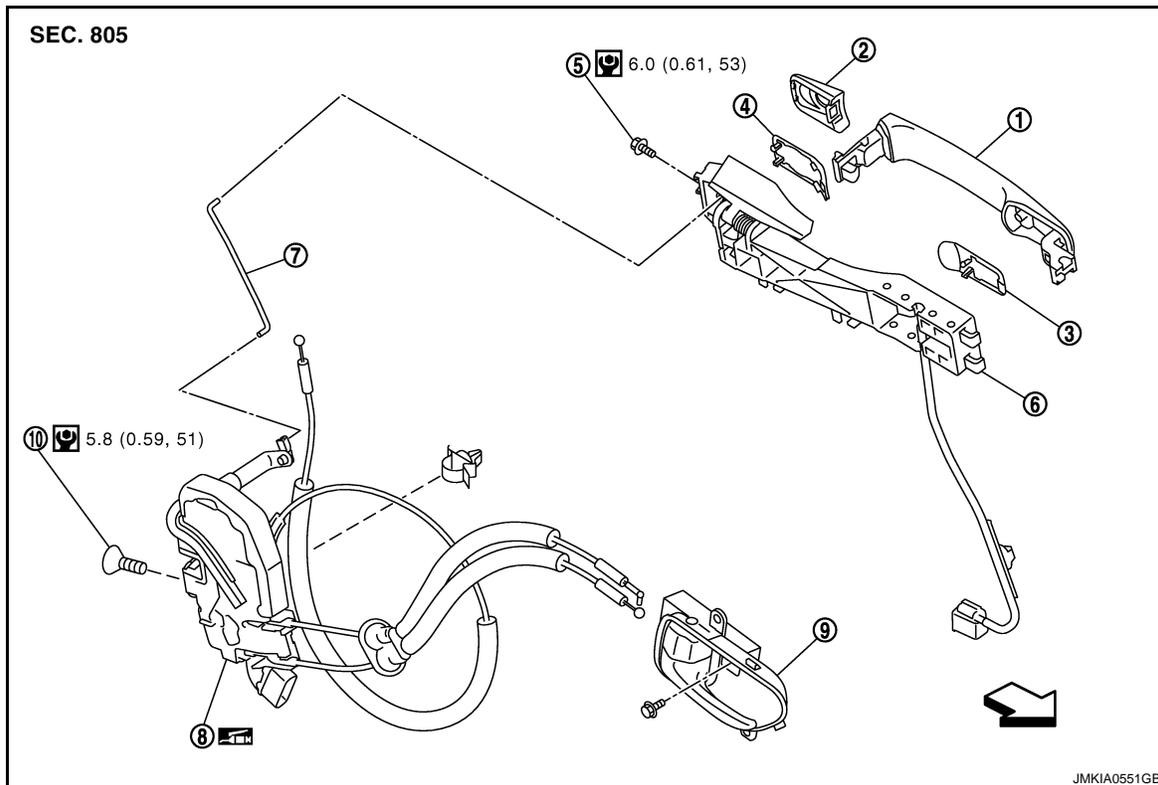
FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

INSIDE HANDLE : Exploded View

INFOID:000000001451843



- | | | |
|----------------------------|---|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder assembly (driver side)
Outside handle escutcheon (passenger side) | 3. Front gasket |
| 4. Rear gasket | 5. TORX bolt | 6. Outside handle bracket |
| 7. Key rod | 8. Door lock assembly | 9. Inside handle |
| 10. TORX bolt | | |

← :Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001451844

REMOVAL

1. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolts.
3. Disconnect the inside handle knob cable and the lock knob cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

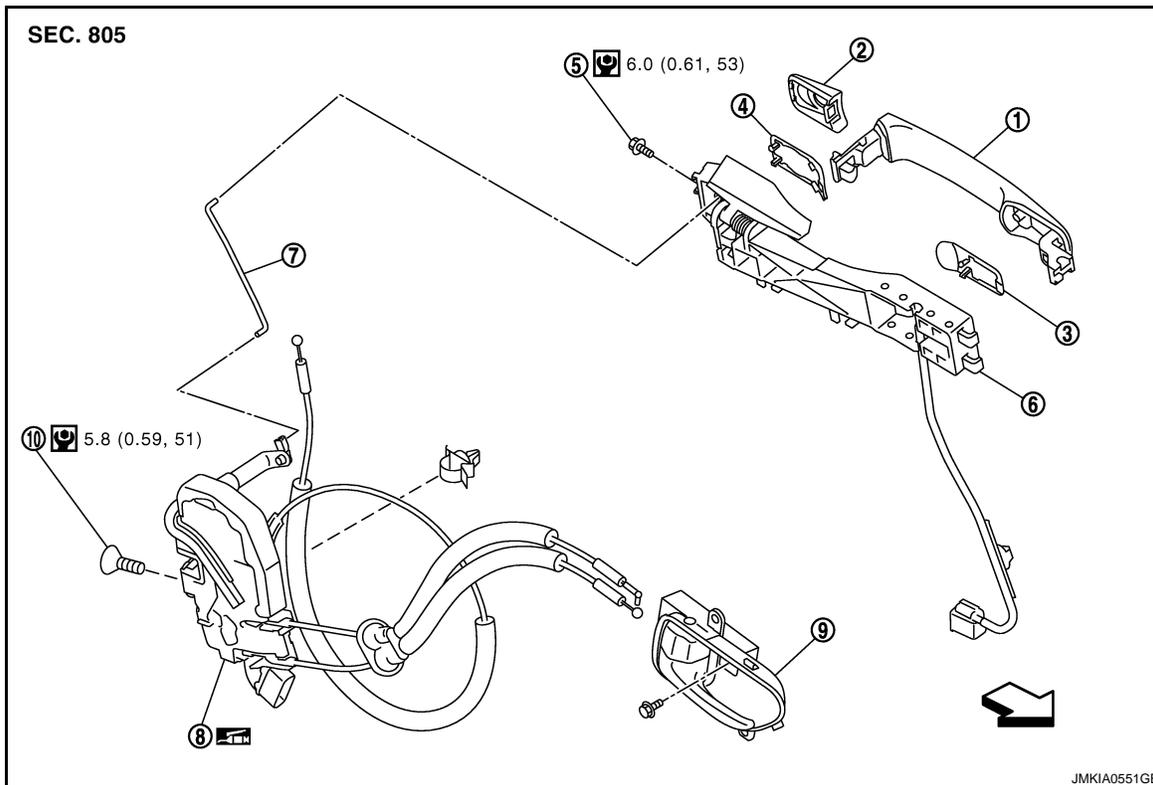
FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

OUTSIDE HANDLE : Exploded View

INFOID:000000001451846



- | | | |
|----------------------------|---|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder assembly (driver side) | 3. Front gasket |
| | Outside handle escutcheon (passenger side) | |
| 4. Rear gasket | 5. TORX bolt | 6. Outside handle bracket |
| 7. Key rod | 8. Door lock assembly | 9. Inside handle |
| 10. TORX bolt | | |

← :Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

INFOID:000000001451847

REMOVAL

1. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable and the lock knob cable.
3. Remove the front door glass. Refer to [GW-17, "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-17, "Exploded View"](#).
5. Disconnect the connector and remove the harness clamp (models with Intelligent Key system).

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FRONT DOOR LOCK

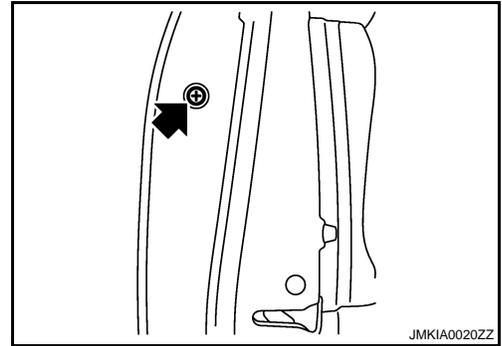
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

6. Remove the door side grommet, and loosen the TORX bolt.

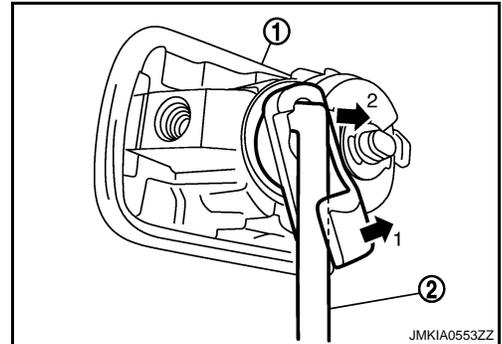
CAUTION:

Do not forcibly remove the TORX bolt.



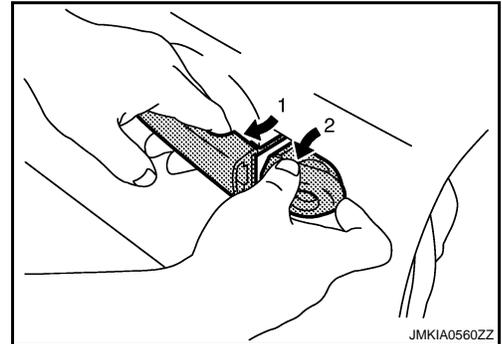
7. Reach in to separate the door key cylinder rod connection (on the handle) (driver side).

1. Door key cylinder assembly
2. Key rod



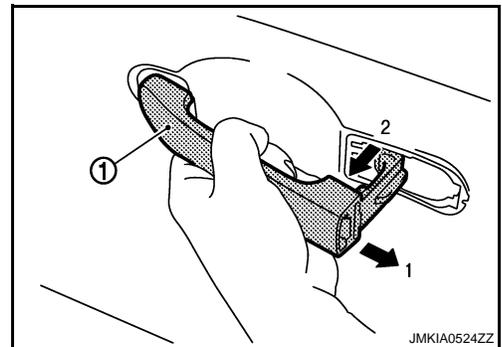
8. Disconnect the door key cylinder switch harness connector.

9. While pulling the outside handle, remove the door key cylinder assembly (driver side) or outside handle escutcheon (passenger side).



10. Disconnect the front door request switch harness connector (models with Intelligent Key system).

11. While pulling the outside handle, slide toward rear of vehicle to remove the outside handle (1).

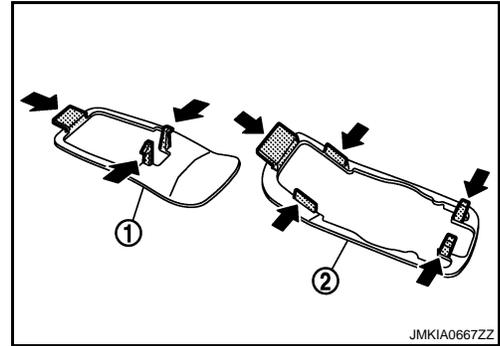


FRONT DOOR LOCK

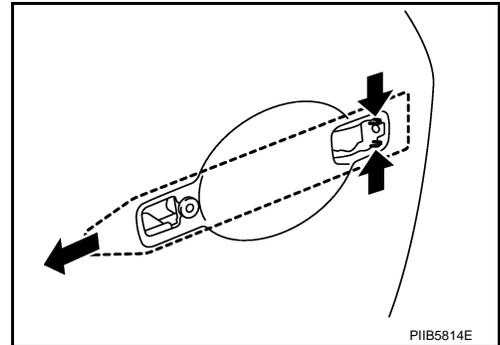
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

12. Remove the front gasket (1) and rear gasket (2).



13. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



14. Reach in to separate the outside handle cable connection.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

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REAR DOOR LOCK

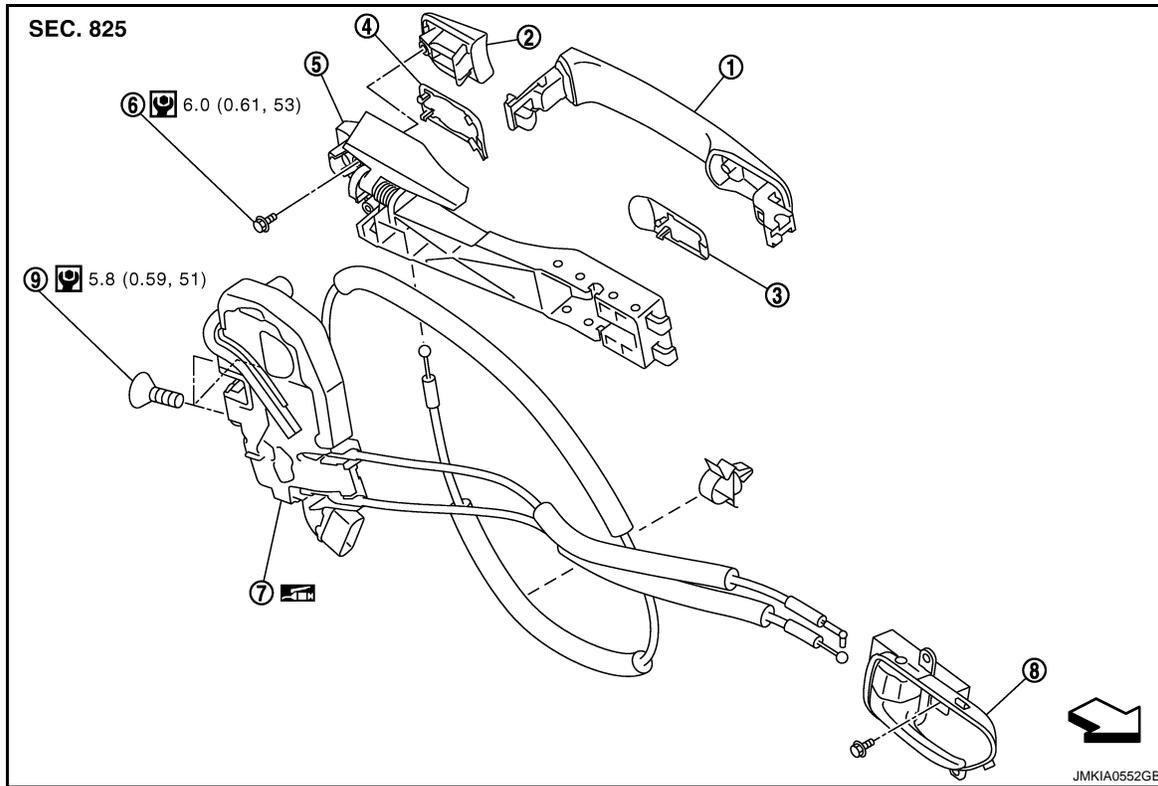
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

REAR DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001451848



- | | | |
|----------------------------|------------------------------|-----------------|
| 1. Outside handle assembly | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. TORX bolt |
| 7. Door lock assembly | 8. Inside handle | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001451849

REMOVAL

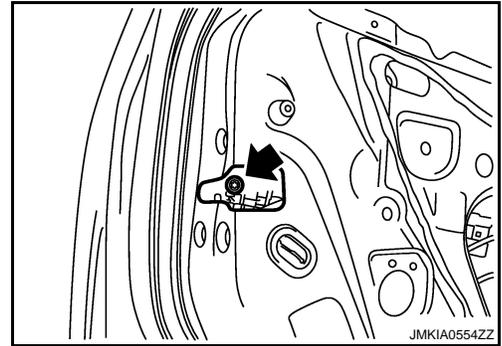
1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable.
3. Remove the door sealing screen. Refer to [GW-23, "Removal and Installation"](#).
4. Remove the lower partition sash. Refer to [GW-17, "Removal and Installation"](#).
5. Remove the corner piece assembly. Refer to [GW-17, "Removal and Installation"](#).
6. Remove the door lock assembly TORX bolts.
7. Disconnect the door lock actuator connector.

REAR DOOR LOCK

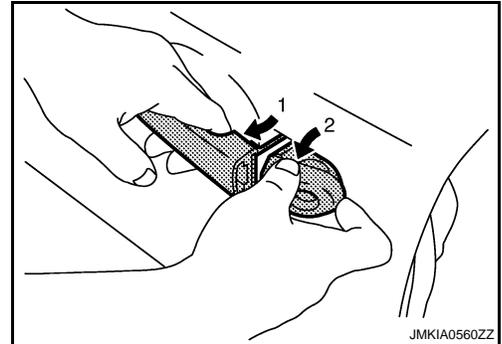
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

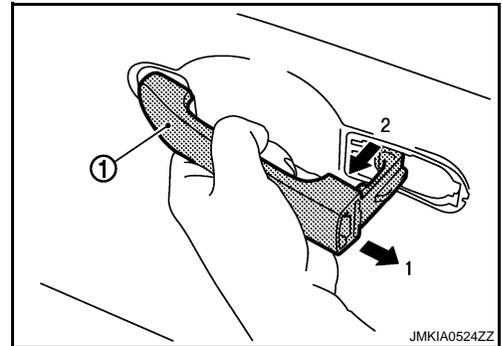
8. Slide the door lock assembly from the inside the door panel until the outside handle escutcheon TORX bolt can be seen.



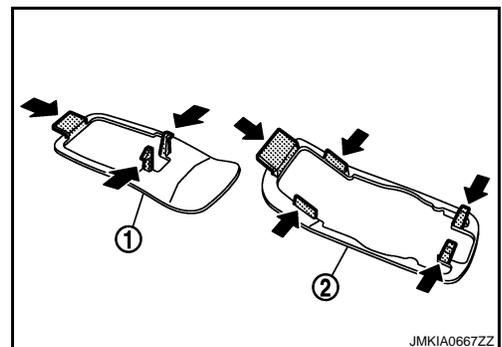
9. While pulling the outside handle, remove the outside handle escutcheon.



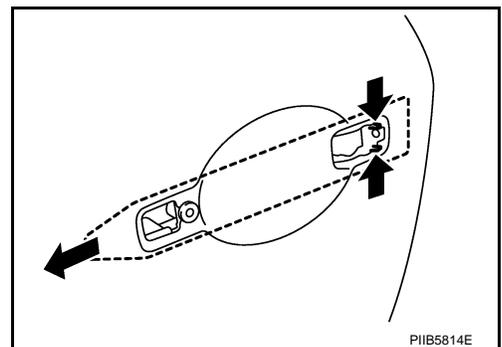
10. While pulling the outside handle(1), slide toward rear of vehicle to remove the outside handle.



11. Remove the front gasket (1) and the rear gasket (2).



12. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



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REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

13. Reach in to separate the outside handle cable connection.
14. Remove the door lock assembly.

INSTALLATION

Install in the reverse order of removal.

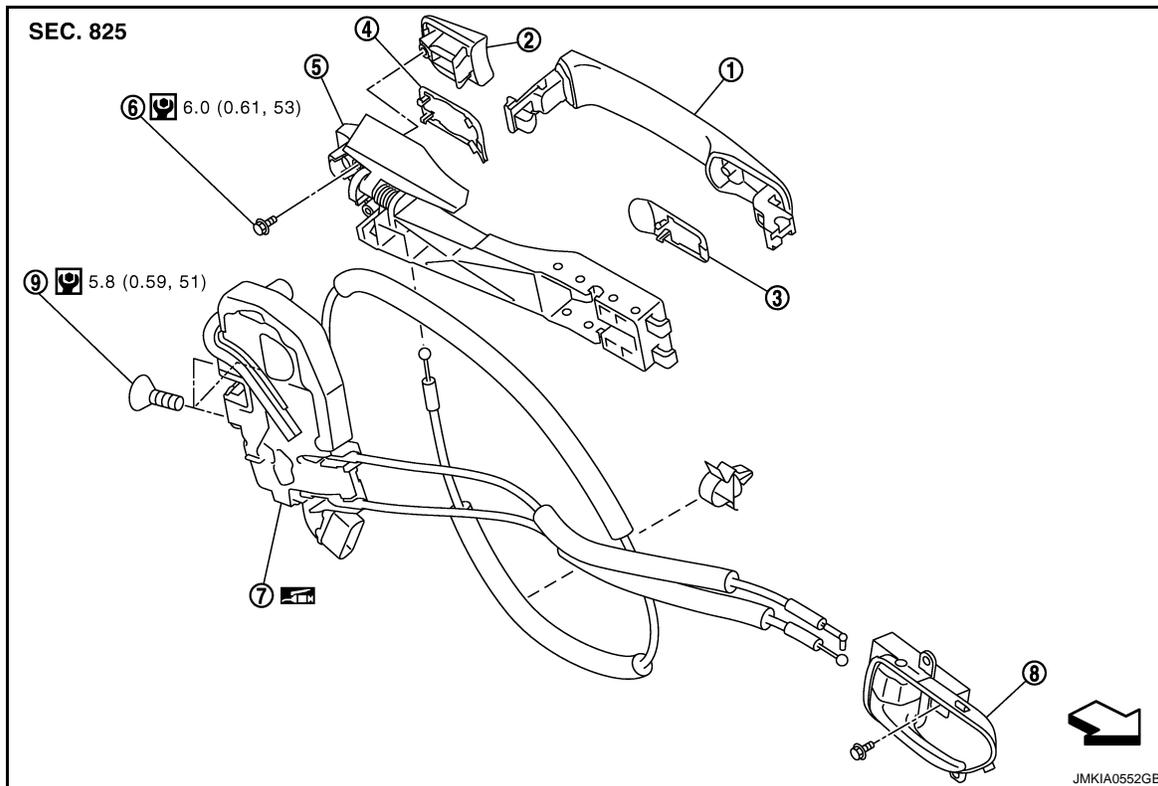
CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000001451851



- | | | |
|----------------------------|------------------------------|-----------------|
| 1. Outside handle assembly | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. TORX bolt |
| 7. Door lock assembly | 8. Inside handle | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001451852

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting screws.
3. Disconnect the inside handle knob cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

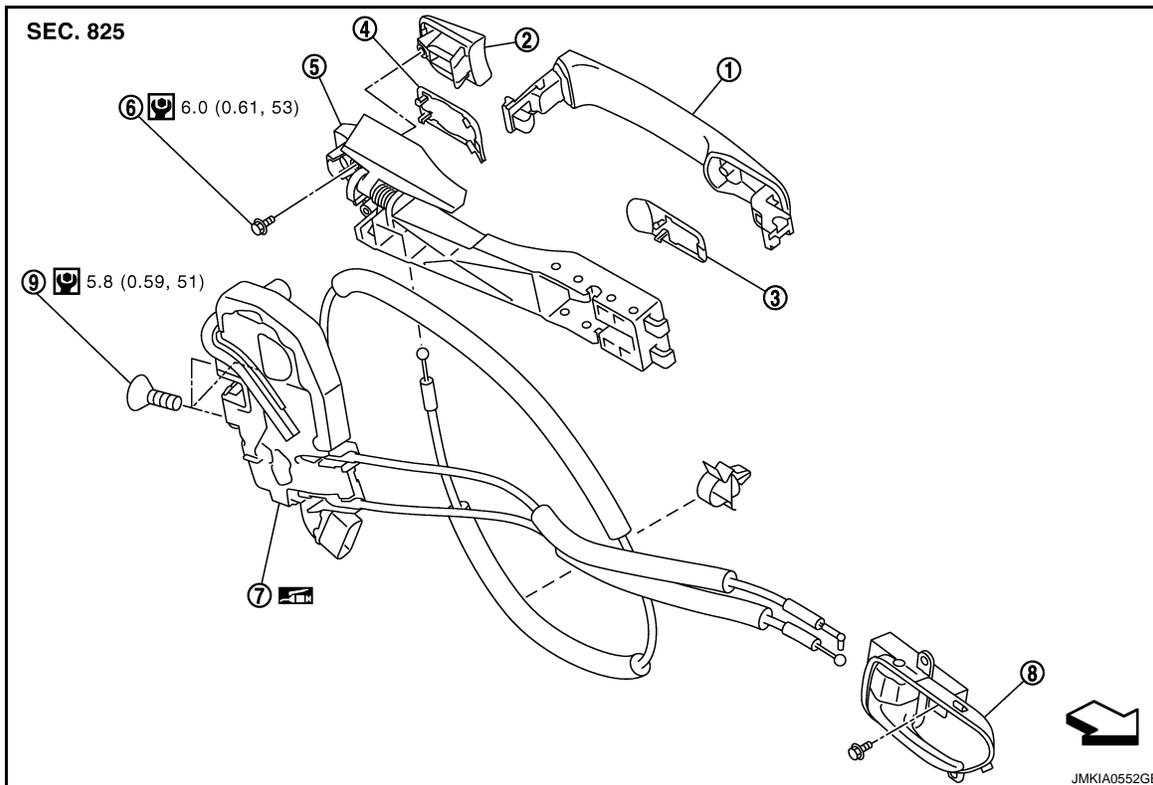
REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

OUTSIDE HANDLE : Exploded View

INFOID:000000001451854



- | | | |
|----------------------------|------------------------------|-----------------|
| 1. Outside handle assembly | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. TORX bolt |
| 7. Door lock assembly | 8. Inside handle | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

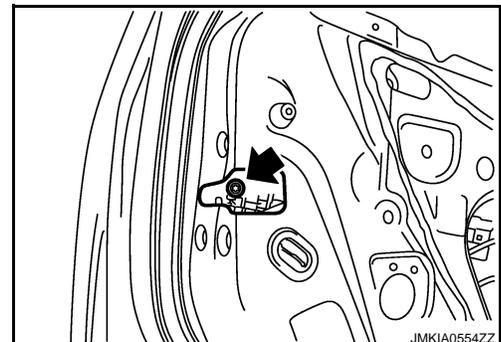
OUTSIDE HANDLE : Removal and Installation

INFOID:000000001451855

DLK

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable.
3. Remove the door sealing screen. Refer to [GW-23. "Removal and Installation"](#).
4. Remove the lower partition sash. Refer to [GW-17. "Removal and Installation"](#).
5. Remove the corner piece assembly. Refer to [GW-17. "Removal and Installation"](#).
6. Remove the door lock assembly TORX bolts.
7. Disconnect the door lock actuator connector.
8. Slide the door lock assembly from the inside the door panel until the outside handle escutcheon TORX bolt can be seen.

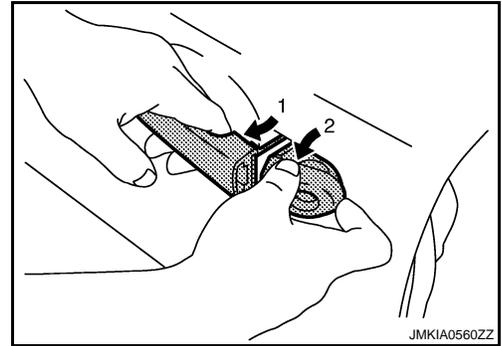


REAR DOOR LOCK

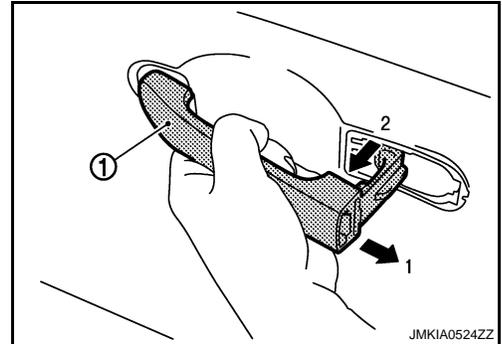
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

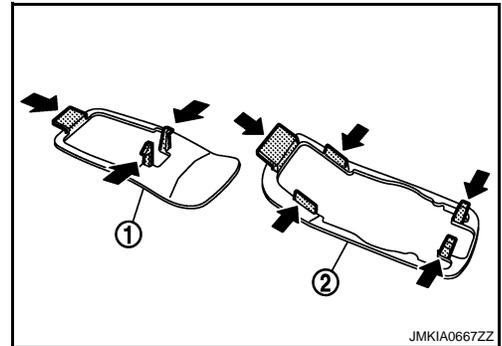
9. While pulling the outside handle, remove the outside handle escutcheon.



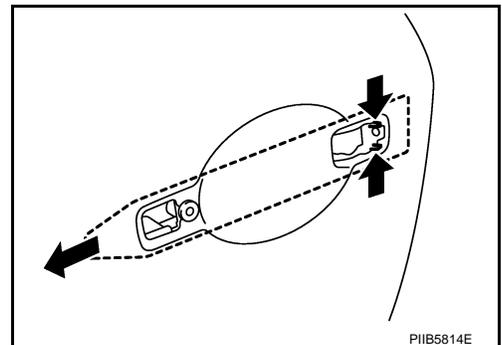
10. While pulling the outside handle(1), slide toward rear of vehicle to remove the outside handle.



11. Remove the front gasket (1) and the rear gasket (2).



12. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



13. Reach in to separate the outside handle cable connection.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

BACK DOOR LOCK

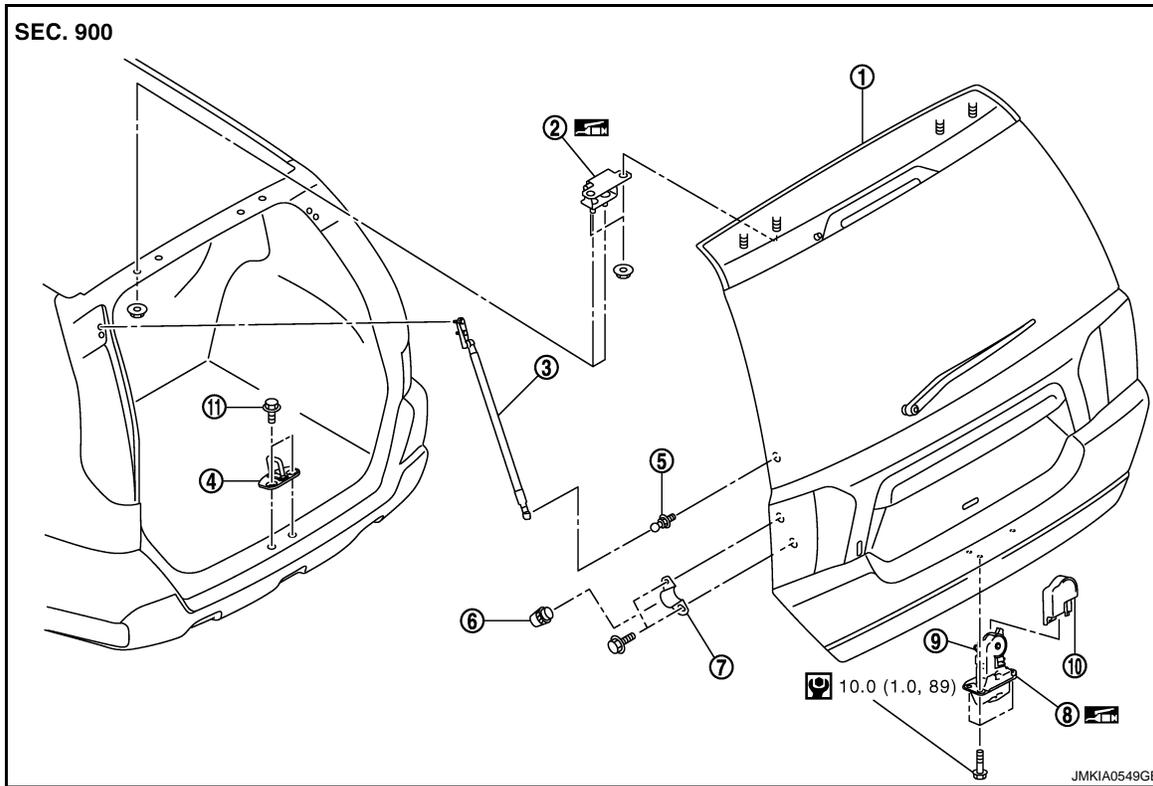
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001451856



- | | | |
|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001451858

REMOVAL

1. Remove the back door trim finisher lower. Refer to [INT-31. "Removal and Installation"](#).
2. Disconnect the back door lock assembly and back door opener switch connectors.
3. Remove the back door lock mounting bolts, and then remove the back door lock and actuator.

INSTALLTION

Install in the reverse order of removal.

CAUTION:

Check the back door lock/unlock operation after installation.

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FUEL FILLER LID OPENER

< ON-VEHICLE REPAIR >

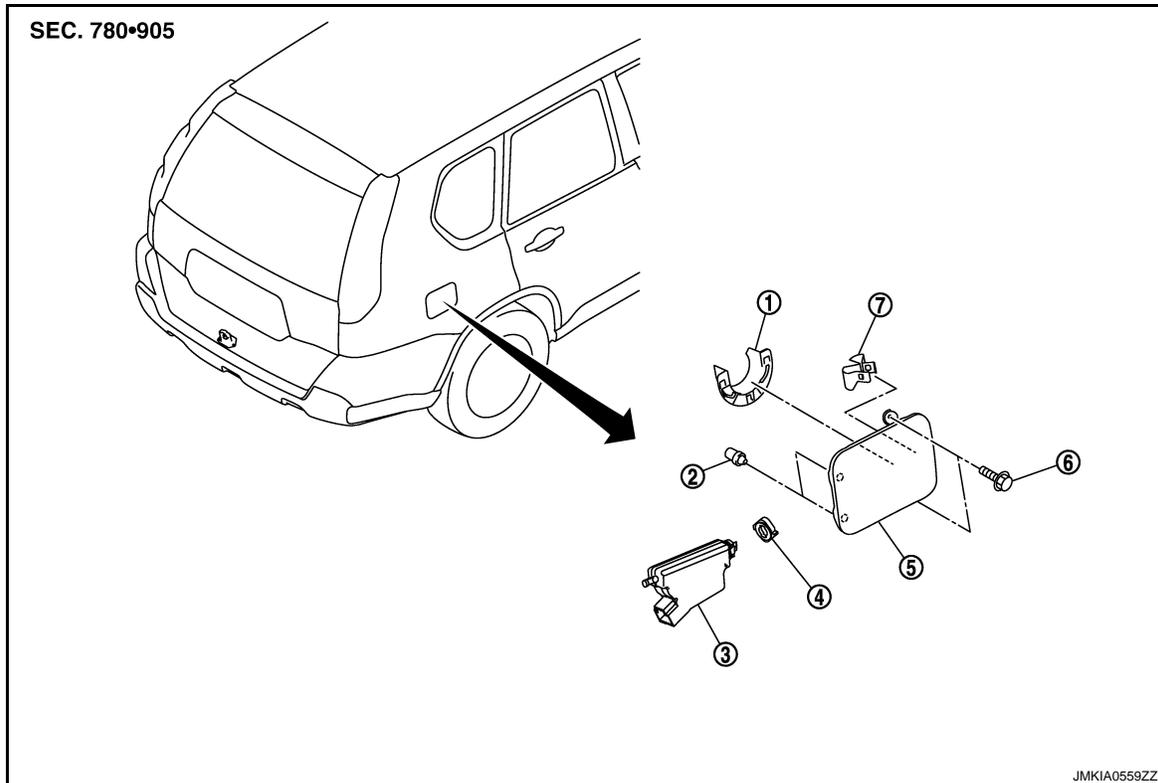
[WITHOUT I-KEY & SUPER LOCK]

FUEL FILLER LID OPENER

FUEL FILLER LID

FUEL FILLER LID : Exploded View

INFOID:000000001451859



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|------------------------------|-----------------------------|----------------------------------|
| 1. Fuel filler cap holder | 2. Bumper rubber | 3. Fuel filler lid lock actuator |
| 4. Fuel filler lid lock seal | 5. Fuel filler lid assembly | 6. TORX bolt |
| 7. Spring | | |

FUEL FILLER LID : Removal and Installation

INFOID:000000001451860

REMOVAL

1. Fully open the fuel filler lid.
2. Remove the filler cap.
3. Remove the TORX bolts, and then remove the fuel filler lid assembly.
4. Remove the following parts after removing the fuel filler lid assembly.
 - Fuel filler cap holder
 - Bumper rubber
 - Spring

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the fuel filler lid open/close operation after installation.
- After installation, apply the touch-up paint (the body color) onto the head of the mounting screws.

NOTE:

After installation, perform fitting adjustment.

mm(in)

	Clearance	Evenness
Fuel filler lid— Body side outer	2.0 – 4.0 (0.079 – 0.157)	-1.0 – 1.0 (-0.039 – 0.039)

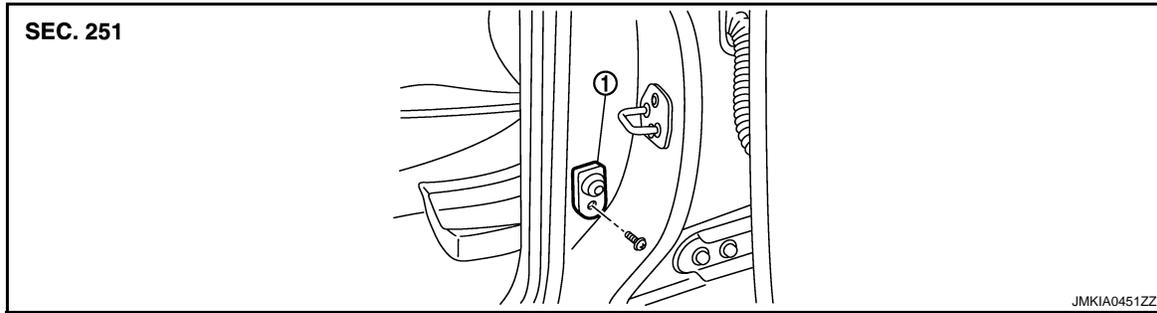
DOOR SWITCH

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

DOOR SWITCH

Exploded View



1. Door switch (driver side)

Removal and Installation

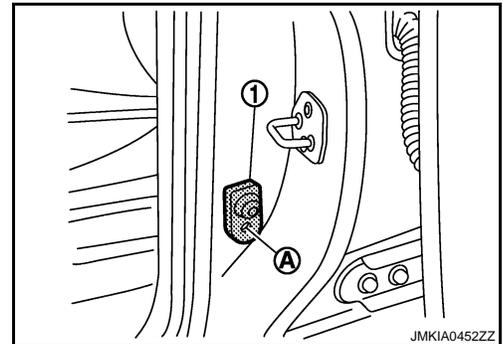
INFOID:000000001495972

REMOVAL

1. Remove the door switch mounting bolt (A), and then remove door switch (1).

NOTE:

The same procedure is also performed for door switch (passenger side, rear LH and rear RH).



INSTALLATION

Install in the reverse order of removal.

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BACK DOOR OPENER SWITCH

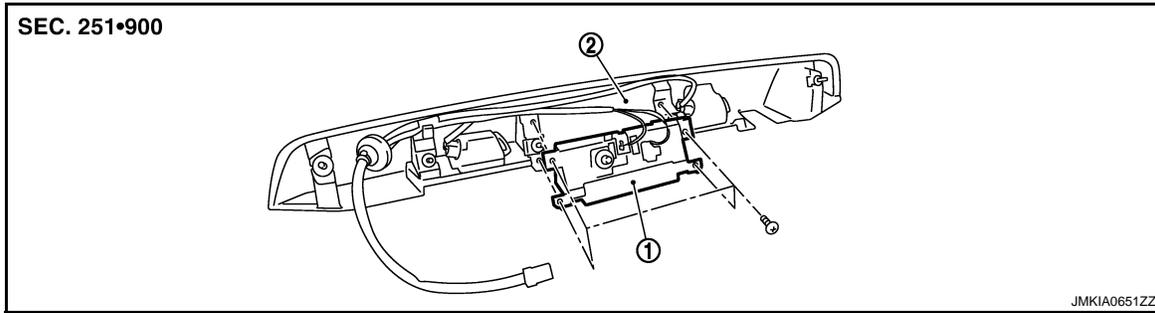
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH

Exploded View

INFOID:000000001495969



1. Back door opener switch assembly

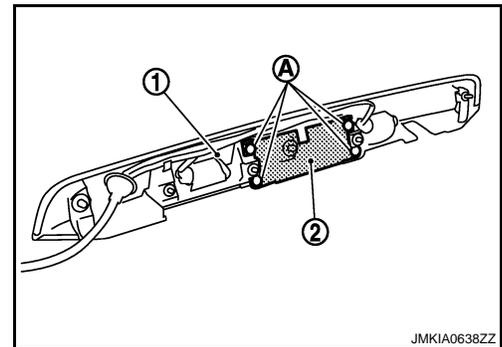
2. Back door finisher

Removal and Installation

INFOID:000000001495970

REMOVAL

1. Remove the back door finisher. Refer to [INT-31, "Removal and Installation"](#).
2. Remove the back door opener switch assembly mounting bolt (A).
3. Remove the back door opener switch assembly (2) from back door finisher (1).



INSTALLATION

Install in the reverse order of removal.

KEYFOB BATTERY

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

KEYFOB BATTERY

Exploded View

INFOID:000000001281233

Refer to [DLK-755. "Removal and Installation"](#).

Removal and Installation

INFOID:000000001281234

REMOVAL

1. Remove installation screw (7) on the rear of keyfob.
2. Place the key with the lower case (6) facing up. Set a screwdriver (A) wrapped with tape into illustration of the lower case (6) and separate the lower case (6) from the upper case (1).

CAUTION:

- Do not touch the circuit board or battery terminal.
- The keyfob is water-resistant. However, if it does get wet, immediately wipe it dry.

3. When replacing the circuit board assembly, remove circuit board assembly from the upper case (1).

[Circuit board assembly: Switch rubber (3) + Board surface (4)]

CAUTION:

Do not touch the printed circuits directly.

4. Remove the battery (5) from the lower case (6) and replace it.

Battery replacement : Coin-type lithium battery (CR2032)

CAUTION:

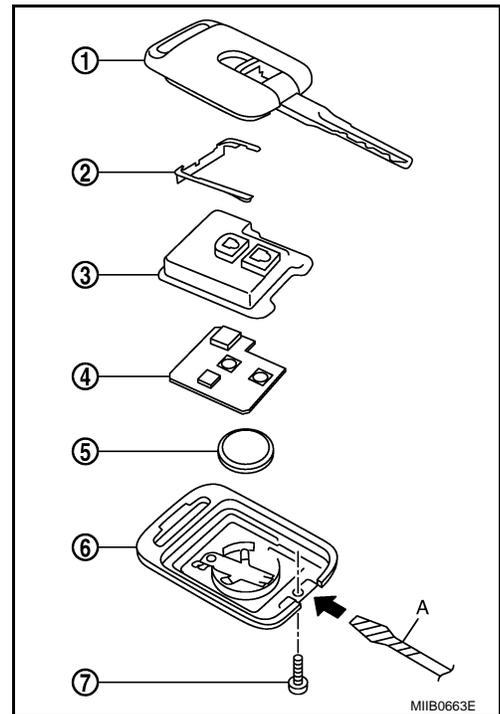
When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.

5. After replacement, fit the lower and upper cases together, part (2), (3) and tighten with the screw.

CAUTION:

After replacing the battery, Be sure to check that door locking operates normally using the keyfob.

Refer to [DLK-657. "Component Function Check"](#).



INSTALLATION

Install in the reverse order of removal.

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT I-KEY, WITH SUPER LOCK]

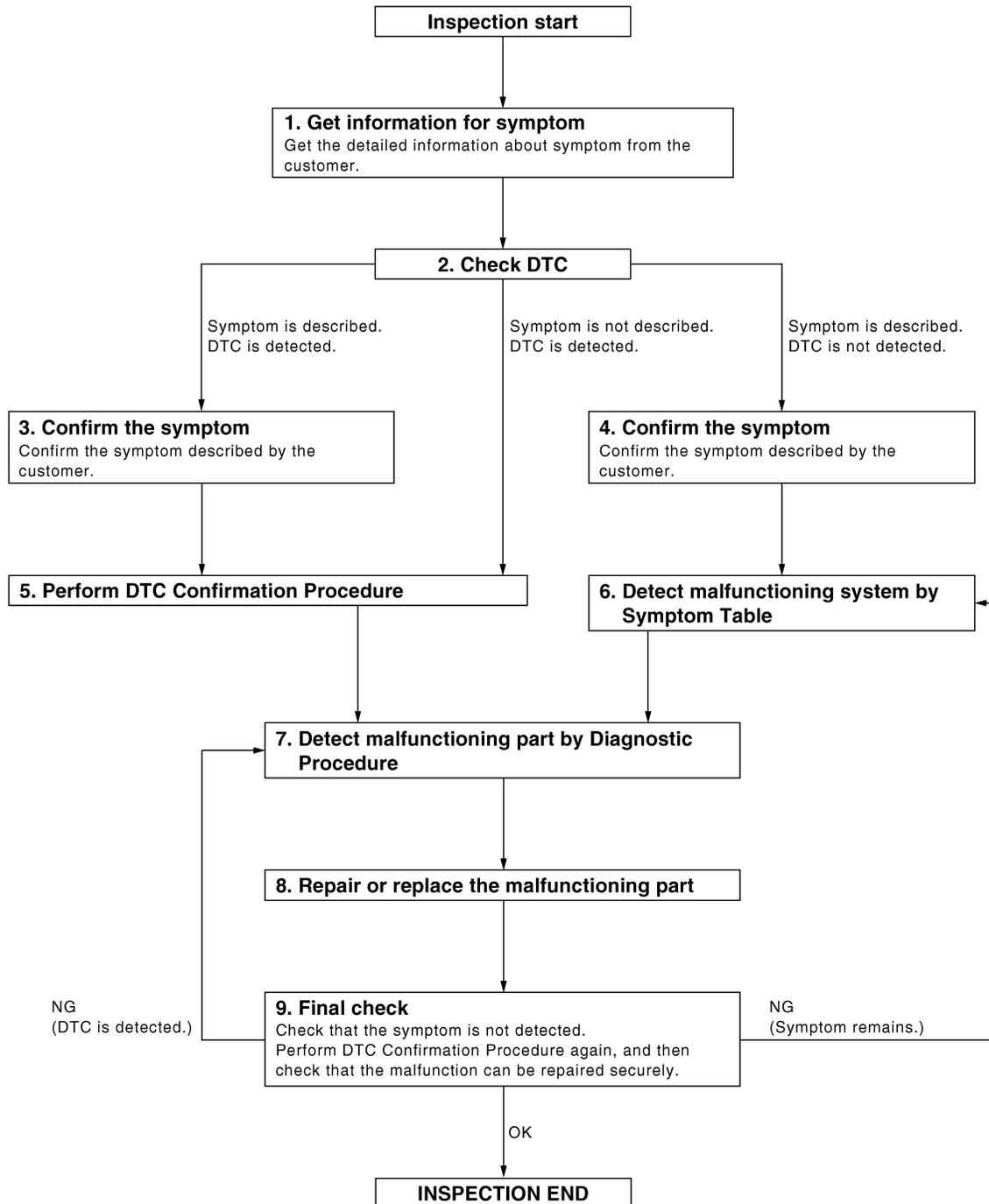
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000001569838

OVERALL SEQUENCE



DETAILED FLOW

JMKIA0676GB

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT I-KEY, WITH SUPER LOCK]

1.GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2.CHECK DTC

1. Check DTC for BCM.
2. Perform the following procedure if DTC is displayed.
 - Erase DTC.
 - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

Is any symptom described and any DTC detected?

- Symptom is described, DTC is displayed>>GO TO 3.
- Symptom is described, DTC is not displayed>>GO TO 4.
- Symptom is not described, DTC is displayed>>GO TO 5.

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real-time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in "DATA MONITOR" mode and check real-time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again.
If two or more DTCs are detected, refer to [DLK-856, "DTC Inspection Priority Chart"](#) (BCM) and determine trouble diagnosis order.

Is DTC detected?

- YES >> GO TO 7.
- NO >> Refer to [GI-39, "Intermittent Incident"](#).

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to Symptom Table based on the confirmed symptom in step 4.

>> GO TO 7.

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

The Diagnostic Procedure is described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

>> GO TO 8.

8.REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnostic Procedure again after repair and replacement.
3. Check DTC. If DTC is displayed, erase it.

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT I-KEY, WITH SUPER LOCK]

>> GO TO 9.

9.FINAL CHECK

When DTC was detected in step 9, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunctions have been fully repaired.

When symptom was described by the customer, refer to the confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Are all malfunctions corrected?

NO (DTC is detected)>>GO TO 7.

NO (Symptom remains)>>GO TO 6.

YES >> **INSPECTION END**

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITHOUT I-KEY, WITH SUPER LOCK]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

A

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000001281236

B

Perform the system initialization when replacing or registering Keyfob and ignition key.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000001281237

C

Refer to the CONSULT-III Operation Manual-NATS.

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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

FUNCTION DIAGNOSIS

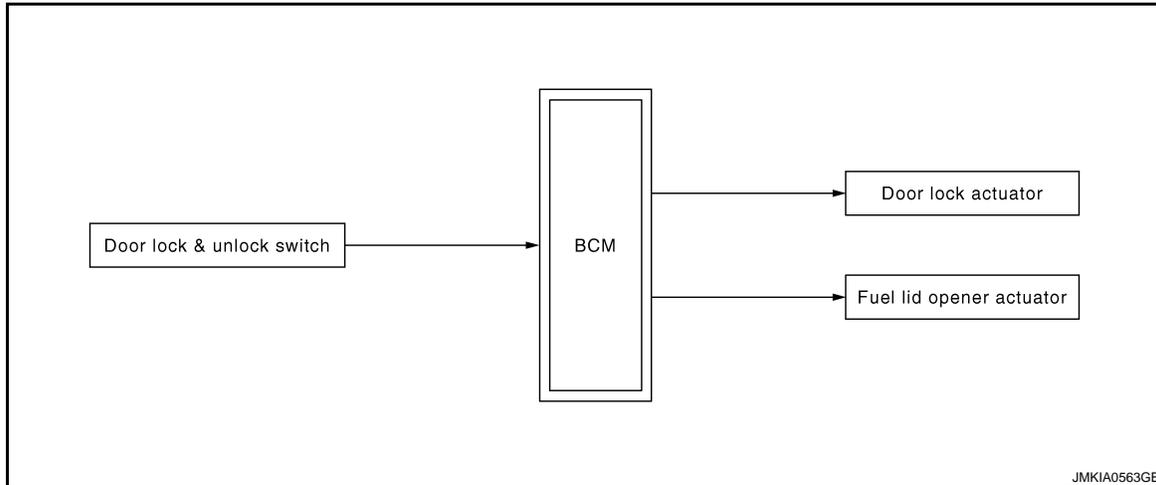
DOOR LOCK FUNCTION

DOOR LOCK AND UNLOCK SWITCH

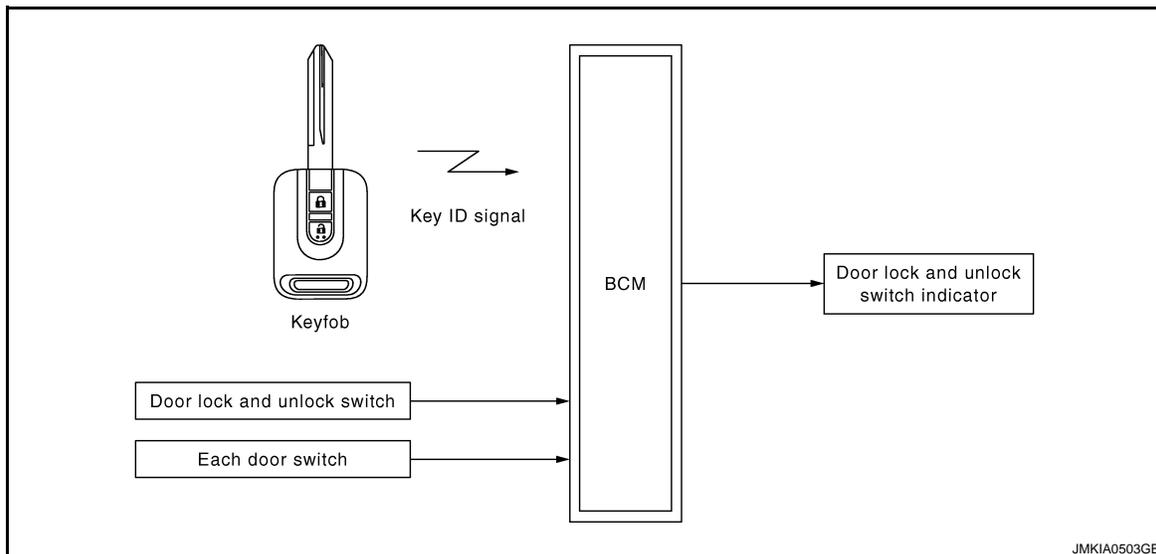
DOOR LOCK AND UNLOCK SWITCH : System Diagram

INFOID:000000001281238

DOOR LOCK AND UNLOCK SWITCH OPERATION



DOOR LOCK AND UNLOCK SWITCH INDICATOR OPERATION



DOOR LOCK AND UNLOCK SWITCH : System Description

INFOID:000000001281239

DOOR LOCK AND UNLOCK SWITCH OPERATION

Functions are available by operating the door lock and unlock switch on center console. Interlocked with the lock/unlock operation of door lock and unlock switch, door lock actuators of all doors are locked/unlocked.

OPERATION CONDITION

If the following conditions are not satisfied, door lock/unlock operation is not performed even if the door lock and unlock switch is operated.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Door lock and unlock switch	Operation condition
Lock operation	All the following conditions are satisfied. <ul style="list-style-type: none"> • Except driver side, doors are closed. • Doors are not locked with keyfob.
Unlock operation	All the following all conditions are satisfied. <ul style="list-style-type: none"> • Doors are not locked with keyfob.

NOTE:

When the door is locked with keyfob, door lock and unlock switch operation will be invalid until either of the following conditions is satisfied.

- Turn ignition switch ON.
- Unlock operation by keyfob.

DOOR LOCK AND UNLOCK SWITCH INDICATOR OPERATION

Door lock and unlock switch indicator indicates door lock status. The indicator turn ON while ignition switch is ON and door is locked. If any door is opened, the indicator will turn OFF.

Door lock and unlock switch indicator have the following 2 functions.

1 Minute Timer

A timer must be running to turn OFF the indicator. The timer will run for 1 minute after locking with keyfob or auto door lock.

30 Minutes Timer

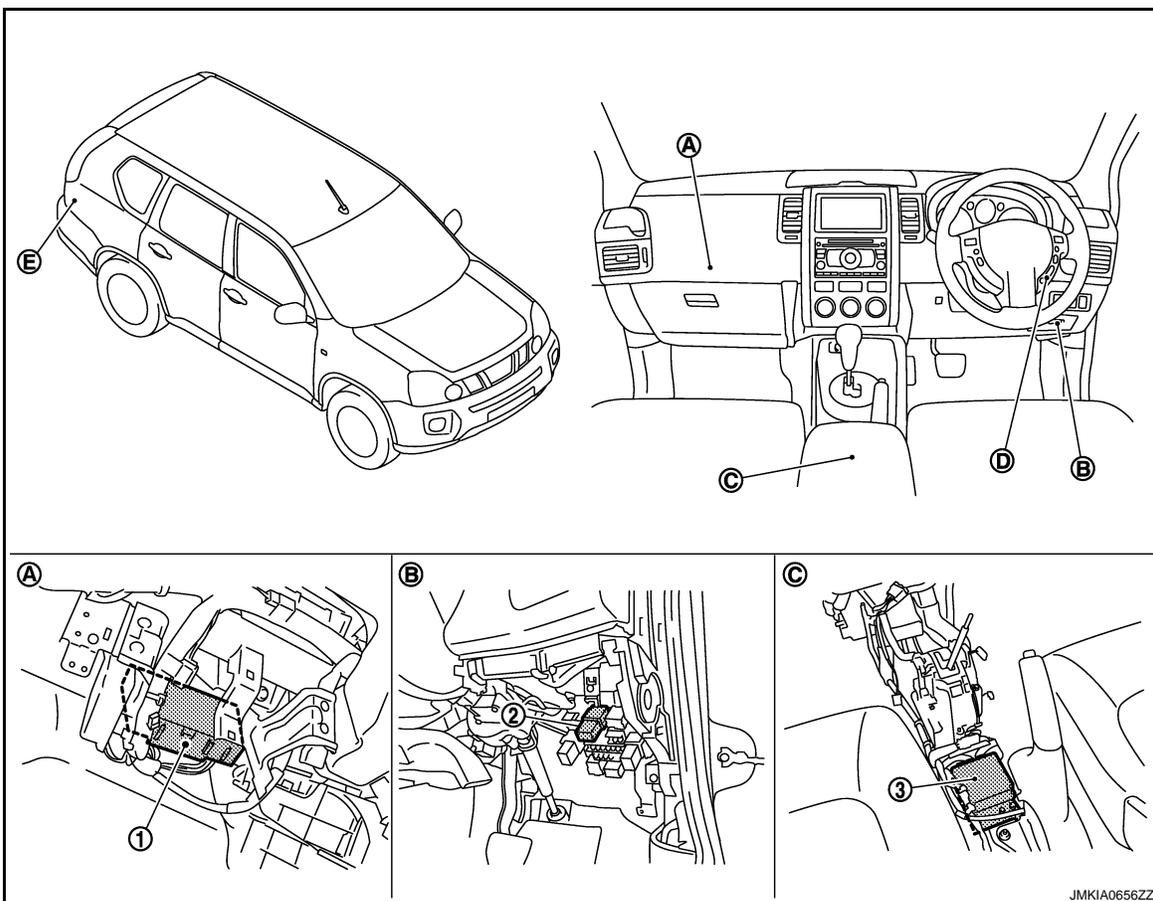
A timer must be running to turn OFF the indicator. The timer will run for 30 minutes after locking with door lock and unlock switch.

NOTE:

1minute timer condition is satisfied while 30 minutes timer is active, however 30 minutes timer does not change when 1 minutes timer is active.

DOOR LOCK AND UNLOCK SWITCH : Component Parts Location

INFOID:000000001281240



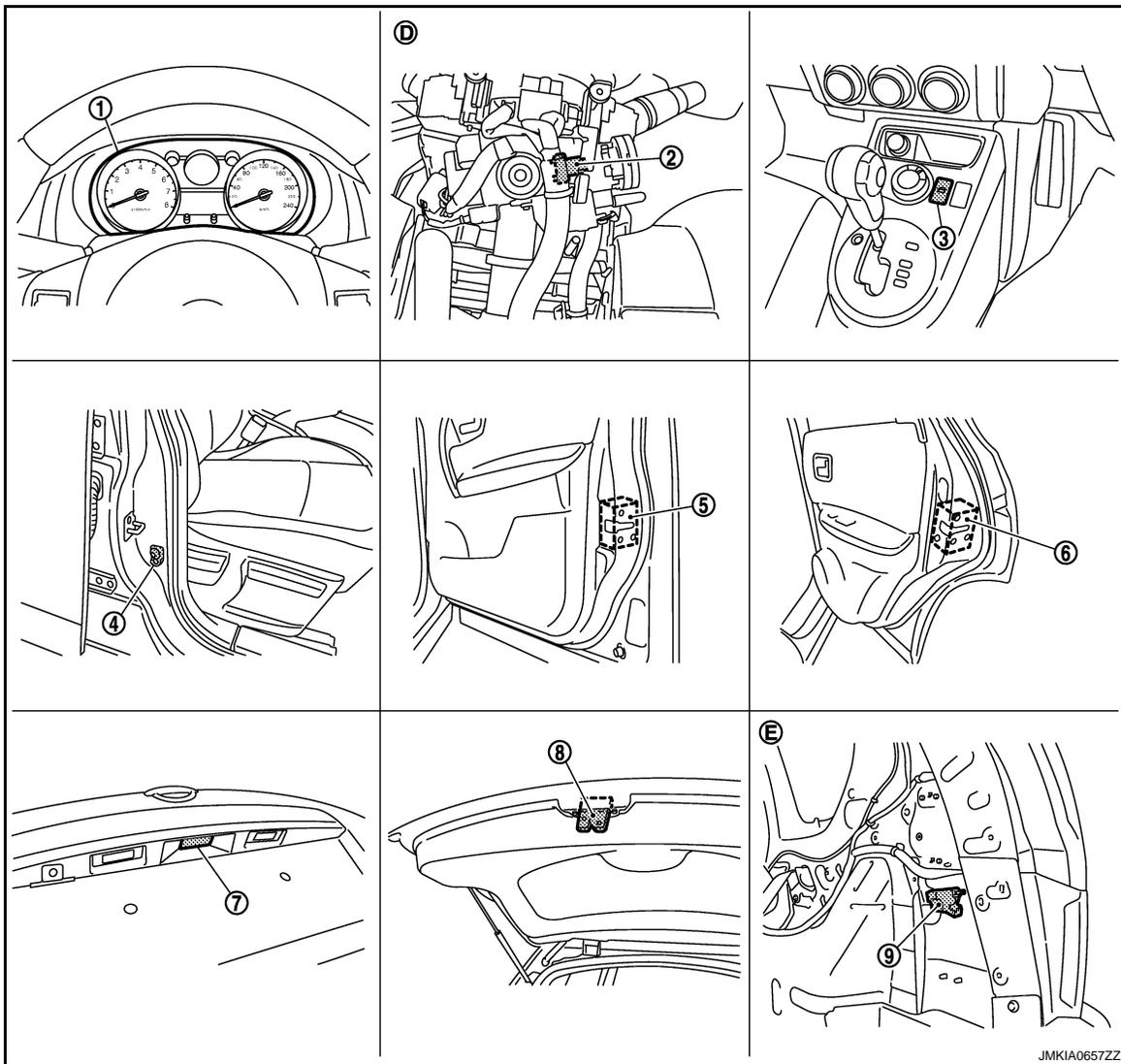
DLK

DOOR LOCK FUNCTION

[WITHOUT I-KEY, WITH SUPER LOCK]

< FUNCTION DIAGNOSIS >

- | | | |
|-------------------------|--|---|
| 1. BCM
M65, M66, M67 | 2. Passenger side anti-hijack relay
M90 | 3. Air bag diagnosis sensor unit
M59 |
| A. Over the glove box | B. View with fuse box lid removed | C. View with center console removed |



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|---|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M25 | 3. Door lock and unlock switch
M89 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D29 | 6. Rear door lock actuator RH
D95 |
| 7. Back door opener switch
D186 | 8. Back door lock assembly (back door switch)
D190 | 9. Fuel lid opener actuator
B58 |

D. View with steering column cover removed

DOOR LOCK AND UNLOCK SWITCH : Component Description

INFOID:000000001281241

Item	Function
BCM	Controls the door lock and unlock function.
Door switch	Detects door state (open or closed).

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

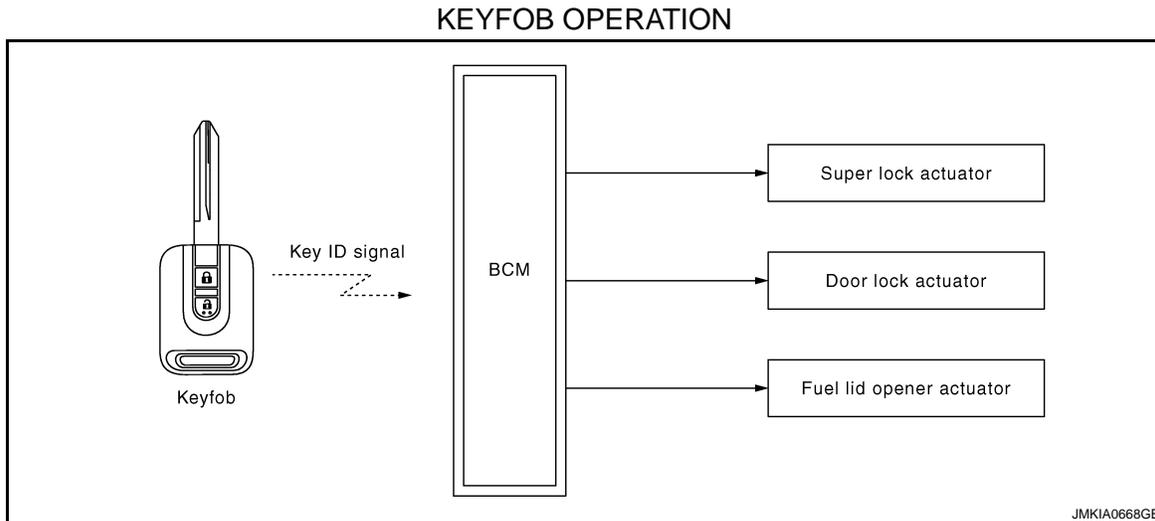
[WITHOUT I-KEY, WITH SUPER LOCK]

Item	Function
Door lock and unlock switch	Transmits door lock and unlock signal to BCM. Door lock and unlock switch indicator is built in door lock and unlock switch.
Door lock actuator	Receives door lock and unlock signal from BCM and locks and unlocks each door.

KEYFOB

KEYFOB : System Diagram

INFOID:000000001281242



KEYFOB : System Description

INFOID:000000001281243

KEYFOB OPERATION

The the multi remote control system can be locked and unlocked pressing door lock and unlock button of keyfob.

OPERATION CONDITION

Remote controller operation	Operation condition
Lock/unlock	Key switch is OFF (key is removed from ignition key cylinder).

OPERATION AREA

To ensure that the keyfob works effectively, use within 100 cm range of each door, however the operable range may differ according to surroundings.

DOOR LOCK AND UNLOCK CONTROL

When door lock and unlock button of keyfob is pressed, door lock and unlock signal transmits from keyfob to BCM. When BCM receives the door lock and unlock signal, it operates door lock actuator.

SUPER LOCK OPERATION

Super lock provides a higher anti-theft performance than a conventional power door lock system. The super lock system is controlled by BCM.

When super lock is set, all doors cannot be opened from inside.

ANTI-HIJACK MODE

When door lock is unlocked, pressing LOCK button on keyfob once will lock all doors. When door lock is locked, pressing UNLOCK button on keyfob will unlock driver side door. Pressing UNLOCK button on keyfob second time within 5 seconds from the first time will unlock all doors and back door can be opened with back door opener switch.

NOTE:

Anti-hijack mode can be set to ON or OFF with CONSULT-III. For the setting information, refer to [DLK-784, "MULTIREMOTE ENT : CONSULT-III Function \(BCM - MULTIREMOTE ENT\)"](#).

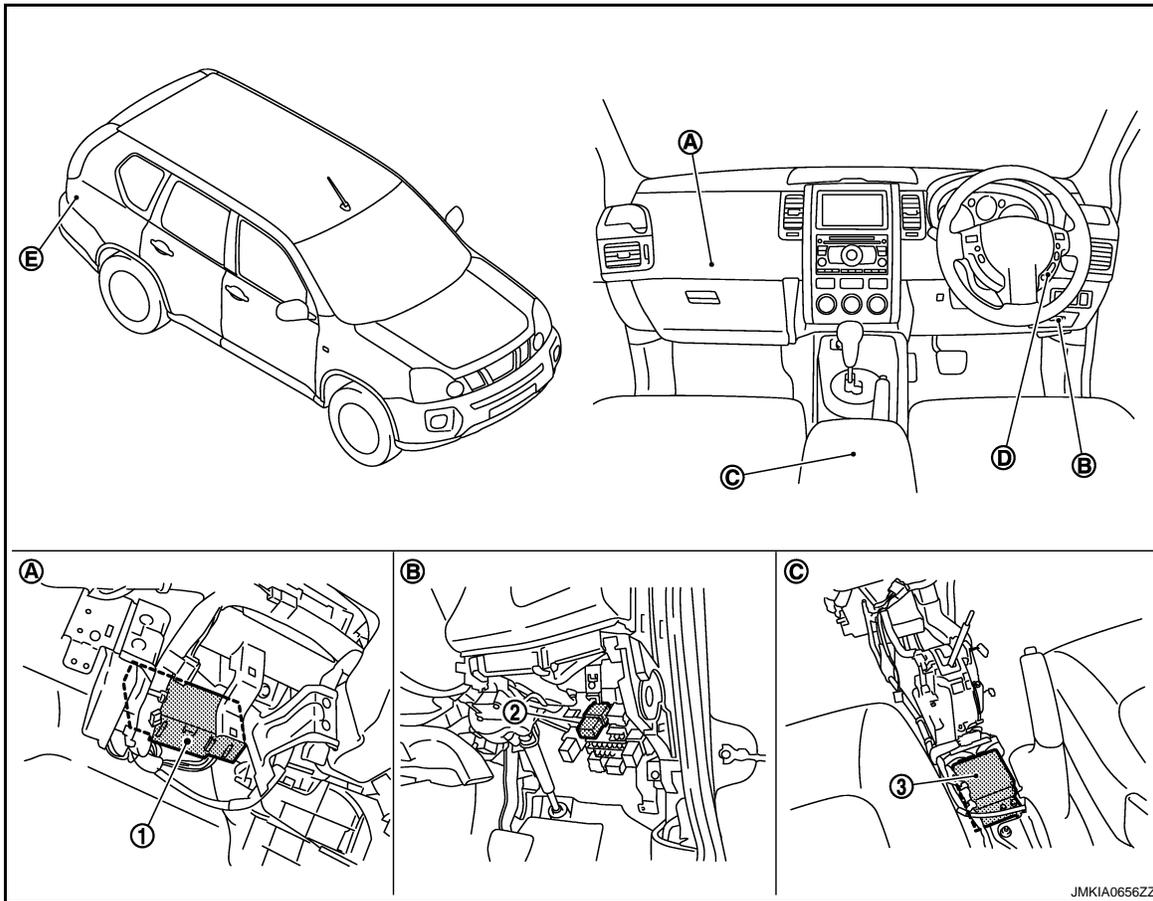
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

KEYFOB : Component Parts Location

INFOID:000000001388721



- 1. BCM
M65, M66, M67
- A. Over the glove box

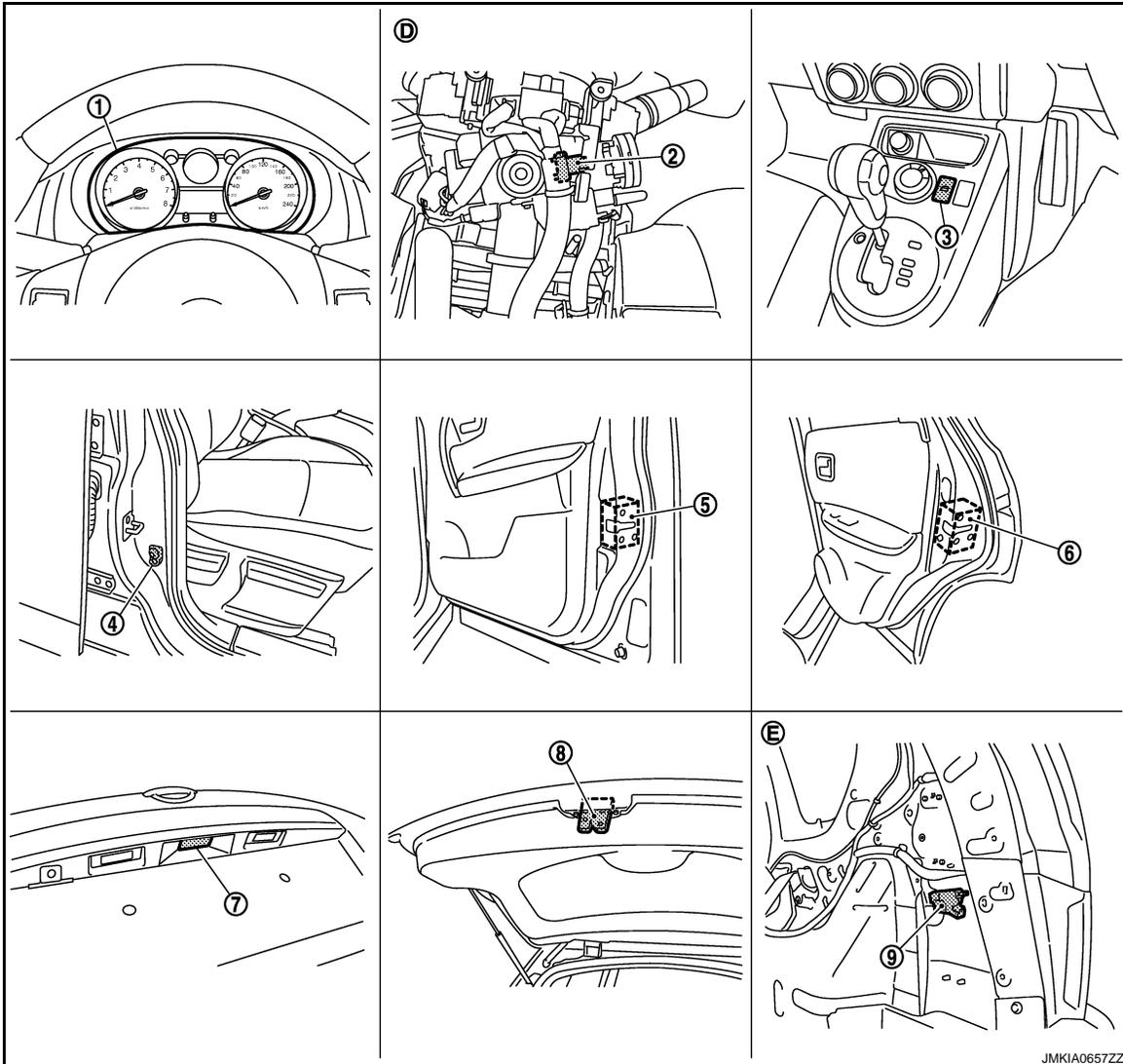
- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 3. Air bag diagnosis sensor unit
M59
- C. View with center console removed

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]



- | | | |
|---|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M25 | 3. Door lock and unlock switch
M89 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D29 | 6. Rear door lock actuator RH
D95 |
| 7. Back door opener switch
D186 | 8. Back door lock assembly (back door switch)
D190 | 9. Fuel lid opener actuator
B58 |
- D. View with steering column cover removed

KEYFOB : Component Description

INFOID:000000001281245

Item	Function
BCM	Controls the door lock function.
Key switch	Detect that ignition key is inserted into ignition key cylinder.
Door lock actuator	Receives lock and unlock signal from BCM and locks and unlocks each door.

AUTO DOOR LOCK

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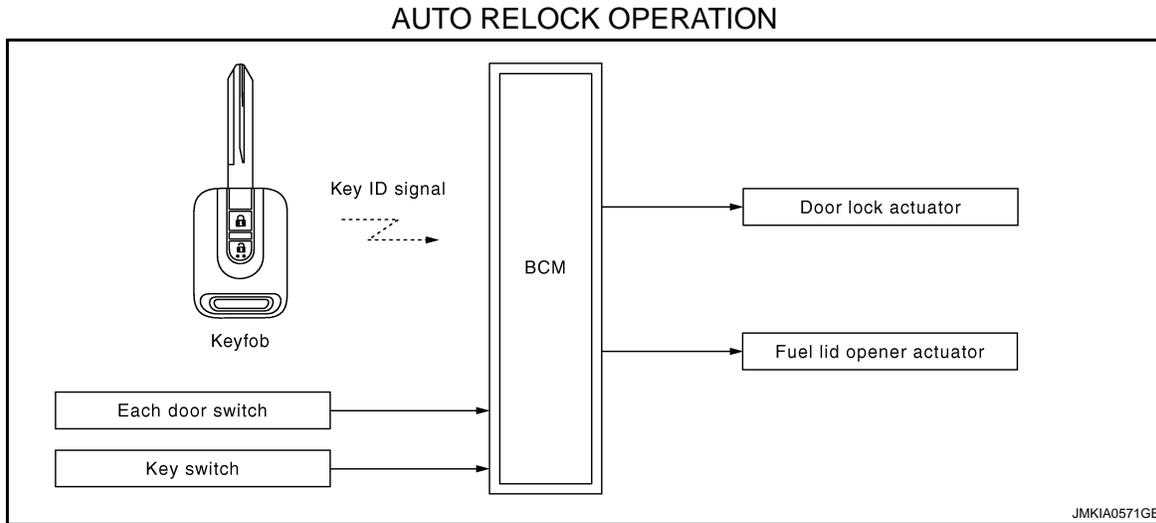
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

AUTO DOOR LOCK : System Diagram

INFOID:000000001281246



AUTO DOOR LOCK : System Description

INFOID:000000001281247

AUTO RELOCK OPERATION

When all doors are locked and then doors are unlocked with keyfob, if BCM does not receive the following signal within 2 minutes^{*1}, all doors are automatically locked.

- Any door is opened.
- Ignition key is inserted into ignition key cylinder.
- Door is locked with keyfob.
- Door is locked/unlocked with door lock and unlock switch.

^{*1}: The time can be changed with CONSULT-III. Refer to [DLK-784, "MULTIREMOTE ENT : CONSULT-III Function \(BCM - MULTIREMOTE ENT\)"](#).

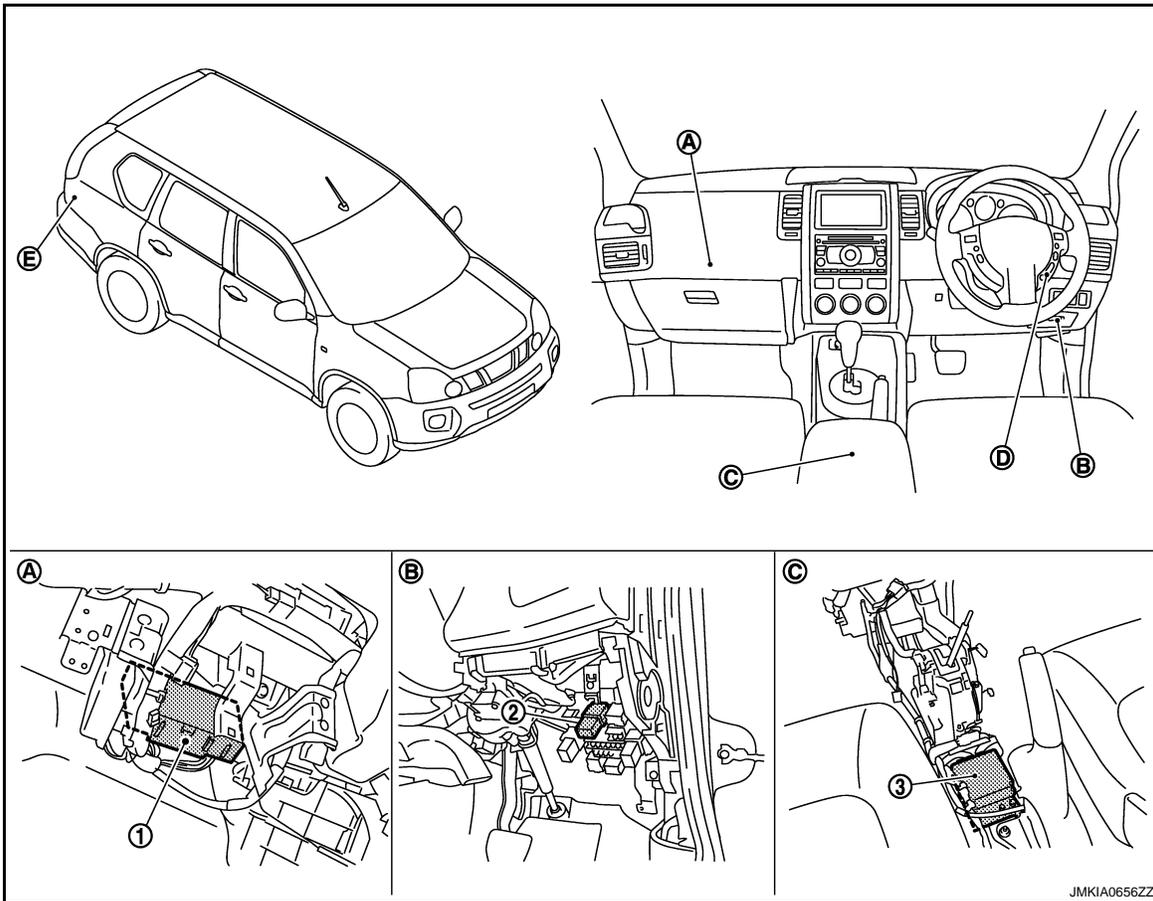
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

AUTO DOOR LOCK : Component Parts Location

INFOID:000000001388723



- 1. BCM
M65, M66, M67
- A. Over the glove box

- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 3. Air bag diagnosis sensor unit
M59
- C. View with center console removed

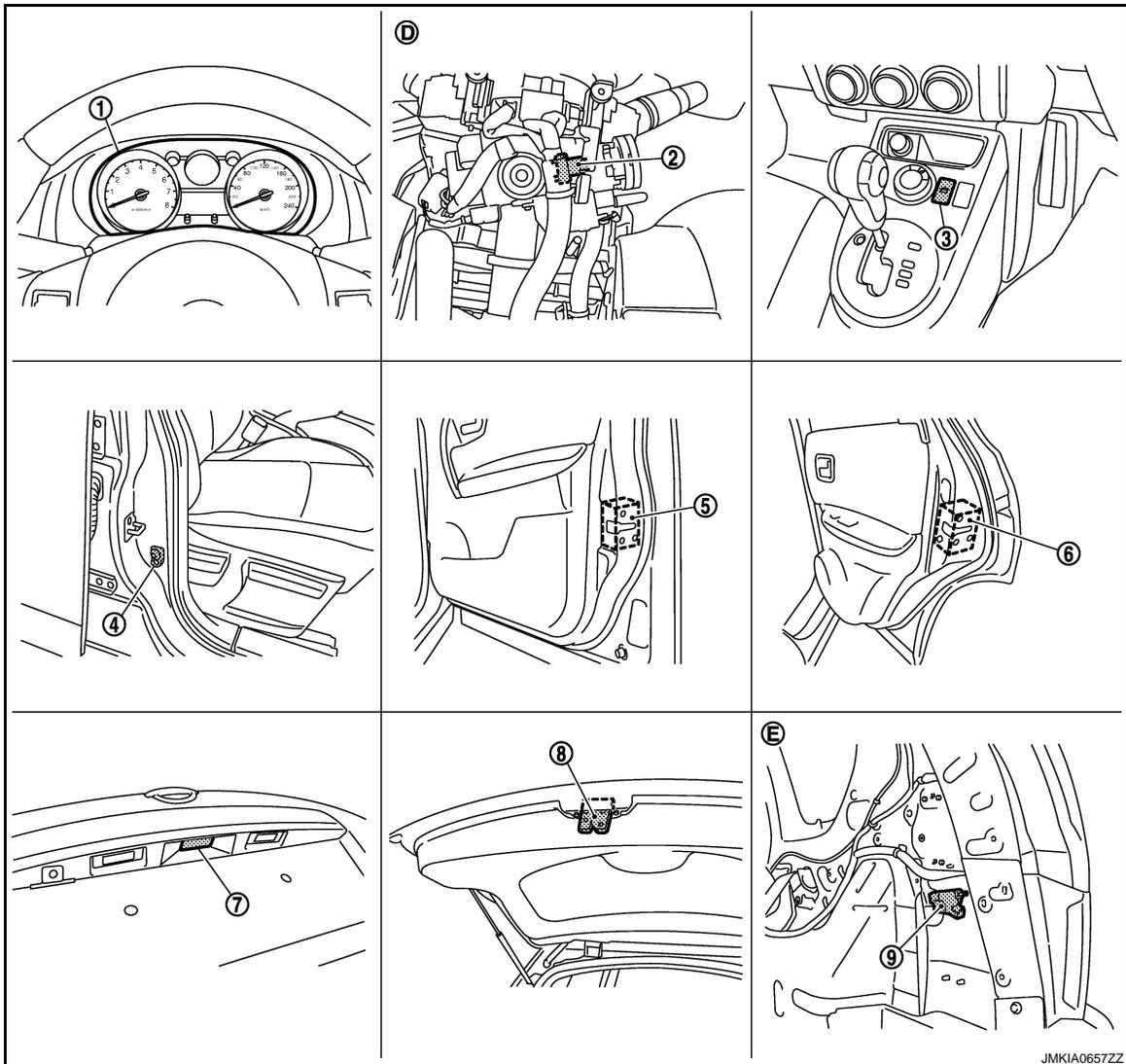
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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]



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- | | | |
|---|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M25 | 3. Door lock and unlock switch
M89 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D29 | 6. Rear door lock actuator RH
D95 |
| 7. Back door opener switch
D186 | 8. Back door lock assembly (back door switch)
D190 | 9. Fuel lid opener actuator
B58 |
- D. View with steering column cover removed

AUTO DOOR LOCK : Component Description

INFOID:000000001281249

Item	Function
BCM	Controls the door lock function.
Door switch	Detects door state (open or closed).
Key switch	Detects that ignition key is inserted into ignition key cylinder.
Door lock/unlock switch	Transmits door lock/unlock signal to BCM.
Keyfob	Transmits key ID to BCM when lock and unlock button is pressed.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.

VEHICLE SPEED SENSING AUTO DOOR LOCK

DLK-768

DOOR LOCK FUNCTION

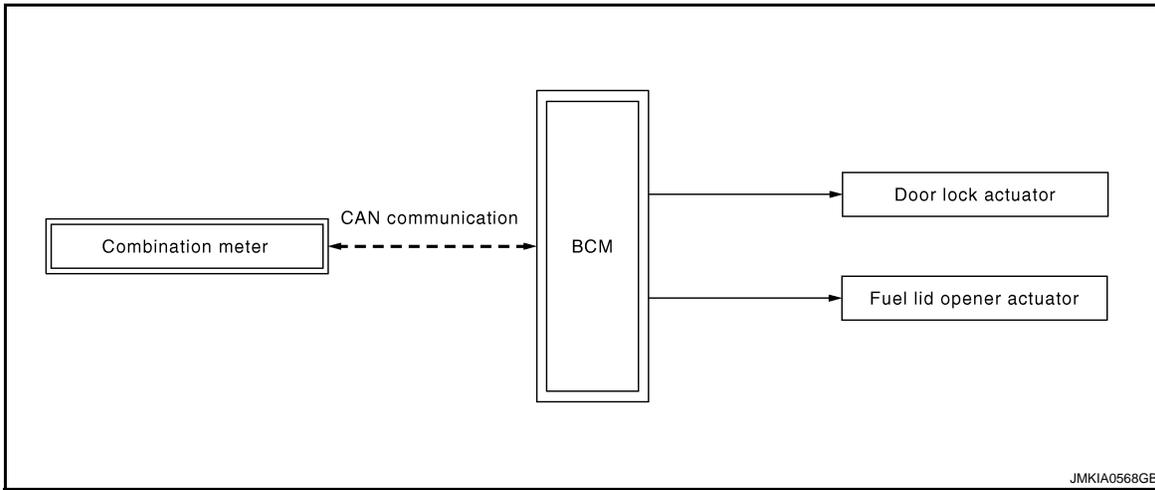
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

VEHICLE SPEED SENSING AUTO DOOR LOCK : System Diagram

INFOID:000000001281250

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION



VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description

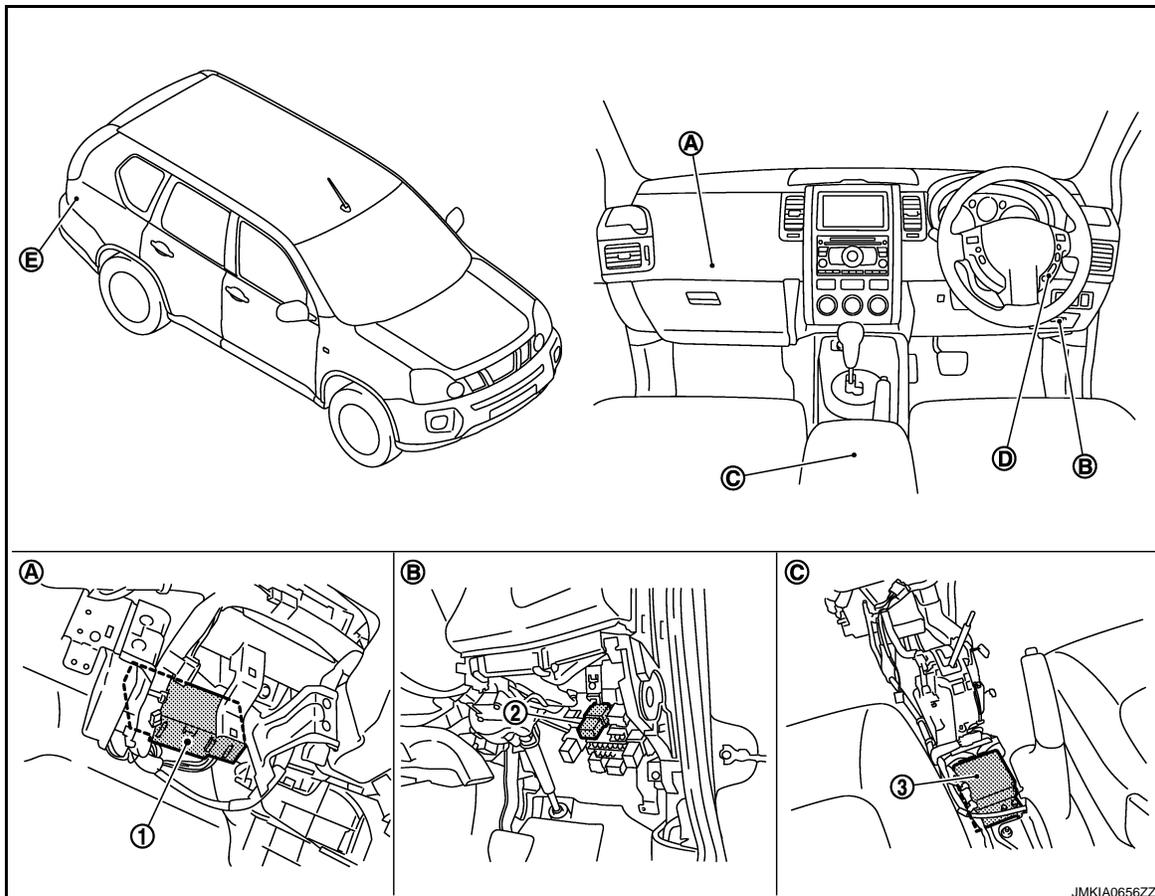
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VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION

When the vehicle speed exceeds more than 25 km/h (16 MPH), all doors are automatically locked. The vehicle speed signal is received from combination meter via CAN communication.

VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Parts Location

INFOID:000000001388724



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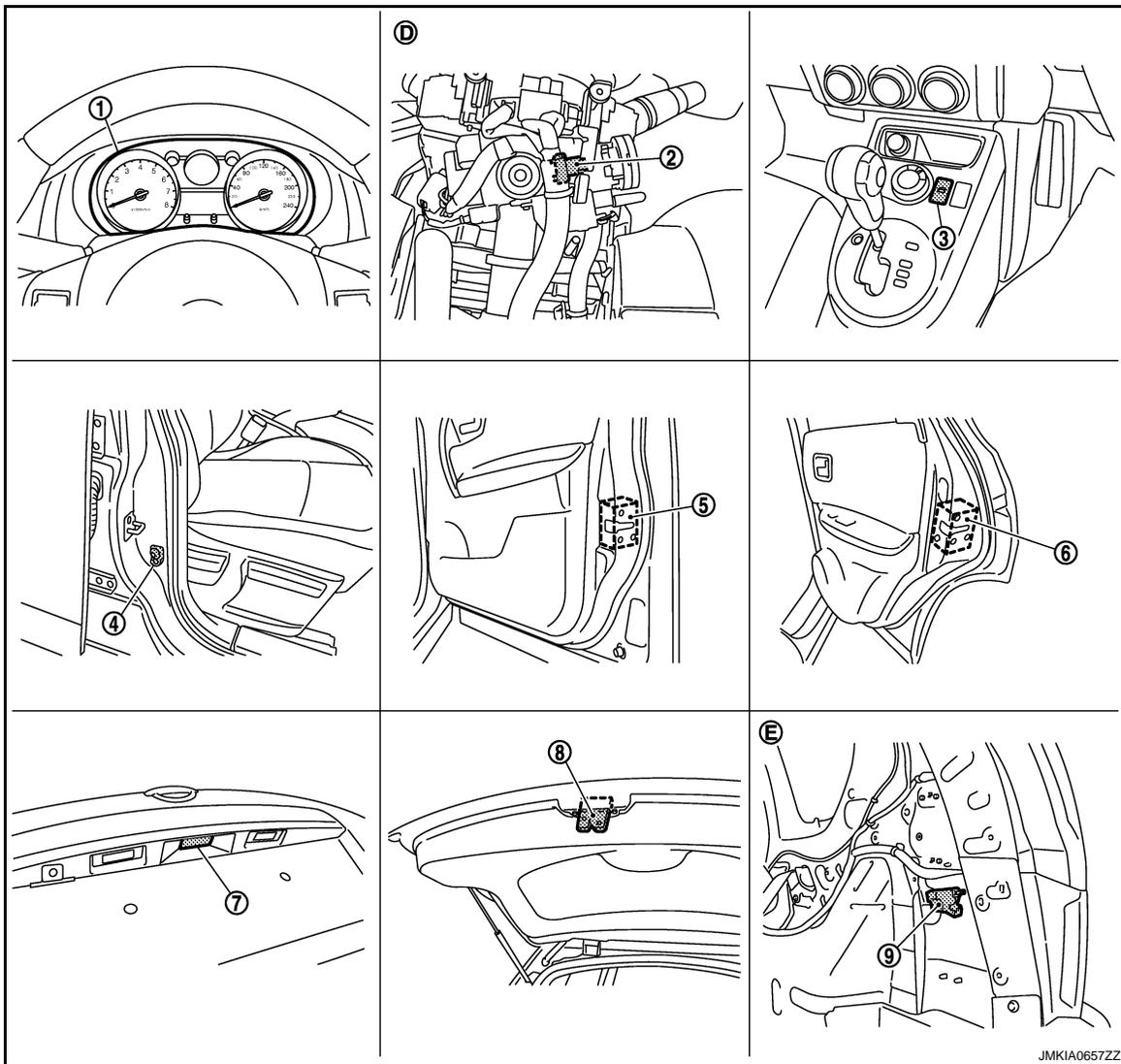
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DOOR LOCK FUNCTION

[WITHOUT I-KEY, WITH SUPER LOCK]

< FUNCTION DIAGNOSIS >

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|-------------------------|--|---|
| 1. BCM
M65, M66, M67 | 2. Passenger side anti-hijack relay
M90 | 3. Air bag diagnosis sensor unit
M59 |
| A. Over the glove box | B. View with fuse box lid removed | C. View with center console removed |



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|---|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M25 | 3. Door lock and unlock switch
M89 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D29 | 6. Rear door lock actuator RH
D95 |
| 7. Back door opener switch
D186 | 8. Back door lock assembly (back door switch)
D190 | 9. Fuel lid opener actuator
B58 |
- D. View with steering column cover removed

VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Description

INFOID:000000001281253

Item	Function
BCM	Controls the door lock function.
Combination meter	Transmits vehicle speed signal to BCM via CAN communication.
Door lock actuator	Receives door lock and unlock signal from BCM and locks and unlocks each door.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

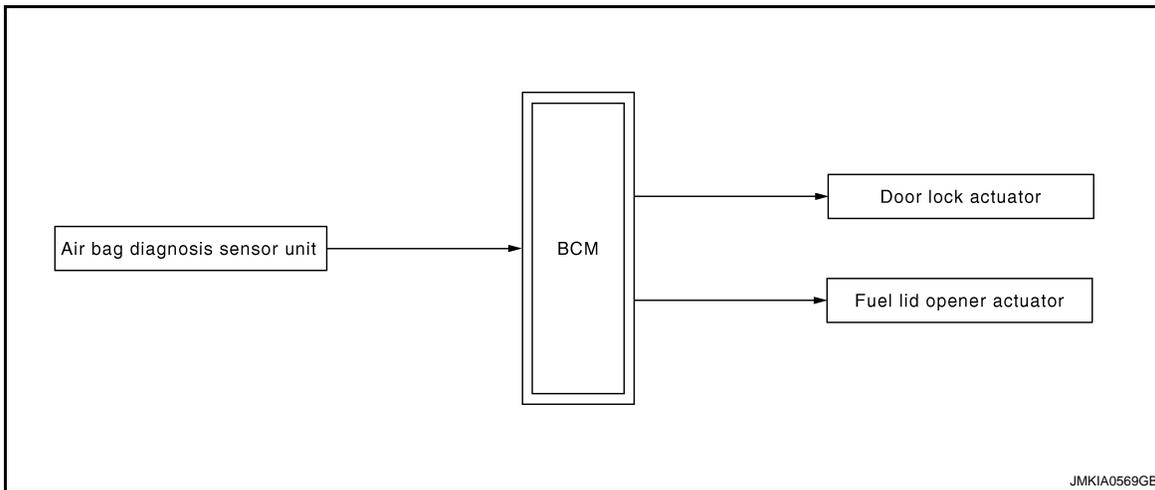
[WITHOUT I-KEY, WITH SUPER LOCK]

AIR BAG INTERLOCK UNLOCK

AIR BAG INTERLOCK UNLOCK : System Diagram

INFOID:000000001281254

AIR BAG INTERLOCK UNLOCK OPERATION



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AIR BAG INTERLOCK UNLOCK : System Description

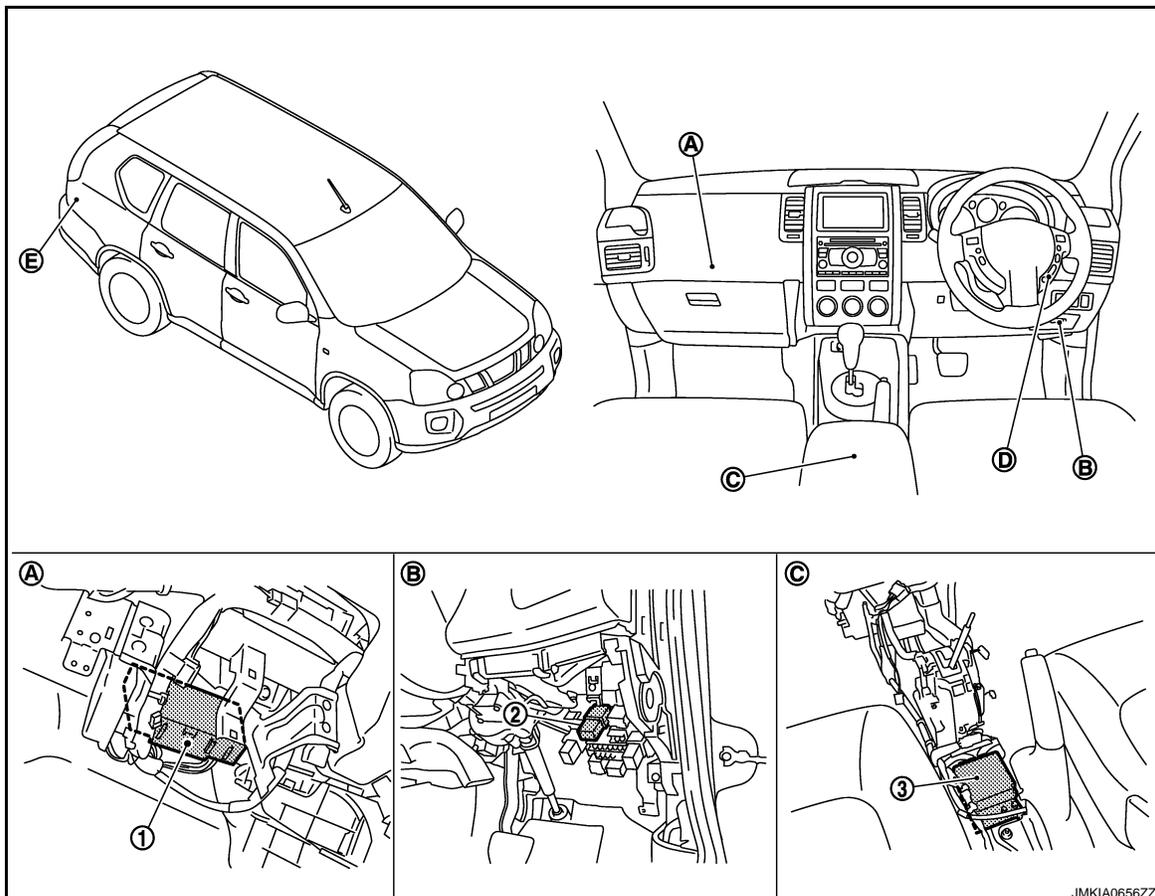
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AIR BAG INTERLOCK UNLOCK OPERATION

When ignition switch is ON and BCM receive air bag deployment signal, it operates automatically to unlock all doors. Air bag diagnosis sensor unit sends the air bag deployment signal to BCM.

AIR BAG INTERLOCK UNLOCK : Component Parts Location

INFOID:000000001388725



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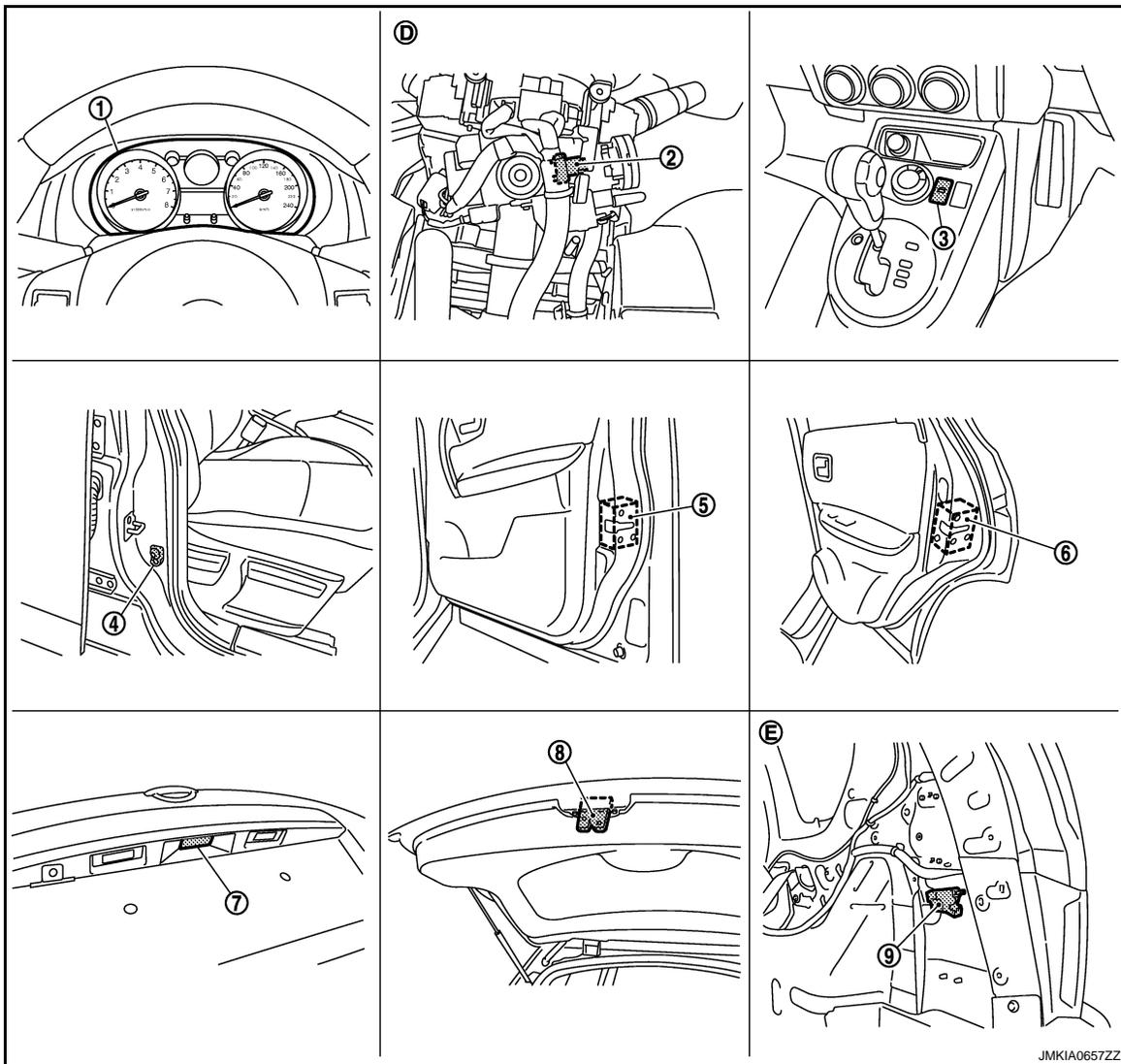
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DOOR LOCK FUNCTION

[WITHOUT I-KEY, WITH SUPER LOCK]

< FUNCTION DIAGNOSIS >

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|-------------------------|--|---|
| 1. BCM
M65, M66, M67 | 2. Passenger side anti-hijack relay
M90 | 3. Air bag diagnosis sensor unit
M59 |
| A. Over the glove box | B. View with fuse box lid removed | C. View with center console removed |



- | | | |
|--|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M25 | 3. Door lock and unlock switch
M89 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D29 | 6. Rear door lock actuator RH
D95 |
| 7. Back door opener switch
D186 | 8. Back door lock assembly (back door switch)
D190 | 9. Fuel lid opener actuator
B58 |
| D. View with steering column cover removed | | |

AIR BAG INTERLOCK UNLOCK : Component Description

INFOID:000000001281257

Item	Function
BCM	Controls the door lock function.
Air bag diagnosis sensor unit	Transmits air bag deployment signal to BCM.
Door lock actuator	Receives door lock and unlock signal from BCM and lock and unlock each door.

BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

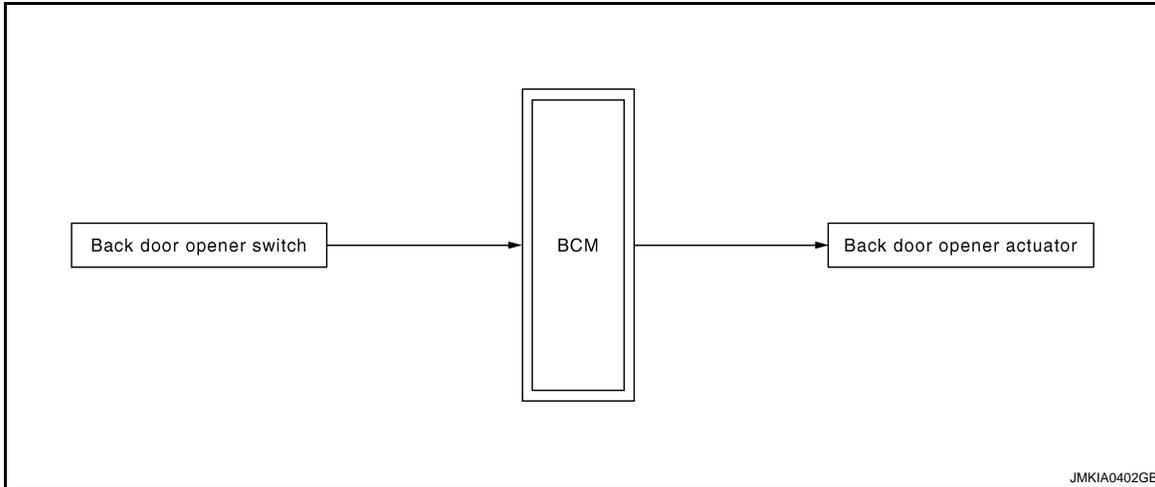
BACK DOOR OPENER FUNCTION

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : System Diagram

INFOID:000000001281258

BACK DOOR OPENER OPERATION



BACK DOOR OPENER SWITCH : System Description

INFOID:000000001281259

BACK DOOR OPENER OPERATION

When back door opener switch is pressed, BCM opens back door opener actuator.

NOTE:

Back door opener actuator is not for locking the back door. The function is only to open the back door.

OPERATION CONDITION

If the following conditions are not satisfied, back door opener operation is not performed.

Back door opener switch operation	Operation condition
Back door open	<ul style="list-style-type: none"> Vehicle speed is less than 5 km/h (3 MPH). All doors are unlocked.

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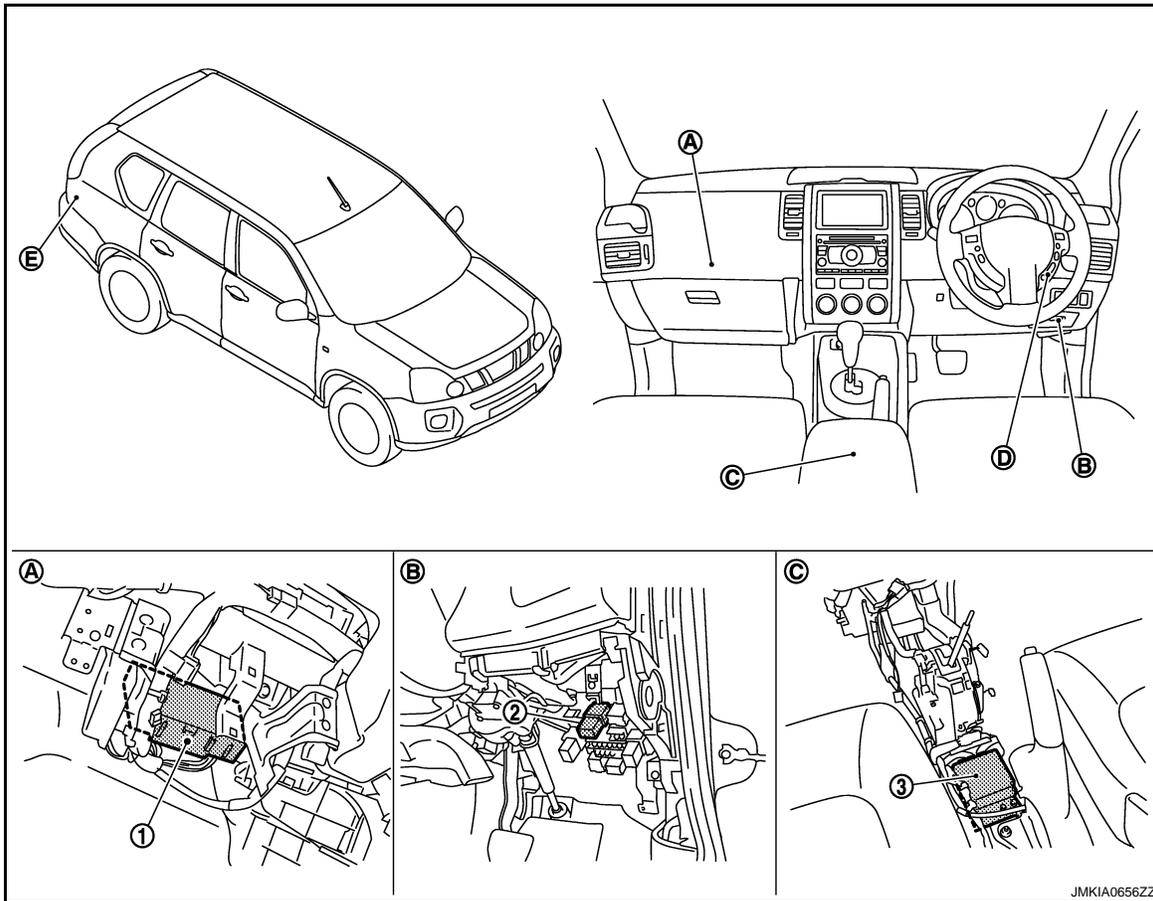
BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR OPENER SWITCH : Component Parts Location

INFOID:000000001393920



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1. BCM
M65, M66, M67
A. Over the glove box

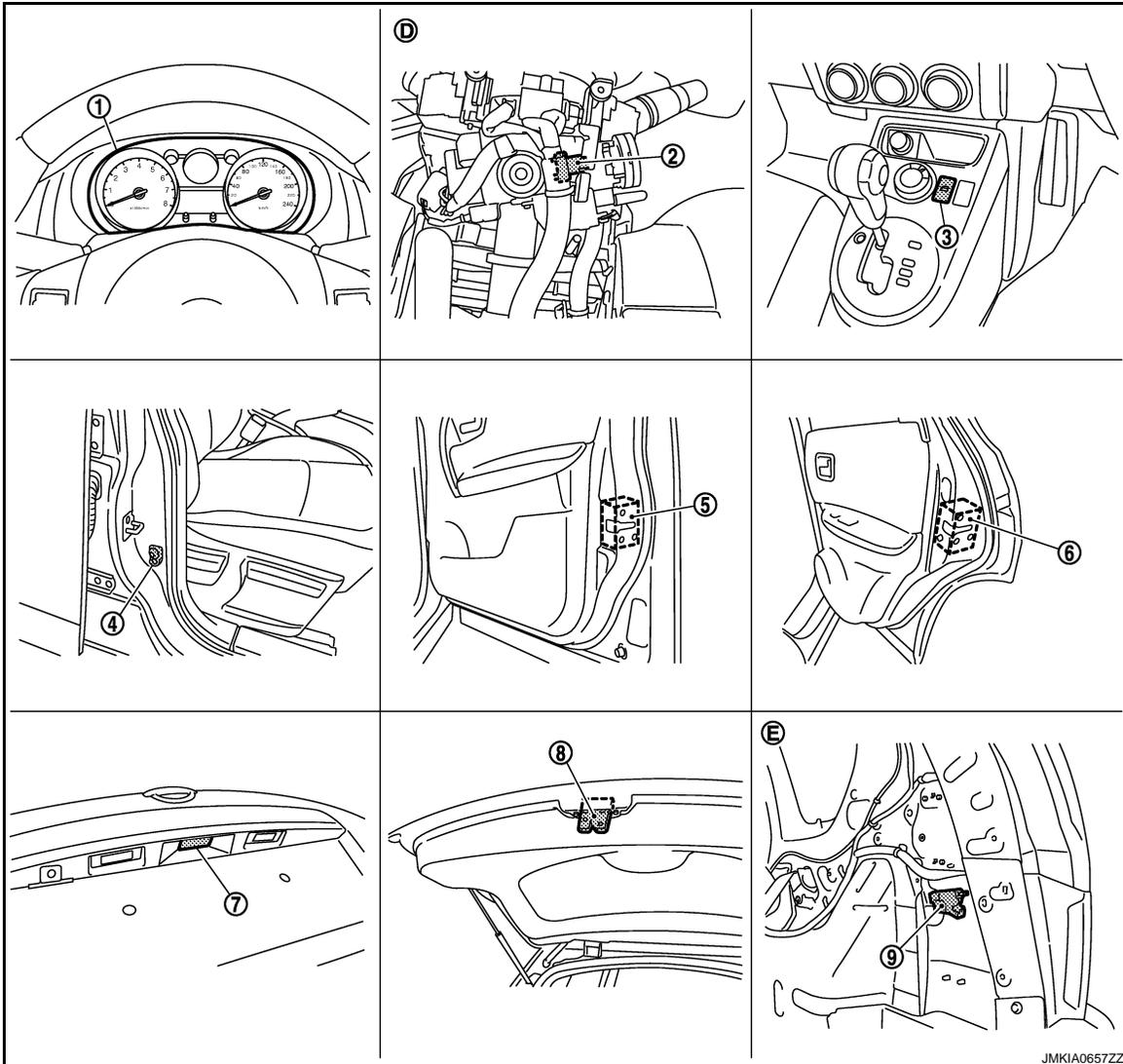
2. Passenger side anti-hijack relay
M90
B. View with fuse box lid removed

3. Air bag diagnosis sensor unit
M59
C. View with center console removed

BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]



- | | | |
|---|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M25 | 3. Door lock and unlock switch
M89 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D29 | 6. Rear door lock actuator RH
D95 |
| 7. Back door opener switch
D186 | 8. Back door lock assembly (back door switch)
D190 | 9. Fuel lid opener actuator
B58 |

D. View with steering column cover removed

BACK DOOR OPENER SWITCH : Component Description

INFOID:000000001281261

Item	Function
BCM	Controls the back door opener function.
Back door opener switch	Transmits back door opener switch operation signal to BCM.
Back door opener actuator	Opens the back door with the back door open signal from BCM.
Combination meter	Transmits vehicle speed signal to BCM via CAN communication.

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WARNING FUNCTION

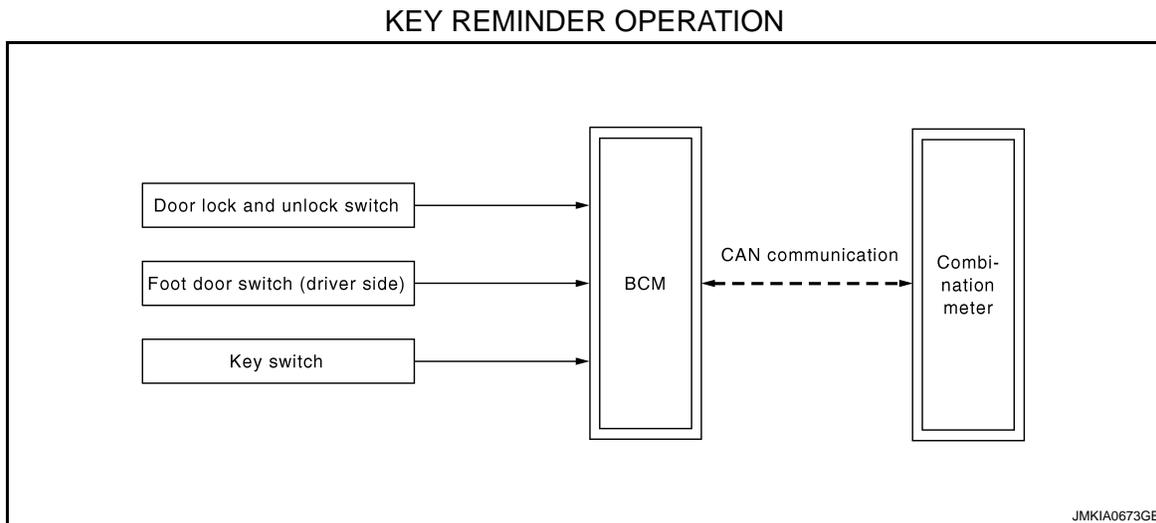
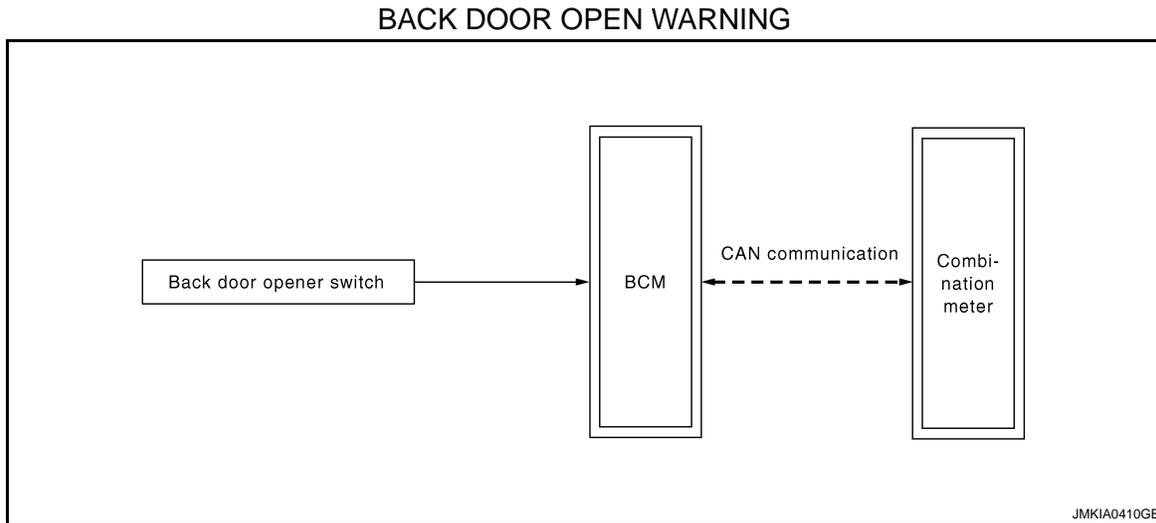
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

WARNING FUNCTION

System Diagram

INFOID:000000001281262



System Description

INFOID:000000001281263

BACK DOOR OPEN WARNING OPERATION

Back door opener switch is operated, when door is locked with door lock and unlock switch, by speed sensing lock or when only the driver side is unlocked by the anti-hijack function, the buzzer (built in combination meter) will sound.

KEY REMINDER OPERATION

- The buzzer (combination meter) will sound and the doors will not lock if the door lock and unlock switch is pressed while the driver door is open and mechanical key is inserted ignition key cylinder.
- The buzzer (combination meter) will sound and the doors will not lock if the door lock and unlock switch is pressed while any door other than the driver door is open.

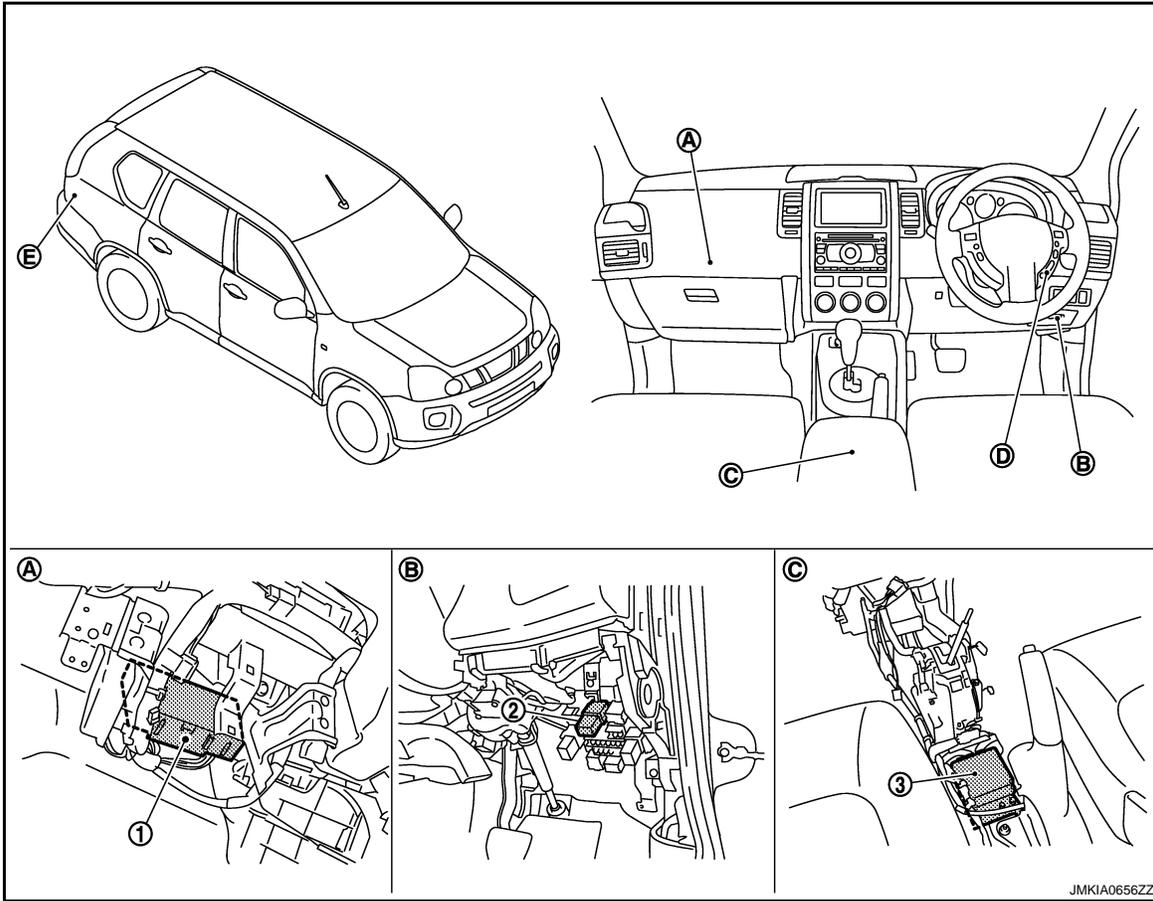
WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Component Parts Location

INFOID:000000001393921



- 1. BCM
M65, M66, M67
- A. Over the glove box

- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 3. Air bag diagnosis sensor unit
M59
- C. View with center console removed

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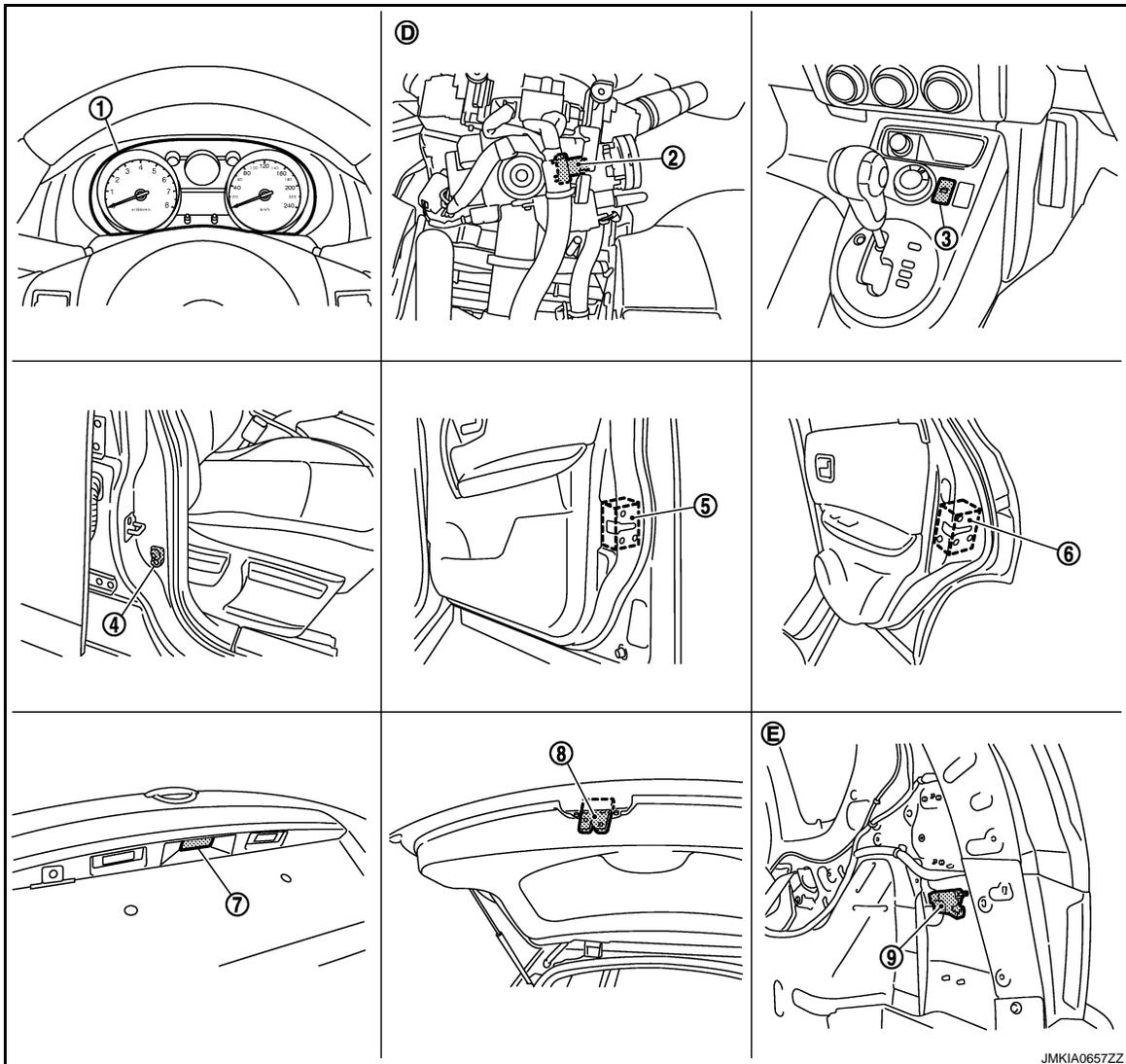
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WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]



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|---|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M25 | 3. Door lock and unlock switch
M89 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D29 | 6. Rear door lock actuator RH
D95 |
| 7. Back door opener switch
D186 | 8. Back door lock assembly (back door switch)
D190 | 9. Fuel lid opener actuator
B58 |
- D. View with steering column cover removed

Component Description

INFOID:000000001281265

Item	Function
BCM	Controls the warning function.
Combination meter	Sounds the buzzer by the request signal from BCM via CAN communication.
Back door opener switch	Transmit back door open signal to BCM

HAZARD REMINDER FUNCTION

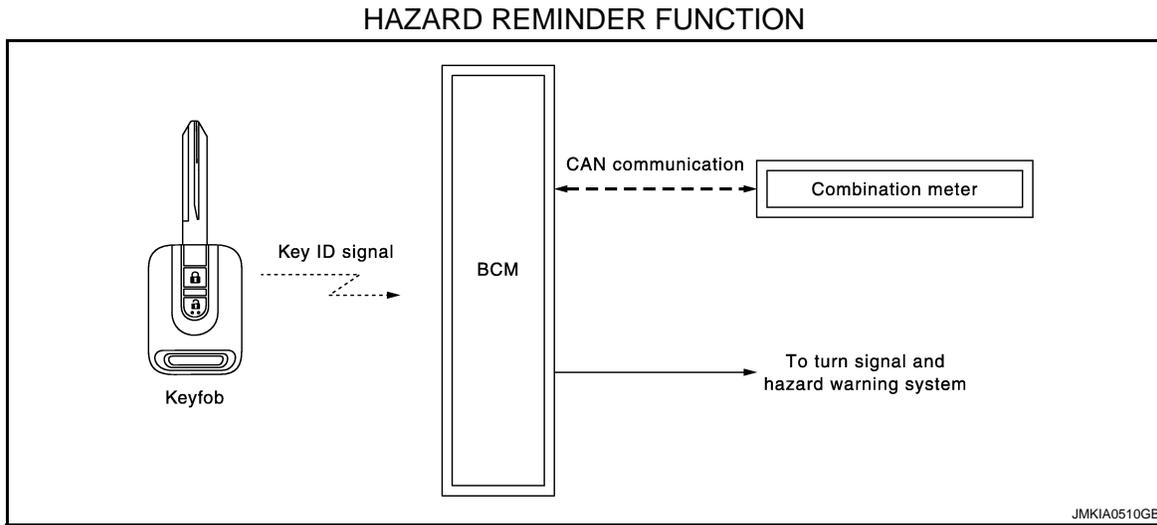
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

HAZARD REMINDER FUNCTION

System Diagram

INFOID:000000001281266



System Description

INFOID:000000001281267

HAZARD REMINDER OPERATION

When door is locked or unlocked by keyfob, then BCM flashes hazard warning lamp as a reminder.

NOTE:

Hazard reminder mode can be changed with CONSULT-III. Refer to [DLK-782. "DOOR LOCK : CONSULT-III Function \(BCM - DOOR LOCK\)".](#)

Hazard reminder setting (With CONSULT-III)	Door lock operation (with keyfob)	Hazard warning lamp flash	
HAZARD LAMP SET	MODE 1	—	
	MODE 2	Lock	Once
		Unlock	—
	MODE 3	Lock	—
		Unlock	Twice
	MODE 4	Lock	Once
Unlock		Twice	

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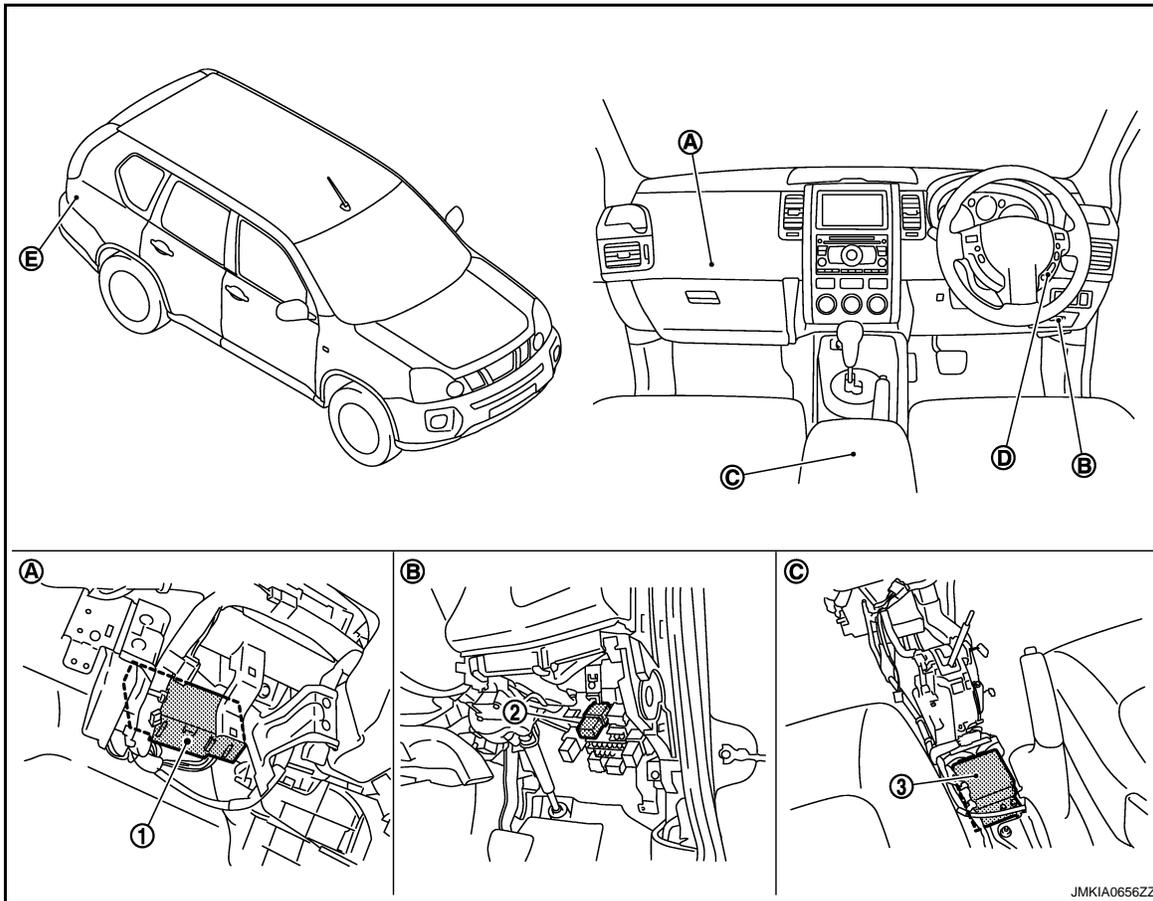
HAZARD REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Component Parts Location

INFOID:000000001393922



- 1. BCM
M65, M66, M67
- A. Over the glove box

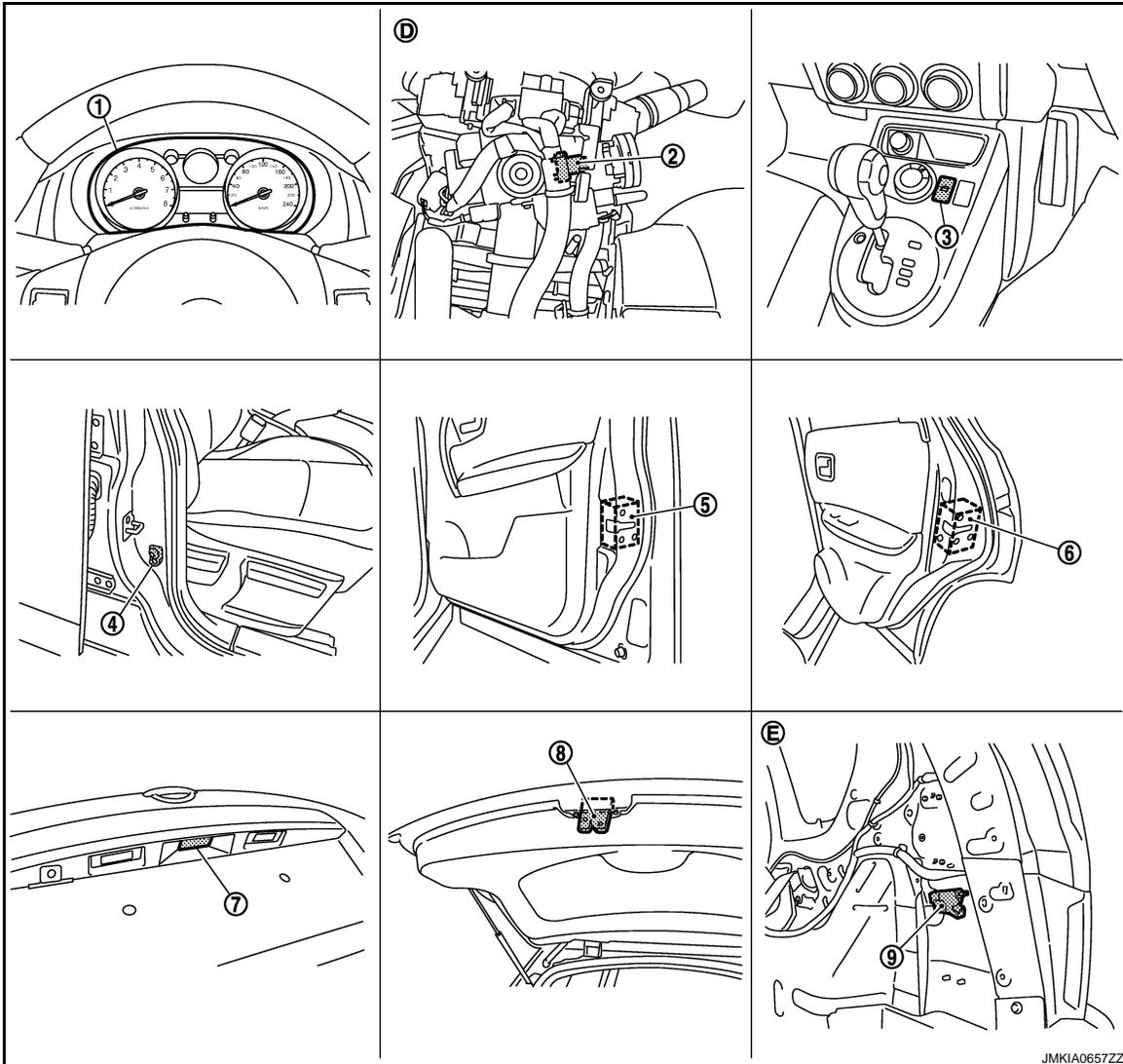
- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 3. Air bag diagnosis sensor unit
M59
- C. View with center console removed

HAZARD REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]



- | | | |
|---|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M25 | 3. Door lock and unlock switch
M89 |
| 4. Front door switch (driver side)
B34 | 5. Front door lock actuator (driver side)
D29 | 6. Rear door lock actuator RH
D95 |
| 7. Back door opener switch
D186 | 8. Back door lock assembly (back door switch)
D190 | 9. Fuel lid opener actuator
B58 |
- D. View with steering column cover removed

Component Description

INFOID:000000001281269

Item	Function
BCM	Controls the hazard reminder system.
Combination meter	Turns ON the turn signal indicator (built in combination meter) by the request from BCM via CAN communication.
Keyfob	Transmits key ID to BCM when lock and unlock button is pressed.

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)

INFOID:000000001569653

APPLICATION ITEM

CONSULT-III can display each diagnostic item using the diagnostic test modes shown following.

Diagnosis mode	Function description
ECU Identification	BCM part number is displayed.
Self-Diagnostic Results	Displays the diagnosis results judged by BCM. Refer to DLK-857, "DTC Index" .
Data Monitor	BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Work Support	Changes the setting for each system function.
Configuration	<ul style="list-style-type: none">Read and save the vehicle specification.Write the vehicle specification when replacing BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.

SYSTEM APPLICATION

BCM can perform the following functions for each system.

NOTE:

It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

System	CONSULT-III sub system selection item	Diagnosis mode		
		WORK SUPPORT	DATA MONITOR	ACTIVE TEST
—	BCM	×		
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER	×	×	×
Warning chime	BUZZER		×	×
Interior room lamp control	INT LAMP	×	×	×
Remote keyless entry system	MULTI REMOTE ENT	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER		×	×
Air conditioner	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY		×	
Combination switch	COMB SW		×	
Immobilizer	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
Signal buffer system	SIGNAL BUFFER		×	×
—	PTC HEATER*			

*: This item is displayed, but is not function.

DOOR LOCK

DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)

INFOID:000000001398980

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

DLK-782

DIAGNOSIS SYSTEM (BCM)

[WITHOUT I-KEY, WITH SUPER LOCK]

< FUNCTION DIAGNOSIS >

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
PUSH SW ^{*1}	Indicates [ON/OFF] condition of ignition knob switch.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.
KEYLESS LOCK ^{*2}	Indicates [ON/OFF] condition of lock signal from key fob.
KEYLESS UNLOCK ^{*2}	Indicates [ON/OFF] condition of unlock signal from key fob.
I-KEY LOCK ^{*1}	Indicates [ON/OFF] condition of lock signal from Intelligent Key.
I-KEY UNLOCK ^{*1}	Indicates [ON/OFF] condition of unlock signal from Intelligent Key.
UNLOCK WITH DR	This item is indicated, but not monitored.
UNLOCK SHOCK	Indicates [ON/OFF] condition of signal from air bag diagnosis unit. <ul style="list-style-type: none"> • ON: During the unlock operation interlock with air bag. • OFF: Other than above.
SHOCK SENSOR	Indicates [NOMAL/ON/OFF] condition of circuit between BCM and air bag diagnosis sensor unit. <ul style="list-style-type: none"> • NORMAL: Ignition switch ON. (BCM is receiving normal condition signal from air bag diagnosis sensor unit.) • ON: During the receiving of air bag deployment signal from air bag diagnosis sensor unit. • OFF: After the receiving of air bag deployment signal from air bag diagnosis sensor unit.
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h].

^{*1}: For the Intelligent key equipped vehicle.

^{*2}: For the multi remote control system equipped vehicle.

ACTIVE TEST

Test item	Description
SUPER LOCK ^{*1}	This test is able to check super lock operation [LOCK (SET)/UNLOCK (RELEASE)].
DOOR LOCK IND	This test is able to check door lock indicator (built in door lock and unlock switch on center console) operation [ON/OFF].
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLOCK/DR UNLOCK/OTHER UNLOCK].

^{*1}: For the super lock equipped vehicle.

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Test item	Description
SECURITY DOOR LOCK SET	Anti hijack function mode can be changed in this mode. <ul style="list-style-type: none">• ON: Anti hijack mode is active.• OFF: Anti hijack mode is inactive.

MULTIREMOTE ENT

MULTIREMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)

INFOID:000000001398981

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
ACC ON SW	Indicates [ON/OFF] condition of ignition switch in ACC position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
KEYKESS LOCK	Indicates [ON/OFF] condition of lock signal from key fob.
KEYLESS UNLOCK	Indicates [ON/OFF] condition of unlock signal from key fob.
DOOR SW-DR	Indicates [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicates [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicates [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicates [ON/OFF] condition of rear door switch LH.
BACK DOOR SW	Indicates [ON/OFF] condition of back door switch.
CDL LOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
CDL UNLOCK SW	Indicates [ON/OFF] condition of door lock and unlock switch.
RKE LOCK AND UNLOCK	This item is indicated, but not monitored.
MEMORY 1	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 2	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 3	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 4	Indicates [ON/OFF] condition of remote controller ID code registration.
MEMORY 5	Indicates [ON/OFF] condition of remote controller ID code registration.

ACTIVE TEST

Test item	Description
DOOR LOCK	This test is able to check warning chime in combination meter operation. [ALL LOCK/ALL UNLOCK/DR UNLOCK/OTHER UNLOCK]
INT LAMP	This test is able to check interior lamp operation [ON/OFF].
FLASHER	This test is able to check flasher operation [LH/RH/OFF].

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

[WITHOUT I-KEY, WITH SUPER LOCK]

< FUNCTION DIAGNOSIS >

Test item	Description
HAZARD LAMP SET	Answer back function (hazard) mode can be changed in this mode. For the detail of the setting, refer to DLK-779, "System Description" .
AUTO LOCK SET	Auto door lock time can be changed in this mode. <ul style="list-style-type: none">• MODE 1: 1 minute• MODE 2: 2 minutes• MODE 3: 3 minutes• MODE 4: 4 minutes• MODE 5: 5 minutes

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK)

INFOID:000000001398982

APPLICATION ITEM

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from Intelligent Key unit.

DATA MONITOR

Monitor Item	Condition
IGN ON SW	Indicates [ON/OFF] condition of ignition switch in ON position.
KEY ON SW	Indicates [ON/OFF] condition of key switch.
PUSH SW ^{*1}	Indicates [ON/OFF] condition of ignition knob switch.
TRNK OPNR SW	Indicates [ON/OFF] condition of back door opener switch.
VEHICLE SPEED	Displays the vehicle speed signal received from combination meter by numerical value [km/h].

^{*1}: For the Intelligent key equipped vehicle.

^{*2}: For the remote keyless entry system equipped vehicle.

ACTIVE TEST

Test item	Description
TRUNK/GLASS HATCH	This test is able to check back door opener operation [ON/OFF].

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DLK

U1000 CAN COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000001450378

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart, refer to [LAN-25, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001450379

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	In CAN communication system, any item (or items) of the following listed below is malfunctioning. <ul style="list-style-type: none">• Transmission• Receiving (IPDM E/R)• Receiving (ECM)• Receiving (METER/M&A)• Receiving (MULTI AV)

Diagnosis Procedure

INFOID:000000001450380

1. PERFORM SELF DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check "Self Diagnostic Result".

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to [LAN-13, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to [GI-39, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000001450381

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart, refer to [LAN-25, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001450382

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	When detecting error during the initial diagnosis of CAN controller of BCM.	BCM

Diagnosis Procedure

INFOID:000000001450383

1. REPLACE BCM

When DTC [U1010] is detected, replace BCM.

>> Replace BCM.

Special Repair Requirement

INFOID:000000001450384

1. REQUIRED WORK WHEN REPLACING INTELLIGENT KEY UNIT

Initialize control unit. Refer to CONSULT-III operation manual NATS-IVIS/NVIS.

>> Work end.

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DLK

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000001298754

1. CHECK FUSE AND FUSIBLE LINK

Check that the following fuse and fusible link are not blown.

Terminal No.	Signal name	Fuse and fusible link No.
41	Battery power supply	10 (10A)
57		J (50A)
4	ACC power supply	20 (10A)

Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connectors.
3. Check voltage between BCM harness connector and ground.

Terminals		Condition	Voltage (Approx.)
(+)	(-)		
BCM			
Connector	Terminal		
M66	41	Ground	Battery voltage
M67	57		
M65	4		
		Turn ignition switch OFF	
		Turn ignition switch ACC	

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M67	55		Exists

Does continuity exist?

YES >> BCM power supply and ground circuit are OK.

NO >> Repair harness or connector.

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH

Description

INFOID:000000001450402

Transmits door lock/unlock operation to BCM.

Component Function Check

INFOID:000000001450403

1. CHECK FUNCTION

With CONSULT-III

Check "CDL LOCK SW" and "CDL UNLOCK SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
CDL LOCK SW	LOCK : ON
	UNLOCK : OFF
CDL UNLOCK SW	LOCK : OFF
	UNLOCK : ON

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

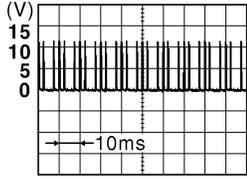
NO >> Refer to [DLK-789. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001450404

1. CHECK DOOR LOCK AND UNLOCK INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect door lock and unlock switch connector.
3. Check voltage between door lock and unlock switch harness connector and ground.

Terminal		Signal (Reference value)
(+)	(-)	
Door lock and unlock switch connector	Terminal	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
M89	1	
	2	
	Ground	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector.
3. Check continuity between BCM harness connector and door lock and unlock switch harness connector.

BCM connector	Terminal	Door lock and unlock switch connector	Terminal	Continuity
M65	32	M89	2	Exists
	34		1	

4. Check continuity between BCM harness connector and ground.

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DLK

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BCM connector	Terminal	Ground	Continuity	
M65	32			Does not exist
	34			

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace harness.

3. CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between door lock and unlock switch harness connector and ground.

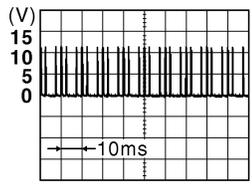
Door lock and unlock switch connector	Terminal	Ground	Continuity
M89	3		

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM harness connector and ground.

Terminal		Signal (Reference value)
(+)	(-)	
BCM connector	Terminal	 <p style="text-align: right; font-size: small;">JPMAI0154GB</p>
M65	32	
	34	
	Ground	

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> GO TO 6.

5. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch
Refer to [DLK-790, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Replace door lock and unlock switch. Refer to [DLK-925, "Exploded View"](#).

6. CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001450405

1. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Door lock and unlock switch	Terminal		Condition	Continuity
M89	1	3	LOCK	Exists
	2		UNLOCK	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Replace door lock and unlock switch. Refer to [DLK-925. "Exploded View"](#).

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DOOR LOCK AND UNLOCK SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH INDICATOR

Description

INFOID:000000001480714

The door lock and unlock switch indicates door lock status. The indicator will illuminate when a lock operation is accomplished, and during this status, if any door is opened, the indicator will turn OFF.

Component Function Check

INFOID:000000001480715

1. CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK IND" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK IND	:ON	Illuminated
	:OFF	Not illuminated

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to [DLK-792, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001480716

1. CHECK DOOR LOCK AND UNLOCK SWITCH INDICATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between door lock and unlock switch harness connector and ground.

Terminal		Condition	Voltage (Approx.)
(+)	(-)		
Door lock and unlock switch connector	Terminal	Door lock operation is accomplished Any door is OPEN	Battery voltage 0
M89	6		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

1. Disconnect BCM connector and door lock and unlock switch connector.
2. Check continuity between BCM harness connector and door lock and unlock switch harness connector.

BCM connector	Terminal	Door lock and unlock switch connector	Terminal	Continuity
M65	17	M89	6	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	17		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between door lock and unlock switch harness connector and ground.

DOOR LOCK AND UNLOCK SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Door lock and unlock switch connector	Terminal	Ground	Continuity
M89	4		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

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DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001298572

Detects door open/closed condition.

DRIVER SIDE : Component Function Check

INFOID:000000001298573

1.CHECK FUNCTION

With CONSULT-III

Check door switches "DOOR SW-DR" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DOOR SW-DR	OPEN :ON
	CLOSE :OFF

Is the inspection result normal?

YES >> Front door switch (driver side) is OK.

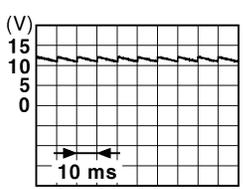
NO >> Refer to [DLK-794, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001298574

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground with oscilloscope.

Terminals		Door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	15	OPEN	0
		CLOSE	

JPMIA0011GB

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and front door switch (driver side) connector.
2. Check continuity between BCM harness connector and front door switch (driver side) harness connector.

BCM connector	Terminal	Front door switch (driver side) connector	Terminal	Continuity
M65	15	B34	2	Exists

3. Check continuity between BCM harness connector and ground.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M65	15		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to [DLK-795. "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front door switch (driver side). Refer to [DLK-292. "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000001298575

1.CHECK DOOR SWITCH

Check front door switch (driver side).

Terminal		Door switch condition	Continuity
front door switch (driver side)			
2	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Front door switch (driver side) is OK.

NO >> Replace front door switch (driver side). Refer to [DLK-292. "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001298576

Detects door open/closed condition.

PASSENGER SIDE : Component Function Check

INFOID:0000000001298577

1.CHECK FUNCTION

 With CONSULT-III

Check door switches "DOOR SW-AS" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DOOR SW-AS	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

YES >> Front door switch (passenger side) is OK.

NO >> Refer to [DLK-795. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001298578

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.

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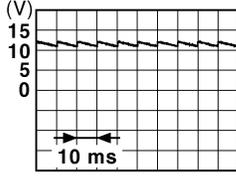
DLK

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

2. Check signal between BCM harness connector and ground with oscilloscope.

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal	(-)	
M65	14	Ground	0
		Ground	

JPMIA0011GB

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and front door switch (passenger side) connector.
2. Check continuity between BCM harness connector and front door switch (passenger side) harness connector.

BCM connector	Terminal	Front door switch (passenger side) connector	Terminal	Continuity
M65	14	B27	2	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	14		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Check front door switch (passenger side).

Refer to [DLK-796, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front door switch (passenger side). Refer to [DLK-292, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000001298579

1.CHECK DOOR SWITCH

Check front door switch (passenger side).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Terminal		Door switch condition	Continuity
Front door switch (passenger side)			
2	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Front door switch (passenger side) is OK.

NO >> Replace front door switch (passenger side). Refer to [DLK-922, "Removal and Installation"](#).

REAR LH

REAR LH : Description

INFOID:000000001298580

Detects door open/closed condition.

REAR LH : Component Function Check

INFOID:000000001298581

1.CHECK FUNCTION

With CONSULT-III

Check door switches "DOOR SW-RL" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DOOR SW-RL	OPEN :ON
	CLOSE :OFF

Is the inspection result normal?

YES >> Rear door switch LH is OK.

NO >> Refer to [DLK-797, "REAR LH : Diagnosis Procedure"](#).

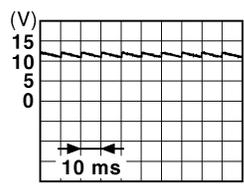
REAR LH : Diagnosis Procedure

INFOID:000000001298582

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM harness connector and ground with oscilloscope.

DLK

Terminals			Door condition	Voltage (V) (Approx.)
(+)		(-)		
BCM connector	Terminal			
M65	16	Ground	OPEN	0
			CLOSE	

JPMIA0011GB

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and rear door switch LH connector.
2. Check continuity between BCM harness connector and rear door switch LH harness connector.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BCM connector	Terminal	Rear door switch LH connector	Terminal	Continuity
M65	16	B71	2	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	16		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and rear door switch LH.

3.CHECK DOOR SWITCH

Check rear door switch LH.

Refer to [DLK-798, "REAR LH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace rear door switch LH. Refer to [DLK-922, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

REAR LH : Component Inspection

INFOID:000000001298583

1.CHECK DOOR SWITCH

Check rear door switch LH.

Terminal	Door switch condition	Continuity
Rear door switch LH		
2	Pressed	Exists
	Released	Does not exist

Is the inspection result normal?

YES >> Rear door switch LH is OK.

NO >> Replace rear door switch LH. Refer to [DLK-922, "Removal and Installation"](#).

REAR RH

REAR RH : Description

INFOID:000000001298584

Detects door open/close condition.

REAR RH : Component Function Check

INFOID:000000001298585

1.CHECK FUNCTION

 With CONSULT-III

Check door switches "DOOR SW-RR" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
DOOR SW-RR	OPEN :ON
	CLOSE :OFF

Is the inspection result normal?

YES >> Rear door switch RH is OK.

NO >> Refer to [DLK-799, "REAR RH : Diagnosis Procedure"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

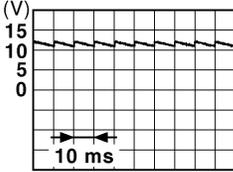
[WITHOUT I-KEY, WITH SUPER LOCK]

REAR RH : Diagnosis Procedure

INFOID:000000001298586

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM connector and ground with oscilloscope.

Terminals		Door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	12	OPEN	0
		CLOSE	

JPMIA0011GB

Is the inspection result normal?

- YES >> GO TO 4.
NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and rear door switch RH connector.
2. Check continuity between BCM harness connector and rear door switch RH harness connector.

BCM connector	Terminal	Rear door switch RH connector	Terminal	Continuity
M65	12	B53	2	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	12		Does not exist

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Check rear door switch RH.

Refer to [DLK-799, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace rear door switch RH. Refer to [DLK-922, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

REAR RH : Component Inspection

INFOID:000000001298587

1.CHECK DOOR SWITCH

Check rear door switch RH.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Terminal		Door switch condition	Continuity
Rear door switch RH			
2	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Rear door switch RH is OK.

NO >> Replace rear door switch RH. Refer to [DLK-290, "DOOR LOCK : Removal and Installation"](#).

BACK DOOR

BACK DOOR : Description

INFOID:000000001298588

Detects back door open condition.

BACK DOOR : Component Function Check

INFOID:000000001298589

1. CHECK FUNCTION

With CONSULT-III

Check "BACK DOOR SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
BACK DOOR SW	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

YES >> Back door lock assembly (door switch) is OK.

NO >> Refer to [DLK-800, "BACK DOOR : Diagnosis Procedure"](#).

BACK DOOR : Diagnosis Procedure

INFOID:000000001298590

1. CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH) INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

Terminals		Back door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	OPEN	0
M65	13	CLOSE	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

2. CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH) CIRCUIT

1. Disconnect BCM connector back door lock assembly connector.
2. Check continuity between BCM harness connector and back door lock assembly (door switch) harness connector.

BCM connector	Terminal	Back door lock assembly (door switch) connector	Terminal	Continuity
M65	13	D190	2	Exists

3. Check continuity between BCM connector and ground.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M65	13		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and back door lock assembly (door switch).

3.CHECK BACK DOOR LOCK ASSEMBLY GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly (door switch) connector	Terminal	Ground	Continuity
D190	3		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace back door lock assembly ground circuit.

4.CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between BCM harness connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(-)	
BCM connector	Terminal	Ground	Battery voltage
M65	13		

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 6.

5.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

Check back door lock assembly (door switch).

Refer to [DLK-801, "BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door lock assembly (door switch). Refer to [DLK-290, "DOOR LOCK : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR : Component Inspection

INFOID:000000001298591

1.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

Check back door lock assembly (door switch).

Terminal		Back door condition	Continuity
Back door lock assembly (door switch)			
2	1	OPEN	Exists
		CLOSE	Does not exist

Is the inspection result normal?

YES >> Back door lock assembly (door switch) is OK.

NO >> Replace back door lock assembly. Refer to [DLK-290, "DOOR LOCK : Removal and Installation"](#).

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KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

KEY SWITCH

Description

INFOID:000000001301148

Key switch detects that mechanical key is inserted into the key cylinder, and then transmits the signal to BCM and Intelligent Key unit.

Component Function Check

INFOID:000000001301149

1.CHECK KEY SWITCH INPUT SIGNAL

Check key switch ("KEY ON SW") in "Data Monitor" mode with CONSULT-III. Refer to [DLK-782, "DOOR LOCK : CONSULT-III Function \(BCM - DOOR LOCK\)"](#).

Monitor item	Condition
KEY ON SW	Insert mechanical key into key cylinder : ON
	Remove mechanical key from key cylinder : OFF

Is the inspection result normal?

YES >> Key switch is OK.

NO >> Refer to [DLK-802, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001301150

1.CHECK KEY SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect BCM connector.
3. Check voltage between BCM harness connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	5	Insert mechanical key into key cylinder	Battery voltage
		Remove mechanical key from key cylinder	0

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK KEY SWITCH POWER SUPPLY CIRCUIT

1. Remove mechanical key from key cylinder.
2. Disconnect key switch connector.
3. Check voltage between key switch harness connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
Key switch connector	Terminal		
M24	2	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK KEY SWITCH SIGNAL CIRCUIT

1. Check continuity between BCM harness connector and key switch connector.

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BCM connector	Terminal	Key switch connector	Terminal	Continuity
M65	5	M24	1	Exists

2. Check continuity between ignition knob switch, key switch and key lock solenoid connector and ground.

Key switch connector	Terminal	Ground	Continuity
M24	1	Ground	Does not exist

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK KEY SWITCH

Check key switch function.

Refer to [DLK-803, "Component Inspection"](#).

Is the inspection result normal?

yes >> GO TO 5.

NO >> Replace key cylinder assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#)

>> INSPECTION END

Component Inspection

INFOID:000000001301151

COMPONENT INSPECTION

1.CHECK KEY SWITCH

Check continuity between key switch terminals.

Terminal		Condition	Continuity
Key switch			
1	2	Insert mechanical key into key cylinder	Exists
		Remove mechanical key from key cylinder	Does not exist

Is the inspection result normal?

YES >> Key switch is OK.

NO >> Replace key cylinder assembly.

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001470504

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:000000001470505

1. CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The all door lock actuators are unlocked
	:DR UNLK	The door lock actuator (driver side) is unlocked
	:LOCK	The all door lock actuators are locked

Is the inspection result normal?

YES >> Front door lock actuator (driver side) is OK.

NO >> Refer to [DLK-804, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001470506

1. CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Ground	
	M67		
	60	Lock	0 → Battery voltage → 0
		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and front door lock actuator (driver side) connector.
2. Check continuity between BCM connector and front door lock actuator (driver side) connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	56	D9	1	Exists
	60		2	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		
	60		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#)

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001470508

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000001470509

1.CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The all door lock actuators are unlocked
	:AS UNLK	The door lock actuator (passenger side) is locked
	:LOCK	The all door lock actuators are locked

Is the inspection result normal?

YES >> Front door lock actuator (passenger side) is OK.

NO >> Refer to [DLK-805. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001470510

1.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Lock	0 → Battery voltage → 0
M67	56		
	54	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and front door lock actuator (passenger side) connector.
2. Check continuity between BCM connector and front door lock actuator (passenger side) connector.

BCM connector	Terminal	Front door lock actuator (passenger side) connector	Terminal	Continuity
M67	56	D48	2	Exists
	54		1	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist
	54		

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DOOR LOCK ACTUATOR

[WITHOUT I-KEY, WITH SUPER LOCK]

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#)

>> INSPECTION END

REAR LH

REAR LH : Description

INFOID:000000001470512

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:000000001470513

1. CHECK FUNCTION

Ⓟ With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item	Condition
DOOR LOCK/UNLOCK	:ALL UNLK The all door lock actuators are unlocked
	:LOCK The all door lock actuators are locked

Is the inspection result normal?

- YES >> Rear door lock actuator LH is OK.
- NO >> Refer to [DLK-806. "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001470514

1. CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	56	Lock	0 → Battery voltage → 0
	54	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and rear door lock actuator LH connector.
2. Check continuity between BCM connector and rear door lock actuator LH connector.

BCM connector	Terminal	Rear door lock actuator LH connector	Terminal	Continuity
M67	56	D85	1	Exists
	54		2	

3. Check continuity between BCM connector and ground.

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M67	56		
	54		

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#)

>> INSPECTION END

REAR RH

REAR RH : Description

INFOID:000000001470516

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:000000001470517

1.CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item	Condition
DOOR LOCK/UNLOCK	:ALL UNLK The all door lock actuators are unlocked
	:LOCK The all door lock actuators are locked

Is the inspection result normal?

- YES >> Door lock actuator is OK.
NO >> Refer to [DLK-807. "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001470518

1.CHECK BCM OUTPUT SIGNAL

- Turn ignition switch OFF.
- Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Lock	0 → Battery voltage → 0
M67	56		
		Ground	Unlock
	54		

Is the inspection result normal?

- YES >> GO TO 3.
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM and rear door lock actuator RH connector.
- Check continuity between BCM connector and rear door lock actuator RH connector.

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BCM connector	Terminal	Rear door lock actuator RH connector	Terminal	Continuity
M67	56	D105	2	Exists
	54		1	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist
	54		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#)

>> INSPECTION END

SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

SUPER LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001281330

The super lock system is controlled by BCM.

DRIVER SIDE : Component Function Check

INFOID:000000001281331

1.CHECK FUNCTION

With CONSULT-III

Check "SUPER LOCK" in "Active Test" mode with CONSULT-III.

Test item	Condition
SUPER LOCK :LOCK (SET)	The super lock actuator is locked (SET)
SUPER LOCK :UNLOCK (RELEASE)	The super lock actuator is unlocked (RELEASE)

Is the inspection result normal?

YES >> Front super lock actuator (driver side) is OK.

NO >> Refer to [DLK-809. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001281332

1.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	UNLOCK (RELEASE) LOCK (SET)	0 → Battery voltage → 0
M67	60 59		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator (driver side) connector.
3. Check continuity between BCM connector and front door lock actuator (driver side) connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	59	D29	1	Exists
	60		2	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	59		
	60		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001281335

The super lock system is controlled by BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000001281336

1.CHECK FUNCTION

With CONSULT-III

Check "SUPER LOCK" in "Active Test" mode with CONSULT-III.

Test item	Condition
SUPER LOCK	:LOCK (SET) The super lock actuator is locked (SET)
	:UNLOCK (RELEASE) The super lock actuator is unlocked (RELEASE)

Is the inspection result normal?

YES >> Front super lock actuator (passenger side) is OK.

NO >> Refer to [DLK-810. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001281337

1.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	54	UNLOCK (RELEASE)	0 → Battery voltage → 0
	59	LOCK (SET)	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator (passenger side) connector.
3. Check continuity between BCM connector and front door lock actuator (passenger side) connector.

BCM connector	Terminal	Front door lock actuator (passenger side) connector	Terminal	Continuity
M67	59	D68	1	Exists
	54		2	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	59		Does not exist
	54		

Is the inspection result normal?

SUPER LOCK ACTUATOR

[WITHOUT I-KEY, WITH SUPER LOCK]

< COMPONENT DIAGNOSIS >

- YES >> GO TO 3.
- NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END.

REAR LH

REAR LH : Description

INFOID:000000001281339

The super lock system is controlled by BCM.

REAR LH : Component Function Check

INFOID:000000001281340

1.CHECK FUNCTION

With CONSULT-III

Check "SUPER LOCK" in "Active Test" mode with CONSULT-III.

Test item	Condition
SUPER LOCK	:LOCK (SET) The super lock actuator is locked (SET)
	:UNLOCK (RELEASE) The super lock actuator is unlocked (RELEASE)

Is the inspection result normal?

- YES >> Rear super lock actuator LH is OK.
- NO >> Refer to [DLK-811. "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001281341

1.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	54	Ground	UNLOCK (RELEASE)
	59		LOCK (SET)
			0 → Battery voltage → 0

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock actuator LH connector.
3. Check continuity between BCM connector and rear door lock actuator LH connector.

BCM connector	Terminal	Rear door lock actuator (passenger side) connector	Terminal	Continuity
M67	59	D115	1	Exists
	54		2	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	59		
	54		

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SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END.

REAR RH

REAR RH : Description

INFOID:000000001281343

The super lock system is controlled by BCM.

REAR RH : Component Function Check

INFOID:000000001281344

1.CHECK FUNCTION

With CONSULT-III

Check "SUPER LOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
SUPER LOCK	:LOCK (SET)	The super lock actuator is locked (SET)
	:UNLOCK (RELEASE)	The super lock actuator is unlocked (RELEASE)

Is the inspection result normal?

YES >> Rear super lock actuator RH is OK.

NO >> Refer to [DLK-812. "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001281345

1.CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	54	UNLOCK (RELEASE)	0 → Battery voltage → 0
	59	LOCK (SET)	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock actuator RH connector.
3. Check continuity between BCM connector and rear door lock actuator RH connector.

BCM connector	Terminal	Rear door lock actuator RH connector	Terminal	Continuity
M67	59	D95	1	Exists
	54		2	

4. Check continuity between BCM connector and ground.

SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M67	59		Ground
	54		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END.

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BACK DOOR OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR OPENER ACTUATOR

Description

INFOID:000000001298612

Opens the back door with the signal from BCM.

Component Function Check

INFOID:000000001298613

1.CHECK FUNCTION

With CONSULT-III

Check "TRUNK/GLASS HATCH" in "Active Test" mode with CONSULT-III.

Test item	Condition
TRUNK/GLASS HATCH :OPEN	Back door opener actuator operation

Is the inspection result normal?

YES >> Back door opener actuator is OK.

NO >> Refer to [DLK-814, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298614

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals		Condition of back door opener switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Pressed	0 → Battery voltage → 0
M66	45		

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 2.

2.CHECK BACK DOOR LOCK ASSEMBLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and back door lock assembly connector.
3. Check continuity between BCM harness connector and back door lock assembly harness connector.

BCM connector	Terminal	Back door lock assembly connector	Terminal	Continuity
M66	45	D190	4	Exists

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M66	45		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BACK DOOR LOCK ASSEMBLY GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly connector	Terminal	Ground	Continuity
D190	3		Exists

Is the inspection result normal?

BACK DOOR OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-39. "Intermittent Incident"](#).

>> INSPECTION END

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FUEL LID OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

FUEL LID OPENER ACTUATOR

Description

INFOID:000000001301308

Locks/unlocks the fuel lid with the signal from BCM.

Component Function Check

INFOID:000000001301309

1.CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK/UNLOCK" in "Active Test" mode with CONSULT-III.

Test item		Condition
DOOR LOCK/UNLOCK	:ALL UNLK	The fuel lid opener actuator are unlocked
	:DR UNLK	The fuel lid opener actuator is unlocked
	:LOCK	The fuel lid opener actuator are locked

Is the inspection result normal?

- YES >> Fuel lid opener actuator is OK.
NO >> Refer to [DLK-816. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001301310

1.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M67	56	Lock	0 → Battery voltage → 0
	60	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

- YES >> GO TO 3.
NO >> GO TO 2.

2.CHECK FUEL LID OPENER ACTUATOR CIRCUIT

1. Disconnect BCM and fuel lid opener actuator connector.
2. Check continuity between BCM connector and fuel lid opener actuator connector.

BCM connector	Terminal	Fuel lid opener actuator connector	Terminal	Continuity
M67	56	B58	2	Exists
	60		1	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Does not exist
	60		

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

FUEL LID OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Refer to [GI-39. "Intermittent Incident"](#)

>> INSPECTION END

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BACK DOOR OPENER SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR OPENER SWITCH

Description

INFOID:000000001298620

Sends the back door opening signal to BCM.

Component Function Check

INFOID:000000001298621

1.CHECK FUNCTION

With CONSULT-III

Check "TRNK OPNR SW" in "Data Monitor" mode with CONSULT-III.

Monitor item	Condition
TRNK OPNR SW	Back door opener switch is pressed :ON
	Back door opener switch is released :OFF

Is the inspection result normal?

YES >> Back door opener switch is OK.

NO >> Refer to [DLK-818, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298622

1.CHECK BCM INPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals		Condition of back door opener switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	29	Pressed	0
		Released	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and back door opener switch assembly (opener switch) connector.
3. Check continuity between BCM harness connector and back door opener switch assembly (opener switch) harness connector.

BCM connector	Terminal	Back door opener switch assembly (opener switch) connector	Terminal	Continuity
M65	29	D186	1	Exists

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	29		Does not exist

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

BACK DOOR OPENER SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Terminals			Voltage (V) (Approx.)
(+)		(-)	
BCM connector	Terminal		
M65	29	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 6.

4.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

Check continuity between back door opener switch assembly (opener switch) connector and ground.

Back door opener switch assembly (opener switch) connector	Terminal	Ground	Continuity
D186	2		Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch assembly (opener switch).

Refer to [DLK-819, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door opener switch assembly. Refer to [DLK-923, "Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001298623

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1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch assembly (opener switch).

Back door opener switch assembly (opener switch)	Terminal		Back door opener switch condition	Continuity
D186	1	2	Pressed	Exists
			Released	Does not exist

Is the inspection result normal?

YES >> Back door opener switch assembly (opener switch) is OK.

NO >> Replace back door opener switch assembly. Refer to [DLK-923, "Removal and Installation"](#).

BUZZER (COMBINATION METER)

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BUZZER (COMBINATION METER)

Description

INFOID:000000001298624

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:000000001298625

1.CHECK FUNCTION

With CONSULT-III

Check the operation with "INSIDE BUZZER" in "Active Test" with CONSULT-III.

Test item	Condition	
INSIDE BUZZER	:TAKE OUT	Take away warning chime sounds
	:KNOB	Ignition knob switch warning chime sounds
	:KEY	Key warning chime sounds

Is the inspection result normal?

- Yes >> Warning buzzer in combination meter is OK.
- No >> Refer to [DLK-820, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298626

1.CHECK BUZZER (COMBINATION METER) CIRCUIT

Refer to [DLK-820, "Component Function Check"](#).

Is the inspection result normal?

- Yes >> GO TO 2.
- No >> Repair or replace buzzer (combination meter) circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

HAZARD WARNING LAMPS

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

HAZARD WARNING LAMPS

Description

INFOID:000000001298627

Performs answer-back for each operation with the number of blinks.

Component Function Check

INFOID:000000001298628

1.CHECK FUNCTION

With CONSULT-III

Check hazard warning lamp "FLASHER" in "Active Test" mode with CONSULT-III.

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.

NO >> Refer to [DLK-821, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298629

1.CHECK HAZARD SWITCH CIRCUIT

Check hazard switch circuit.

Refer to [DLK-821, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace hazard warning switch circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

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VEHICLE SPEED SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

VEHICLE SPEED SIGNAL CIRCUIT

Description

INFOID:000000001298630

Displays the vehicle speed signal received from combination meter as a numerical value (km/h).

Component Function Check

INFOID:000000001298631

1.CHECK FUNCTION

Check that all doors are automatically locked at the vehicle speed of more than 25 km/h (16 MPH).

Is the inspection result normal?

- YES >> Vehicle speed signal circuit is OK.
- NO >> Refer to [DLK-822, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001298632

1.CHECK VEHICLE SPEED SIGNAL CIRCUIT

Check vehicle speed signal "VEHICLE SPEED" in "Data Monitor" mode with CONSULT-III.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace vehicle speed signal circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-39, "Intermittent Incident"](#).

>> INSPECTION END

KEYFOB BATTERY

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

KEYFOB BATTERY

Description

INFOID:000000001281364

Remote door lock and unlock control entry function available when operating on button.

- Door lock and unlock

Component Function Check

INFOID:000000001281365

1.CHECK KEYFOB FUNCTION

Does door lock and unlock operate with operating keyfob switch?

Is the inspection result normal?

YES >> Keyfob is OK.

NO >> Refer to [DLK-823. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001281366

1.CHECK KEYFOB BATTERY

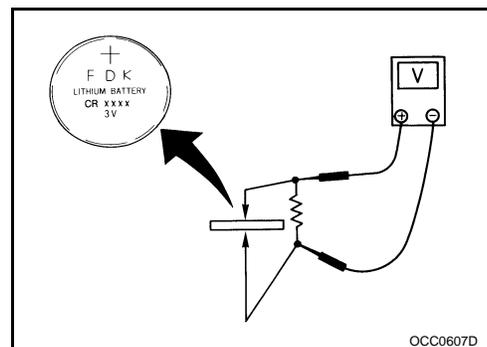
Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0V

Is the measurement value within the specification?

YES >> Replace keyfob.

NO >> Replace keyfob battery. Refer to [DLK-924. "Exploded View"](#).



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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000001557111

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
VEHICLE SPEED	While driving	Equivalent to speedometer reading
IGN ON SW	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
	Mechanical key is inserted to key cylinder	On
CDL LOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the lock side	On
CDL UNLOCK SW	Door lock/unlock switch does not operate	Off
	Press door lock/unlock switch to the unlock side	On
DOOR SW-DR	Driver's door closed	Off
	Driver's door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
BACK DOOR SW	Back door closed	Off
	Back door opened	On
I-KEY LOCK	"LOCK" button of Intelligent Key or door request switch are not pressed	Off
	"LOCK" button of Intelligent Key or door request switch are pressed	On
I-KEY UNLOCK	"UNLOCK" button of Intelligent Key or door request switch are not pressed	Off
	"UNLOCK" button of Intelligent Key or door request switch are pressed	On
PUSH SW	Return to ignition switch to "LOCK" position	Off
	Press ignition switch	On
KEYLESS LOCK	"LOCK" button of key fob is not pressed	Off
	"LOCK" button of key fob is pressed	On
KEYLESS UNLOCK	"UNLOCK" button of key fob is not pressed	Off
	"UNLOCK" button of key fob is pressed	On
SHOCK SENSOR	Ignition switch ON	NOMAL
	After the reception of air bag deployment signal from air bag diagnosis sensor unit	Off
	During the reception of air bag deployment signal from air bag diagnosis sensor unit	On
UNLOCK SHOCK	Other than the following	Off
	During the unlock operation interlocked with air bag	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Monitor Item	Condition	Value/Status	
UNLOCK WITH DR	NOTE: The item is indicated, but not monitored	On	A
		Off	
LOCK WITH SPEED	Vehicle speed sensing auto door lock function does not operate	Off	B
	Vehicle speed sensing auto door lock function is operating	On	
ACC ON SW	Ignition switch OFF	Off	C
	Ignition switch ACC or ON	On	
REAR DEF SW	Rear window defogger switch OFF	Off	D
	Rear window defogger switch ON	On	
TAIL LAMP SW	Lighting switch OFF	Off	E
	Lighting switch 1ST	On	
TURN SIGNAL R	Turn signal switch OFF	Off	F
	Turn signal switch RH	On	
TURN SIGNAL L	Turn signal switch OFF	Off	G
	Turn signal switch LH	On	
HI BEAM SW	Lighting switch OFF	Off	H
	Lighting switch HI	On	
HEAD LAMP SW 1	Lighting switch OFF	Off	I
	Lighting switch 2ND	On	
HEAD LAMP SW 2	Lighting switch OFF	Off	J
	Lighting switch 2ND	On	
PASSING SW	Other than lighting switch PASS	Off	K
	Lighting switch PASS	On	
AUTO LIGHT SW	Lighting switch OFF	Off	L
	Lighting switch AUTO	On	
FR FOG SW	Front fog lamp switch OFF	Off	M
	Front fog lamp switch ON	On	
RR FOG SW	Rear fog lamp switch OFF	Off	N
	Rear fog lamp switch ON	On	
ENGINE RUN	Engine stopped	Off	O
	Engine running	On	
LIT-SEN FAIL	Light & rain sensor is in normal condition	OK	P
	Light & rain sensor is with error	NOTOK	
AUT LIGHT SYS	Outside of the room is dark	On	Q
	Outside of the room is bright	Off	
HD LIGHT TIME	—	Displays a setting time of the follow me home function set by the work support	R
IGN SW CAN	Ignition switch OFF or ACC	Off	S
	Ignition switch ON	On	
FR WIPER HI	Front wiper switch OFF	Off	T
	Front wiper switch HI	On	
FR WIPER LOW	Front wiper switch OFF	Off	U
	Front wiper switch LO	On	
FR WIPER INT	Front wiper switch OFF	Off	V
	Front wiper switch INT	On	

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

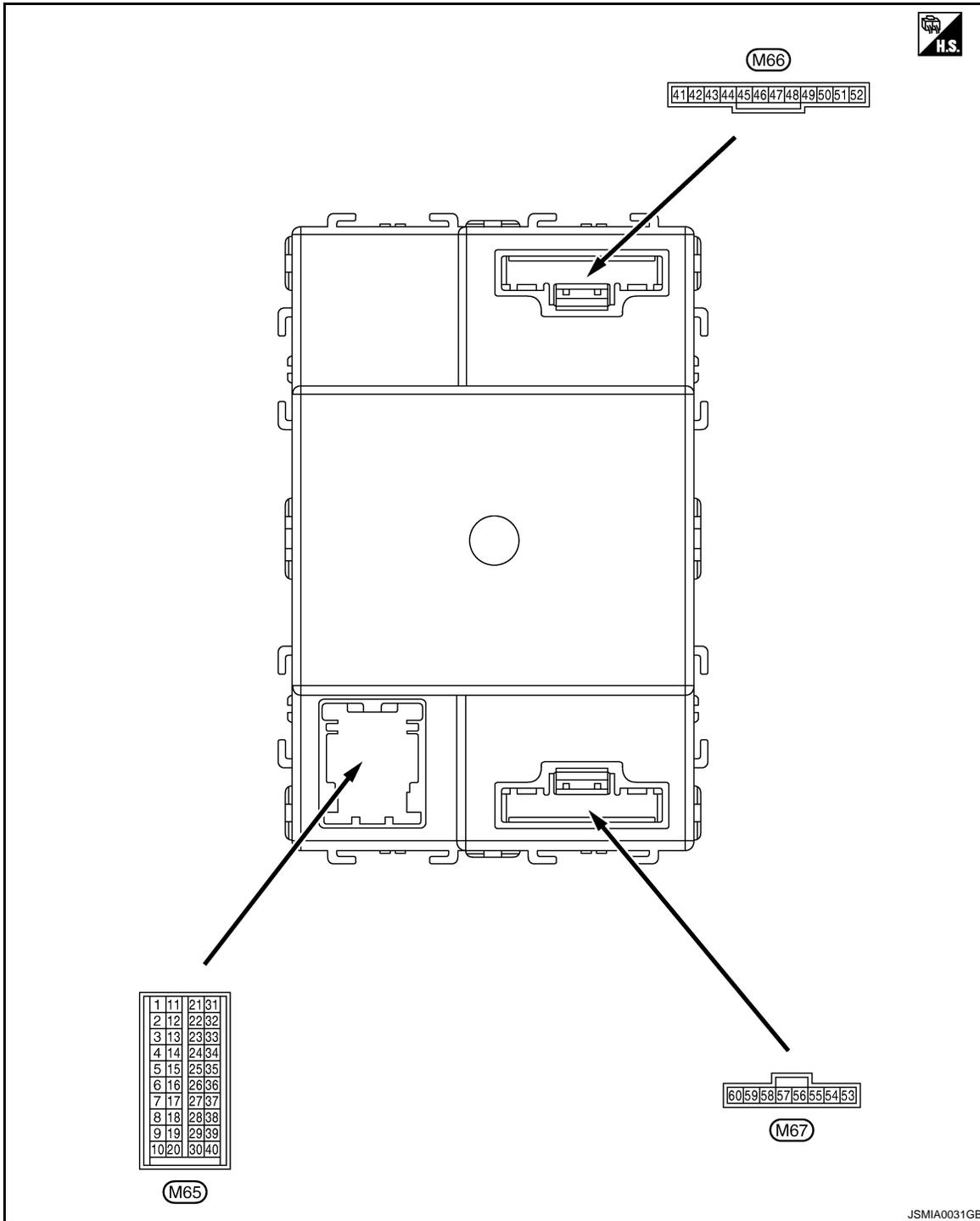
Monitor Item	Condition	Value/Status
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
FR WIPER STOP	Any position other than front wiper stop position	Off
	Front wiper stop position	On
RR WIPER ON	Rear wiper switch OFF	Off
	Rear wiper switch ON	On
RR WIPER INT	Rear wiper switch OFF	Off
	Rear wiper switch INT	On
RR WIPER STOP	Rear wiper stop position	Off
	Other than rear wiper stop position	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
REVERSE SW CAN	NOTE: The item is indicated, but not monitored	Off
		On
H/L WASH SW	When headlamp washer switch is not pressed	Off
	When headlamp washer switch is pressed	On
FAN ON SIG	Blower fan motor switch OFF	Off
	Blower fan motor switch ON (other than OFF)	On
AIR COND SW	Compressor ON is not requested from auto amp. (A/C indicator OFF, blower fan motor switch OFF or etc.)	Off
	Compressor ON is requested from auto amp. (A/C indicator ON and blower fan motor switch ON).	On
HAZARD SW	Hazard switch OFF	Off
	Hazard switch ON	On
BRAKE SW	Brake pedal is not depressed	Off
	Brake pedal is depressed	On
TRNK OPNR SW	When back door opener switch is not pressed	Off
	When back door opener switch is pressed	On
HOOD SW	Close the hood NOTE: Vehicles without theft warning system are OFF-fixed	Off
	Open the hood	On
AUTO RELOCK	Auto lock function does not operate	Off
	Auto lock function is operating	On
GLS BREAK SEN	The vehicle without glass break sensor	Off
	The vehicle with glass break sensor	On
OIL PRESS SW	<ul style="list-style-type: none"> • Ignition switch OFF or ACC • Engine running 	Off
	Ignition switch ON	On

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

TERMINAL LAYOUT



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PHYSICAL VALUES

CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF is not to be fluctuated by being overloaded.
- Turn wiper intermittent dial position to 4 except when checking waveform or voltage of wiper intermittent dial position. Wiper intermittent dial position can be confirmed on CONSULT-III. Refer to [BCS-28, "COMB SW : CONSULT-III Function \(BCM - COMB SW\)"](#).
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to [BCS-9, "System Description"](#).

BCM (BODY CONTROL MODULE)

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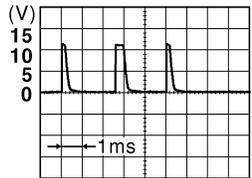
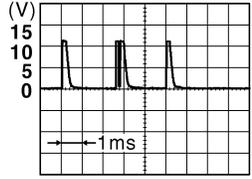
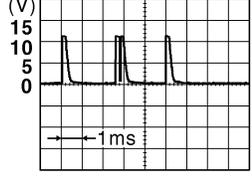
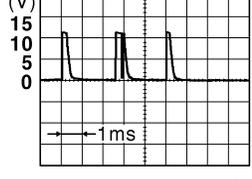
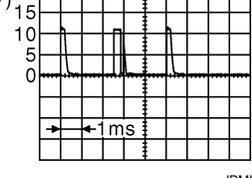
[WITHOUT I-KEY, WITH SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
1 (W)	Ground	NATS antenna amp.	Input/ Output	Insert mechanical key into ignition key cylinder	Just after Insert mechanical key into ignition key cylinder. Pointer of tester should move
2 (G)	Ground	NATS antenna amp.	Input/ Output	Insert mechanical key into ignition key cylinder	Just after Insert mechanical key into ignition key cylinder. Pointer of tester should move
3 (W)	Ground	Ignition power supply	Input	Ignition switch OFF or ACC	0 V
				Ignition switch ON or START	Battery voltage
4 (SB)	Ground	ACC power supply	Input	Ignition switch OFF	0 V
				Ignition switch ON or ACC	Battery voltage
5 (LG) ^{*1} (R) ^{*2}	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder	Battery voltage
				Remove mechanical key from ignition key cylinder	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
6 (L)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.4 V</p>
					Lighting switch HI (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Lighting switch 2ND (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Rear washer switch ON	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Any of the condition below with all switch OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3  <p style="text-align: right; margin-right: 50px;">1.3 V</p>

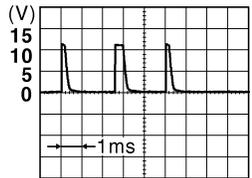
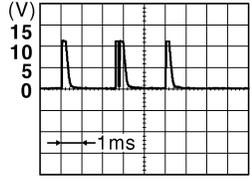
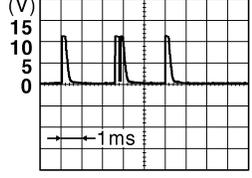
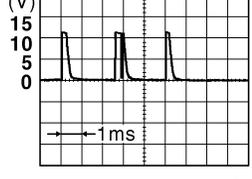
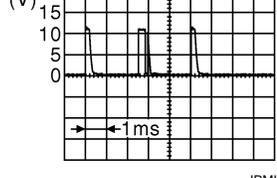
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BCM (BODY CONTROL MODULE)

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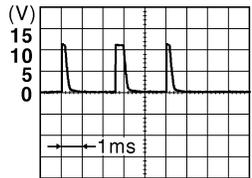
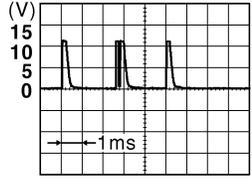
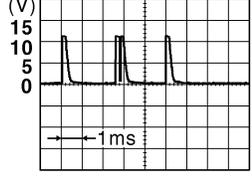
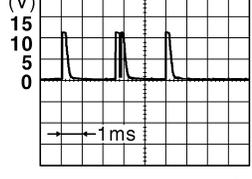
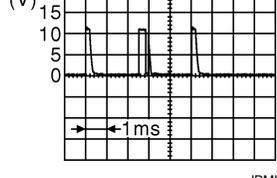
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)		
+	-	Signal name	Input/ Output				
7 (GR)	Ground	Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.4 V</p>	
					Lighting switch 1ST (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>	
					Lighting switch AUTO (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>	
					Any of the condition below with all switch OFF	<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 6 	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Rear wiper INT (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>	

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
8 (V)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	 <p style="text-align: right;">1.4 V <small>JPMIA0165GB</small></p>
					Turn signal switch RH	 <p style="text-align: right;">1.3 V <small>JPMIA0166GB</small></p>
					Turn signal switch LH	 <p style="text-align: right;">1.3 V <small>JPMIA0167GB</small></p>
					Front wiper switch LO	 <p style="text-align: right;">1.3 V <small>JPMIA0168GB</small></p>
					Front washer switch ON	 <p style="text-align: right;">1.3 V <small>JPMIA0196GB</small></p>

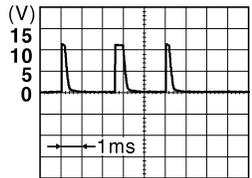
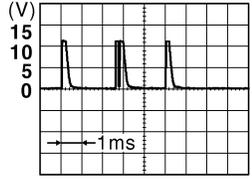
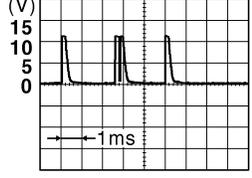
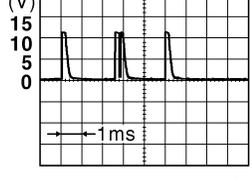
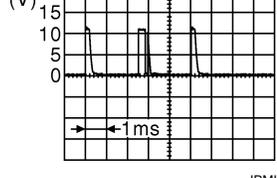
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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

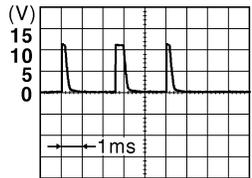
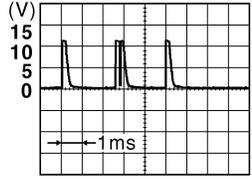
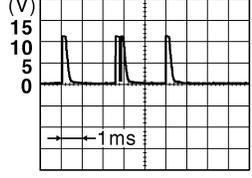
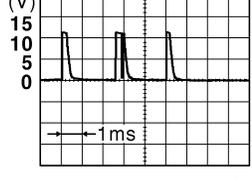
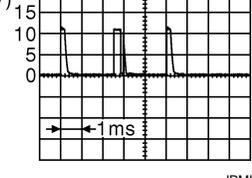
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Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
9 (G) ^{*3} (B) ^{*4}	Ground	Combination switch INPUT 2	Input	All switch OFF	 <p style="text-align: right; margin-right: 50px;">JPMIA0165GB 1.4 V</p>
				Lighting switch 2ND	 <p style="text-align: right; margin-right: 50px;">JPMIA0166GB 1.3 V</p>
				Lighting switch PASS	 <p style="text-align: right; margin-right: 50px;">JPMIA0167GB 1.3 V</p>
				Front wiper switch INT	 <p style="text-align: right; margin-right: 50px;">JPMIA0168GB 1.3 V</p>
				Front wiper switch HI	 <p style="text-align: right; margin-right: 50px;">JPMIA0196GB 1.3 V</p>

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
10 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Front fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Rear fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Rear wiper switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Any of the condition below with all switch OFF	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
11 (B)	Ground	Audio link	Input/ Output	—	—	

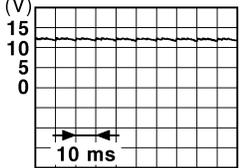
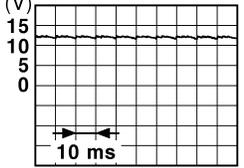
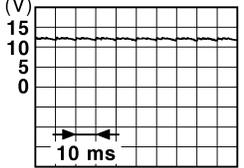
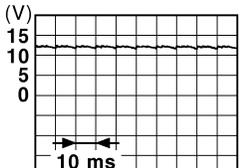
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BCM (BODY CONTROL MODULE)

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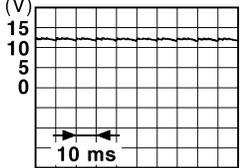
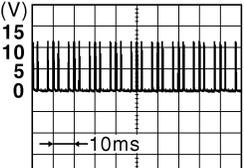
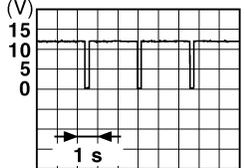
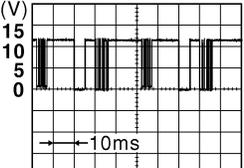
[WITHOUT I-KEY, WITH SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
12 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	 PKID0924E 11.2 V
				Rear door switch RH	ON (When rear door RH opened)	0 V
13 (V)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	 PKID0924E 11.2 V
				Back door switch	ON (When back door opened)	0 V
14 (P) ^{*3} (BR) ^{*4}	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	 PKID0924E 11.2 V
				Passenger door switch	ON (When passenger door opened)	0 V
15 (BR) ^{*3} (P) ^{*4}	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	 PKID0924E 11.2 V
				Driver door switch	ON (When driver door opened)	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
16 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)  11.2 V
				ON (When rear door LH opened)	0 V
17 (L)	Ground	Door lock status indicator	Output	Door lock status indicator	ON 12 V OFF 0 V
20 (SB)	Ground	Rear window defogger switch	Input	Rear window defogger switch	Not pressed  1.1 V
				While pressing	0 V
21 (P)	—	CAN-L	Input/ Output	—	—
22 (L)	—	CAN-H	Input/ Output	—	—
23 (V)	Ground	Security indicator	Output	Security indicator	ON 0 V Blinking  10.3 V
				OFF	12 V
24 (GR)	Ground	Light & rain sensor serial link	Input/ Output	Ignition switch OFF or ACC	12 V
				Ignition switch ON	 8.7 V
25 (G)	Ground	Alarm link	Output	—	—

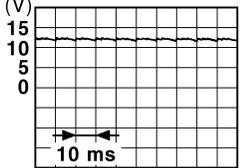
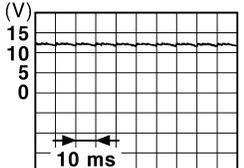
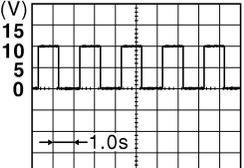
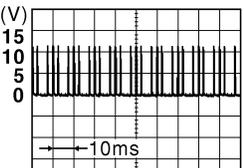
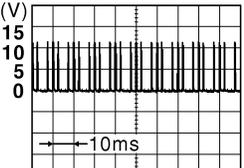
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BCM (BODY CONTROL MODULE)

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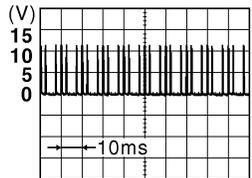
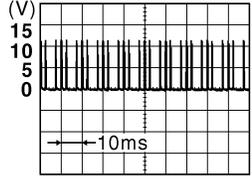
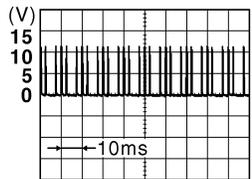
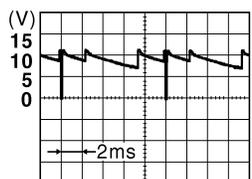
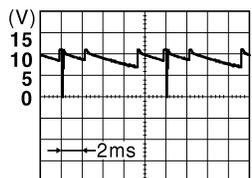
[WITHOUT I-KEY, WITH SUPER LOCK]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
26 (GR) ^{*5} (LG) ^{*6}	Ground	Blower fan motor switch	Input	Blower fan mo- tor switch	OFF	 PKID0924E 11.2 V
					ON (other than OFF)	0 V
27 (P) ^{*5} (Y) ^{*6}	Ground	A/C switch	Input	Ignition switch ON	Compressor ON is not re- quested from auto amp. (A/C indicator OFF, blow- er fan motor switch OFF or etc.)	 PKID0924E 11.2 V
					Compressor ON is re- quested from auto amp. (A/C indicator ON and blower fan motor switch ON).	0 V
28 (LG) ^{*7} (R) ^{*8}	Ground	Shock detect sensor	Input	Ignition switch OFF or ACC	0 V	
				Ignition switch ON	 JPMIA0155GB 6.0 V	
29 (LG) ^{*3} (O) ^{*4}	Ground	Back door opener switch	Input	Back door opener switch	Not pressed	 JPMIA0154GB 1.2 V
					Pressed	0 V
32 (BR)	Ground	Door lock/unlock switch (Unlock)	Input	Door lock/un- lock switch	Not pressed	 JPMIA0154GB 1.2 V
					Pressed to the unlock side	0 V

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
33 (W) ^{*9} (Y) ^{*10}	Ground	Hazard switch	Input	Hazard switch	OFF	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
					ON	0 V
34 (SB) ^{*3} (P) ^{*4}	Ground	Door lock/unlock switch (Lock)	Input	Door lock/un- lock switch	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
					Pressed to the lock side	0 V
35 (G)	Ground	Headlamp washer switch	Input	Headlamp washer switch	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
					Pressed to the lock side	0 V
36 (G)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Turn signal switch RH	 <p style="text-align: right; font-size: small;">JPMIA0164GB</p>
					Lighting switch 2ND	
					Lighting switch HI	
					Lighting switch 1ST	
37 (R)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0161GB</p>
					Rear washer switch ON (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF	
					<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	
Rear wiper switch ON (Wiper intermittent dial 4)						

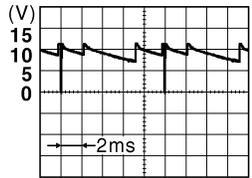
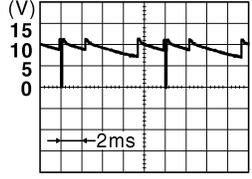
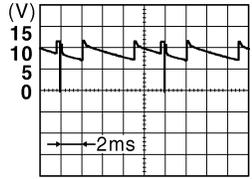
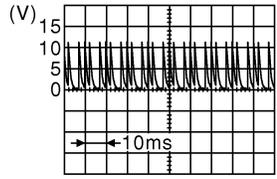
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BCM (BODY CONTROL MODULE)

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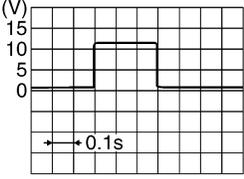
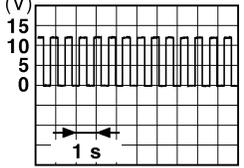
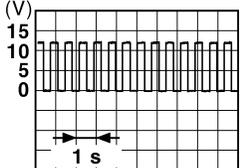
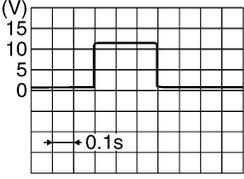
[WITHOUT I-KEY, WITH SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
38 (W)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Front wiper switch LO	
					Front wiper switch MIST	
					Front wiper switch INT	
					Lighting switch AUTO	
					Rear fog lamp switch ON	
39 (Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Turn signal switch LH	
					Lighting switch PASS	
					Lighting switch 2ND	
					Front fog lamp switch ON	
40 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	
					Any of the condition below with all switch OFF	
					<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	
Rear wiper switch INT (Wiper intermittent dial 4)	9.1 V					
41 (LG)	Ground	Battery power sup- ply	Input	Ignition switch OFF	Battery voltage	
42 (V)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver activation	0 V	
				Interior room lamp battery saver no activation	12 V	
43 (SB)	Ground	Rear wiper motor	Output	Rear wiper switch OFF	0 V	
				Rear wiper switch ON	12 V	
44 (B)	Ground	Rear wiper auto stop	Input	Ignition switch ON	Rear wiper stop position	
					Any position other than rear wiper stop position	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
45 (V)	Ground	Back door lock actuator	Output	Back door opener switch	Pressed	
					Not pressed	0 V
47 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	
48 (GR)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	
49 (Y)	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V
					ON	12 V
50 (G)	Ground	Unlock sensor	Input	Driver's door	Unlock	5 V
					lock	0 V
51 (R)	Ground	Stop lamp switch	Input	Depress the brake pedal		Battery voltage
				Release the brake pedal		0 V
52 (R)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	12 V
					ON	0 V
53 (L)	Ground	Power window power supply (IGN)	Output	Ignition switch	OFF or ACC	0 V
					ON	12 V
54 (O)	Ground	Door unlock (All other than driver's door)	Output	Door lock/unlock switch	Pressed to the unlock side	
					Not pressed	0 V
55 (B)	Ground	Ground	—	Ignition switch ON		0 V

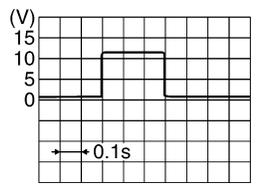
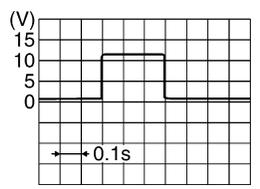
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
56 (V)	Ground	Door lock (All) and fuel lid lock	Output	Door lock/un- lock switch	Not pressed	0 V
					Pressed to the lock side	 <p style="text-align: right; font-size: small;">SKIA9232E</p>
57 (Y)	Ground	Battery power sup- ply	Input	Ignition switch OFF		Battery voltage
58 (P)	Ground	Power window pow- er supply (BAT)	Output	Ignition switch OFF		12 V
59 (R)	Ground	Super lock	Output	When lock button of key fob or Intelligent Key is not pressed		0 V
				When lock button of key fob or Intelligent Key is pressed		12 V
60 (G)	Ground	Driver's door unlock and fuel lid unlock	Output	Door lock/un- lock switch	Pressed to the unlock side	 <p style="text-align: right; font-size: small;">SKIA9232E</p>
					Not pressed	0 V

- *1: With Intelligent Key
- *2: Without Intelligent Key
- *3: RHD models
- *4: LHD models
- *5: With gasoline engine
- *6: With diesel engine
- *7: RHD models with side air bag
- *8: LHD models with side air bag
- *9: With xenon headlamp and daytime light system
- *10: Except with xenon headlamp and daytime light system

BCM (BODY CONTROL MODULE)

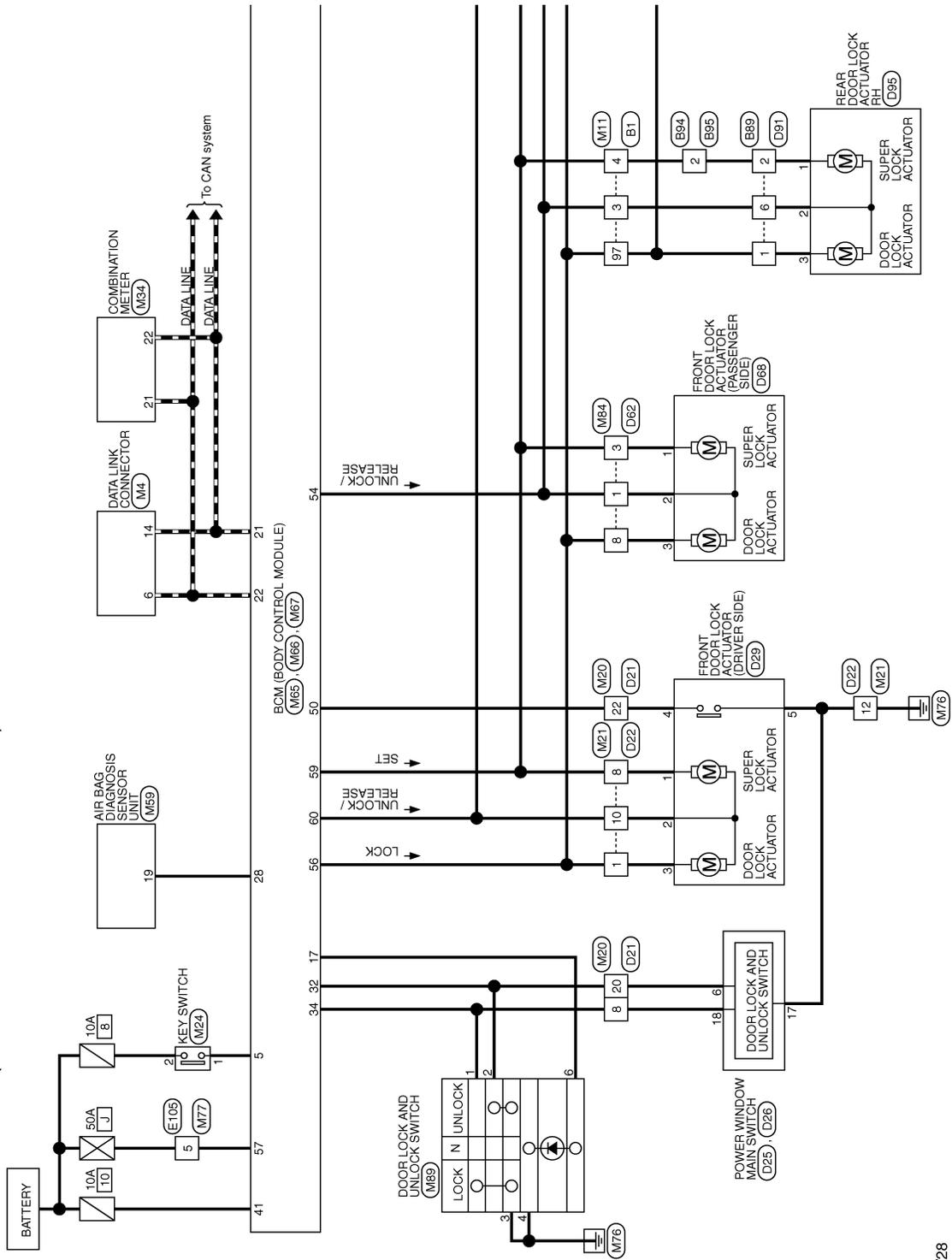
[WITHOUT I-KEY, WITH SUPER LOCK]

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Wiring Diagram - SUPER LOCK CONTROL SYSTEM -

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SUPER LOCK SYSTEM (WITHOUT INTELLIGENT KEY)



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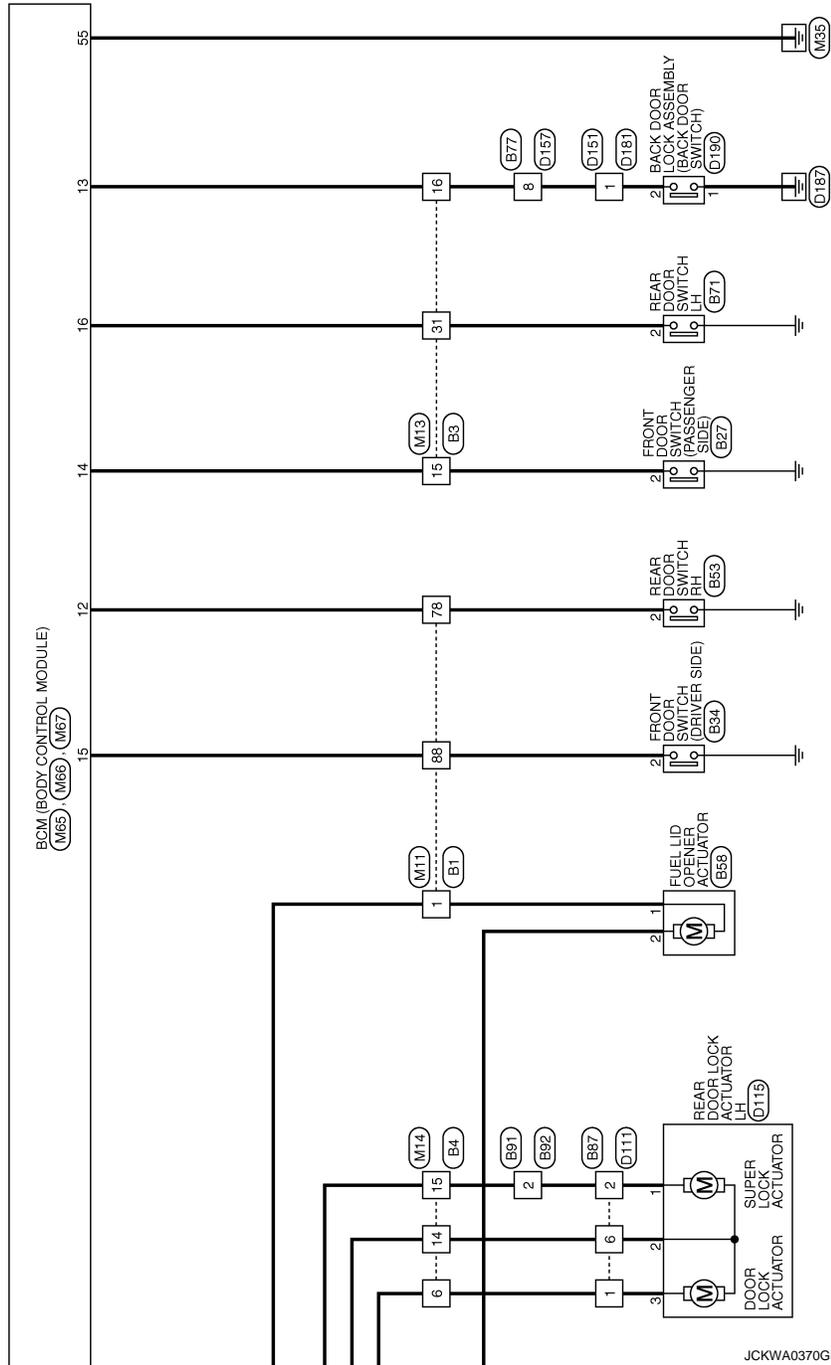
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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

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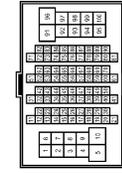
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

SUPER LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	THROW-CS16-TM4



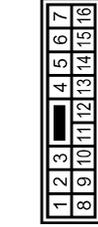
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
3	O	-
4	R	-
7B	Y	-
8B	BR	-
97	V	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



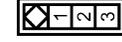
Terminal No.	Color of Wire	Signal Name [Specification]
15	P	-
16	V	-
31	GR	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS18MW-CS



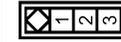
Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	O	-
15	L	-

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



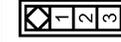
Terminal No.	Color of Wire	Signal Name [Specification]
2	P	- [RHD models]

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [RHD models]

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-

Connector No.	B58
Connector Name	FUEL LID OPENER ACTUATOR
Connector Type	M04FW-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	UNLOCK
2	V	LOCK

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-

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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

SUPER LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



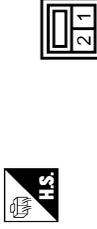
Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Connector No.	B91
Connector Name	WIRE TO WIRE
Connector Type	NS02FW-CS



Terminal No.	8	Color of Wire	V	Signal Name [Specification]	-
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Terminal No.	1	Color of Wire	V	Signal Name [Specification]	-
2	L	-	-	-	-
6	O	-	-	-	-

Terminal No.	1	Color of Wire	V	Signal Name [Specification]	-
2	R	-	-	-	-
6	G	-	-	-	-

Terminal No.	2	Color of Wire	L	Signal Name [Specification]	-
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Connector No.	B92
Connector Name	WIRE TO WIRE
Connector Type	NS02MW-CS



Connector No.	B94
Connector Name	WIRE TO WIRE
Connector Type	NS02FW-CS



Connector No.	B95
Connector Name	WIRE TO WIRE
Connector Type	NS02MW-CS



Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH



Terminal No.	2	Color of Wire	L	Signal Name [Specification]	-
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Terminal No.	2	Color of Wire	R	Signal Name [Specification]	-
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Terminal No.	2	Color of Wire	R	Signal Name [Specification]	-
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Terminal No.	8	Color of Wire	G	Signal Name [Specification]	-
20	BR	-	-	-	-
22	P	-	-	-	-

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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

SUPER LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
8	BR	-
10	O	-
12	B	-

Connector No.	D25
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



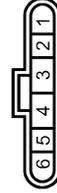
Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-

Connector No.	D26
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS20FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
17	B	-
18	G	-

Connector No.	D29
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA04FB-FHA2-LC



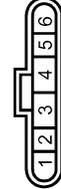
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	SB	-
4	P	-
5	B	-

Connector No.	D62
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
3	R	-
8	V	-

Connector No.	D88
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2-LC



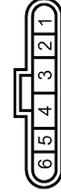
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-
3	V	-

Connector No.	D91
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	R	-
6	G	-

Connector No.	D95
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA04FB-FHA2-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	V	-

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DLK

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

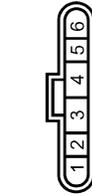
< ECU DIAGNOSIS >

SUPER LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

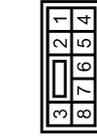
Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Connector No.	D115
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA4FB-FHAZ-LC



Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS



Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



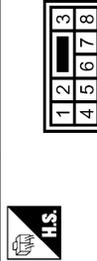
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	R	-
6	G	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
8	V	-

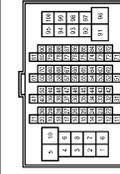
Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MR-CS



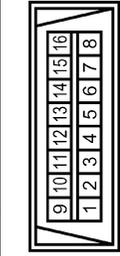
Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-

Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-

Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

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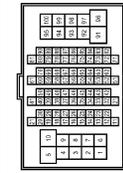
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

SUPER LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



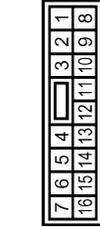
Terminal No.	Color of Wire	Signal Name [Specification]
1	O	- [RHD models]
3	O	- [RHD models]
4	R	-
7B	LG	-
8B	ER	-
97	V	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH42FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
15	P	-
16	Y	- [RHD models]
31	R	- [RHD models]

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



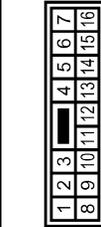
Terminal No.	Color of Wire	Signal Name [Specification]
6	V	-
14	G	- [RHD models]
15	R	-

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
8	SB	-
20	BR	-
22	B	- [Without Intelligent Key]

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



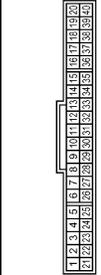
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
8	R	-
10	O	-
12	B	-

Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	TK02MR-P



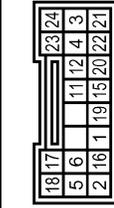
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	Y	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M59
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TK20FY-EX-SC



Terminal No.	Color of Wire	Signal Name [Specification]
19	LG	DEPLOYMENT INFORMATION [RHD models with side air bag]

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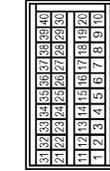
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

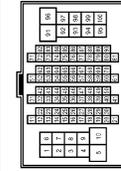
SUPER LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AABA0FE



Terminal No.	Color of Wire	Signal Name [Specification]
5	R	KEY SW (Without Intelligent Key)
12	LG	DOOR SW (RR)
13	Y	DOOR SW (BACK) [RHD models]
14	P	DOOR SW (AS) [RHD models]
15	BR	DOOR SW (FR) [RHD models]
16	R	DOOR SW (RL) [RHD models]
17	L	DOOR LOCK INDICATOR
21	P	CAN-L
22	L	CAN-H
28	LG	SHOCK DETECT SIG [RHD models with side air bag]
32	BR	LOCK UNLOCK SW (UNLOCK)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	THB0W-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-

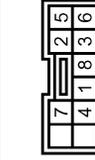
34	SB	LOCK UNLOCK SW (LOCK) [RHD models]
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Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12FB



Terminal No.	Color of Wire	Signal Name [Specification]
41	LG	BAT(FUSE)
50	G	EXTRA INPUT [RHD models with Intelligent Key]

Connector No.	M89
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	TK10FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	BR	-
3	B	-
4	B	-
6	L	-

Connector No.	M87
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA08FB



Terminal No.	Color of Wire	Signal Name [Specification]
54	G	DOOR UNLOCK OUTPUT (OTHER [RHD models])
55	B	GND
56	V	DOOR LOCK OUTPUT (ALL)
57	Y	BAT(F/L)
59	R	SUPER LOCK SET OUTPUT
60	O	DOOR UNLOCK/RELEASE OUTPUT [RHD models]

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BCM (BODY CONTROL MODULE)

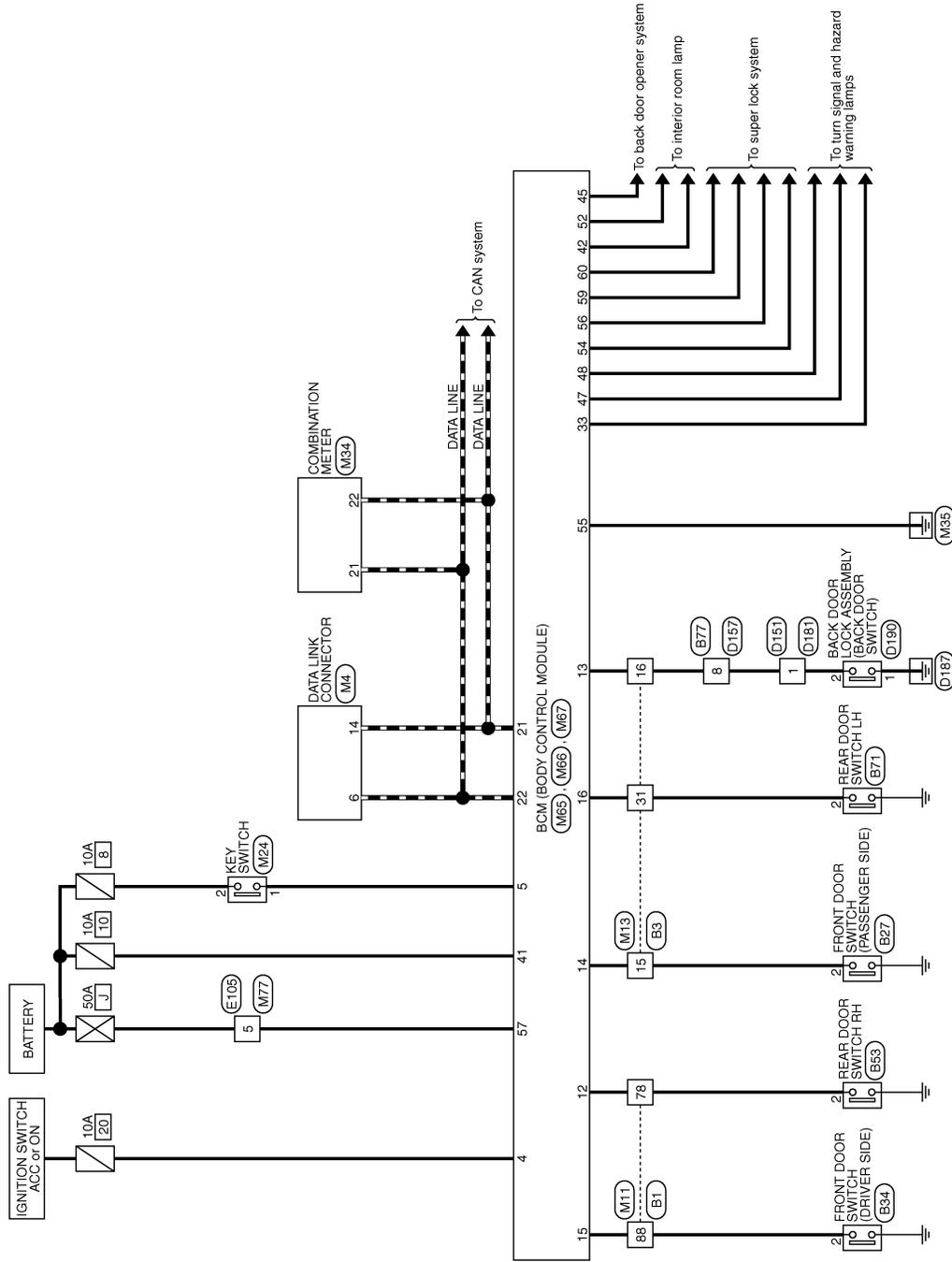
[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - REMOTE KEYLESS ENTRY CONTROL SYSTEM -

INFOID:000000001281369

REMOTE KEYLESS ENTRY SYSTEM (RHD MODELS)



2007/02/28

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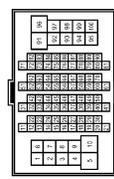
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

REMOTE KEYLESS ENTRY SYSTEM (RHD MODELS)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
78	Y	-
88	BR	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
15	P	-
16	V	-
31	GR	-

Connector No.	B7
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



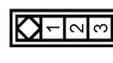
Terminal No.	Color of Wire	Signal Name [Specification]
2	P	- [RHD models]

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	- [RHD models]

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	A03FW



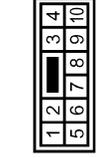
Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	-

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A03FW



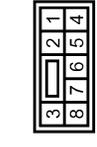
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
8	V	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-

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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

REMOTE KEYLESS ENTRY SYSTEM (RHD MODELS)

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
8	V	-

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS30MBR-CS



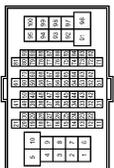
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



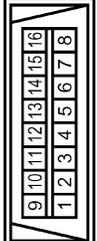
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



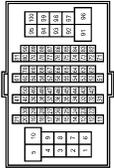
Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
78	LG	-
88	BR	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
15	P	-
16	Y	-[RHD models]
31	R	-[RHD models]

Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	TK02MBR-P



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	Y	-

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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

REMOTE KEYLESS ENTRY SYSTEM (RHD MODELS)

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



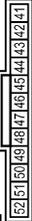
Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAAB40FB



Terminal No.	Color of Wire	Signal Name [Specification]
4	SB	ACC SW
5	LG	KEY SW(Without Intelligent Key)
12	LG	DOOR SW (RR)
13	Y	DOOR SW (BACK)(RHD models)
14	P	DOOR SW (AS)(RHD models)
15	BR	DOOR SW (DR)(RHD models)
16	R	DOOR SW (RL)(RHD models)
21	P	CAN-L
22	L	CAN-H
33	Y	HAZARD SW(Except with xenon headlamp and daytime light system)

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12FBR



Terminal No.	Color of Wire	Signal Name [Specification]
41	LG	BAT(FUSE)
42	V	ROOM LAMP POWER SUPPLY
45	P	BACK DOOR OPEN OUTPUT(RHD models)
47	BR	FRASHER OUTPUT (LH)
48	GR	FRASHER OUTPUT (RH)
52	R	ROOM LAMP CONTROL

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA08FB



Terminal No.	Color of Wire	Signal Name [Specification]
54	G	DOOR UNLOCK OUTPUT (OTHER)(RHD models)
55	B	GND
56	V	DOOR LOCK OUTPUT (ALL)
57	Y	BAT(F/L)
59	R	SUPPER LOCK SET OUTPUT
60	O	DOOR UNLOCK/RELEASE OUTPUT(DR)(RHD models)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	THBDMW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	-

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BCM (BODY CONTROL MODULE)

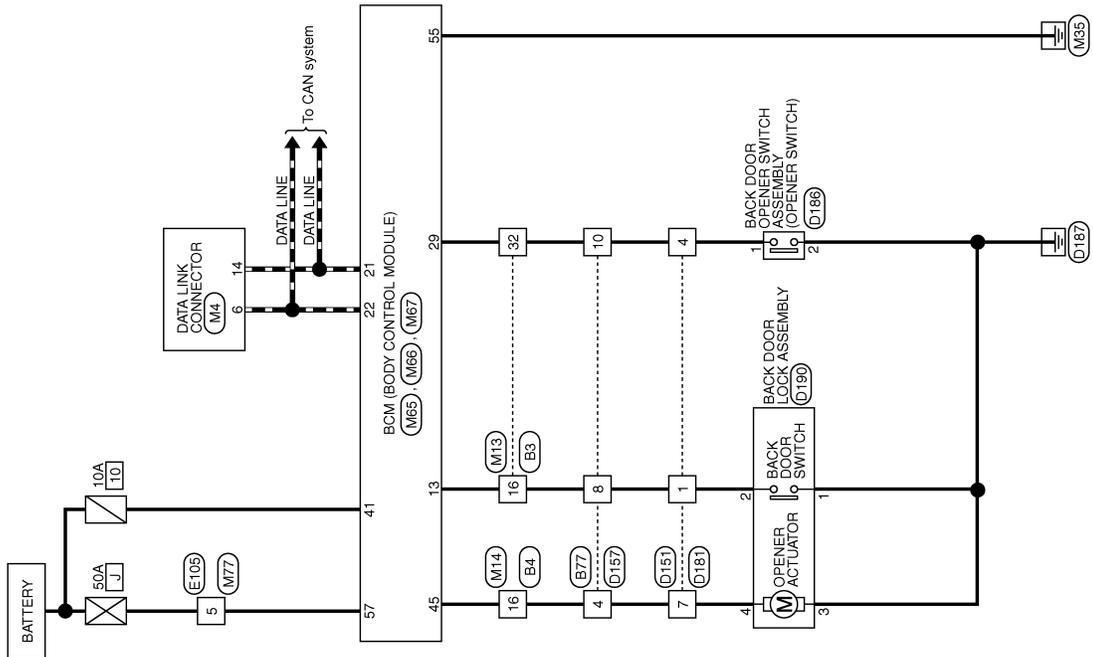
[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

INFOID:000000001281370

BACK DOOR OPENER SYSTEM



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2007/02/28

JCKWA0409GE

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH




Terminal No.	Color of Wire	Signal Name [Specification]
16	V	-
32	G	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
16	W	-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
4	W	-
8	V	-
10	G	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FB-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	LG	-
7	W	-

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS



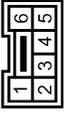

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	- [LHD models]
4	V	- [RHD models]
8	V	-
10	G	-

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
4	G	-
7	W	-

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK08MW-TV

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	BCM
2	B	GND

Connector No.	D190
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS




Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-
3	B	-
4	W	-

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

Connector No.	Wire to Wire	Signal Name [Specification]	Color of Wire	Terminal No.
M14	WIRE TO WIRE NIS18FW-CS			
M13	WIRE TO WIRE TH432FW-NH			
M4	DATA LINK CONNECTOR BD16FW			
E105	WIRE TO WIRE TH80FW-CS16-TM4			
M77	WIRE TO WIRE TH60MW-CS16-TM4			
M67	BCM (BODY CONTROL MODULE) FH408FB			
M66	BCM (BODY CONTROL MODULE) FEA12EB			
M65	BCM (BODY CONTROL MODULE) AAB40FE			
M77	WIRE TO WIRE TH60MW-CS16-TM4			
M67	BCM (BODY CONTROL MODULE) FH408FB			
M66	BCM (BODY CONTROL MODULE) FEA12EB			
M65	BCM (BODY CONTROL MODULE) AAB40FE			

BACK DOOR OPENER SYSTEM

Terminal No.	Color of Wire	Signal Name [Specification]
16	V	[LHD models]
16	V	[LHD models]
16	P	[RHD models]
32	O	-
55	B	GND
57	Y	BAT(F/L)
41	LG	BAT(F/USE)
45	V	BACK DOOR OPEN OUTPUT(LHD models)
45	P	BACK DOOR OPEN OUTPUT(RHD models)
13	V	DOOR SW.(BACK)(LHD models)
13	Y	DOOR SW.(BACK)(RHD models)
21	P	CAN-L
22	L	CAN-H
28	O	BACK DOOR OPEN SW

Fail Safe

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC is detected.

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

DTC	Fail-safe	Cancellation
B2190: NATS ANTENNA AMP	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC
B2191: DIFFERENCE OF KEY	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC
B2192: ID DISCORD BCM-ECM	Fuel cut (ECM)	Erase DTC
B2193: CHAIN OF BCM-ECM	Fuel cut (ECM)	Erase DTC
B2194: DISCORD BCM-I-KEY	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC
B2195: ANTI SCANNING	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC
B2196: DONGLE NG	<ul style="list-style-type: none"> Inhibits engine cranking Inhibits steering lock unlocking (Intelligent Key unit) Fuel cut (ECM) 	Erase DTC

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper auto stop signal.

When the rear wiper auto stop signal does not change more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

1. Turn ignition switch OFF.
2. Pass more than 1 minute after the rear wiper stop.
3. Turn ignition switch ON.
4. Operate the rear wiper switch.

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status from the terminal voltage.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

The blinking speed is normal while activating the hazard warning lamp.

FAIL-SAFE CONTROL BY LIGHT & RAIN SENSOR MALFUNCTION

BCM detects the light & rain sensor serial link error and the light & rain sensor malfunction.

BCM controls the following fail-safe when light & rain sensor has a malfunction.

Fail-safe Control

- Auto light control: Headlamp is turned ON.
- Front wiper control: The condition just before the activation of fail-safe is maintained until the front wiper switch is turned OFF.

DTC Inspection Priority Chart

INFOID:000000001557114

Priority	DTC
1	<ul style="list-style-type: none"> U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN)
2	<ul style="list-style-type: none"> B2190: NATS ANTENNA AMP B2191: DIFFERENCE OF KEY B2192: ID DISCORD BCM-ECM B2193: CHAIN OF BCM-ECM B2194: DISCORD BCM-I-KEY B2195: ANTI SCANNING B2196: DONGLE NG

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

DTC Index

INFOID:000000001557115

NOTE:

Details of time display

- CRNT: Displays when there is a malfunction now or after returning to the normal condition until turning ignition switch OFF → ON again.
- PAST: Displays when there is a malfunction that is detected in the past and stored.
- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

DTC	TIME		Fail-safe	Reference
U1000: CAN COMM CIRCUIT	0	1 - 39	—	BCS-33
U1010: CONTROL UNIT (CAN)	0	1 - 39	—	BCS-34
B2190: NATS ANTENNA AMP	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-41 • Without Intelligent Key system: SEC-254
B2191: DIFFERENCE OF KEY	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-43 • Without Intelligent Key system: SEC-256
B2192: ID DISCORD BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-38 • Without Intelligent Key system: SEC-251
B2193: CHAIN OF BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-40 • Without Intelligent Key system: SEC-253
B2194: DISCORD BCM-I-KEY	CRNT	PAST	×	SEC-53
B2195: ANTI SCANNING	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-54 • Without Intelligent Key system: SEC-264
B2196: DONGLE NG	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system: SEC-55 • Without Intelligent Key system: SEC-265

DLK

DOOR LOCK

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

SYMPTOM DIAGNOSIS

DOOR LOCK

Symptom Table

INFOID:000000001515880

The diagnostics item numbers show the sequence for inspection. Inspection in order from item 1.

NO.	Function	Operation condition	Symptom	Diagnostic Item	Reference page
1	Door lock and unlock switch function	Press door lock and unlock switch.	Door does not lock/unlock	All doors	DLK-859
				Driver side	DLK-859
				Passenger side	DLK-860
				Rear LH	DLK-860
				Rear RH	DLK-861
		Open the door from inside the vehicle.	Door does not open from inside the vehicle.	Driver side	DLK-862
				Passenger side	DLK-862
Rear LH	DLK-862				
Lock all doors with key fob.	Door lock and unlock switch indicator does not illuminate.	—	DLK-864		
2	Key reminder function	Open the door, when mechanical key is inserts into ignition key cylinder.	Key reminder function does not operate	—	DLK-865
3	Auto door lock function	Unlock all doors and wait more than 2 minutes.	Auto door lock operation does not operate	—	DLK-866
4	Vehicle speed sensing auto door lock function	Vehicle speed is more than 25km/h.	Vehicle speed sensing auto door lock operation does not operate	—	DLK-867
5	Back door opener function	Press back door opener switch.	Back door does not open	—	DLK-868
6	Warning function	Press back door opener switch under the following conditions. <ul style="list-style-type: none"> • Door is locked with door lock and unlock switch. • Speed sensing lock or only driver side is unlocked with anti-hijack function. 	Back door open warning does not operate	—	DLK-869
7	Hazard reminder function	Press Key fob button.	Hazard reminder operation does not operate	—	DLK-870

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH
< SYMPTOM DIAGNOSIS > [WITHOUT I-KEY, WITH SUPER LOCK]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Description

INFOID:000000001515881

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-756, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by key fob.

ALL DOOR : Diagnosis Procedure

INFOID:000000001515882

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to [DLK-788, "BCM : Diagnosis Procedure"](#) .

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK KEY FOB BATTERY

Check key fob battery.

Refer to [DLK-823, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-795, "PASSENGER SIDE : Component Function Check"](#) (passenger side).

Refer to [DLK-797, "REAR LH : Component Function Check"](#) (rear LH).

Refer to [DLK-798, "REAR RH : Component Function Check"](#) (rear RH).

Refer to [DLK-800, "BACK DOOR : Component Function Check"](#) (back door).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001515883

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-756, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.

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DLK

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by key fob.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001515884

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).

Refer to [DLK-804, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001515885

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-756, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001515886

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (passenger side).

Refer to [DLK-644, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR LH

REAR LH : Description

INFOID:000000001515887

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-756, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

- Doors are not locked by Intelligent Key or door request switch.

REAR LH : Diagnosis Procedure

INFOID:000000001515888

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator LH.

Refer to [DLK-645. "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

REAR RH

REAR RH : Description

INFOID:000000001515889

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-756. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Super lock is not in set state.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

REAR RH : Diagnosis Procedure

INFOID:000000001515890

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator RH.

Refer to [DLK-646. "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

DOOR DOES NOT OPEN FROM INSIDE THE VEHICLE

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR DOES NOT OPEN FROM INSIDE THE VEHICLE

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001515924

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-756, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Doors are locked by key fob.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001515925

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator (driver side).

Refer to [DLK-809, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001515926

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-756, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Doors are locked by key fob.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001515927

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator (passenger side).

Refer to [DLK-810, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

REAR LH

REAR LH : Description

INFOID:000000001515928

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-756, "Work Flow"](#).

DOOR DOES NOT OPEN FROM INSIDE THE VEHICLE

[WITHOUT I-KEY, WITH SUPER LOCK]

< SYMPTOM DIAGNOSIS >

- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- Conditions of Vehicle (Operating Conditions)
- Doors are locked by key fob.

REAR LH : Diagnosis Procedure

INFOID:000000001515929

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator LH.

Refer to [DLK-811. "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

REAR RH

REAR RH : Description

INFOID:000000001515930

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-756. "Work Flow"](#).
 - Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- Conditions of Vehicle (Operating Conditions)
- Doors are locked by key fob.

REAR RH : Diagnosis Procedure

INFOID:000000001515931

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator RH.

Refer to [DLK-812. "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

DOOR LOCK AND UNLOCK SWITCH INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH INDICATOR DOES NOT ILLUMINATE

Description

INFOID:000000001524141

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-756. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001524142

1. CHECK DOOR LOCK AND UNLOCK SWITCH INDICATOR

Check door lock and unlock switch indicator.

Refer to [DLK-792. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

KEY REMINDER FUNCTION DOES NOT OPERATE

Description

INFOID:000000001515891

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-756, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Diagnosis Procedure

INFOID:000000001515892

1.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-794, "DRIVER SIDE : Component Function Check"](#). (Driver side)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK KEY SWITCH

Check key switch.

Refer to [DLK-802, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Description

INFOID:000000001515893

NOTE:

- “AUTO RELOCK TIMER” is not OFF when setting on CONSULT-III.
 - Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-756, "Work Flow"](#).
 - Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
 - Understand the operation when does it work, refer to [DLK-766, "AUTO DOOR LOCK : System Description"](#).
- Conditions of Vehicle (Operating Conditions)
- Request switch operation and door lock and unlock switch operation are normal.

Diagnosis Procedure

INFOID:000000001515894

1. CHECK “AUTO LOCK SET” SETTING IN “WORK SUPPORT”

Check “AUTO LOCK SET” setting in “WORK SUPPORT”.

Refer to [DLK-782, "DOOR LOCK : CONSULT-III Function \(BCM - DOOR LOCK\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE
< SYMPTOM DIAGNOSIS > **[WITHOUT I-KEY, WITH SUPER LOCK]**

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

Description

INFOID:000000001515895

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-756, "Work Flow"](#).
- Understand the operation when does it work, refer to [DLK-769, "VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Diagnosis Procedure

INFOID:000000001515896

1. CHECK VEHICLE SPEED SIGNAL

Check vehicle speed signal.

Refer to [DLK-822, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

BACK DOOR DOES NOT OPENED

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR DOES NOT OPENED

Description

INFOID:000000001515897

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-756. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock function is normal.
- Vehicle speed is less than 5 km/h (3MPH).
- All doors are unlocked.

Diagnosis Procedure

INFOID:000000001515898

1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-814. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK BACK DOOR OPENER ACTUATOR

Check back door opener actuator.

Refer to [DLK-814. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 1.

BACK DOOR OPEN WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR OPEN WARNING DOES NOT OPERATE

Description

INFOID:000000001515899

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-756, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- Door lock function and back door opener function is normal.

Diagnosis Procedure

INFOID:000000001515900

1. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-820, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

HAZARD REMINDER OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

HAZARD REMINDER OPERATION DOES NOT OPERATE

Description

INFOID:000000001515901

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-756, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

Conditions of Vehicle (Operating Conditions)

- "HAZARD ANSWER BACK" is ON when setting on CONSULT-III.
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000001515902

1. CHECK SETTING OF BUZZER REMINDER WITH CONSULT-III

Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".

Refer to [DLK-784, "MULTIREMOTE ENT : CONSULT-III Function \(BCM - MULTIREMOTE ENT\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "HAZARD ANSWER BACK" setting in "WORK SUPPORT". Refer to [DLK-784, "MULTIREMOTE ENT : CONSULT-III Function \(BCM - MULTIREMOTE ENT\)"](#).

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 1.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

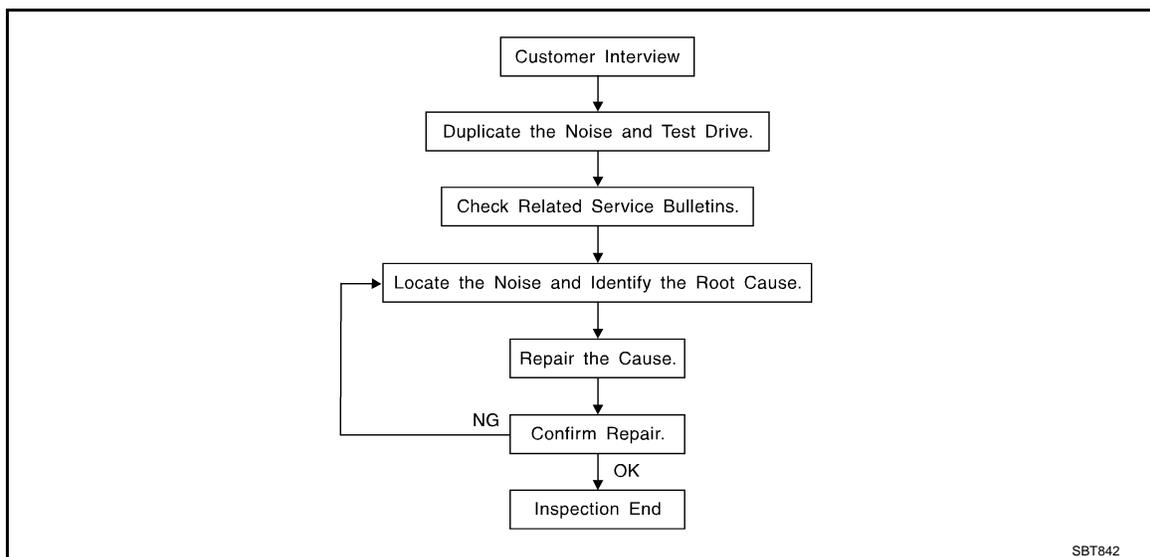
< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000001537527



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of the customer's comments; refer to [DLK-875, "Diagnostic Worksheet"](#). This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by a test drive with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)
Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)
Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)
Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)
Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumble bee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on A/T model).
 - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
 - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Engine Ear or mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - removing the components in the area that you suspect the noise is coming from.
Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
 - tapping or pushing/pulling the component that you suspect is causing the noise.
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
 - placing a piece of paper between components that you suspect are causing the noise.
 - looking for loose components and contact marks.
Refer to [DLK-873, "Inspection Procedure"](#).

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
 - separate components by repositioning or loosening and retightening the component, if possible.
 - insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape are available through your authorized Nissan Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged.

NOTE:

- URETHANE PADS
Insulates connectors, harness, etc.
- INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
- INSULATOR (Light foam block)
- FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
The following materials, not available through NISSAN Parts Department, can also be used to repair squeaks and rattles.
- UHMW(TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications.
- SILICONE GREASE
Used in place of UHMW tape that will be visible or not fit.
Note: Will only last a few months.
- SILICONE SPRAY
Use when grease cannot be applied.
- DUCT TAPE
Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Inspection Procedure

INFOID:000000001537528

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. Cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

1. Shifter assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner.

In addition look for:

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment
3. Trunk lid torsion bars knocking together
4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

SEATS

When isolating seat noise it is important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. Rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Diagnostic Worksheet

INFOID:000000001537529



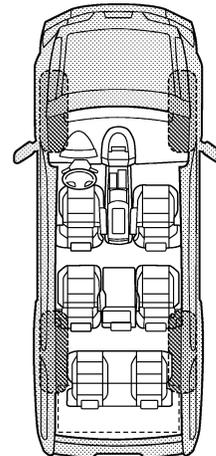
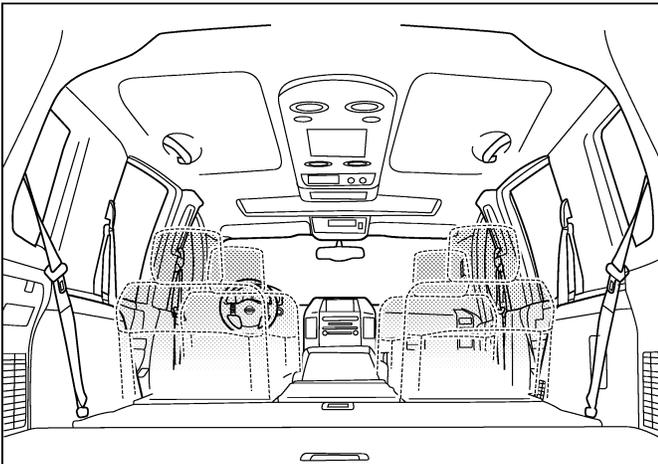
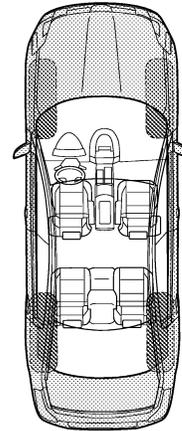
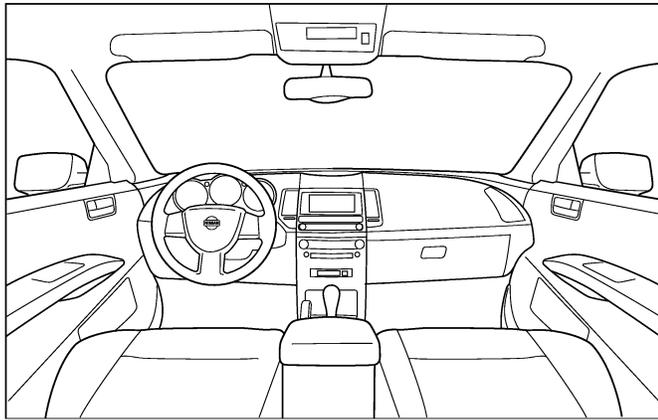
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

Dear Nissan Customer:

We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| <input type="checkbox"/> anytime | <input type="checkbox"/> after sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> when it is raining or wet |
| <input type="checkbox"/> only when it is cold outside | <input type="checkbox"/> dry or dusty conditions |
| <input type="checkbox"/> only when it is hot outside | <input type="checkbox"/> other: |

III. WHEN DRIVING:

- through driveways
- over rough roads
- over speed bumps
- only about ____ mph
- on acceleration
- coming to a stop
- on turns: left, right or either (circle)
- with passengers or cargo
- other: _____
- after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- squeak (like tennis shoes on a clean floor)
- creak (like walking on an old wooden floor)
- rattle (like shaking a baby rattle)
- knock (like a knock at the door)
- tick (like a clock second hand)
- thump (heavy, muffled knock noise)
- buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise verified on test drive	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise source located and repaired	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Follow up test drive performed to confirm repair	<input type="checkbox"/>	<input type="checkbox"/>	_____

VIN: _____ Customer Name: _____
W.O.# _____ Date: _____

This form must be attached to Work Order

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PRECAUTIONS

< PRECAUTION >

[WITHOUT I-KEY, WITH SUPER LOCK]

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000001524332

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIRBAG" and "SEAT BELT" of this Service Manual.

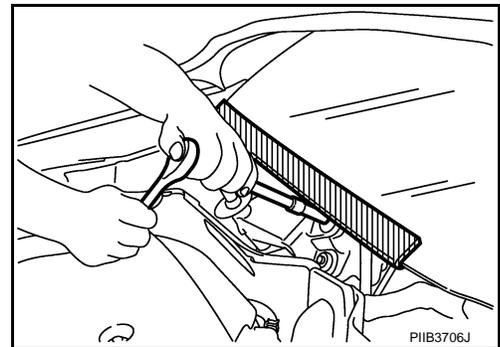
WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the "SRS AIRBAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precaution for Procedure without Cowl Top Cover

INFOID:000000001451940

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



Work

INFOID:000000001451941

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operational.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

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PREPARATION

< PREPARATION >

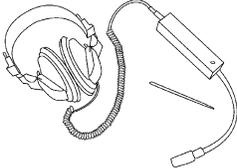
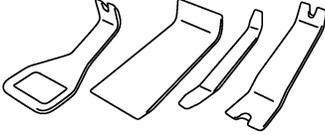
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PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000001451942

Tool name	Description
<p data-bbox="191 520 302 541">Engine ear</p>  <p data-bbox="802 632 865 646">SIA0995E</p>	<p data-bbox="1000 520 1182 541">Locating the noise</p>
<p data-bbox="191 772 326 793">Remover tool</p>  <p data-bbox="802 884 865 898">PIIB7923J</p>	<p data-bbox="1000 772 1403 793">Remove the clips, pawls, and metal clips</p>
<p data-bbox="191 1024 302 1045">Power tool</p>  <p data-bbox="802 1136 865 1150">PIIB1407E</p>	

HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

ON-VEHICLE REPAIR

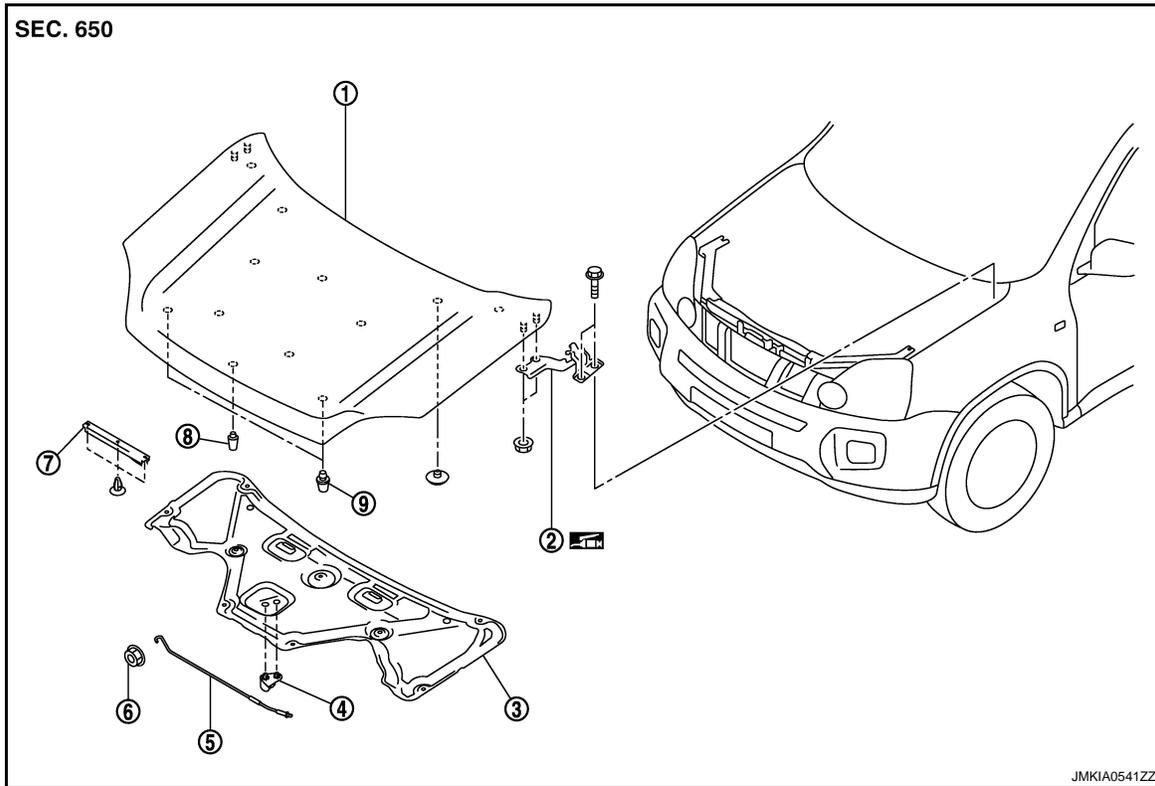
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000001451864

REMOVAL



- | | | |
|-----------------------|------------------------------|----------------------------|
| 1. Hood assembly | 2. Hood hinge | 3. Hood insulator |
| 4. Clamp | 5. Hood support rod | 6. Grommet |
| 7. Radiator core seal | 8. Hood bumper rubber center | 9. Hood bumper rubber side |

Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

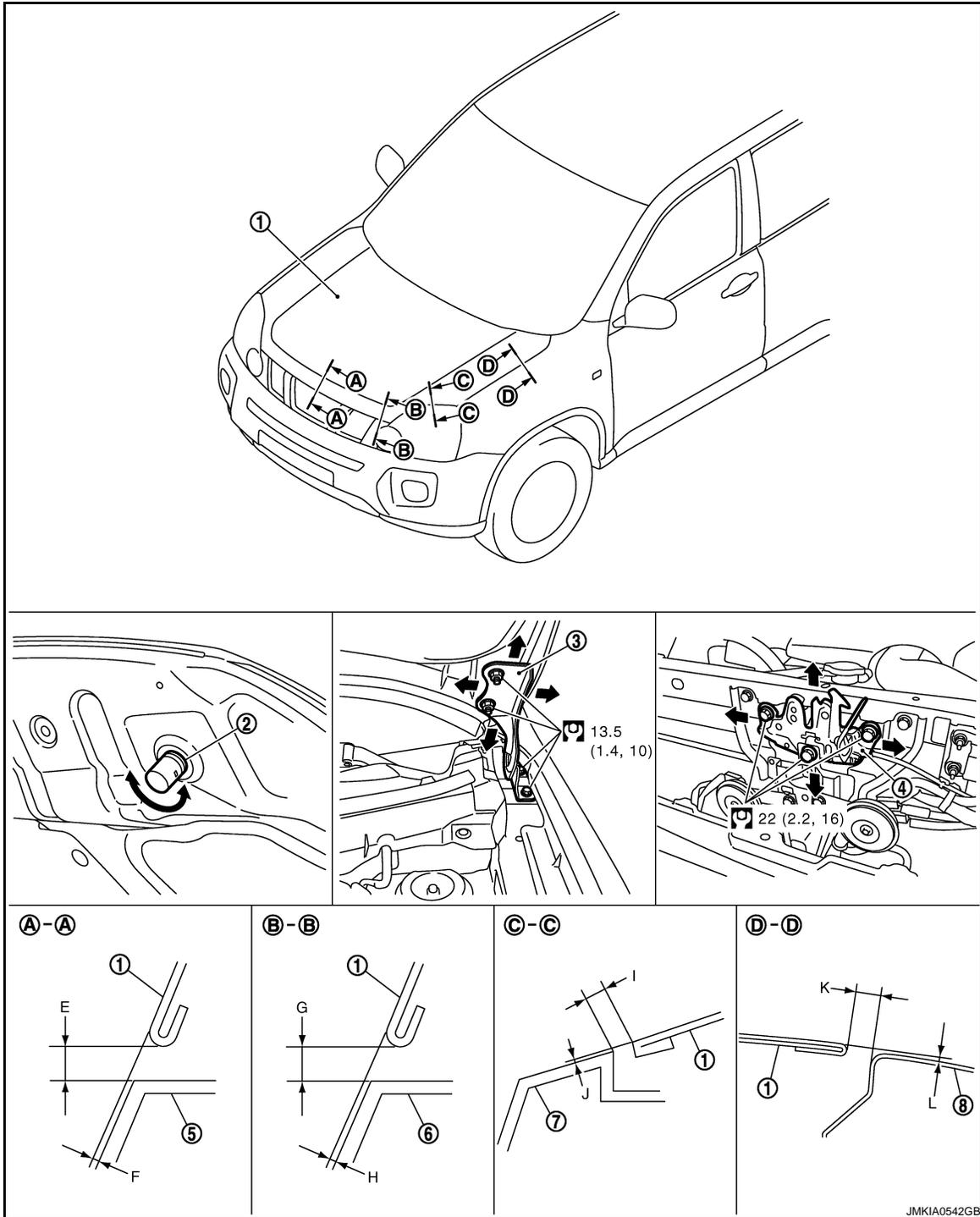
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HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]



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- | | | |
|---------------------------|----------------------------|-----------------|
| 1. Hood assembly | 2. Hood bumper rubber side | 3. Hood hinge |
| 4. Hood lock assembly | 5. Front grille | 6. Front bumper |
| 7. Front combination lamp | 8. Front fender | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:000000001451865

REMOVAL

1. Support the hood lock assembly with the proper material to prevent it from falling.

WARNING:

HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

Bodily injury may occur if no supporting rod is holding the hood open when removing the hood stay.

- Remove the hood hinge mounting nuts on the hood to remove the hood assembly.

CAUTION:

Perform work with 2 workers, because of its heavy weight.

- Remove the following parts after removing the hood assembly.
 - Hood insulator
 - Clamp
 - Hood support rod
 - Grommet
 - Radiator core seal
 - Hood bumper rubber center
 - Hood bumper rubber side

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installing, perform hood fitting adjustment. Refer to [DLK-881, "HOOD ASSEMBLY : Adjustment"](#).

HOOD ASSEMBLY : Adjustment

INFOID:000000001451866

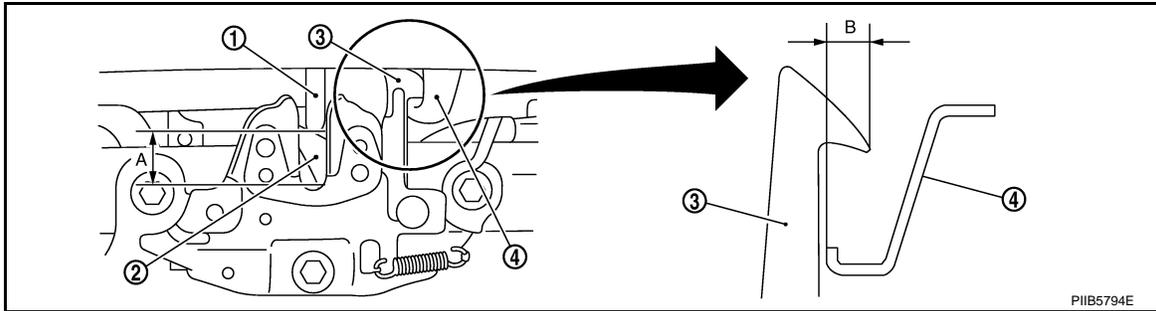
				mm(in)
Portion			Standard	
Hood – Front grill	A – A	E	Clearance	4.0 – 8.0 (0.157 – 0.315)
		F	Surface height	- 0.4 – 4.0 (- 0.016 – 0.157)
Hood – Front bumper	B – B	G	Clearance	4.0 – 8.0 (0.157 – 0.315)
		H	Surface height	- 0.4 – 4.0 (- 0.016 – 0.157)
Hood – Front combination lamp	C – C	I	Clearance	1.8 – 6.2 (0.071 – 0.244)
		J	Surface height	- 1.3 – 2.7 (- 0.051 – 0.106)
Hood – Front fender	D – D	K	Clearance	2.6 – 4.6 (0.102 – 0.181)
		L	Surface height	- 1.0 – 1.0 (- 0.039 – 0.039)

- Check the clearance and the surface height between the hood and each part by visually and touching. (Fitting standard dimension in the table below should be satisfied.)
- Remove the front grille. Refer to [EXT-18, "Removal and Installation"](#).
- In case any parts are out of specification, adjust them according to the procedures shown below.
- Remove the hood lock and adjust the height by rotating the hood bumper rubber side until the hood becomes 1 to 1.5 mm (0.04 to 0.059 in) lower than the fender.
- Temporarily tighten the hood lock, and position by engaging it with the hood striker. Check the lock and striker for looseness and adjust the clearance and evenness with the striker to satisfy the specification.
- Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately. 200 mm (7.87 in) height or by pressing the hood lightly [approximately. 29 N (3 kg)].

HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]



- 1. Hood striker
- 2. Primary latch
- 3. Secondary striker
- 4. Secondary latch

A : 20.0 mm (0.787 in)

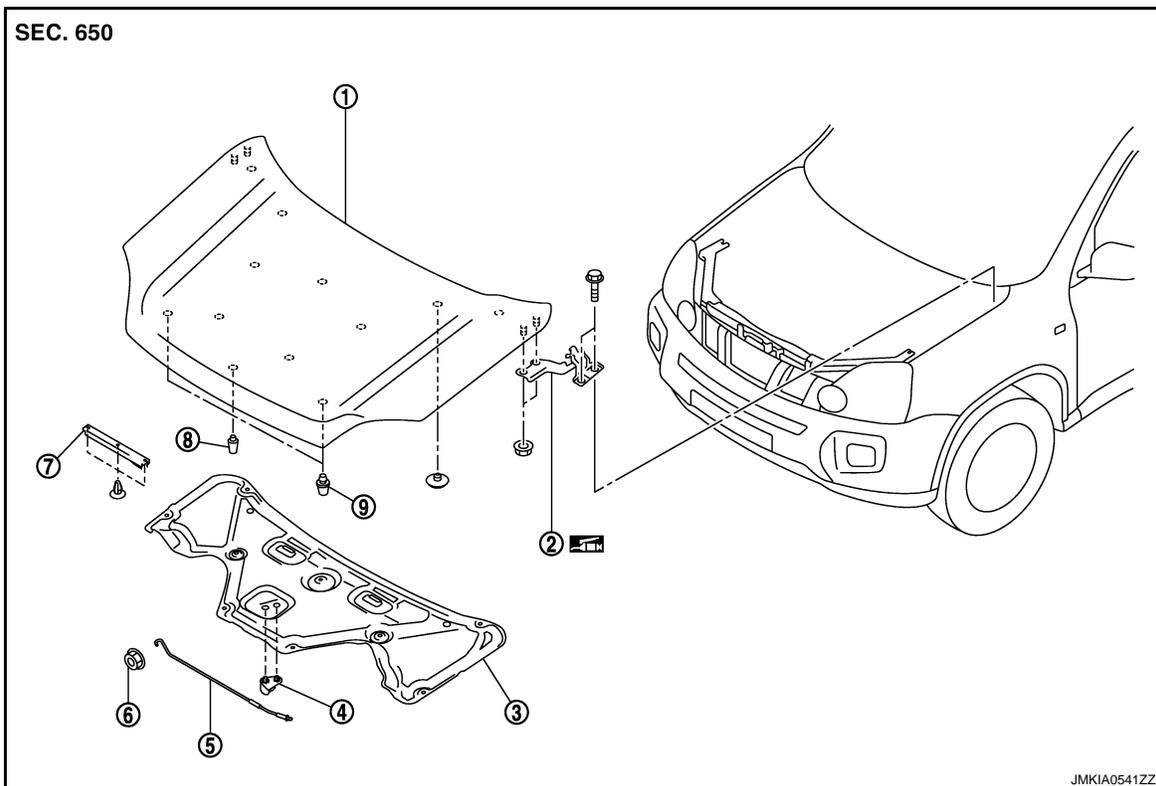
B : 6.8 mm (0.268 in)

7. After adjustment tighten lock bolts to the specified torque.

HOOD HINGE

HOOD HINGE : Exploded View

INFOID:000000001451867



- 1. Hood assembly
- 2. Hood hinge
- 3. Hood insulator
- 4. Clamp
- 5. Hood support rod
- 6. Gromet
- 7. Radiator core seal
- 8. Hood bumper rubber center
- 9. Hood bumper rubber side

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD HINGE : Removal and Installation

INFOID:000000001451868

REMOVAL

HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

1. Remove the hood assembly. Refer to [DLK-880, "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove the front fender. Refer to [DLK-888, "Removal and Installation"](#).
3. Remove the hood hinge mounting bolts, and then remove the hood hinge.

INSTALLATION

Install in the reverse order of removal.

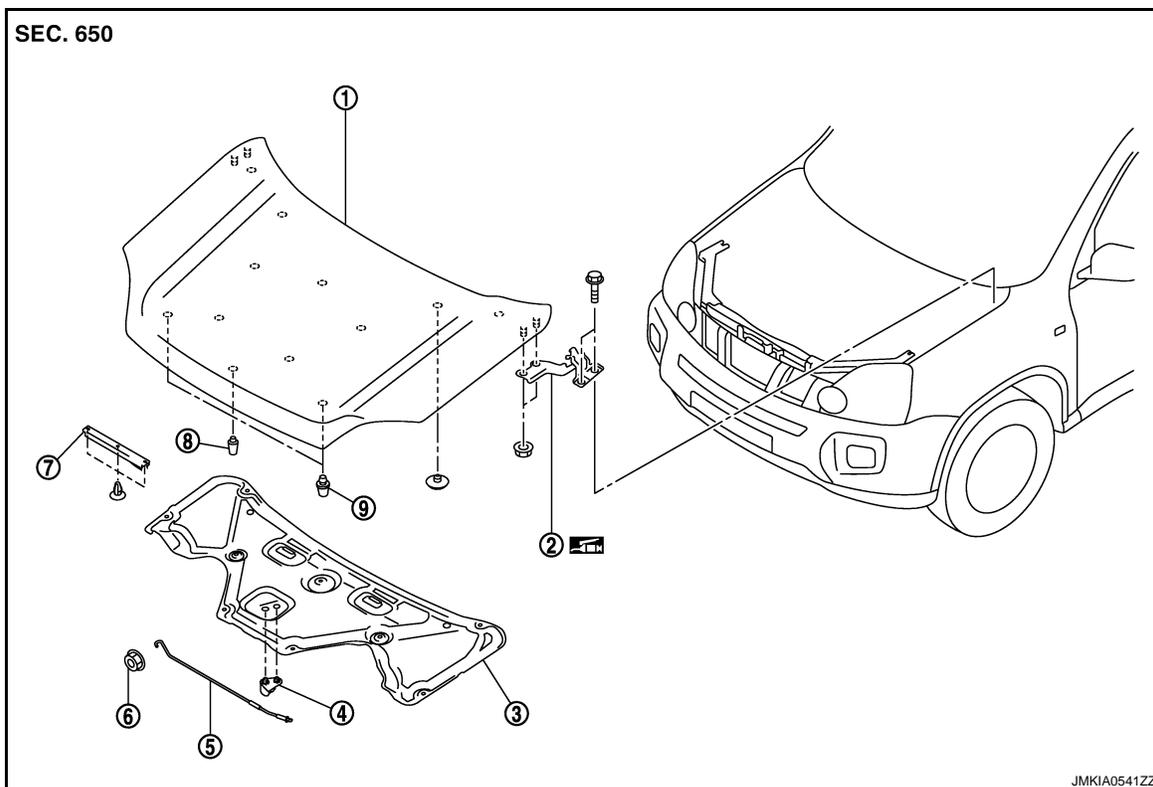
CAUTION:

- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.
- After installation, perform hood fitting adjustment. Refer to [DLK-881, "HOOD ASSEMBLY : Adjustment"](#).

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Exploded View

INFOID:000000001451870



- | | | |
|-----------------------|------------------------------|----------------------------|
| 1. Hood assembly | 2. Hood hinge | 3. Hood insulator |
| 4. Clamp | 5. Hood support rod | 6. Grommet |
| 7. Radiator core seal | 8. Hood bumper rubber center | 9. Hood bumper rubber side |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000001451871

REMOVAL

1. Support the hood lock assembly with the proper material to prevent it from falling.
WARNING:
Bodily injury may occur if no supporting rod is holding the hood open when removing the hood stay.
2. Remove the hood support rod from the grommet.

INSTALLATION

HOOD

< ON-VEHICLE REPAIR >

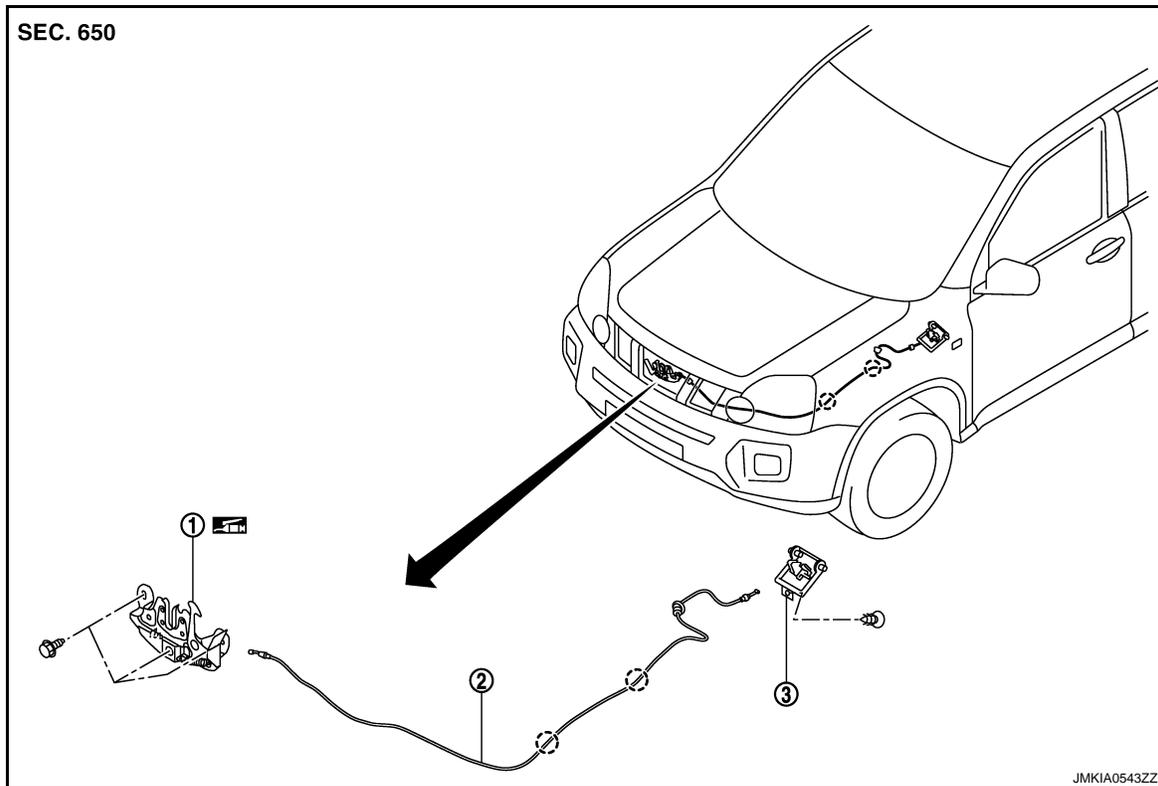
[WITHOUT I-KEY, WITH SUPER LOCK]

Install in the reverse order of removal.

HOOD LOCK CONTROL

HOOD LOCK CONTROL : Exploded View

INFOID:000000001451872



1. Hood lock assembly

2. Hood lock control cable

3. Hood lock opener

○ :Clip

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD LOCK CONTROL : Removal and Installation

INFOID:000000001451873

REMOVAL

1. Remove the hood lock opener mounting bolts, and then remove the hood lock opener.
2. Remove the front grille. Refer to [EXT-18. "Removal and Installation"](#).
3. Remove the fender protector. Refer to [EXT-21. "Removal and Installation"](#).
4. Remove the hood lock mounting bolts, and then remove the hood lock.
5. Disconnect the hood lock cable from hood lock, and clip it from the hoodledge.
6. Remove the grommet on the dash lower panel, and pull the hood lock control cable toward the passenger compartment.

CAUTION:

While pulling, do not to damage (peeling) the outside of the hood lock control cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

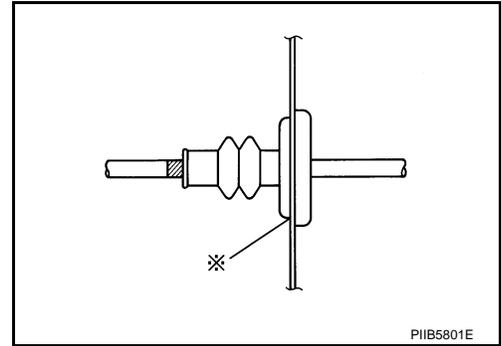
- Do not to bend the cable too much, keeping the radius 100 mm (3.94 in) or more.

HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

- Check that the cable is not offset from the positioning grommet, and apply the sealant to the grommet (at *mark) properly.



- Check that the hood lock control cable is properly engaged with the hood lock.
- After installation, perform hood fitting adjustment. Refer to [DLK-881, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform the hood lock control inspection. Refer to [DLK-885, "HOOD LOCK CONTROL : Inspection"](#).

HOOD LOCK CONTROL : Inspection

INFOID:000000001451874

NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Check that the secondary latch is properly engaged with the secondary striker [6.8 mm (0.268 in) shown in the figure] by hood weight.
2. While operating the hood opener, carefully check that the front end of the hood is raised by approximately 20.0 mm (0.787 in). Also check that the hood opener returns to the original position.
3. Check that the hood opener operating is condition 49 N (5.0 kg) or below.
4. Install so that static closing face of hood is 94 – 490 N·m (9.6 – 50.0 kg·m).

NOTE:

- Exert vertical force on right side and left side of hood lock.
 - Do not press simultaneously both sides.
5. Check the hood lock lubrication condition. If necessary, apply body grease to the hood lock.

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RADIATOR CORE SUPPORT

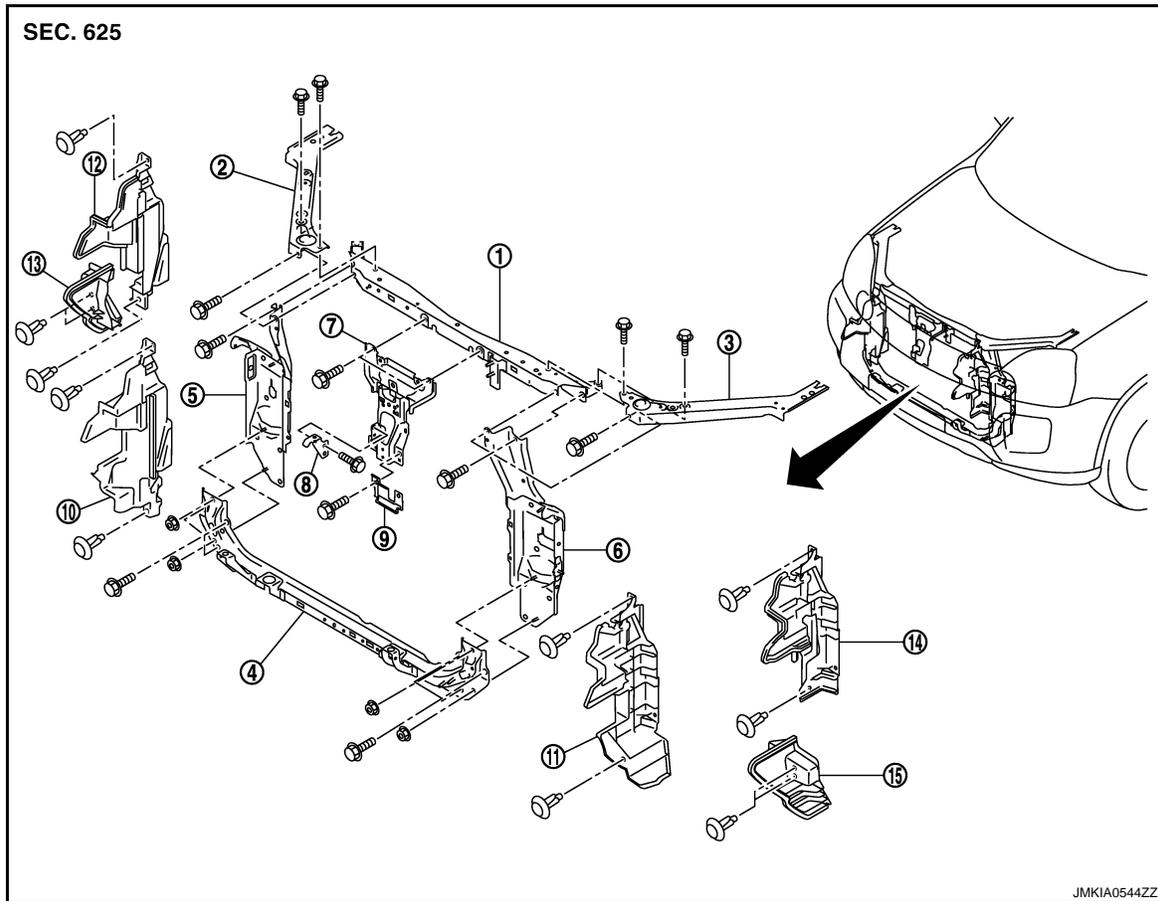
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

RADIATOR CORE SUPPORT

Exploded View

INFOID:000000001451875



- | | | |
|---------------------------------------|---------------------------------------|------------------------------------|
| 1. Radiator core support upper center | 2. Radiator core support upper RH | 3. Radiator core support upper LH |
| 4. Radiator core support lower | 5. Radiator core support side RH | 6. Radiator core support side LH |
| 7. Hood lock support stay assembly | 8. Front bumper fascia center bracket | 9. Sensor bracket |
| 10. Air guide RH | 11. Air guide LH | 12. Air guide upper RH (M9R model) |
| 13. Air guide lower RH (M9R model) | 14. Air guide upper LH (M9R model) | 15. Air guide lower LH (M9R model) |

Removal and Installation

INFOID:000000001451876

REMOVAL

1. Remove the front bumper fascia and the energy absorber. Refer to [EXT-13, "Removal and Installation"](#).
2. Remove the bumper reinforcement. Refer to [EXT-13, "Removal and Installation"](#).
3. Disconnect the liquid tank connector. Refer to [HA-66, "Exploded View"](#).
4. Remove the front combination lamp. Refer to [EXL-213, "Removal and Installation"](#) (XENON TYPE), [EXL-409, "Removal and Installation"](#) (HALOGEN TYPE).
5. Remove the washer tank. Refer to [WW-104, "Removal and Installation"](#).
6. Remove the air inlet hose (LH) and air inlet tube (LH). Refer to [EM-266, "Exploded View"](#) (M9R model).
7. Remove the charge air cooler. Refer to [EM-266, "Removal and Installation"](#) (M9R model).
8. Disconnect the hood lock control cable clamp, and then remove the hood lock assembly. Refer to [DLK-884, "HOOD LOCK CONTROL : Removal and Installation"](#).
9. Remove the air guide mounting clips, and remove the air guide (LH/RH).
10. Remove the horn. Refer to [HRN-6, "Removal and Installation"](#).

DLK-886

RADIATOR CORE SUPPORT

[WITHOUT I-KEY, WITH SUPER LOCK]

< ON-VEHICLE REPAIR >

11. Remove the Intelligent Key warning buzzer (with Intelligent Key systems). Refer to [DLK-298, "Removal and Installation"](#).
12. Disconnect the harness clips from the hood lock stay.
13. Remove the hood lock stay mounting bolts, and then remove the hood lock stay.
14. Remove the crush zone sensor. Refer to [SR-15, "Removal and Installation"](#).
15. Place securely the hood support rod inside the engine mounting bracket hole.
16. Remove the radiator core support upper side (RH,LH) mounting bolts, and remove the radiator core support side (RH,LH).
17. Remove the radiator core support upper center mounting bolts, and remove the radiator core support upper center.
18. Disconnect the harness clamp from radiator core support side (LH).
19. Remove the radiator core support lower assembly mounting bolts.
20. Remove the radiator core support lower assembly while other worker is holding the radiator and condenser assembly to prevent the radiator and condenser from falling.

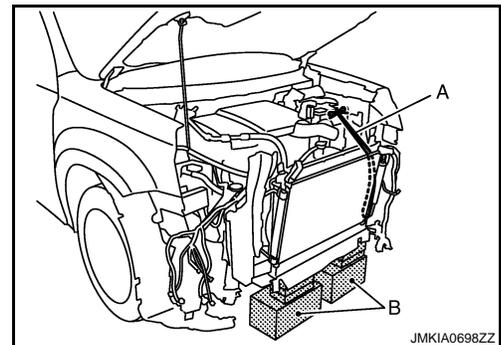
CAUTION:

Operate with two workers, because of its heavy weight.

21. Put some wooden blocks (B) under the radiator and condenser, and use a rope (A) to suspend it to prevent it from falling.

CAUTION:

Operate with two workers, because of its heavy weight.



22. Remove the radiator core support side (RH,LH) mounting nuts, and remove the radiator core support side (RH,LH) from radiator core support lower.

INSTALLATION

Install in the reverse order of removal.

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DLK

FRONT FENDER

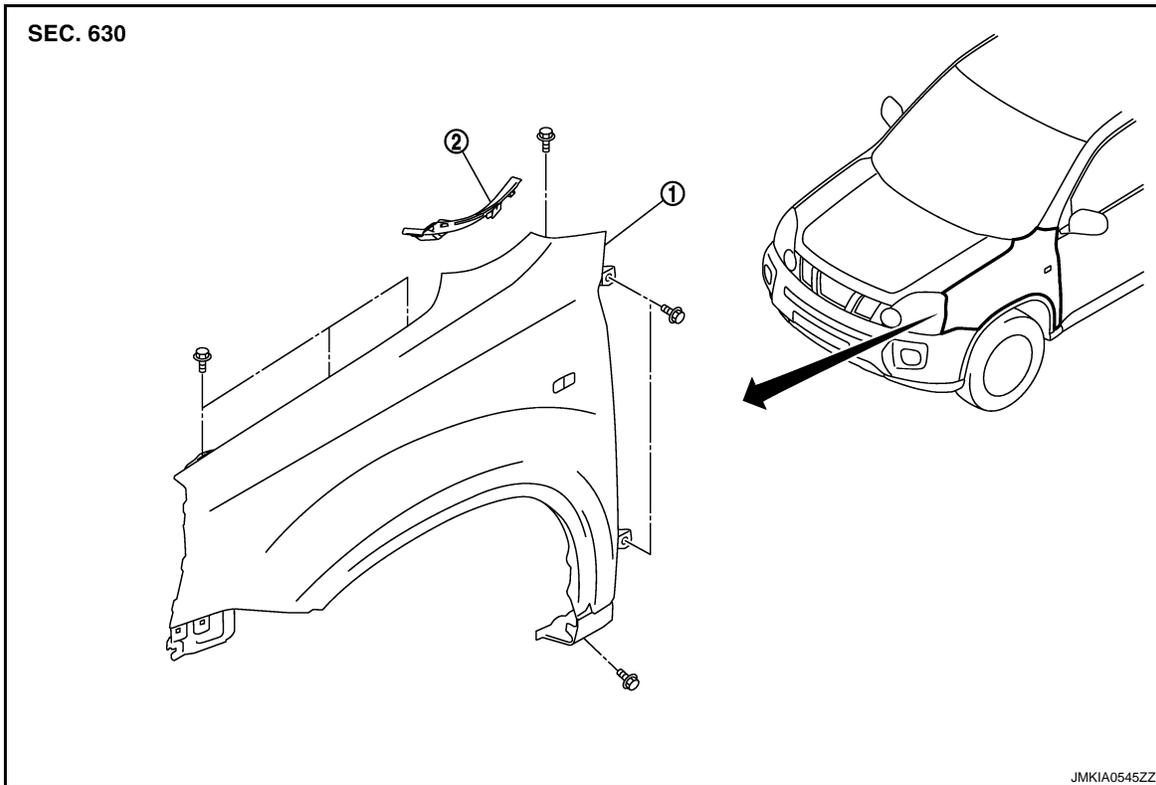
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

FRONT FENDER

Exploded View

INFOID:000000001451877



1. Front fender

2. Front fender finisher

Removal and Installation

INFOID:000000001451878

REMOVAL

1. Remove the fillet molding. Refer to [EXT-24, "Removal and Installation"](#).
2. Remove the front grille. Refer to [EXT-18, "Removal and Installation"](#).
3. Remove the front bumper fascia. Refer to [EXT-13, "Removal and Installation"](#).
4. Remove the front combination lamp. Refer to [EXL-213, "Removal and Installation"](#) (XENON TYPE), [EXL-409, "Removal and Installation"](#) (HALOGEN TYPE).
5. Remove the inner fender protector. Refer to [EXT-21, "Removal and Installation"](#).
6. Remove the front fender finisher.
7. Remove the side turn signal lamp. Refer to [EXL-222, "Removal and Installation"](#).
8. Remove the mounting bolts and remove the front fender.

CAUTION:

Use a shop cloth to protect the body from being damaged during removal.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- After installation, check the front fender adjustment. Refer to [DLK-881, "HOOD ASSEMBLY : Adjustment"](#) and [DLK-891, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply the touch-up paint (the body color) onto the head of the front fender mounting bolts.

FRONT DOOR

< ON-VEHICLE REPAIR >

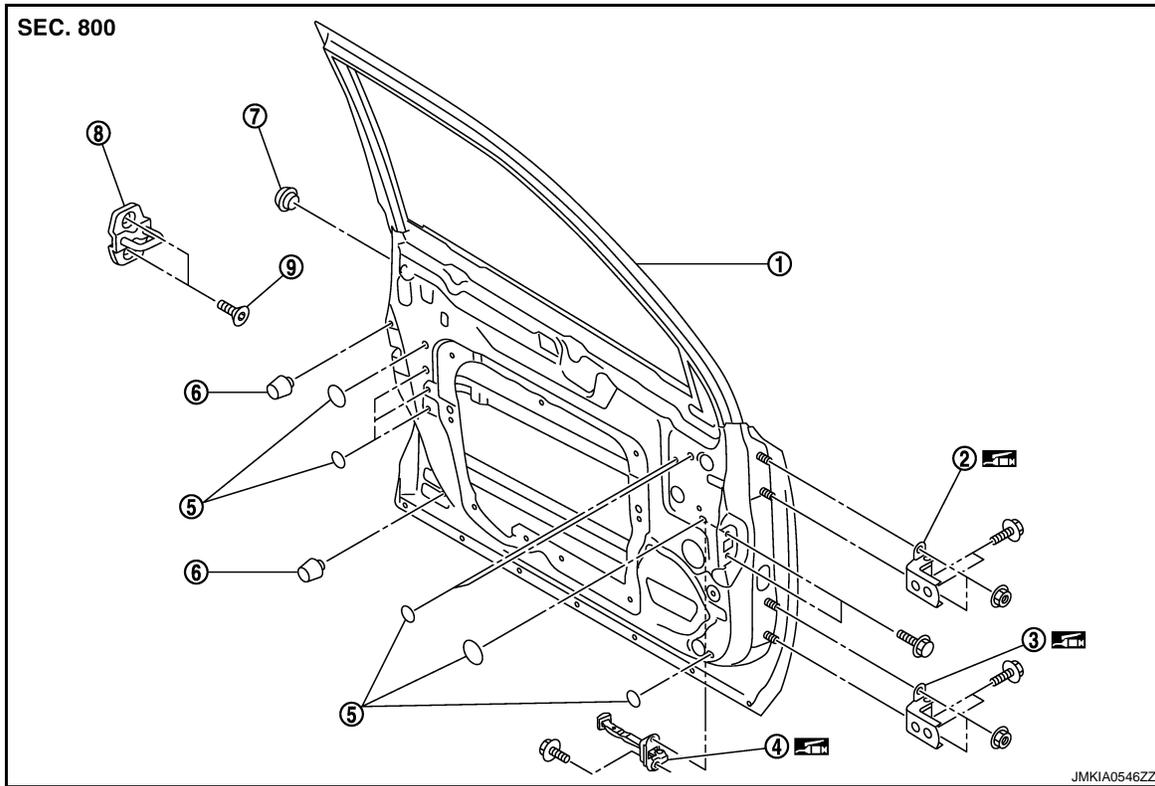
[WITHOUT I-KEY, WITH SUPER LOCK]

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001451879

REMOVAL



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

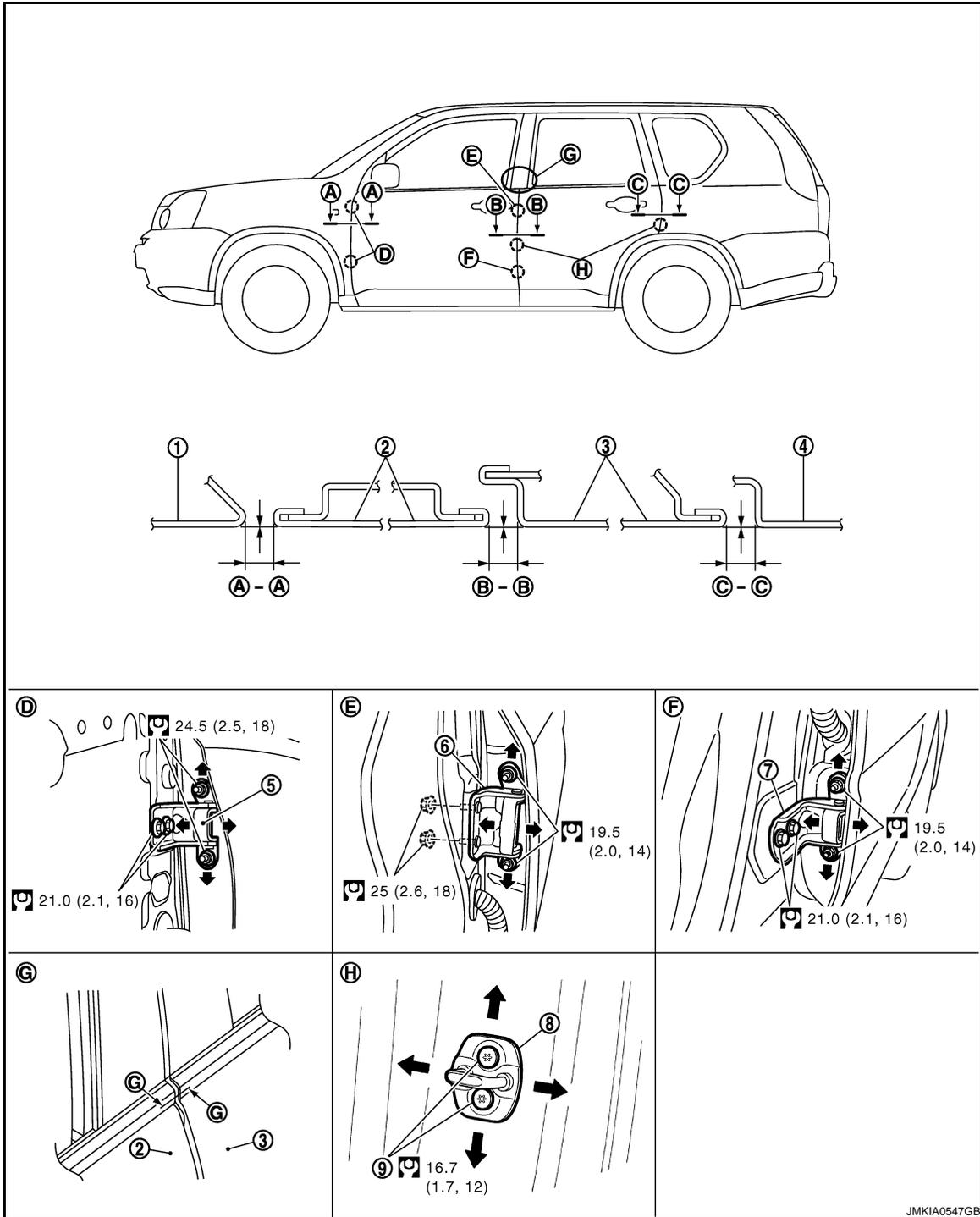
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DLK

FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]



- | | | |
|----------------------------|---------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Front door hinge | 6. Rear door hinge (upper) |
| 7. Rear door hinge (lower) | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001451880

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.

FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

REMOVAL

1. Remove the mounting bolts of the door check link on the vehicle.
2. Remove the front door harness grommet, and then pull out the harness from the vehicle.
3. Disconnect the front door harness connector.
4. Remove the door hinge mounting nuts (door side), and then remove the door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the front door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-891, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.

DOOR ASSEMBLY : Adjustment

INFOID:000000001451881

CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

mm(in)

Portion		Clearance	Surface height
Front fender – Front door	A – A	3.4 – 5.4 (0.134 – 0.213)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	B – B	3.5 – 5.5 (0.138 – 0.217)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	G – G	3.0 – 6.0 (0.118 – 0.236)	- 1.0 – 1.0 (- 0.039 – 0.039)

1. Check the clearance and surface height and surface mismatch between the front door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the front fender. Refer to refer to [DLK-888, "Removal and Installation"](#).
4. Loosen the door hinge mounting nuts on door side.
5. Adjust the surface height and surface mismatch of the front door according to the fitting standard dimension.
6. Temporarily tighten the hinge mounting nuts on door side.
7. Loosen the door hinge mounting bolts on body side.
8. Raise the front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
9. After adjustment tighten bolts and nuts to the specified torque.
10. Install the front fender. Refer to refer to [DLK-888, "Removal and Installation"](#).

CAUTION:

After installation, check the front fender adjustment. Refer to [DLK-891, "DOOR ASSEMBLY : Adjustment"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.

DOOR STRIKER

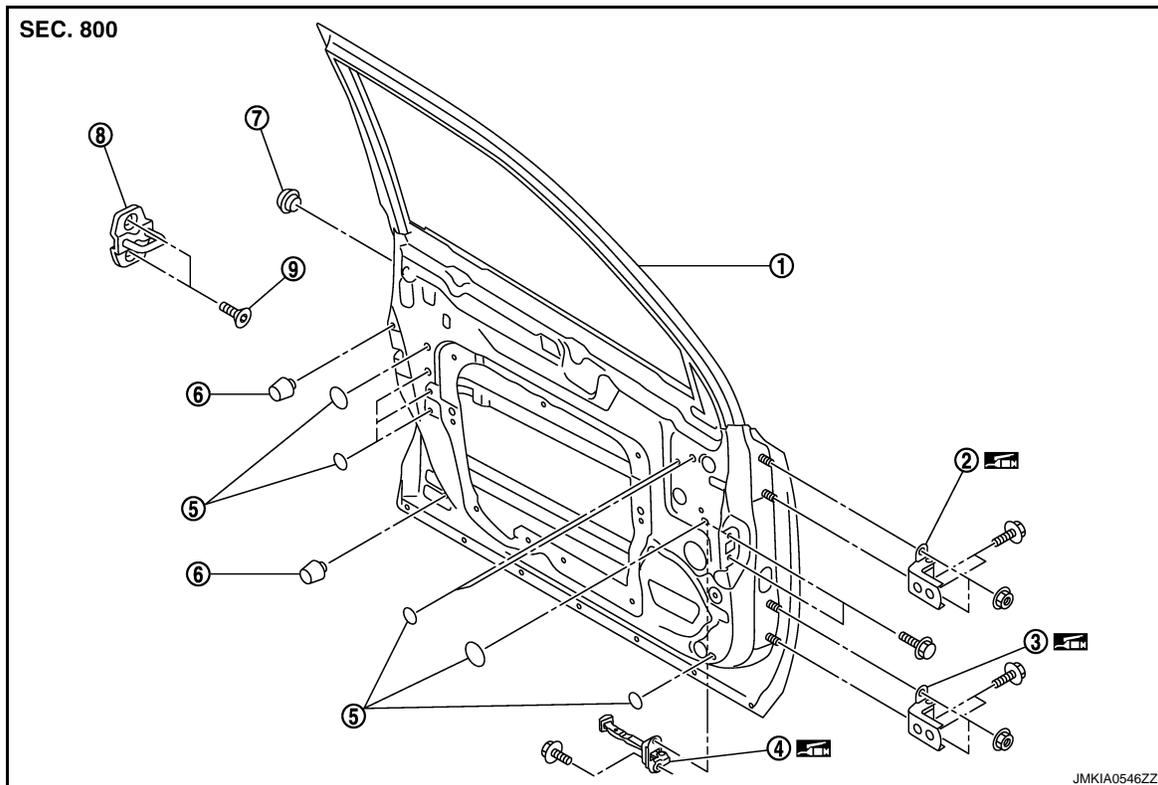
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001451882



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001451883

REMOVAL

Remove the TORX bolts, and then remove the door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the front door open/close operation after installation.
- When removing and installing the door striker, be sure to perform the fitting adjustment. Refer to [DLK-891, "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

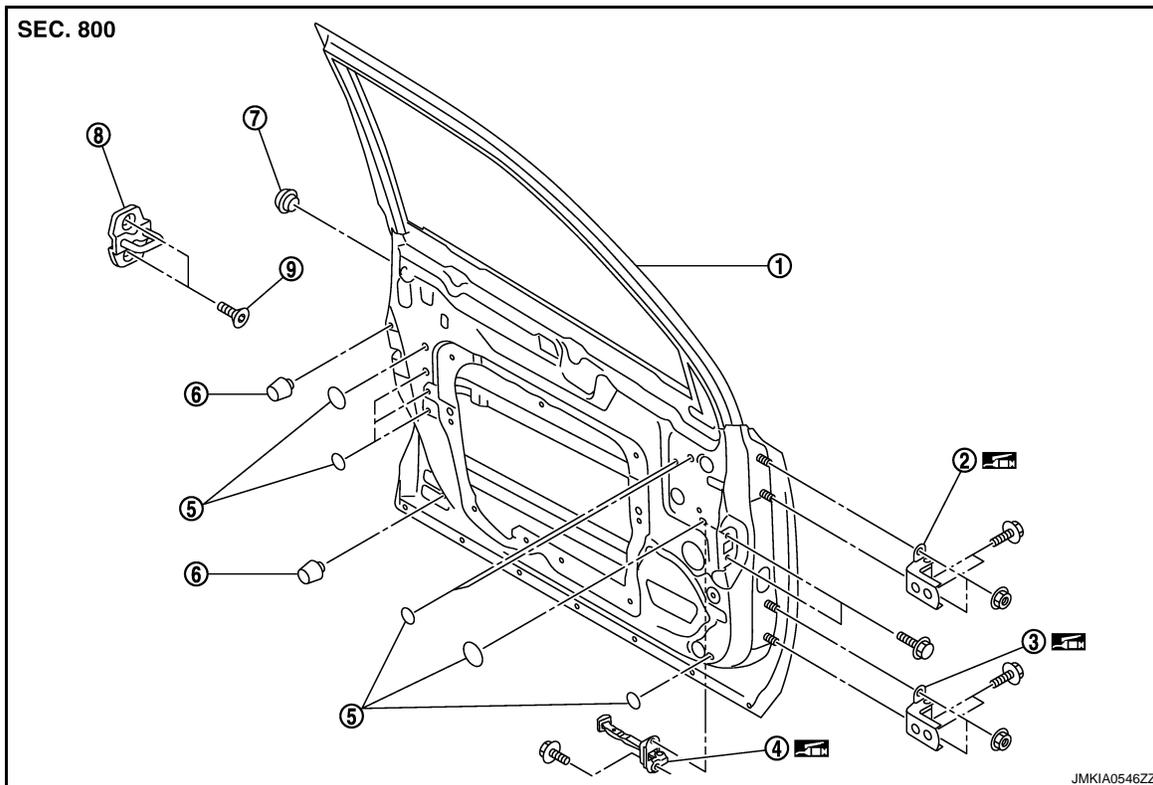
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001451885



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001451886

DLK

REMOVAL

1. Remove the front door assembly. Refer to [DLK-890, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove the door hinge mounting bolts, and then remove the front door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the front door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-891, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.

DOOR CHECK LINK

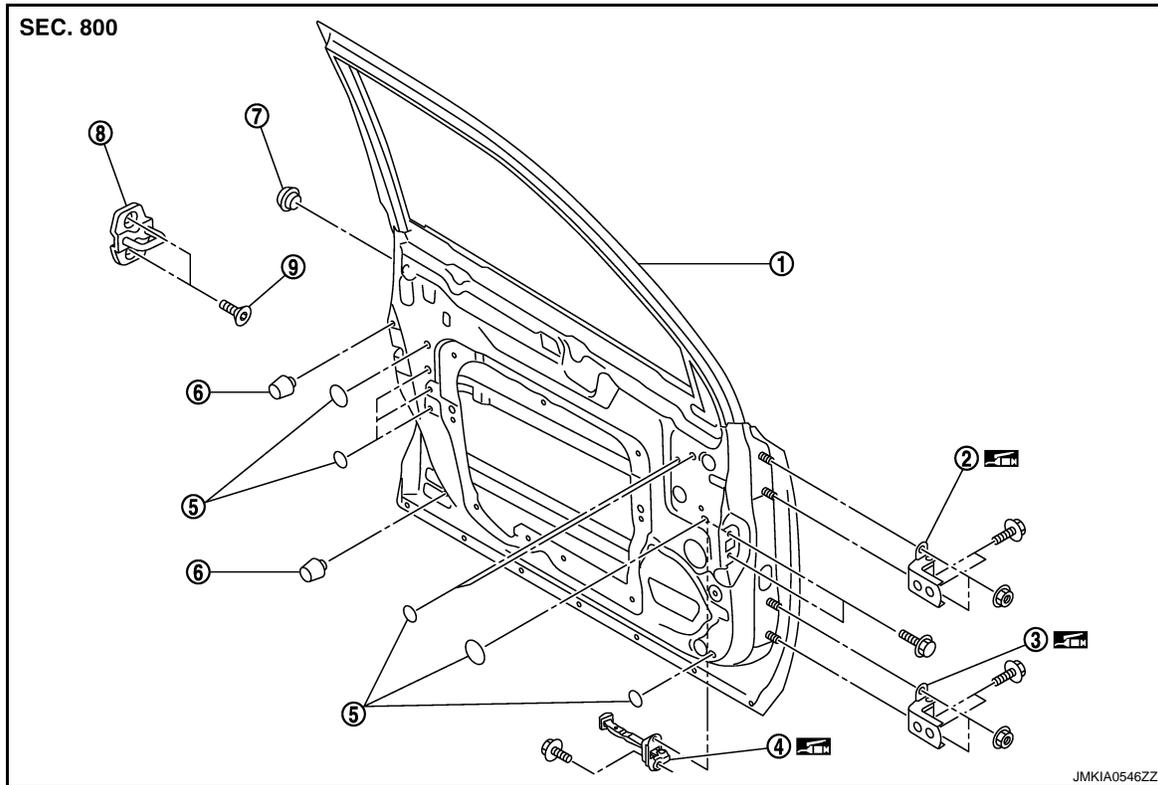
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001451888



- | | | |
|---------------------|-----------------------|-----------------------|
| 1. Front door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Door bumper rubber |
| 7. Grommet | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001451889

REMOVAL

1. Fully close the front door window.
2. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
3. Remove the front door speaker. Refer to [AV-38, "Removal and Installation"](#).
4. Remove the mounting bolts of the door check link on the vehicle.
5. Remove the mounting bolts of the door check link on the door panel.
6. Take the door check link out from the hole of the door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the front door open/close operation after installation.

REAR DOOR

< ON-VEHICLE REPAIR >

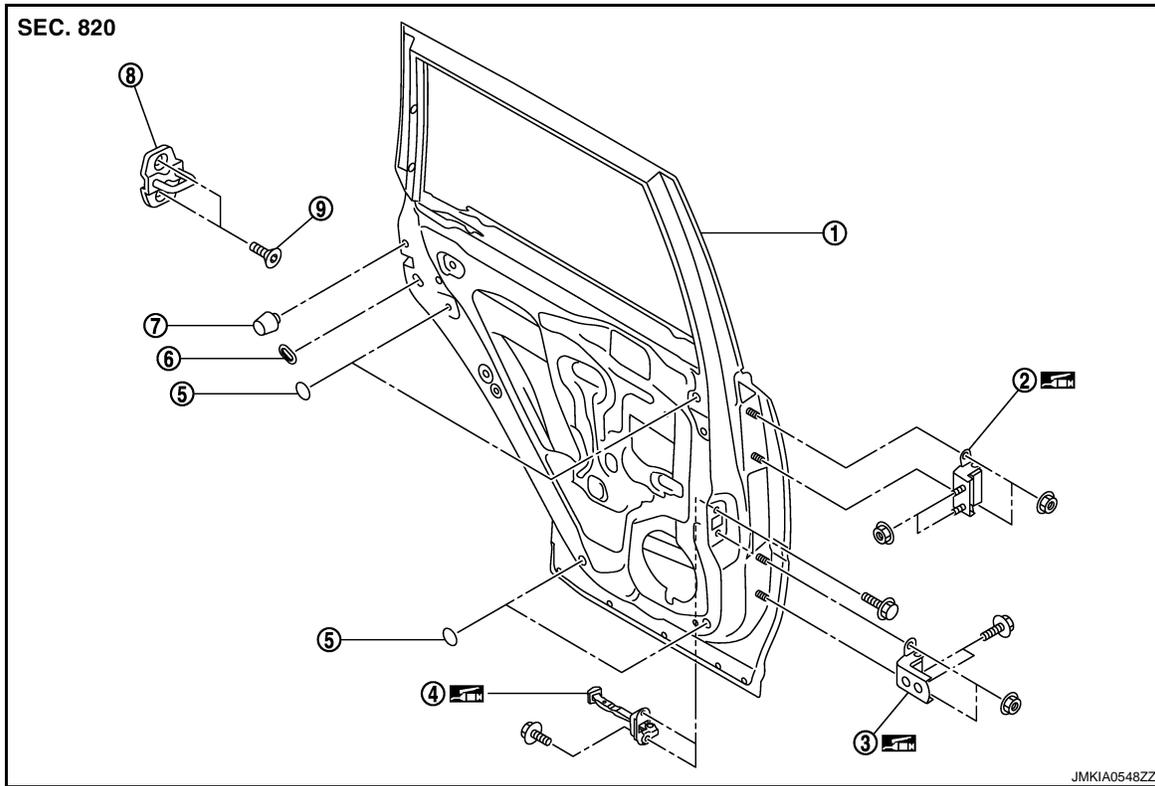
[WITHOUT I-KEY, WITH SUPER LOCK]

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001451890

REMOVAL



- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [Gl-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

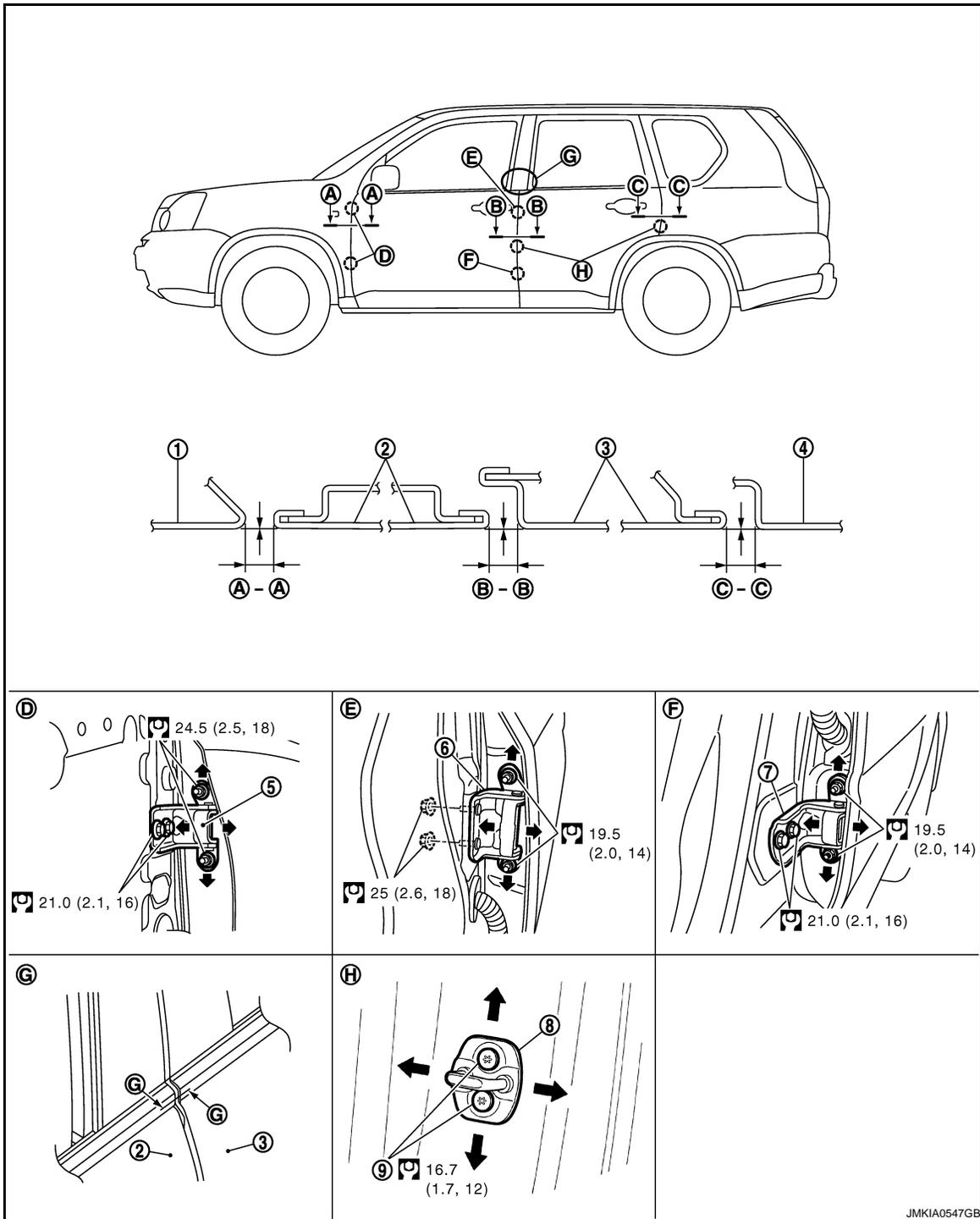
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DLK

REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]



- | | | |
|----------------------------|---------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Front door hinge | 6. Rear door hinge (upper) |
| 7. Rear door hinge (lower) | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001451891

CAUTION:

- Perform work with 2 workers, because of it's heavy weight.
- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.

REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

REMOVAL

1. Remove the mounting bolts of the door check link on the vehicle.
2. Remove the rear door harness grommet, and then pull out the door harness from the vehicle.
3. Disconnect the rear door harness connector.
4. Remove the door hinge mounting nuts (door side), and then remove the rear door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the rear door lock/unlock operation after installation.
- Check the rear door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to [DLK-897, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.

DOOR ASSEMBLY : Adjustment

INFOID:000000001451892

CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

Portion		Clearance	Surface height
Front door – Rear door	B – B	3.5 – 5.5 (0.138 – 0.217)	-1.0 – 1.0 (-0.039 – 0.039)
Rear door – Body side outer	C – C	3.5 – 5.5 (0.138 – 0.217)	-1.0 – 1.0 (-0.039 – 0.039)
Front door – Rear door	G – G	3.0 – 6.0 (0.118 – 0.236)	-1.5 – 1.5 (-0.059 – 0.059)

1. Check the clearance and surface height and surface mismatch between the rear door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the center pillar lower garnish. Refer to [INT-16, "Removal and Installation"](#).
4. Loosen the door hinge mounting nuts on door side.
5. Adjust the surface height and surface mismatch of the rear door according to the fitting standard dimension.
6. Temporarily tighten the hinge mounting nuts on door side.
7. Loosen the door hinge mounting nuts and bolts on body side.
8. Raise the rear door at rear end to adjust clearance of the rear door according to the fitting standard dimension.
9. After adjustment tighten bolts and nuts to the specified torque.
10. Install the center pillar lower garnish. Refer to [INT-16, "Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.

DOOR STRIKER

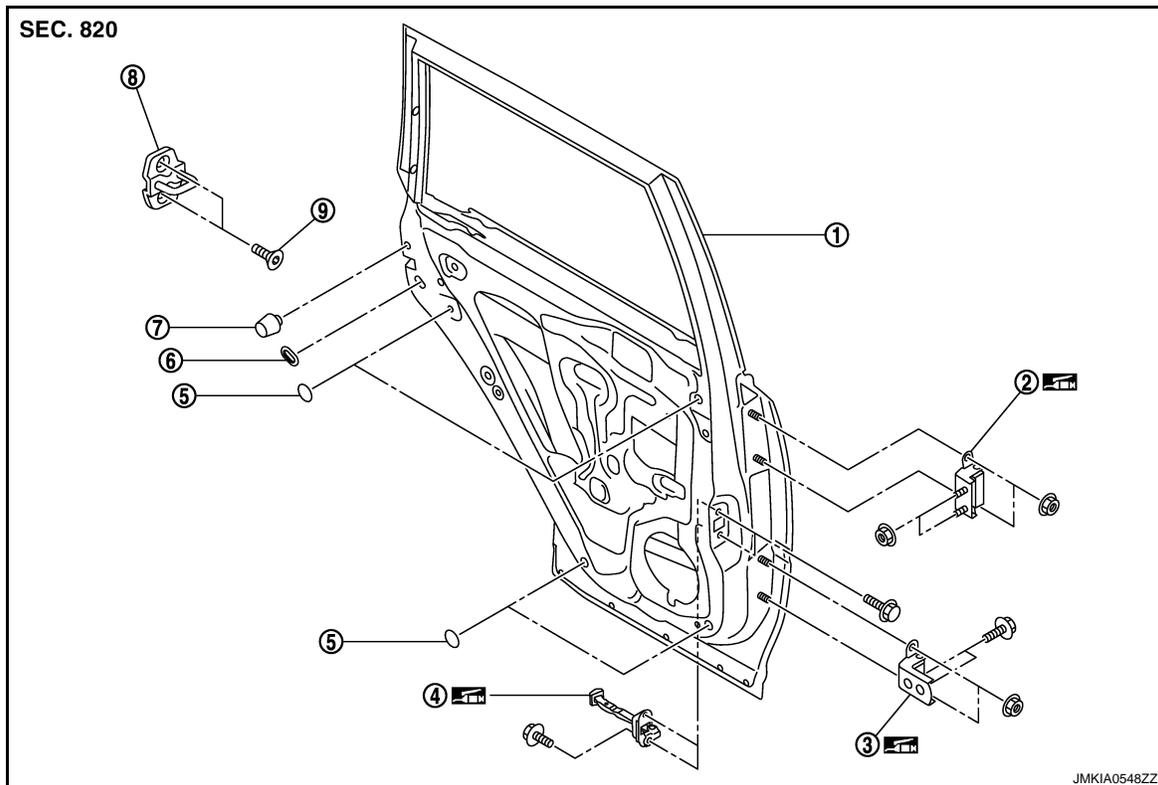
REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001451893



- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001451894

REMOVAL

Remove the TORX bolts, and then remove the door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the rear door open/close operation after installation.
- When removing and installing the door striker, be sure to perform the fitting adjustment. Refer to [DLK-897. "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

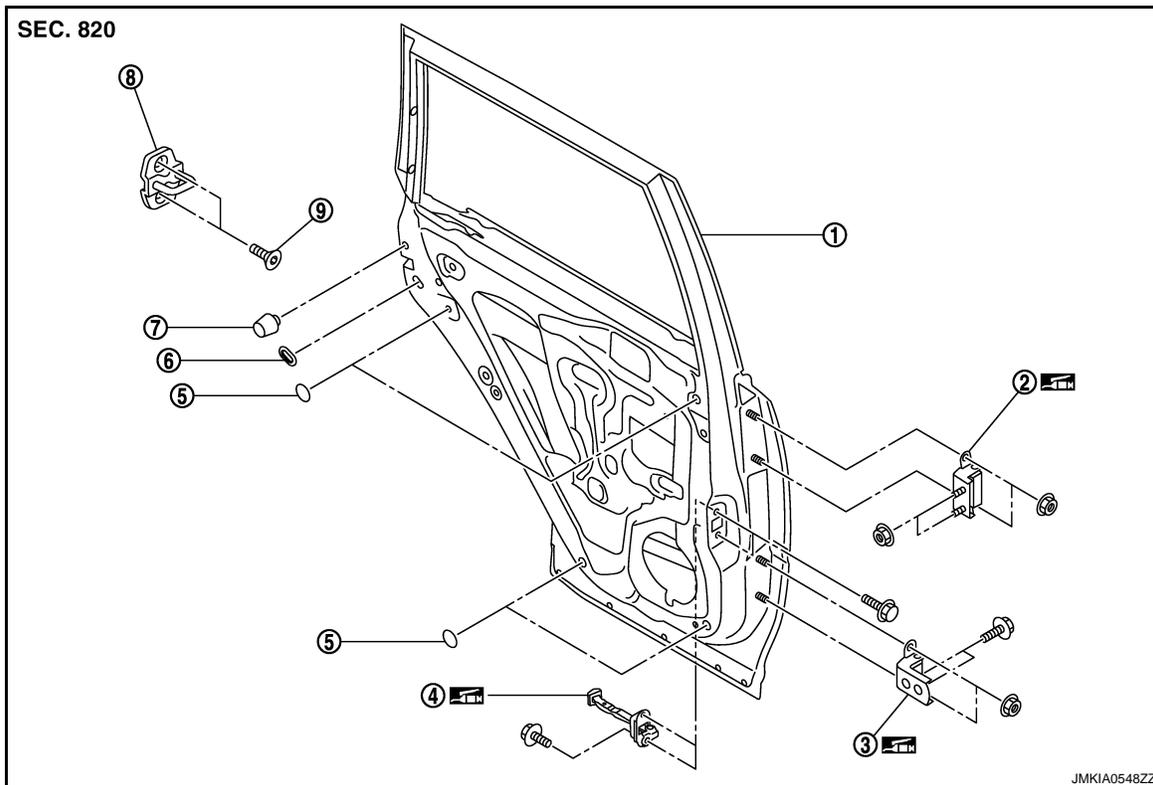
REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001451896



- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001451897

REMOVAL

1. Remove the center pillar lower garnish. Refer to [INT-16. "Removal and Installation"](#).
2. Remove the rear door assembly. Refer to [DLK-896. "DOOR ASSEMBLY : Removal and Installation"](#).
3. Remove the rear door hinge mounting bolts and nuts (body side), and then remove the door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the rear door open/close operation after installation.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the rear door assembly, perform the fitting adjustment. Refer to [DLK-897. "DOOR ASSEMBLY : Adjustment"](#).
- After installing, apply the touch-up paint (the body color) onto the head of the hinge mounting nuts.

DOOR CHECK LINK

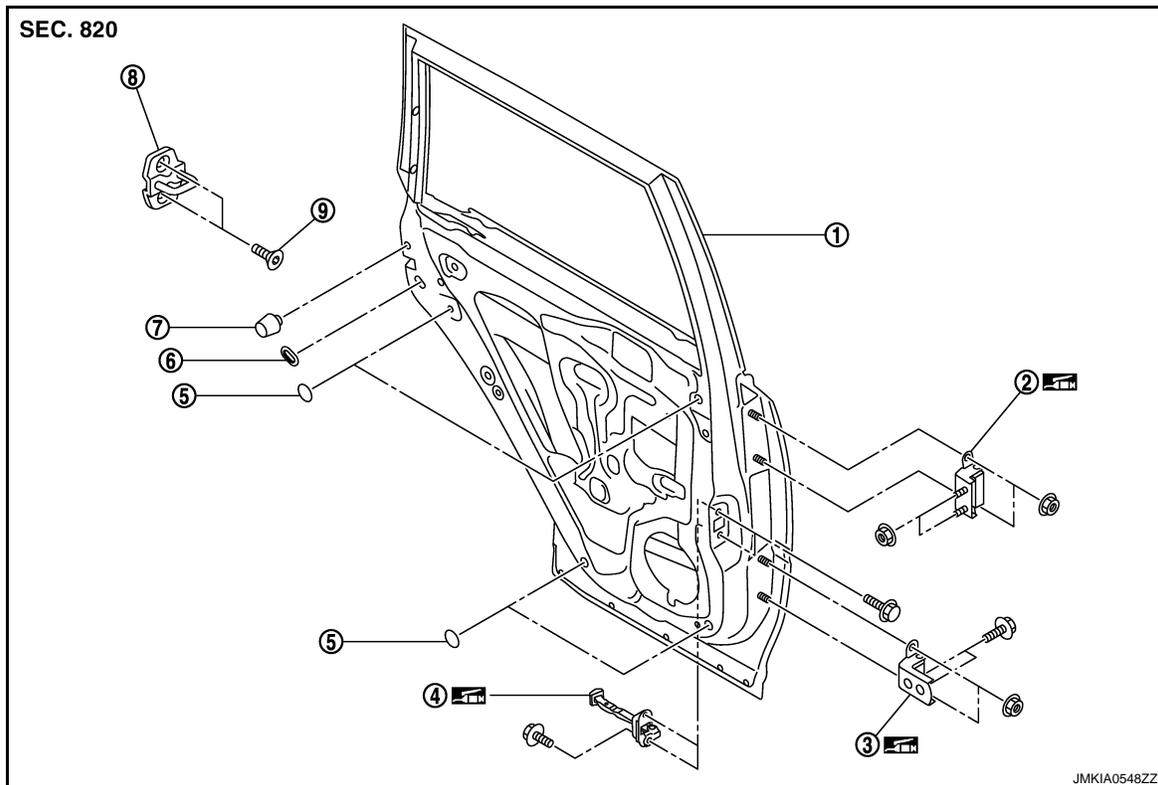
REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001451899



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|-----------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Door check link | 5. Seal | 6. Hole cover |
| 7. Door bumper rubber | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001451900

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove the rear door speaker.
3. Remove the mounting bolts of the check link on the vehicle.
4. Remove the door check link mounting bolts on the door panel.
5. Remove the door check link.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check front door open/close operation after installation.

BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

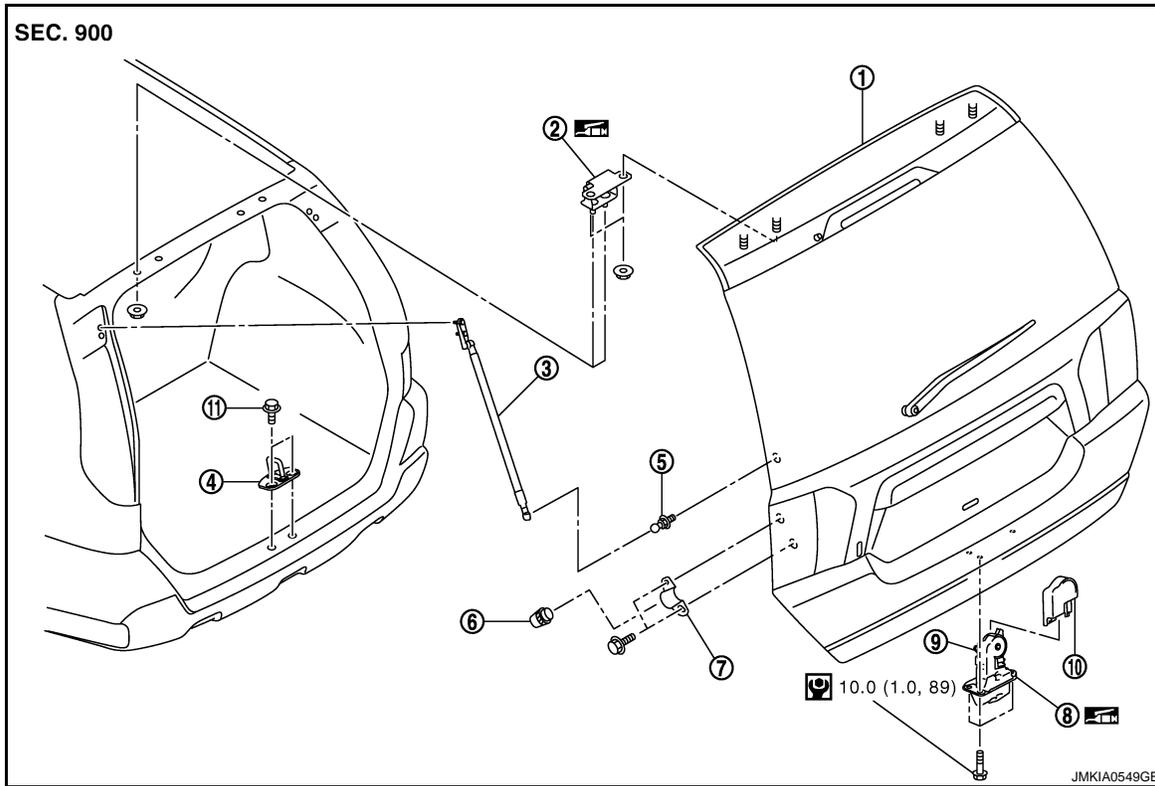
BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:000000001451901

REMOVAL



- | | | |
|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

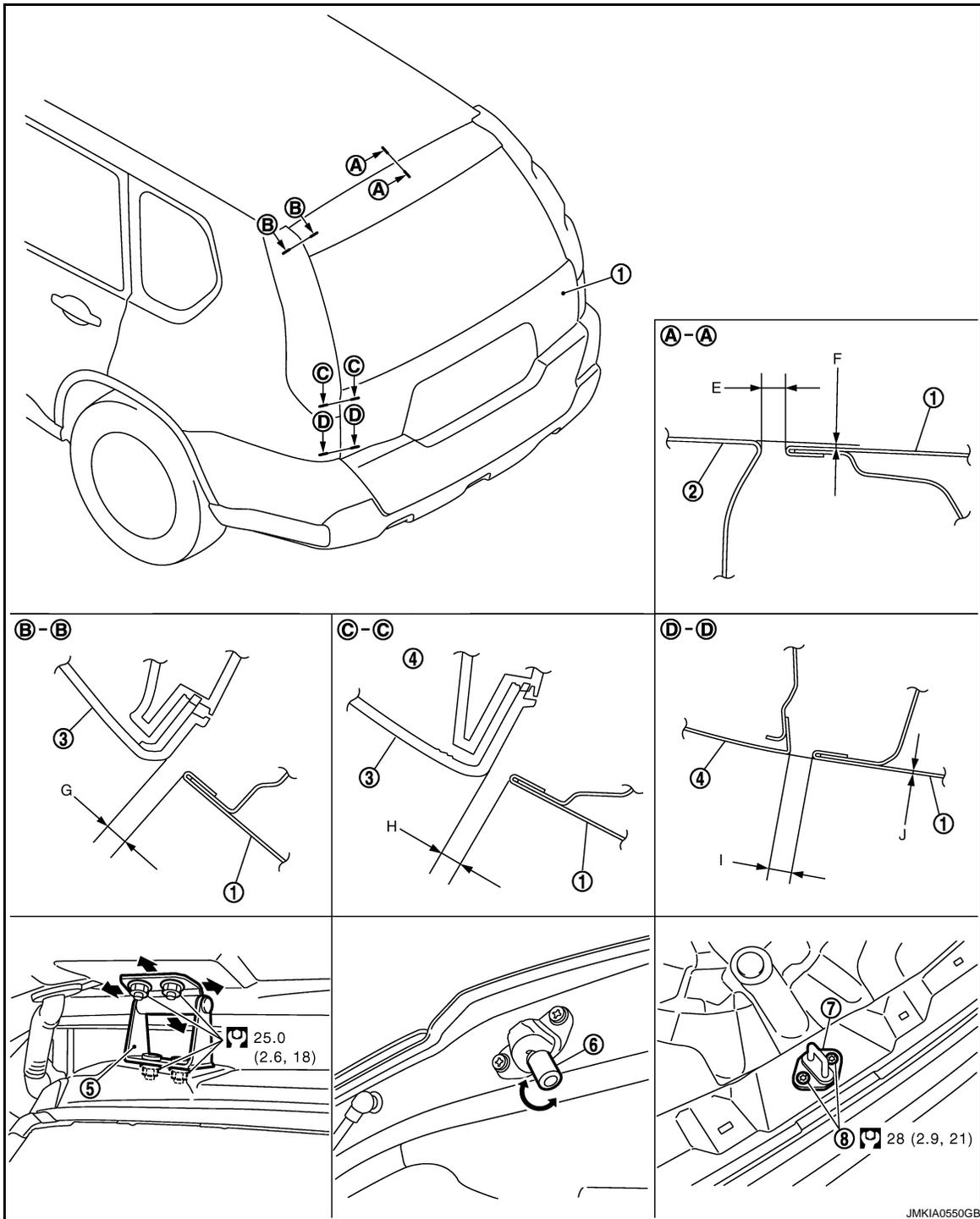
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BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]



- | | | |
|----------------------|--------------------|--------------------------|
| 1. Back door | 2. Roof | 3. Rear combination lamp |
| 4. Body side outer | 5. Back door hinge | 6. Bumper rubber |
| 7. Back door striker | 8. TORX bolt | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000001451902

REMOVAL

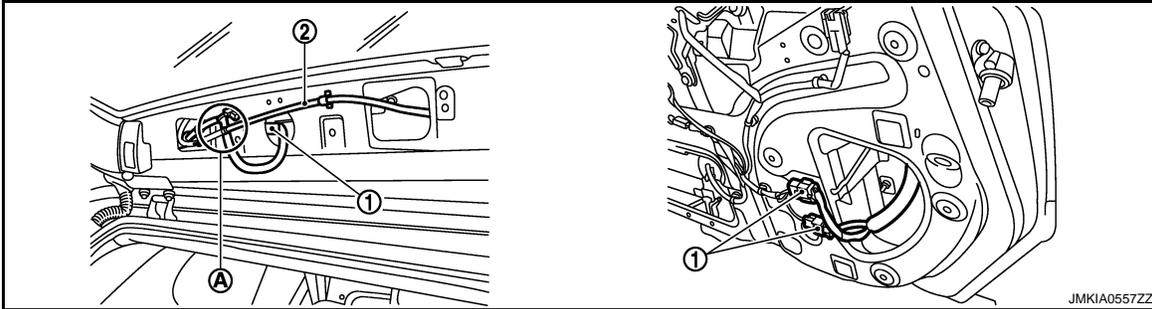
1. Remove the back door finisher inner (upper, lower, side LH). Refer to [INT-31, "Removal and Installation"](#).
2. Disconnect the connectors in the back door, and then remove the grommet, and pull out the harness.

BACK DOOR

< ON-VEHICLE REPAIR >

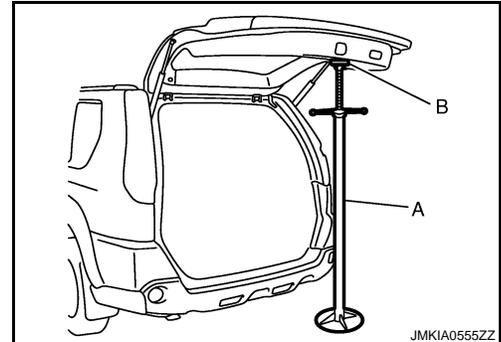
[WITHOUT I-KEY, WITH SUPER LOCK]

- Remove the grommet, and then disconnect the connectors (1), and pull out the washer tube (2) at (A).



- Pull the harness out of the back door.
- Support the back door lock with the proper material to prevent it from falling.

- A : Jack
- B : Shop cloth



- Remove the back door stay bracket mounting bolts on the back door.
- Remove the back door hinge mounting nuts on the back door and remove the back door assembly.

CAUTION:

Perform work with 2 workers, because of its heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the back door open/close operation after installation.
- Check the back door lock/unlock operation after installation.
- After installation, perform fitting adjustment. Refer to [DLK-903, "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR ASSEMBLY : Adjustment

INFOID:000000001451903

				mm(in)
Portion				Standard
Back door panel – Roof panel	A – A	E	Clearance	5.0 – 7.0 (0.197 – 0.276)
		F	Surface height	-0.3 – 1.7 (-0.012 – 0.067)
Back door panel – Rear combination lamp	B – B	G	Clearance	4.0 – 8.0 (0.157 – 0.315)
Back door panel – Rear combination lamp	C – C	H	Clearance	4.0 – 8.0 (0.157 – 0.315)
Back door panel – Body side outer	D – D	I	Clearance	5.0 – 7.0 (0.197 – 0.276)
		J	Surface height	-1.0 – 1.1 (0.039 – 0.043)

FITTING ADJUSTMENT

- Check the clearance and the evenness between the back door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
- In case any parts are out of specification, adjust them according to the procedures shown below.
- Loosen the bumper rubber.
- Loosen the back door striker mounting bolts.

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DLK

BACK DOOR

< ON-VEHICLE REPAIR >

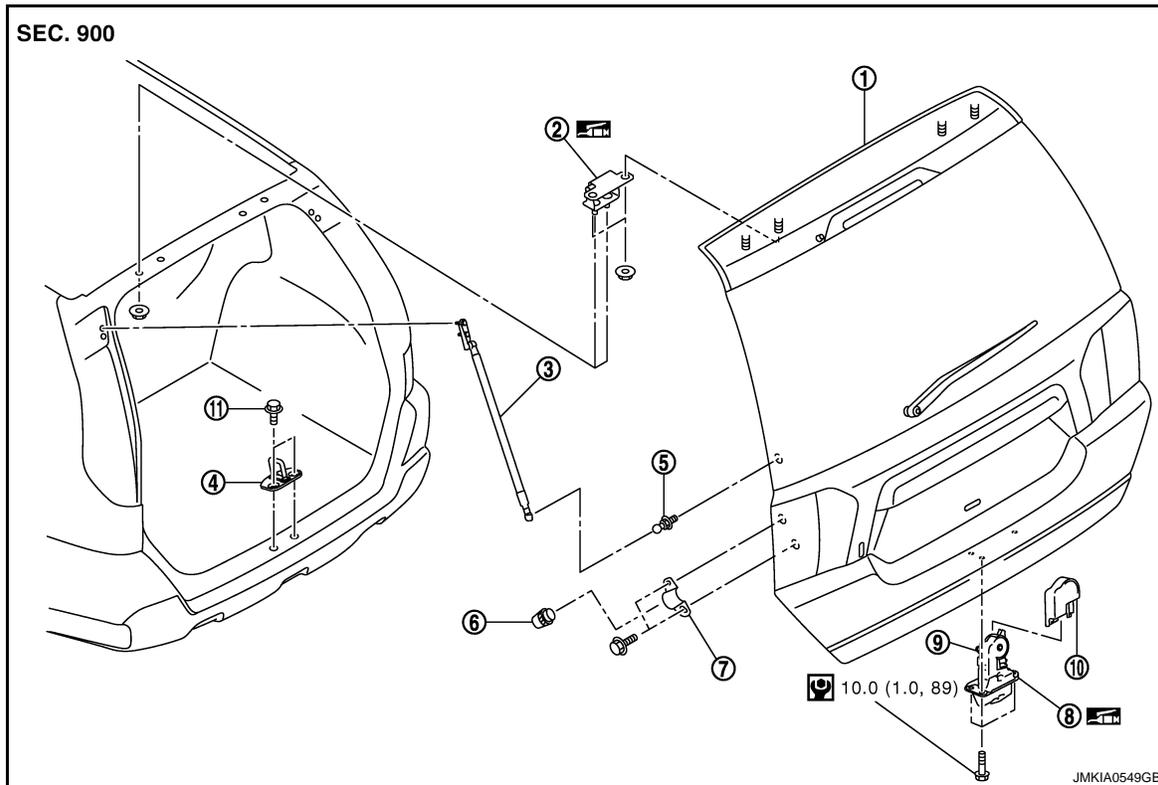
[WITHOUT I-KEY, WITH SUPER LOCK]

5. Lift up the back door approximately 100 – 150 mm (3.937 – 5.906 in) height then close it lightly and check that it is engaged firmly with the back door closed.
6. Check the clearance and evenness.
7. Finally tighten the back door striker.

BACK DOOR STRIKER

BACK DOOR STRIKER : Exploded View

INFOID:000000001451904



- | | | |
|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STRIKER : Removal and Installation

INFOID:000000001451905

REMOVAL

Remove the TORX bolts, and then remove the back door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the back door open/close operation after installation.
- When removing and installing the back door striker, be sure to perform the fitting adjustment. Refer to [DLK-903. "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR HINGE

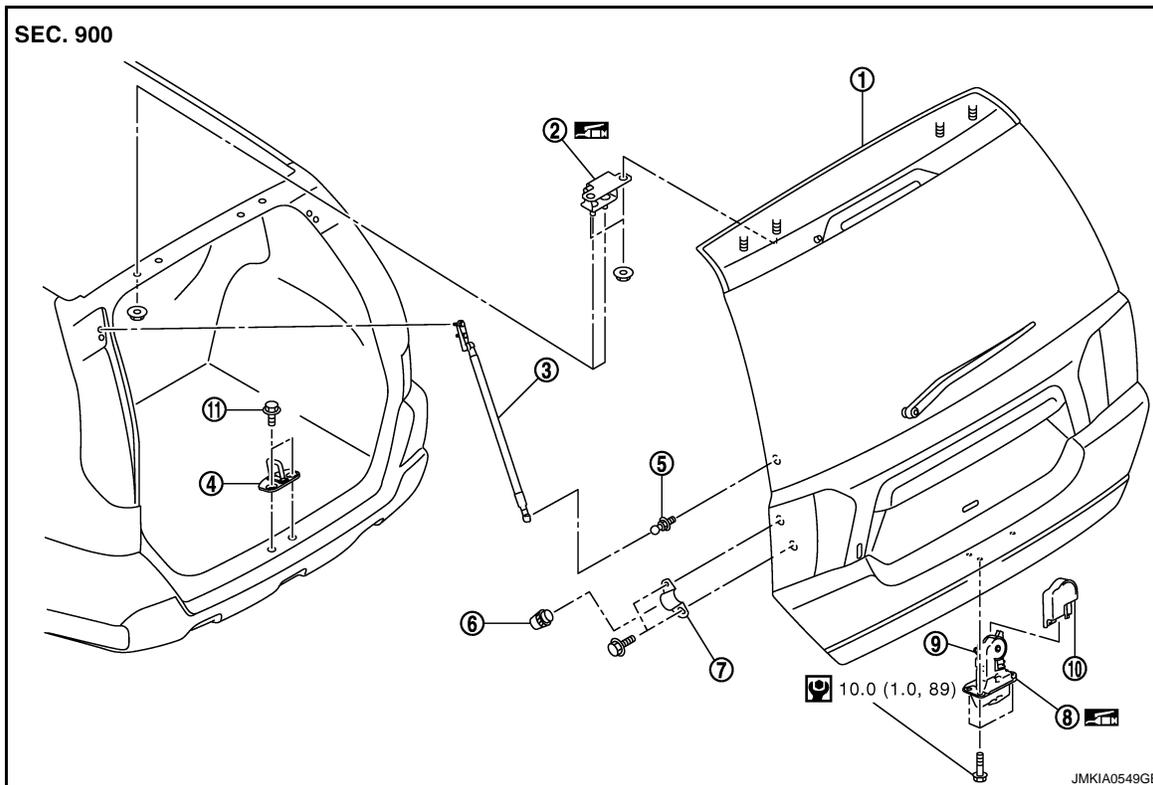
BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR HINGE : Exploded View

INFOID:000000001451907



- | | | |
|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR HINGE : Removal and Installation

INFOID:000000001451908

REMOVAL

1. Remove the back door assembly. Refer to [DLK-902. "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove the back door weather-strip. Refer to [DLK-907. "BACK DOOR WEATHER-STRIP : Removal and Installation"](#).
3. Remove the luggage side lower finisher. Refer to [INT-28. "Removal and Installation"](#).
4. Remove the luggage side upper finisher. Refer to [INT-28. "Removal and Installation"](#).
5. Using remover tool, remove the headlining clip at the rear side of the headlining. Refer to [INT-22. "NORMAL ROOF : Exploded View"](#) (NORMAL ROOF), [INT-25. "SUNROOF : Exploded View"](#) (SUNROOF).
6. Remove the rear side of the headlining.
7. Remove the back door hinge mounting nuts (body side), and then remove the back door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the back door open/close operation after installation.
- Check the hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing the back door assembly, perform the fitting adjustment. Refer to [DLK-903. "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting nuts.

BACK DOOR

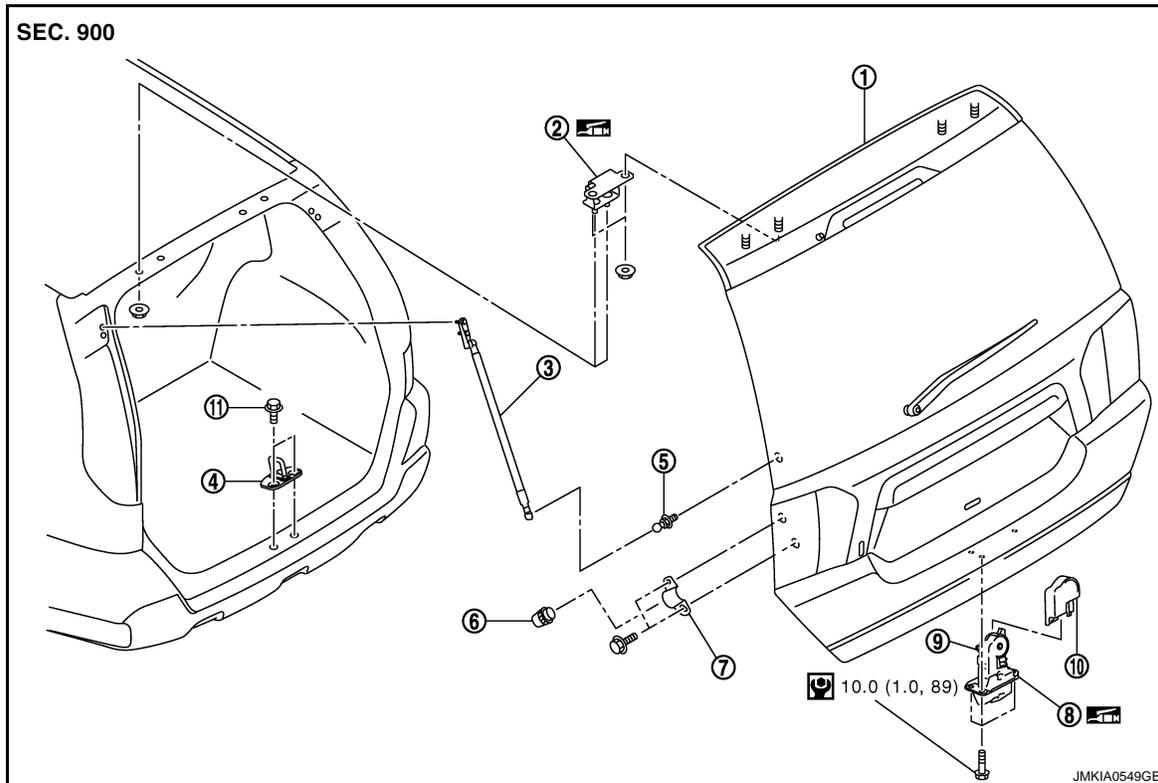
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:000000001451910



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|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STAY : Removal and Installation

INFOID:000000001451911

REMOVAL

1. Remove the mounting bolts (body side), and then remove the back door stay bracket.
2. Remove the stud ball (back door side), and then remove the back door stay.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the back door open/close operation after installation.

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Exploded View

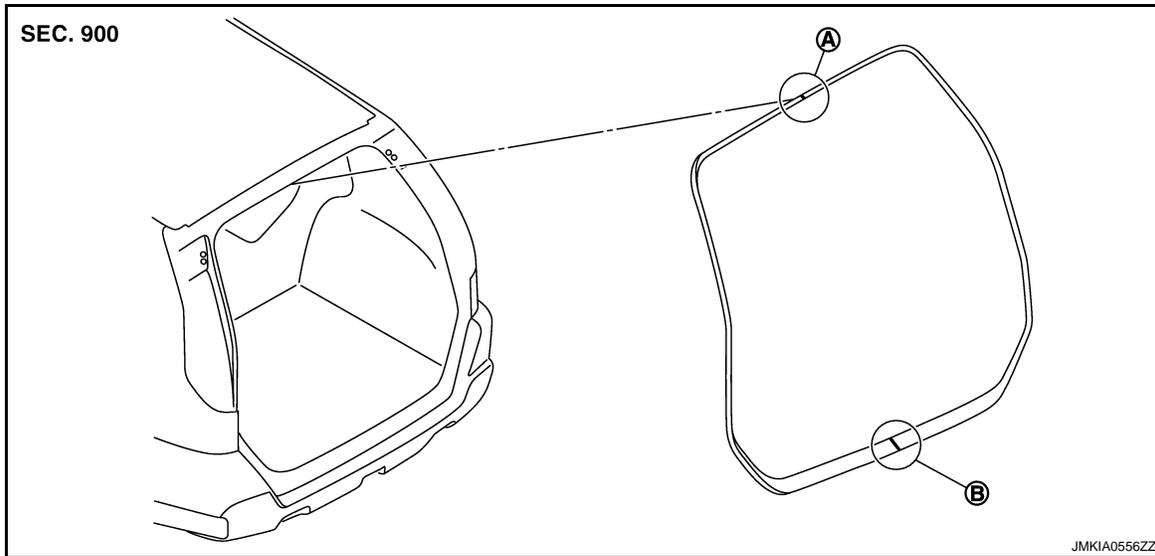
INFOID:000000001451912

REMOVAL

BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]



1. Back door weather-strip
- A. Mark (upper)
- B. Mark (lower)

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000001451913

REMOVAL

Pull up and remove engagement with body from the weather-strip joint.

CAUTION:

After removal, do not pull strongly on the weather-strip.

INSTALLATION

1. Working from the upper section, align the weather-strip mark with vehicle center position mark and install the weather-strip onto the vehicle.
2. For the lower section, align the weather-strip seam with center of the back door striker.
3. After installation, pull the weather-strip gently to ensure that there is no loose section.

NOTE:

Make sure that the weather-strip is fit tightly at each corner and the luggage rear plate.

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DLK

FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

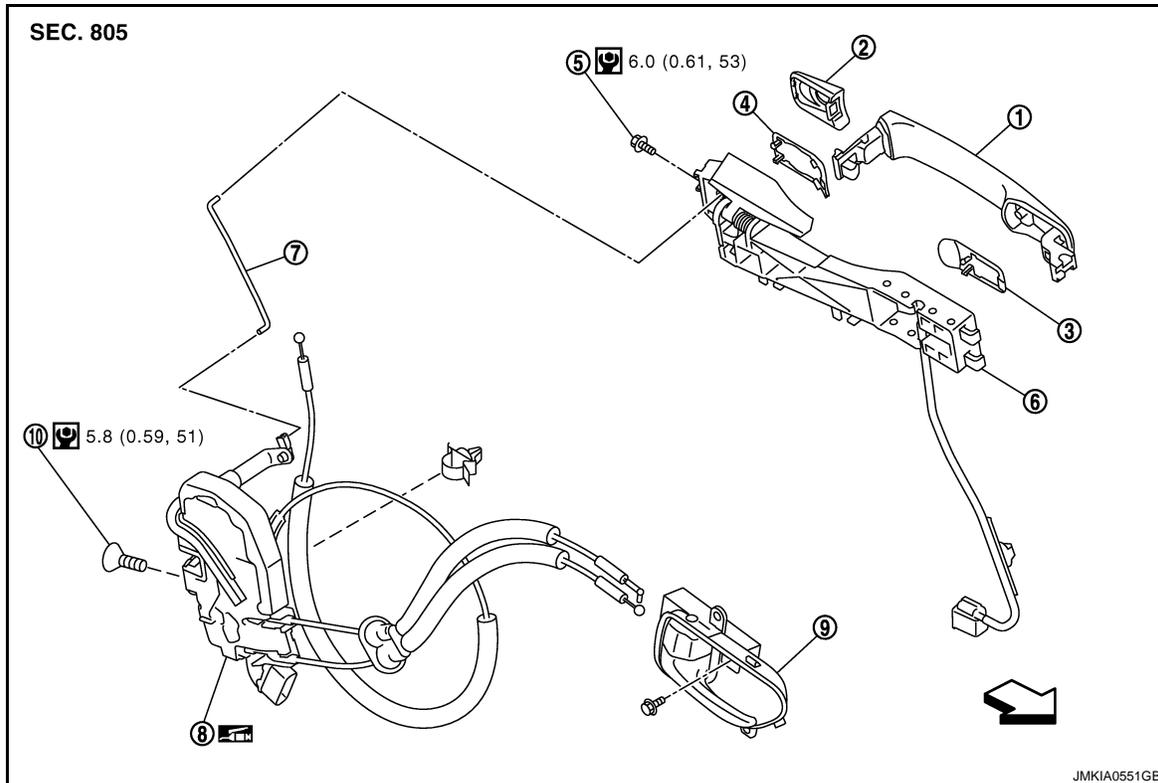
[WITHOUT I-KEY, WITH SUPER LOCK]

FRONT DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001451914



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|----------------------------|---|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder assembly (driver side) | 3. Front gasket |
| 4. Rear gasket | 5. TORX bolt | 6. Outside handle bracket |
| 7. Key rod | 8. Door lock assembly | 9. Inside handle |
| 10. TORX bolt | | |

↔ :Vehicle front

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001451915

REMOVAL

1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable and the lock knob cable.
3. Remove the front door glass. Refer to [GW-17. "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-17. "Exploded View"](#).
5. Disconnect the door antenna and the door request switch connector and remove the harness clamp (models with Intelligent Key system).

FRONT DOOR LOCK

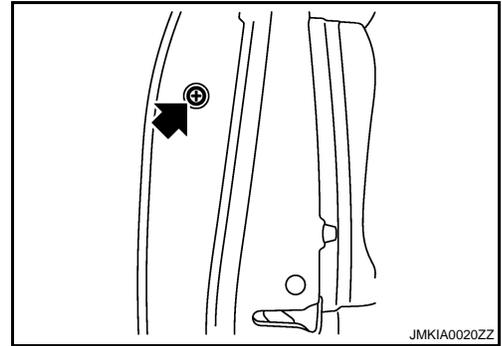
[WITHOUT I-KEY, WITH SUPER LOCK]

< ON-VEHICLE REPAIR >

6. Remove the door side grommet, and loosen the TORX bolt.

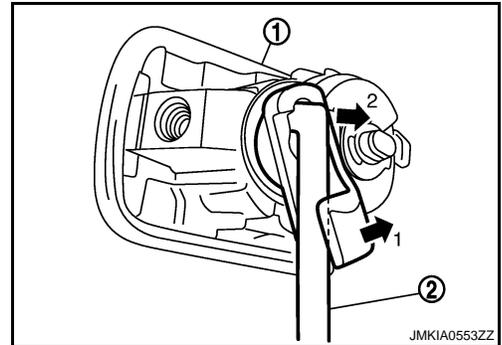
CAUTION:

Do not forcibly remove the TORX bolt.

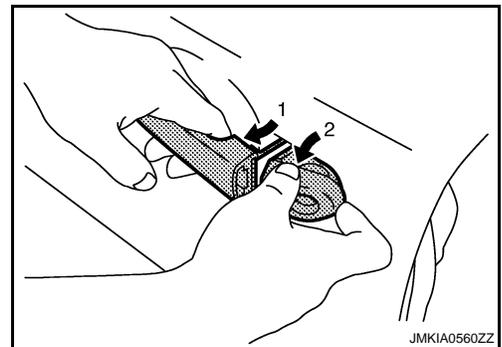


7. Reach in to separate the door key cylinder rod connection (on the handle) (driver side).

1. Door key cylinder assembly
2. Key rod

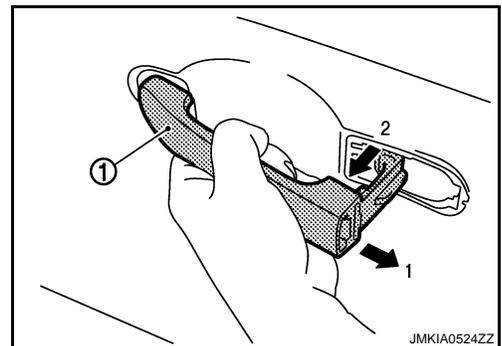


8. While pulling the outside handle, remove door key cylinder assembly.



9. Disconnect front door request switch harness connector (models with Intelligent Key system).

10. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



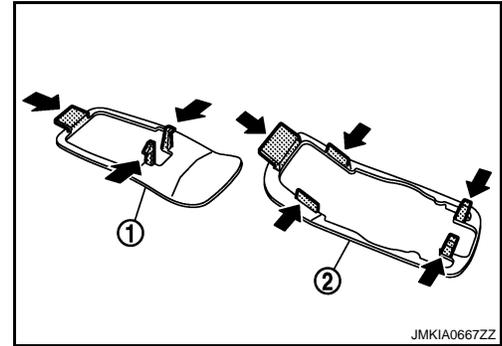
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FRONT DOOR LOCK

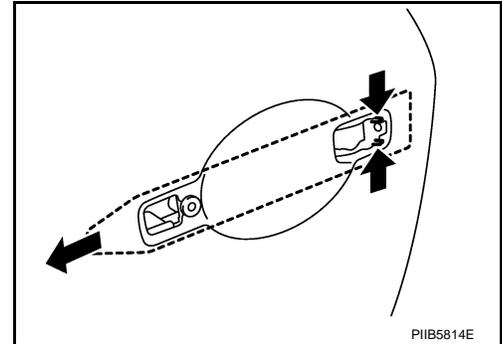
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

11. Remove the front gasket (1) and the rear gasket (2).



12. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



13. Reach in to separate the outside handle cable connection.

14. Remove the door lock assembly TORX bolts.

15. Disconnect the door lock actuator connector, and then remove the door lock assembly.

16. Remove the key rod from door lock assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

INSIDE HANDLE

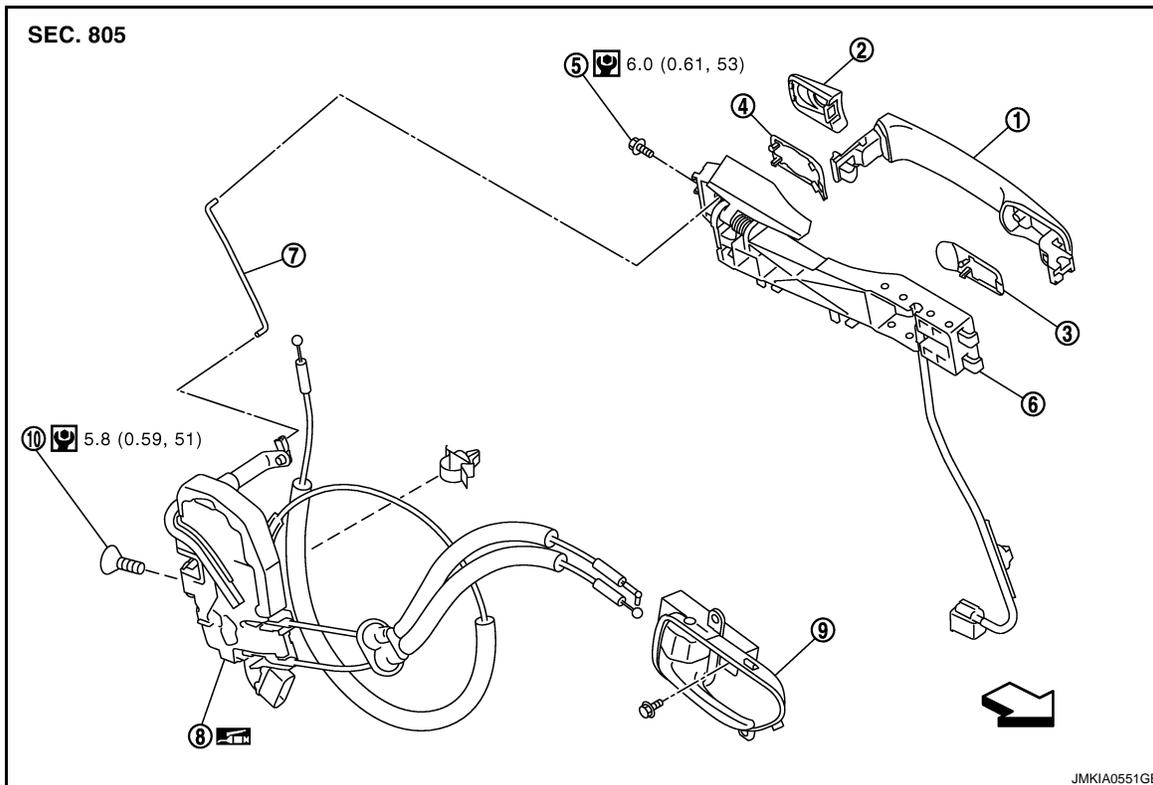
FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

INSIDE HANDLE : Exploded View

INFOID:000000001451917



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|----------------------------|---|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder assembly (driver side)
Outside handle escutcheon (passenger side) | 3. Front gasket |
| 4. Rear gasket | 5. TORX bolt | 6. Outside handle bracket |
| 7. Key rod | 8. Door lock assembly | 9. Inside handle |
| 10. TORX bolt | | |

← :Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001451918

REMOVAL

1. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolts.
3. Disconnect the inside handle knob cable and the lock knob cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

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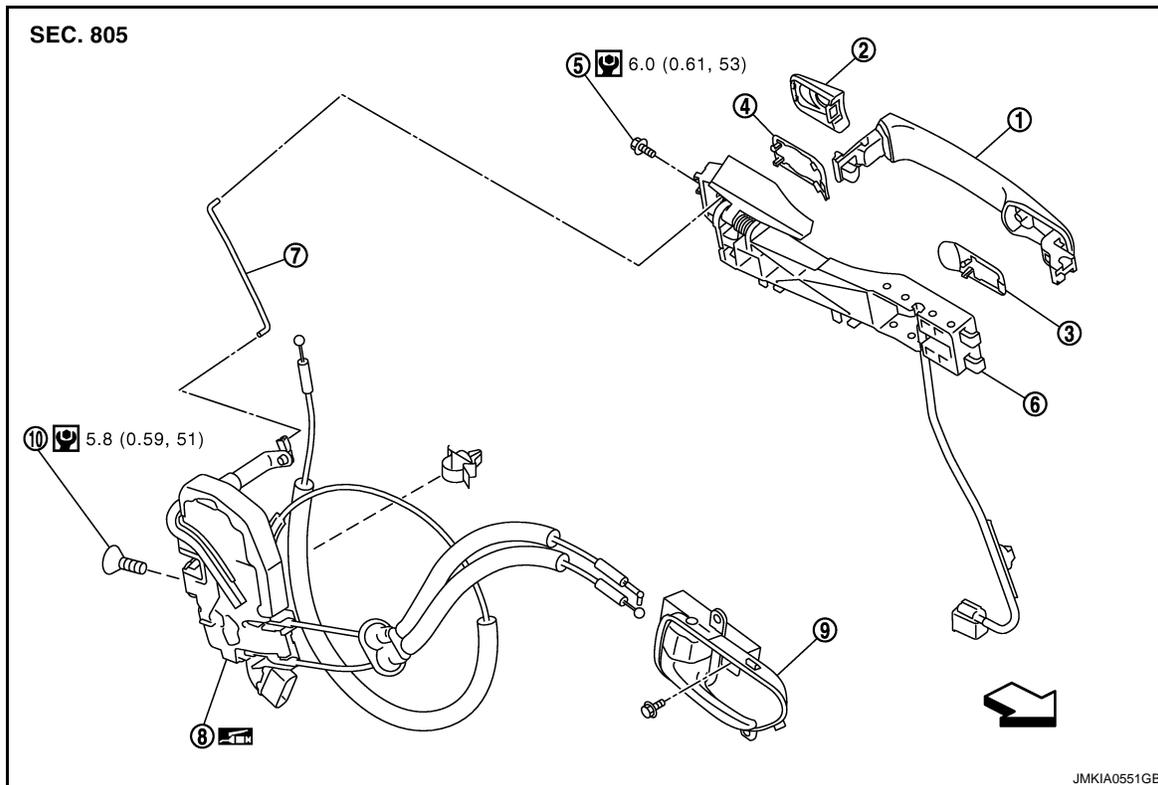
FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

OUTSIDE HANDLE : Exploded View

INFOID:000000001451920



- | | | |
|----------------------------|---|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder assembly (driver side) | 3. Front gasket |
| | Outside handle escutcheon (passenger side) | |
| 4. Rear gasket | 5. TORX bolt | 6. Outside handle bracket |
| 7. Key rod | 8. Door lock assembly | 9. Inside handle |
| 10. TORX bolt | | |

← :Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

INFOID:000000001451921

REMOVAL

1. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable and the lock knob cable.
3. Remove the front door glass. Refer to [GW-17, "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-17, "Exploded View"](#).
5. Disconnect the connector and remove the harness clamp (models with Intelligent Key system).

FRONT DOOR LOCK

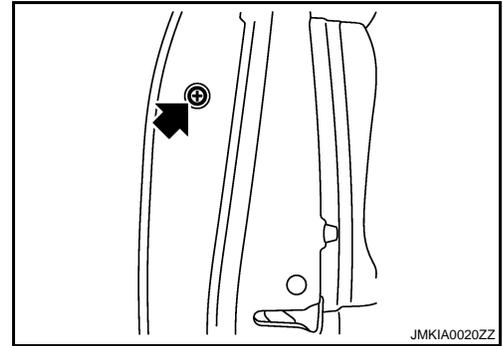
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

6. Remove the door side grommet, and loosen the TORX bolt.

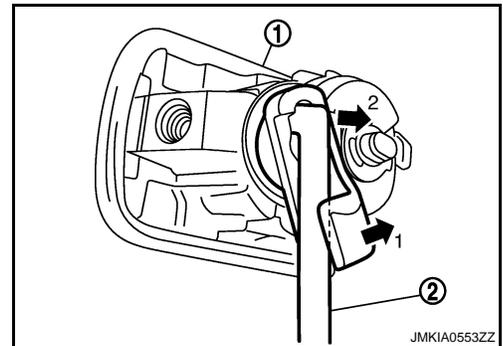
CAUTION:

Do not forcibly remove the TORX bolt.

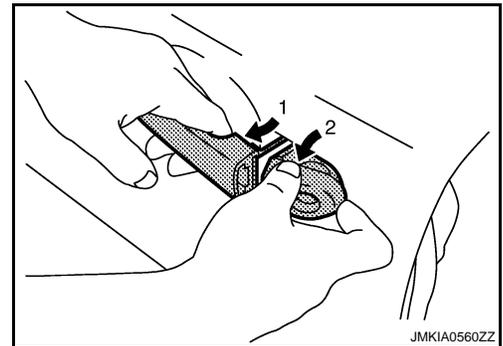


7. Reach in to separate the door key cylinder rod connection (on the handle) (driver side).

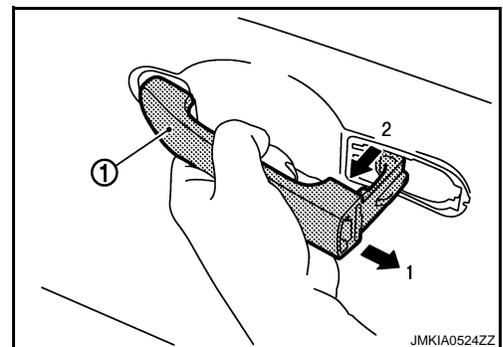
1. Door key cylinder assembly
2. Key rod



8. Disconnect the door key cylinder switch harness connector.
9. While pulling the outside handle, remove the door key cylinder assembly (driver side) or outside handle escutcheon (passenger side).



10. Disconnect the front door request switch harness connector (models with Intelligent Key system).
11. While pulling the outside handle, slide toward rear of vehicle to remove the outside handle (1).



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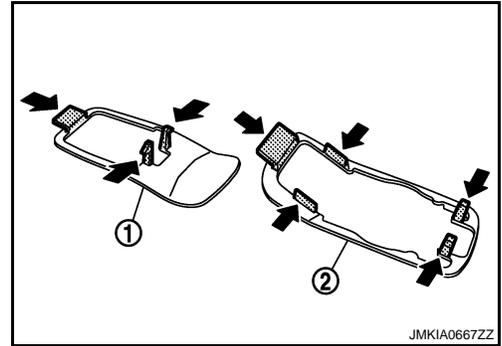
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FRONT DOOR LOCK

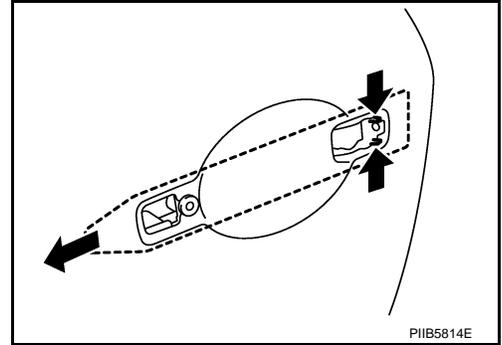
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

12. Remove the front gasket (1) and rear gasket (2).



13. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



14. Reach in to separate the outside handle cable connection.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

REAR DOOR LOCK

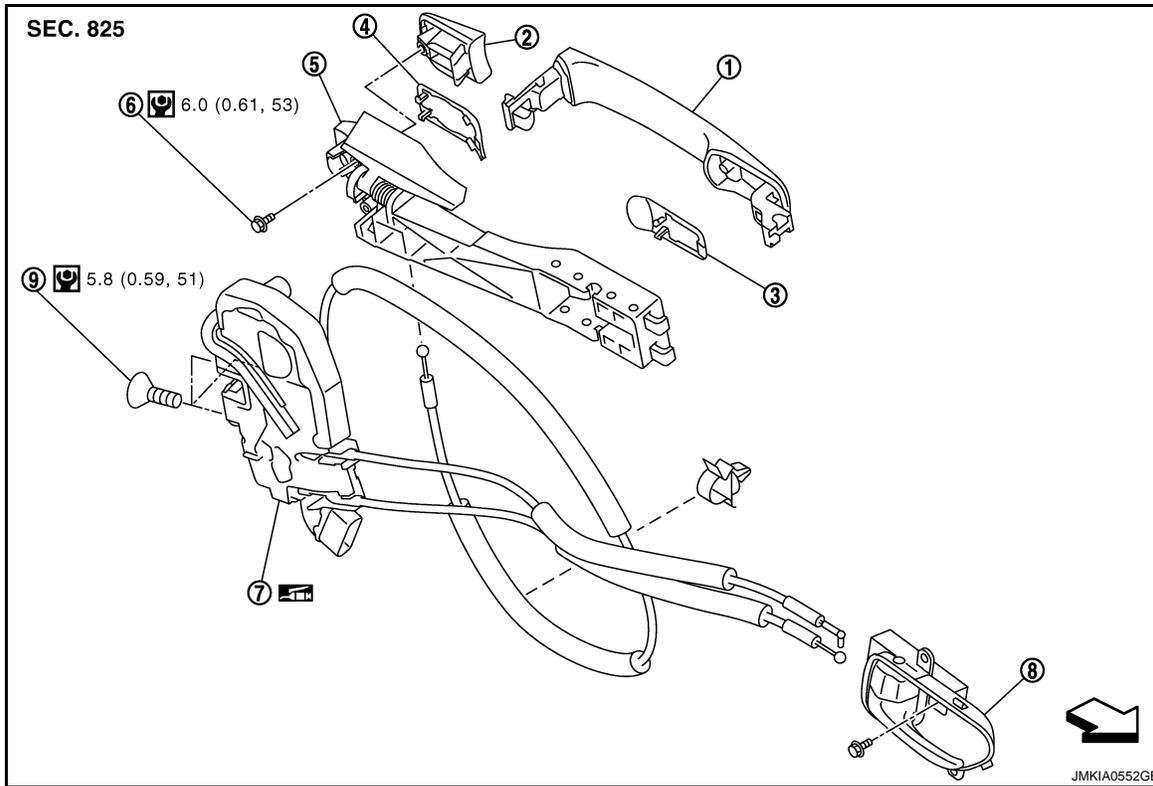
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

REAR DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001451922



- | | | |
|----------------------------|------------------------------|-----------------|
| 1. Outside handle assembly | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. TORX bolt |
| 7. Door lock assembly | 8. Inside handle | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001451923

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable.
3. Remove the door sealing screen. Refer to [GW-23, "Removal and Installation"](#).
4. Remove the lower partition sash. Refer to [GW-17, "Removal and Installation"](#).
5. Remove the corner piece assembly. Refer to [GW-17, "Removal and Installation"](#).
6. Remove the door lock assembly TORX bolts.
7. Disconnect the door lock actuator connector.

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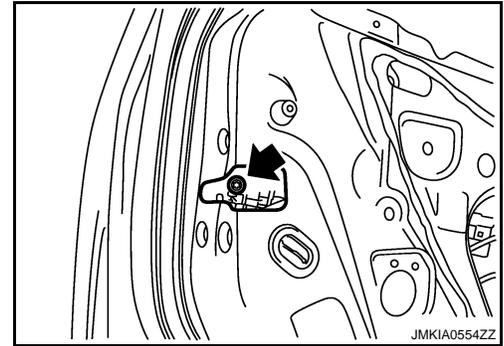
DLK

REAR DOOR LOCK

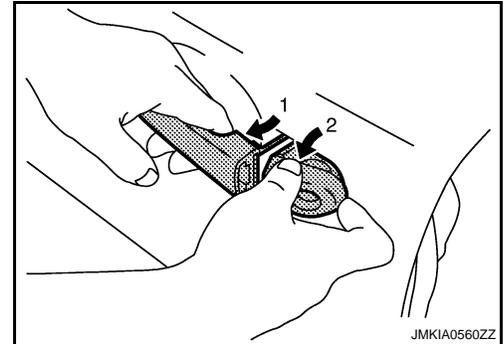
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

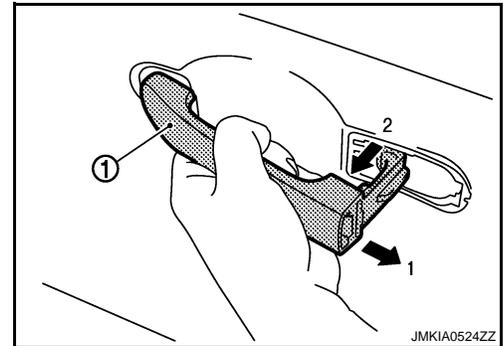
8. Slide the door lock assembly from the inside the door panel until the outside handle escutcheon TORX bolt can be seen.



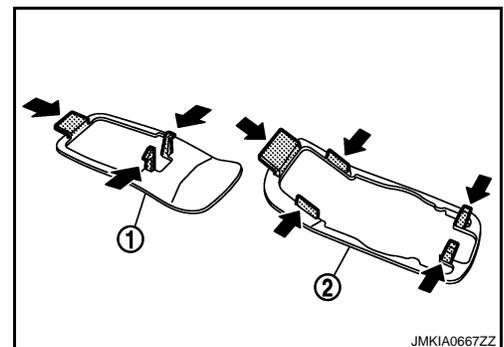
9. While pulling the outside handle, remove the outside handle escutcheon.



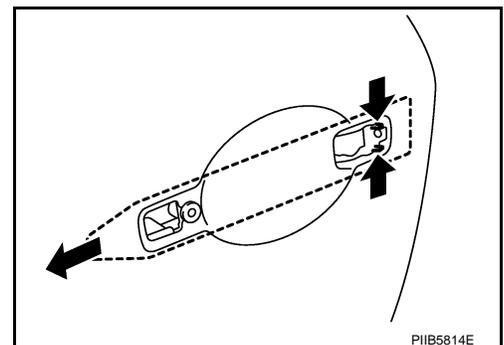
10. While pulling the outside handle(1), slide toward rear of vehicle to remove the outside handle.



11. Remove the front gasket (1) and the rear gasket (2).



12. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

13. Reach in to separate the outside handle cable connection.
14. Remove the door lock assembly.

INSTALLATION

Install in the reverse order of removal.

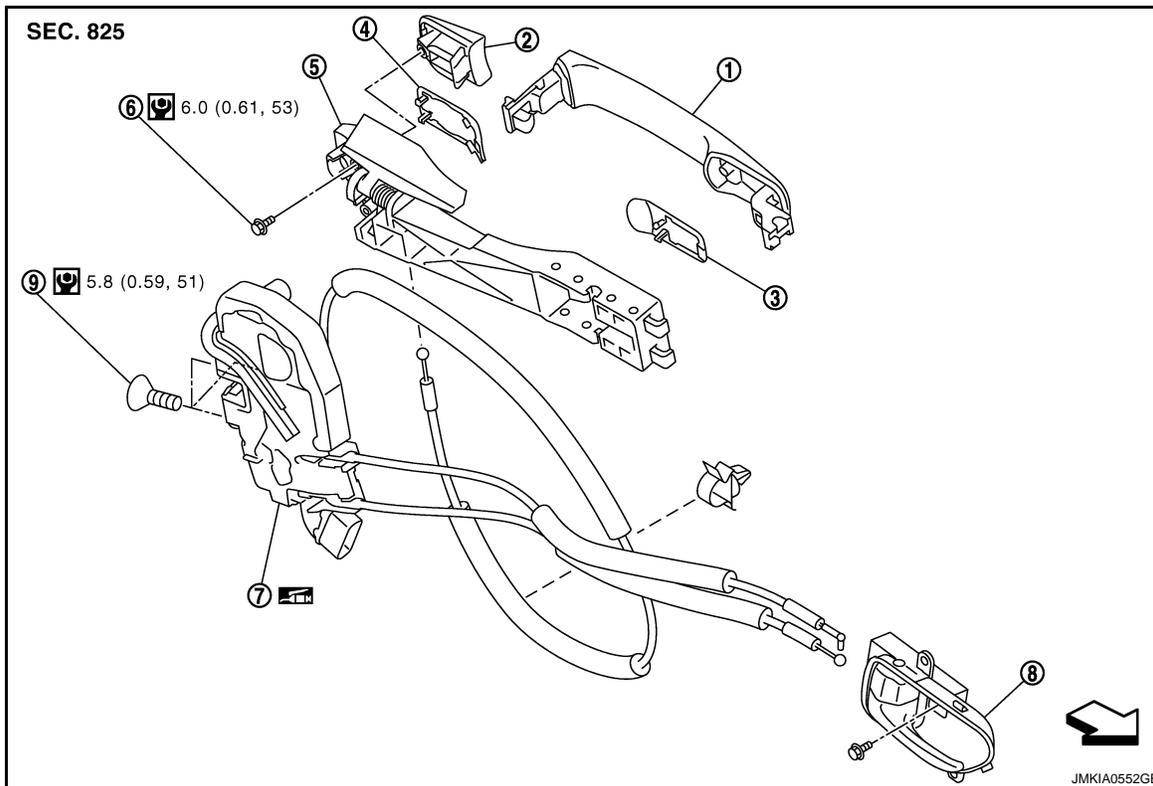
CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000001451925



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|----------------------------|------------------------------|-----------------|
| 1. Outside handle assembly | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. TORX bolt |
| 7. Door lock assembly | 8. Inside handle | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001451926

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting screws.
3. Disconnect the inside handle knob cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

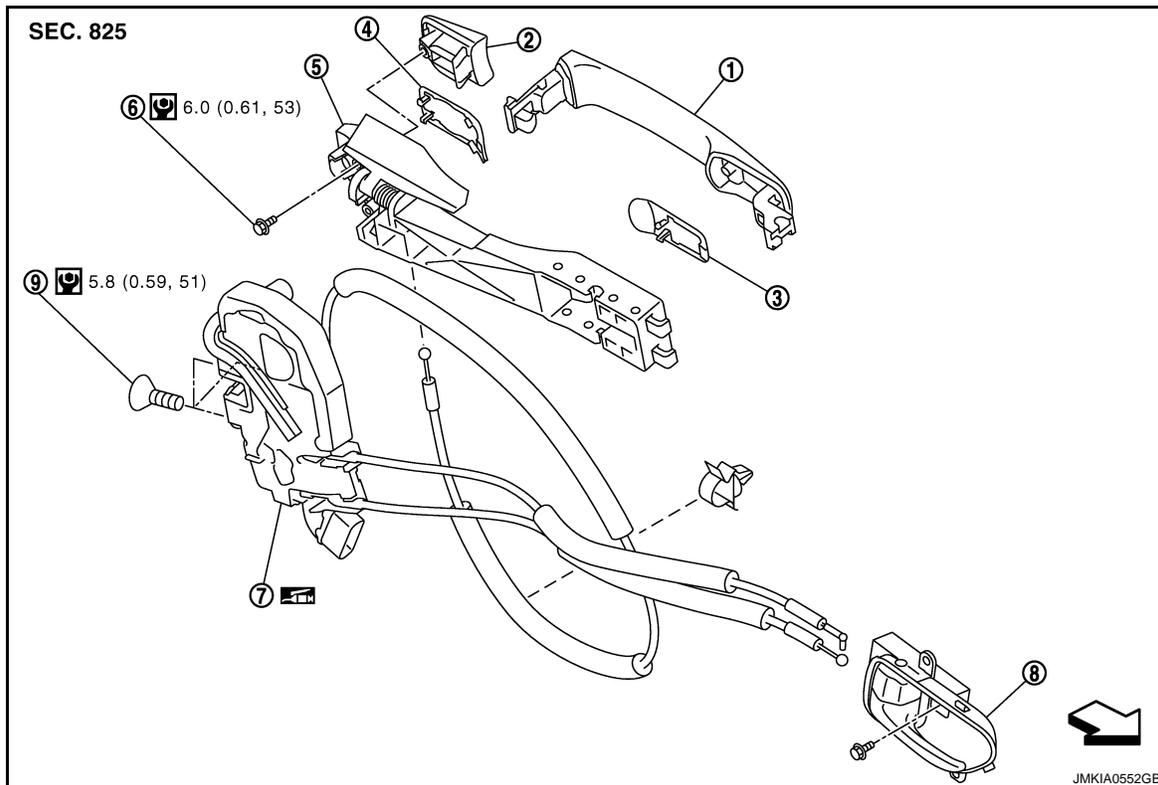
REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

OUTSIDE HANDLE : Exploded View

INFOID:000000001451928



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|----------------------------|------------------------------|-----------------|
| 1. Outside handle assembly | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. TORX bolt |
| 7. Door lock assembly | 8. Inside handle | 9. TORX bolt |

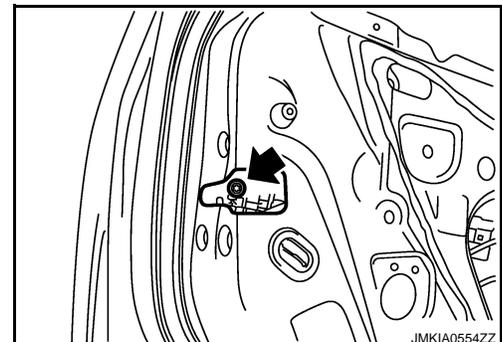
Refer to [GI-4. "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

INFOID:000000001451929

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Disconnect the inside handle knob cable.
3. Remove the door sealing screen. Refer to [GW-23. "Removal and Installation"](#).
4. Remove the lower partition sash. Refer to [GW-17. "Removal and Installation"](#).
5. Remove the corner piece assembly. Refer to [GW-17. "Removal and Installation"](#).
6. Remove the door lock assembly TORX bolts.
7. Disconnect the door lock actuator connector.
8. Slide the door lock assembly from the inside the door panel until the outside handle escutcheon TORX bolt can be seen.

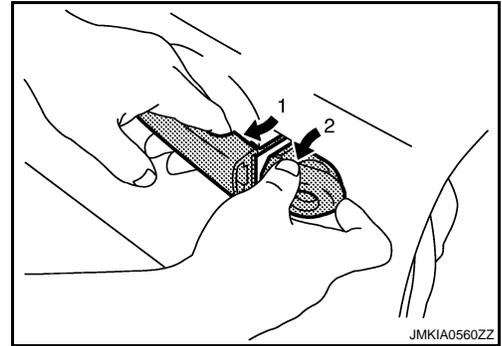


REAR DOOR LOCK

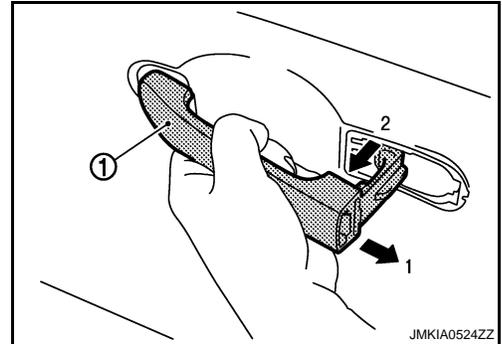
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[WITHOUT I-KEY, WITH SUPER LOCK]

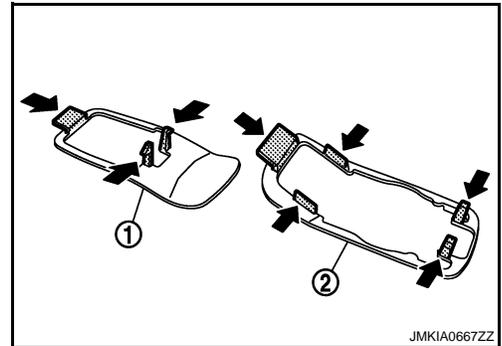
9. While pulling the outside handle, remove the outside handle escutcheon.



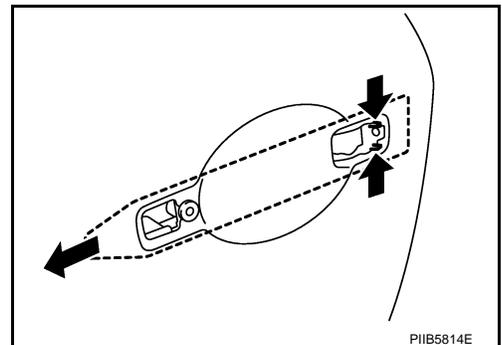
10. While pulling the outside handle(1), slide toward rear of vehicle to remove the outside handle.



11. Remove the front gasket (1) and the rear gasket (2).



12. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



13. Reach in to separate the outside handle cable connection.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate the rod holder until a click is felt.
- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

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BACK DOOR LOCK

< ON-VEHICLE REPAIR >

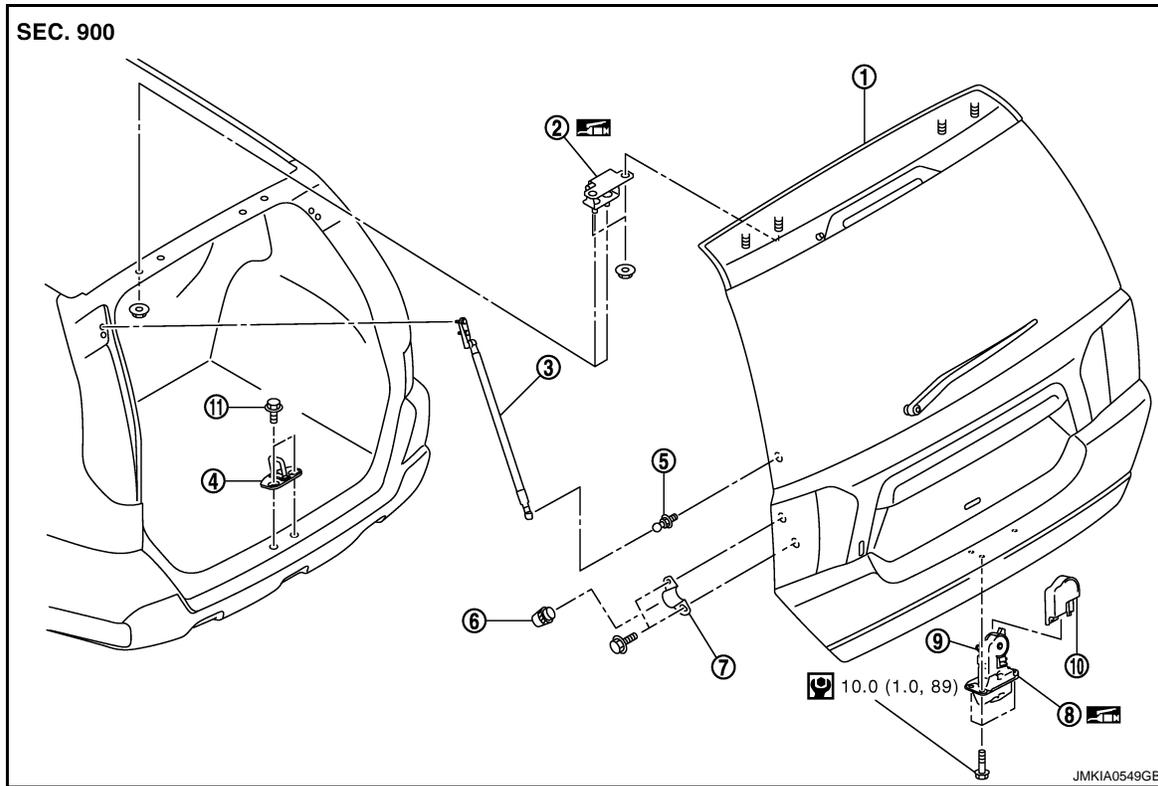
[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001451930



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|--------------------------------------|-----------------------------|--------------------|
| 1. Back door assembly | 2. Back door hinge | 3. Back door stay |
| 4. Back door striker | 5. Back door stay stud ball | 6. Bumper rubber |
| 7. Bumper rubber bracket | 8. Back door lock assembly | 9. Emergency lever |
| 10. Back door lock cover (RH handle) | 11. TORX bolt | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001451932

REMOVAL

1. Remove the back door trim finisher lower. Refer to [INT-31. "Removal and Installation"](#).
2. Disconnect the back door lock assembly and back door opener switch connectors.
3. Remove the back door lock mounting bolts, and then remove the back door lock and actuator.

INSTALLTION

Install in the reverse order of removal.

CAUTION:

Check the back door lock/unlock operation after installation.

FUEL FILLER LID OPENER

< ON-VEHICLE REPAIR >

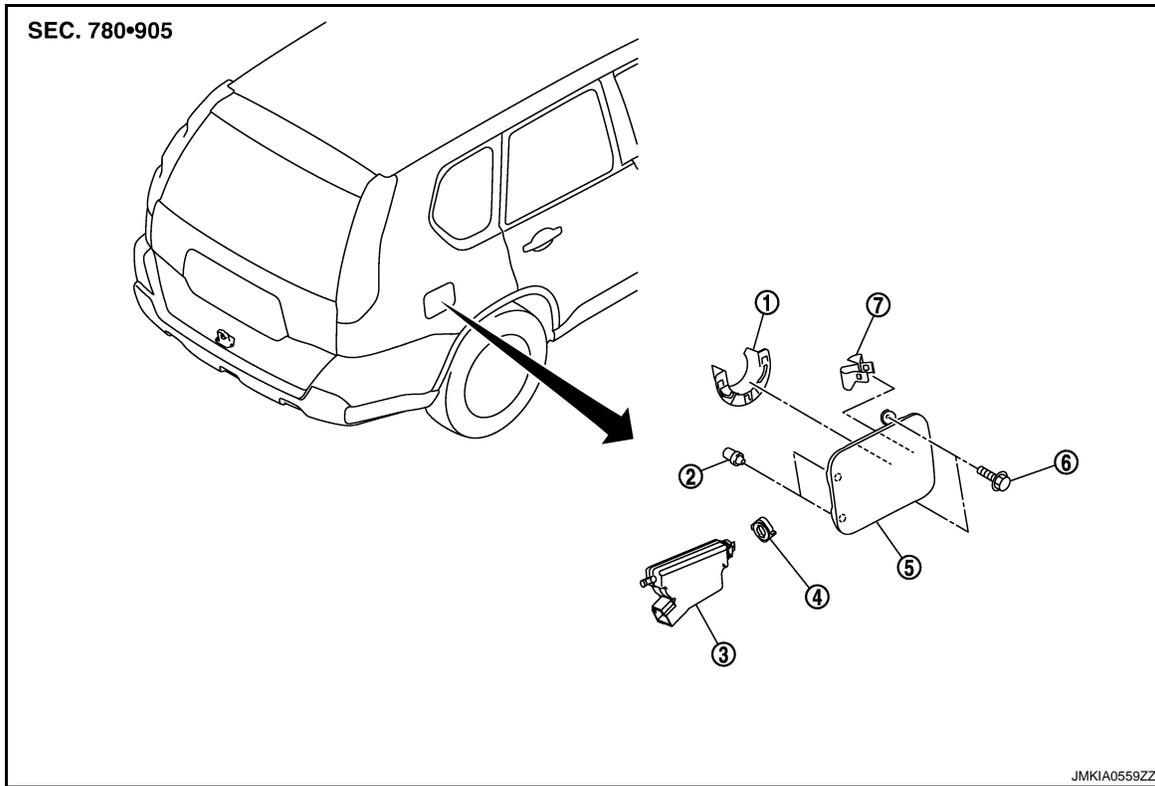
[WITHOUT I-KEY, WITH SUPER LOCK]

FUEL FILLER LID OPENER

FUEL FILLER LID

FUEL FILLER LID : Exploded View

INFOID:000000001451933



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|------------------------------|-----------------------------|----------------------------------|
| 1. Fuel filler cap holder | 2. Bumper rubber | 3. Fuel filler lid lock actuator |
| 4. Fuel filler lid lock seal | 5. Fuel filler lid assembly | 6. TORX bolt |
| 7. Spring | | |

FUEL FILLER LID : Removal and Installation

INFOID:000000001451934

REMOVAL

1. Fully open the fuel filler lid.
2. Remove the filler cap.
3. Remove the TORX bolts, and then remove the fuel filler lid assembly.
4. Remove the following parts after removing the fuel filler lid assembly.
 - Fuel filler cap holder
 - Bumper rubber
 - Spring

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check the fuel filler lid open/close operation after installation.
- After installation, apply the touch-up paint (the body color) onto the head of the mounting screws.

NOTE:

After installation, perform fitting adjustment.

mm(in)

	Clearance	Evenness
Fuel filler lid— – Body side outer	2.0 – 4.0 (0.079 – 0.157)	-1.0 – 1.0 (-0.039 – 0.039)

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DOOR SWITCH

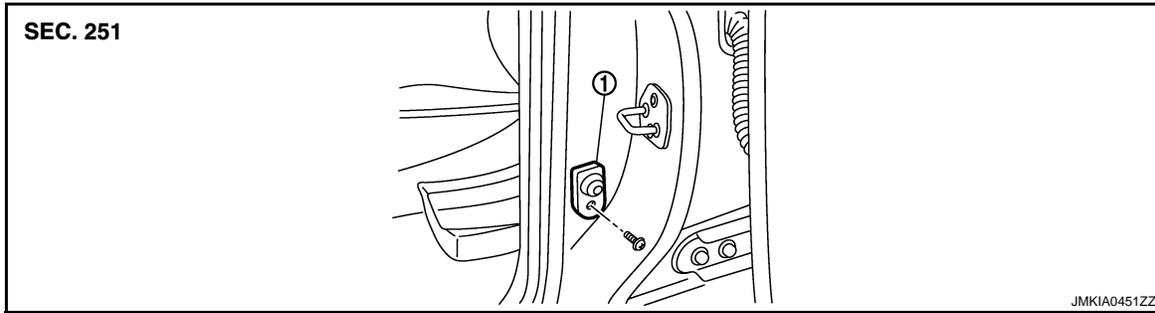
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR SWITCH

Exploded View

INFOID:000000001495965



1. Door switch (driver side)

Removal and Installation

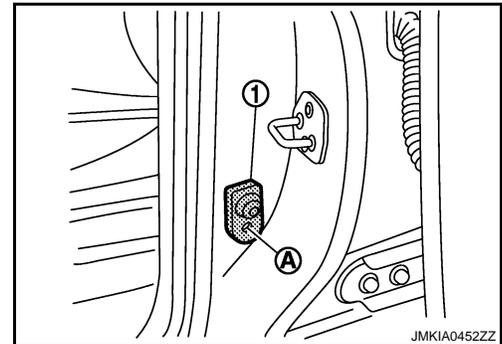
INFOID:000000001495966

REMOVAL

1. Remove the door switch mounting bolt (A), and then remove door switch (1).

NOTE:

The same procedure is also performed for door switch (passenger side, rear LH and rear RH).



INSTALLATION

Install in the reverse order of removal.

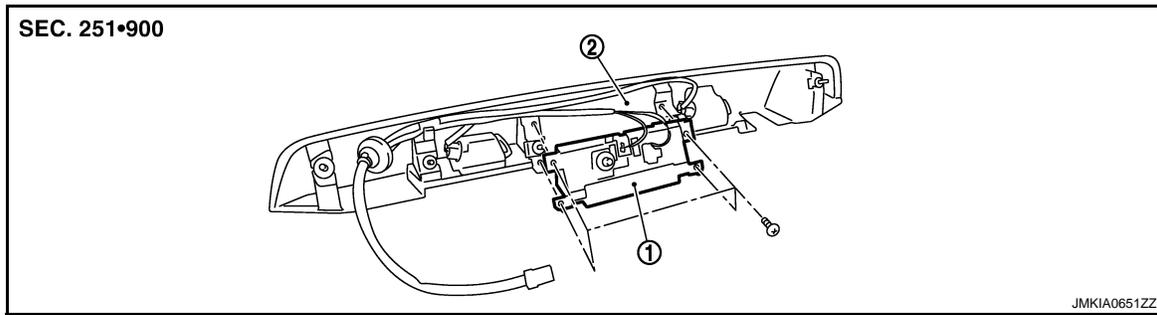
BACK DOOR OPENER SWITCH

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR OPENER SWITCH

Exploded View



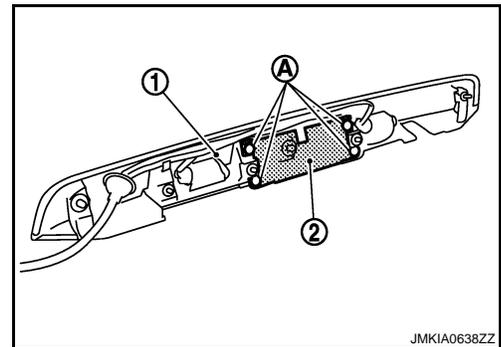
1. Back door opener switch assembly
2. Back door finisher

Removal and Installation

INFOID:000000001495974

REMOVAL

1. Remove the back door finisher. Refer to [EXT-34, "Removal and Installation"](#).
2. Remove the back door opener switch assembly mounting bolt (A).
3. Remove the back door opener switch assembly (2) from back door finisher (1).



INSTALLATION

Install in the reverse order of removal.

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KEYFOB BATTERY

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

KEYFOB BATTERY

Exploded View

INFOID:000000001281456

Refer to [DLK-924. "Removal and Installation"](#).

Removal and Installation

INFOID:000000001281456

REMOVAL

1. Remove installation screw (7) on the rear of keyfob.
2. Place the key with the lower case (6) facing up. Set a screwdriver (A) wrapped with tape into illustration of the lower case (6) and separate the lower case (6) from the upper case (1).

CAUTION:

- Do not touch the circuit board or battery terminal.
- The keyfob is water-resistant. However, if it does get wet, immediately wipe it dry.

3. When replacing the circuit board assembly, remove circuit board assembly from the upper case (1).

[Circuit board assembly: Switch rubber (3) + Board surface (4)]

CAUTION:

Do not touch the printed circuits directly.

4. Remove the battery (5) from the lower case (6) and replace it.

Battery replacement : Coin-type lithium battery (CR2032)

CAUTION:

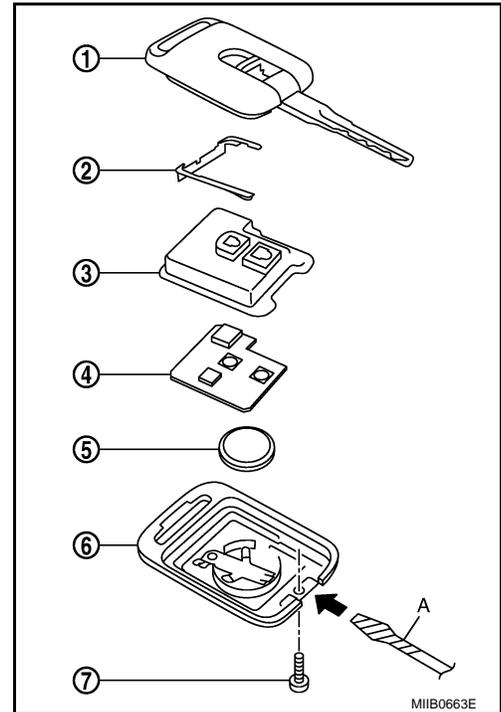
When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.

5. After replacement, fit the lower and upper cases together, part (2), (3) and tighten with the screw.

CAUTION:

After replacing the battery, Be sure to check that door locking operates normally using the keyfob.

Refer to [DLK-823. "Component Function Check"](#).



INSTALLATION

Install in the reverse order of removal.

DOOR LOCK AND UNLOCK SWITCH

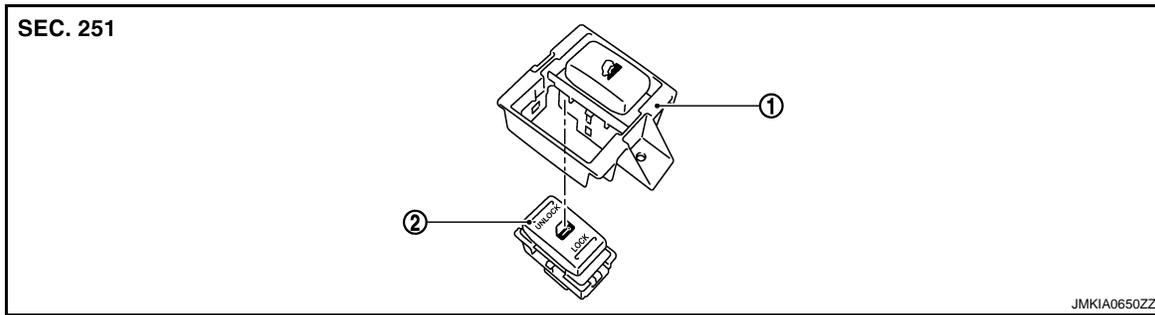
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH

Exploded View

INFOID:000000001559274



1. Switch bracket

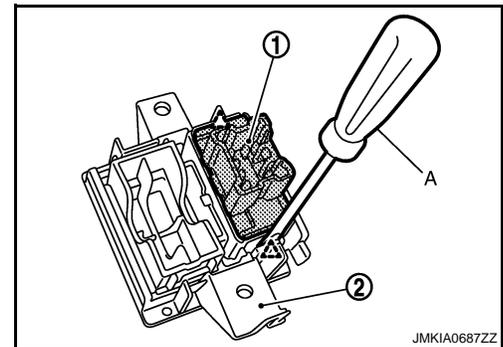
2. Door lock and unlock switch

Removal and Installation

INFOID:000000001559275

Remove the door lock and unlock switch (1) from switch bracket (2) using flat-bladed screw driver (A) etc.

 : Pawl



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