

SECTION **DLK**
DOOR & LOCK

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH I-KEY, WITHOUT SUPER LOCK]

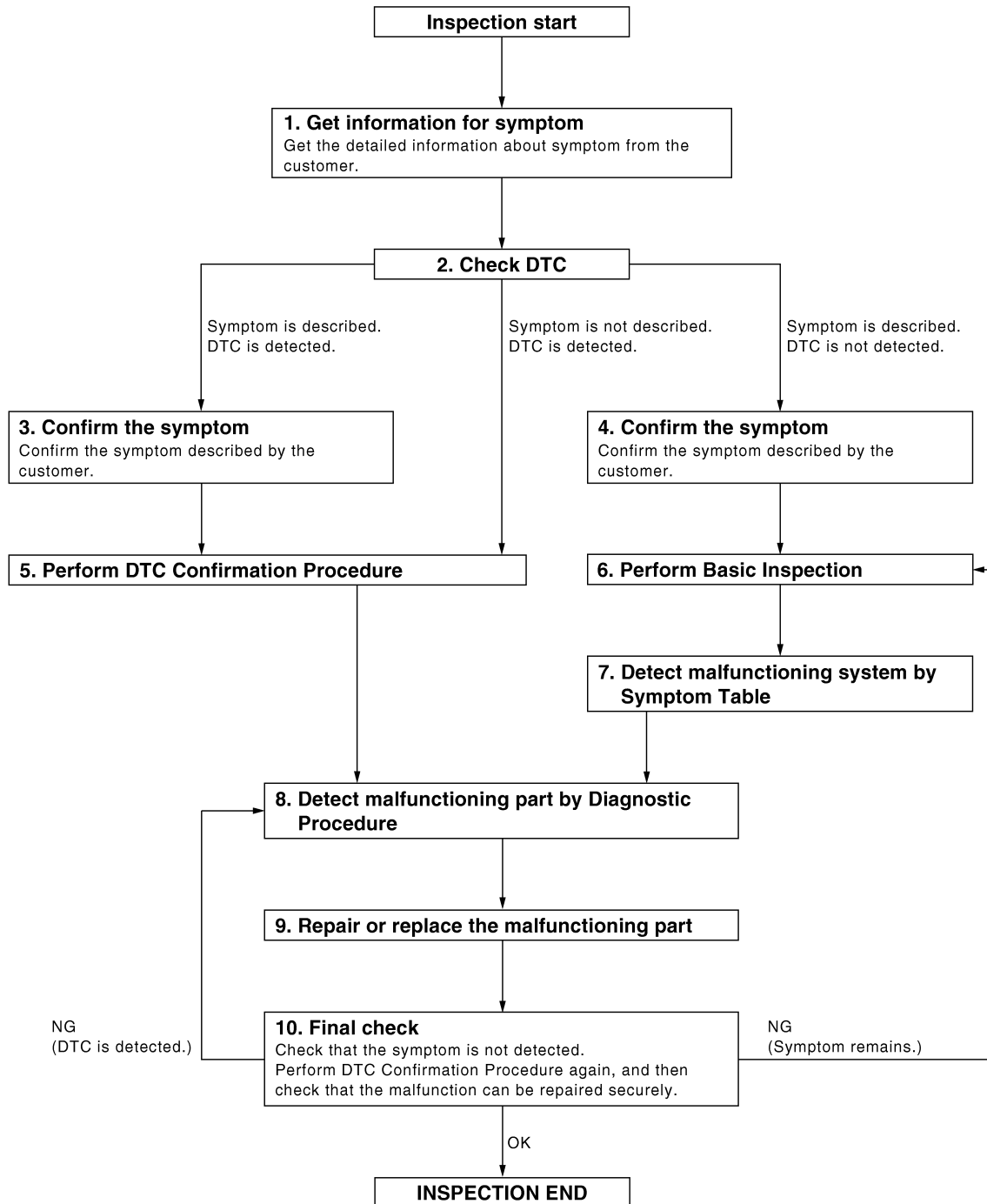
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000001183533

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-163, "DTC Inspection Priority Chart"](#) (Intelligent Key unit), [DLK-202, "DTC Inspection Priority Chart"](#) (BCM) and determine trouble diagnosis order.

Is DTC detected?

YES >> GO TO 8.

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

6.PERFORM BASIC INSPECTION

Perform Basic Inspection. Refer to [DLK-220, "Basic Inspection"](#).

>> GO TO 7.

7.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

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

>> GO TO 8.

8.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 9.

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH I-KEY, WITHOUT SUPER LOCK]

9. 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.

>> GO TO 10.

10. 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.

Does the symptom reappear?

YES (DTC is detected)>>GO TO 8.

YES (Symptom remains)>>GO TO 6.

NO >> **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

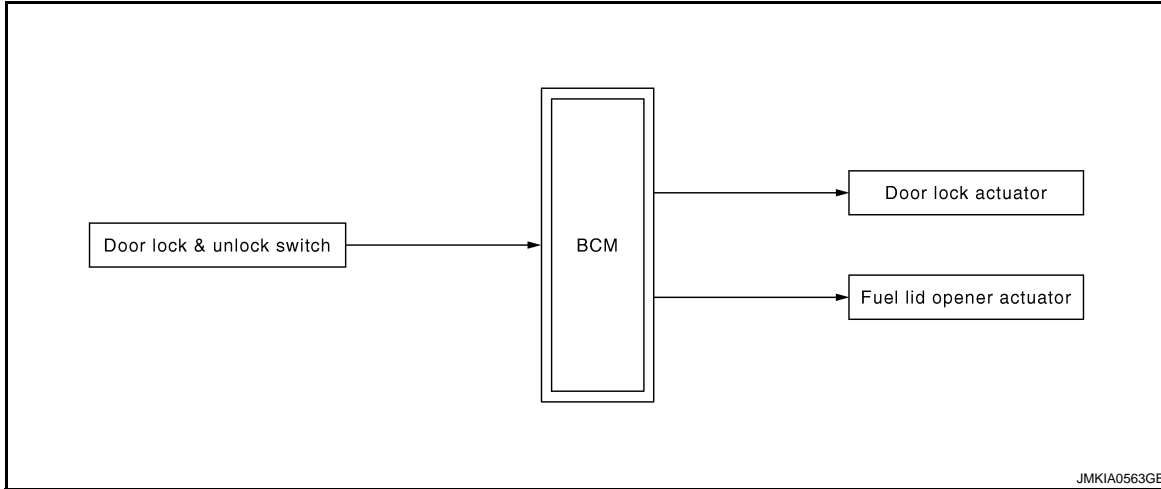
DOOR LOCK FUNCTION

DOOR LOCK AND UNLOCK SWITCH

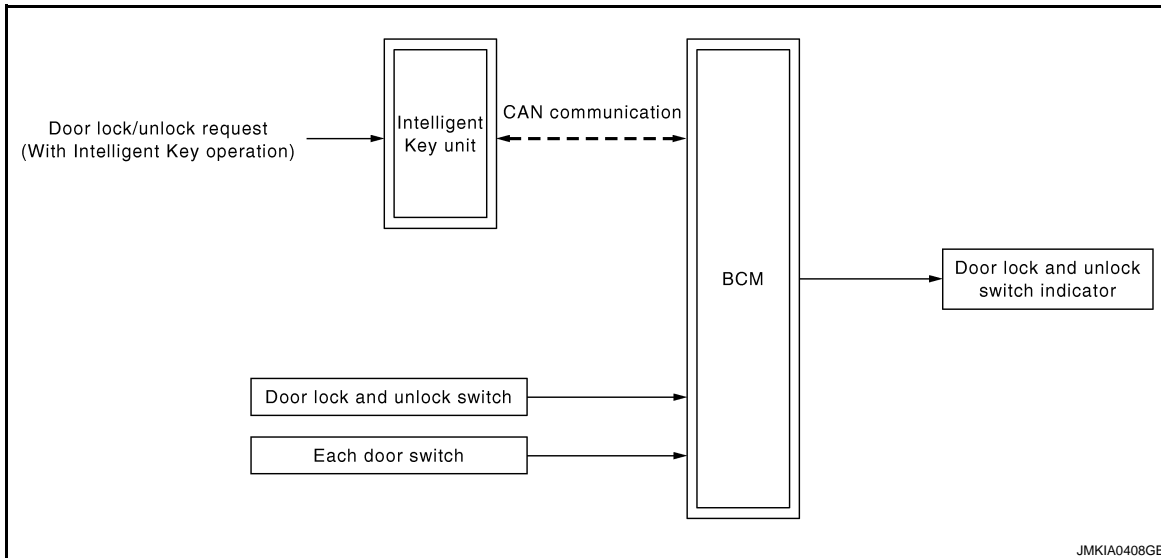
DOOR LOCK AND UNLOCK SWITCH : System Diagram

INFOID:000000001183536

DOOR LOCK AND UNLOCK SWITCH OPERATION



DOOR LOCK AND UNLOCK SWITCH INDICATOR OPERATION



DOOR LOCK AND UNLOCK SWITCH : System Description

INFOID:000000001183537

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 >

[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 must be running to turn OFF the indicator. The timer will run for 30 minutes after locking with door lock and unlock switch.

NOTE:

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

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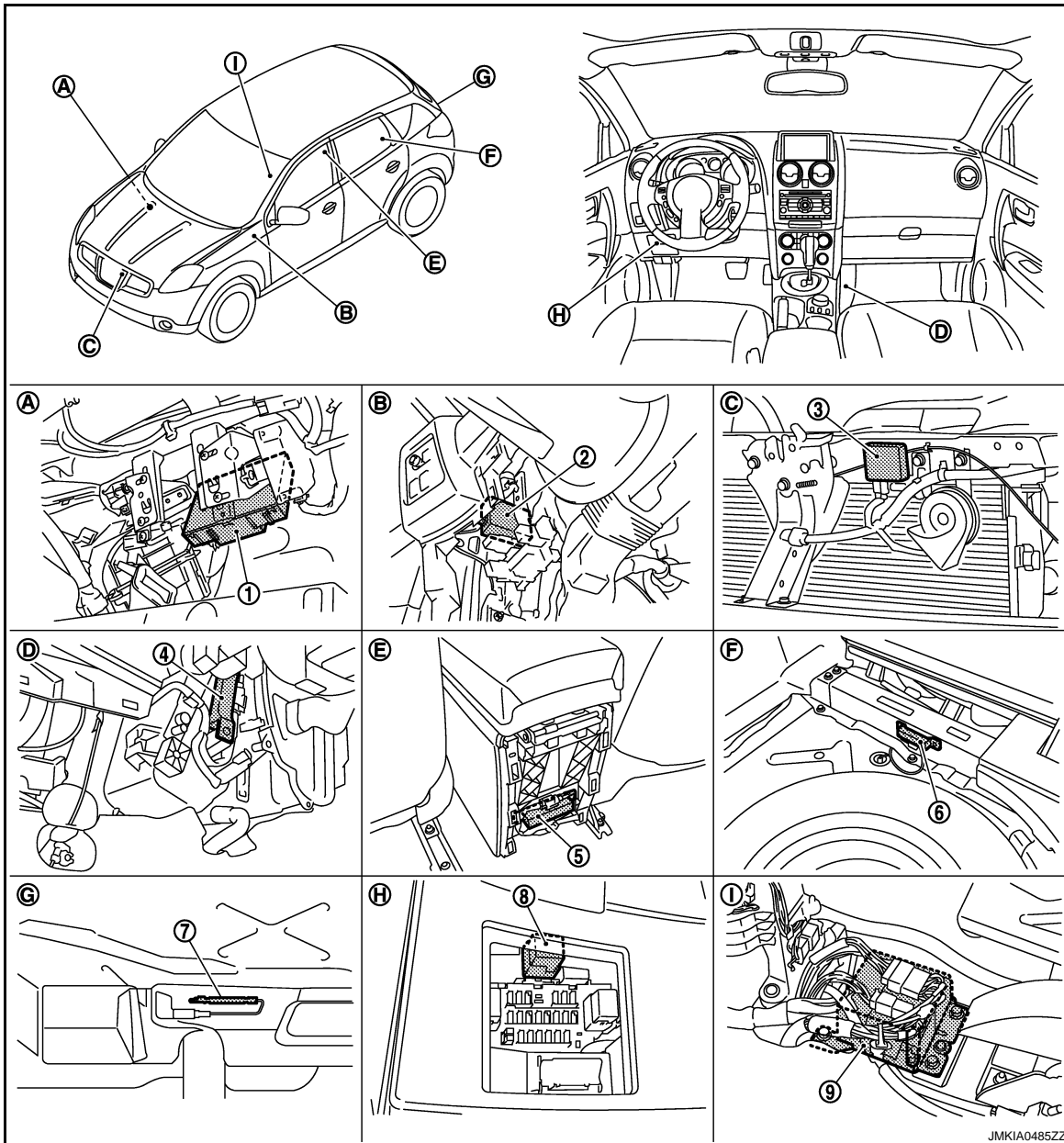
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH : Component Parts Location

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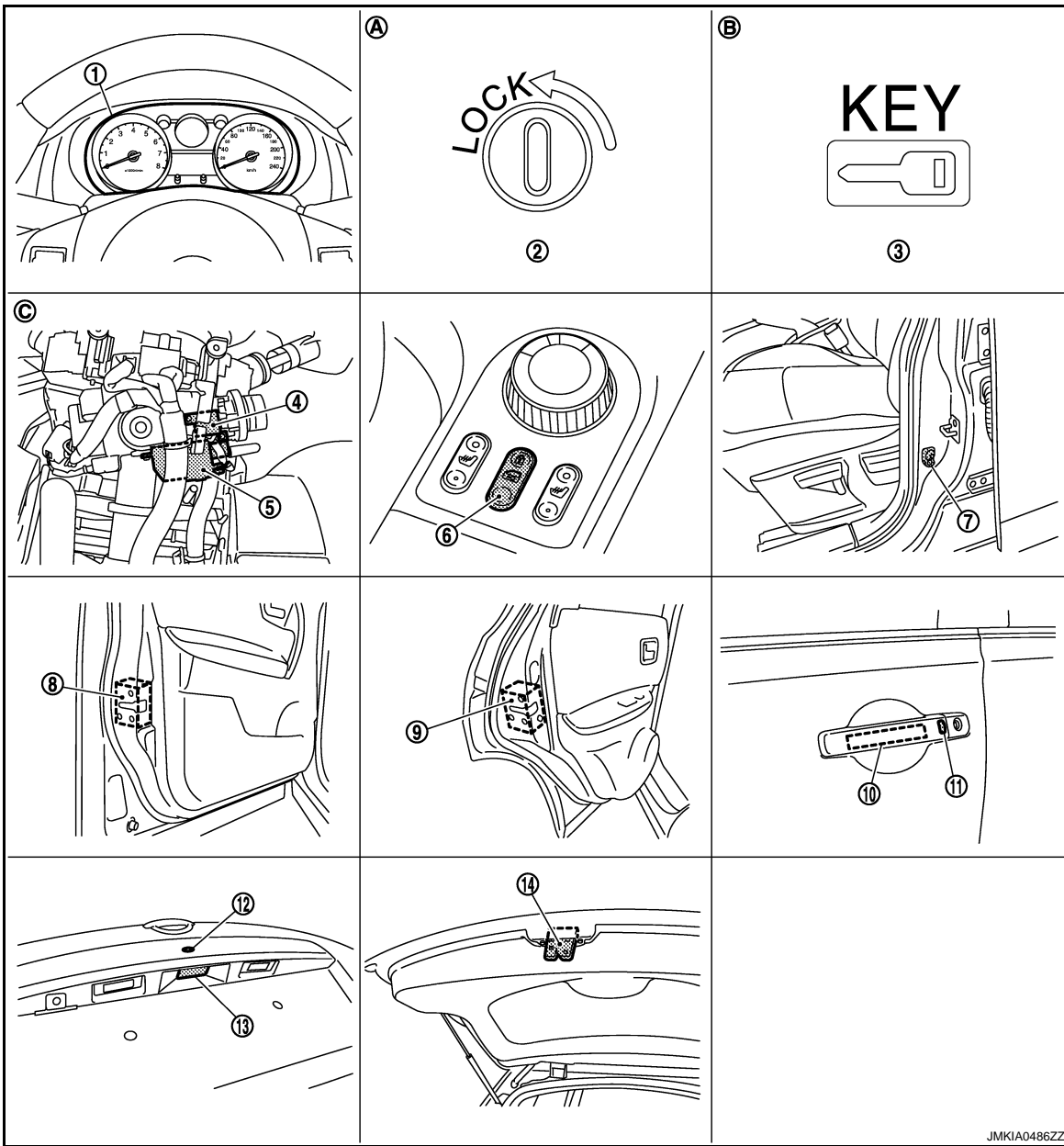


- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console 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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D9 | 9. Rear door lock actuator LH
D85 |
| 10. Outside key antenna (driver side)
D11 | 11. Front door request switch (driver side)
D10 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover removed |

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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH : Component Description

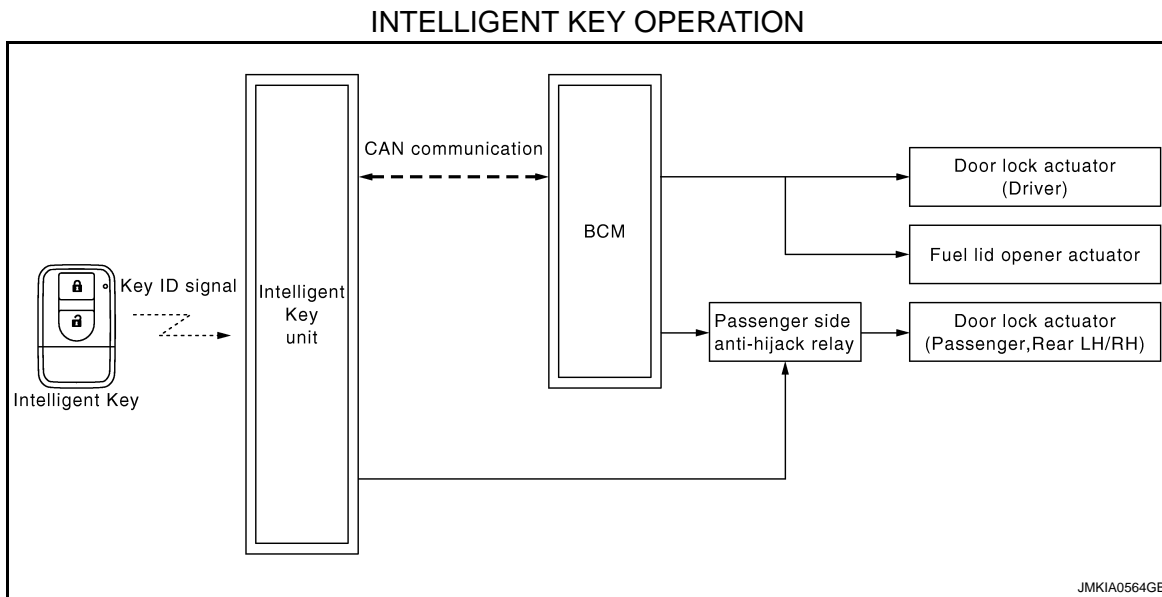
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Item	Function
BCM	Controls the door lock function.
Door switch	Detects door state (open or close).
Door lock and unlock switch	Transmits door lock/unlock signal to BCM. Door lock/unlock switch indicator is built-in door lock and unlock switch.
Door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

INTELLIGENT KEY

INTELLIGENT KEY : System Diagram

INFOID:000000001183540



INTELLIGENT KEY : System Description

INFOID:000000001183541

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 ON or OFF* with CONSULT-III. For the setting information, refer to [DLK-65. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

*: The factory setting

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 is OFF or LOCK position
Unlock	<ul style="list-style-type: none"> Key switch is OFF (key is removed from ignition key cylinder) Ignition knob is OFF or LOCK position

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.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

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

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.

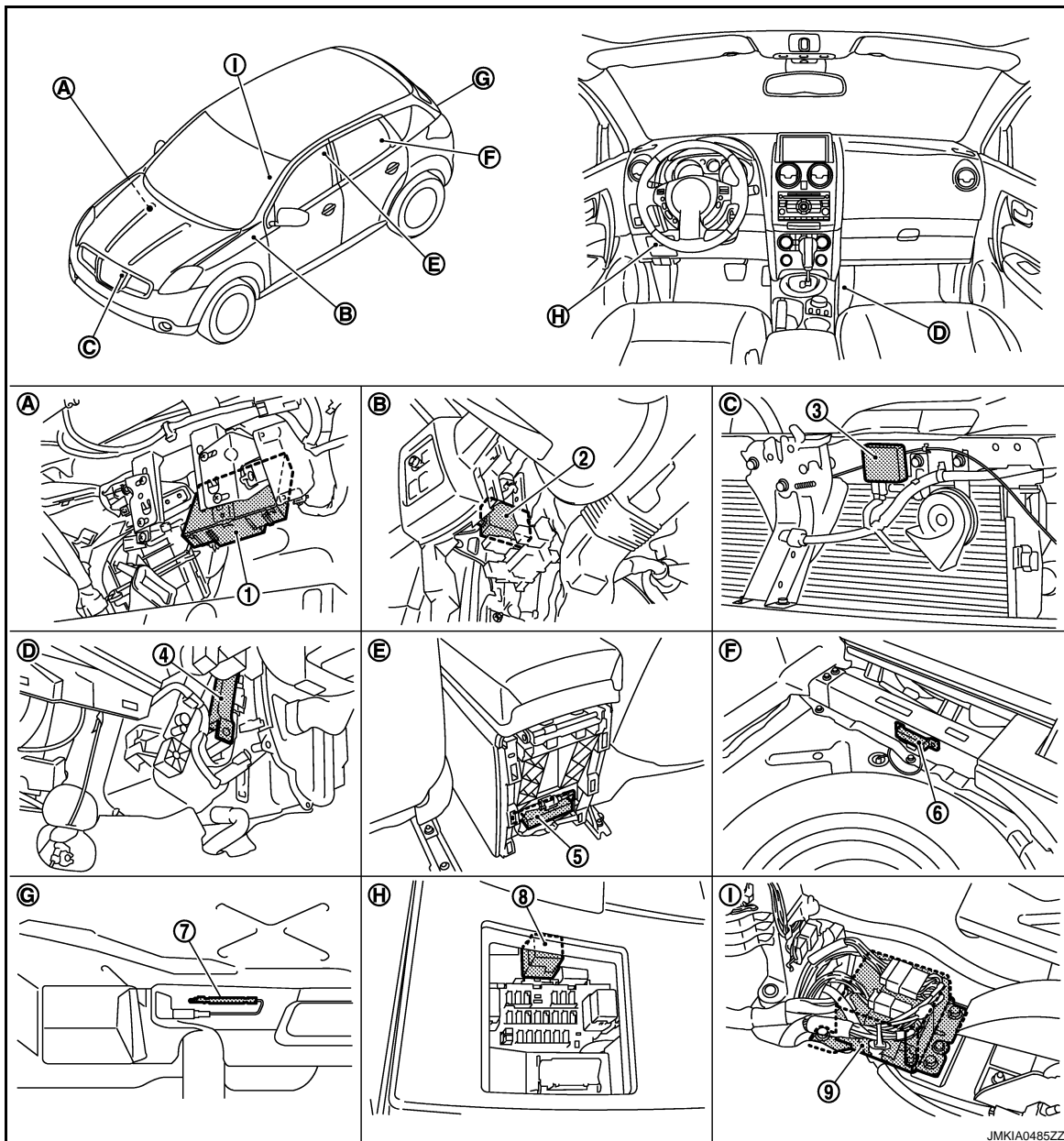
NOTE:

Anti-hijack mode can be set to ON or OFF* with CONSULT-III. For the setting information, refer to [DLK-65, "CONSULT-III Function \(INTELLIGENT KEY\)".](#)

*: The factory setting

INTELLIGENT KEY : Component Parts Location

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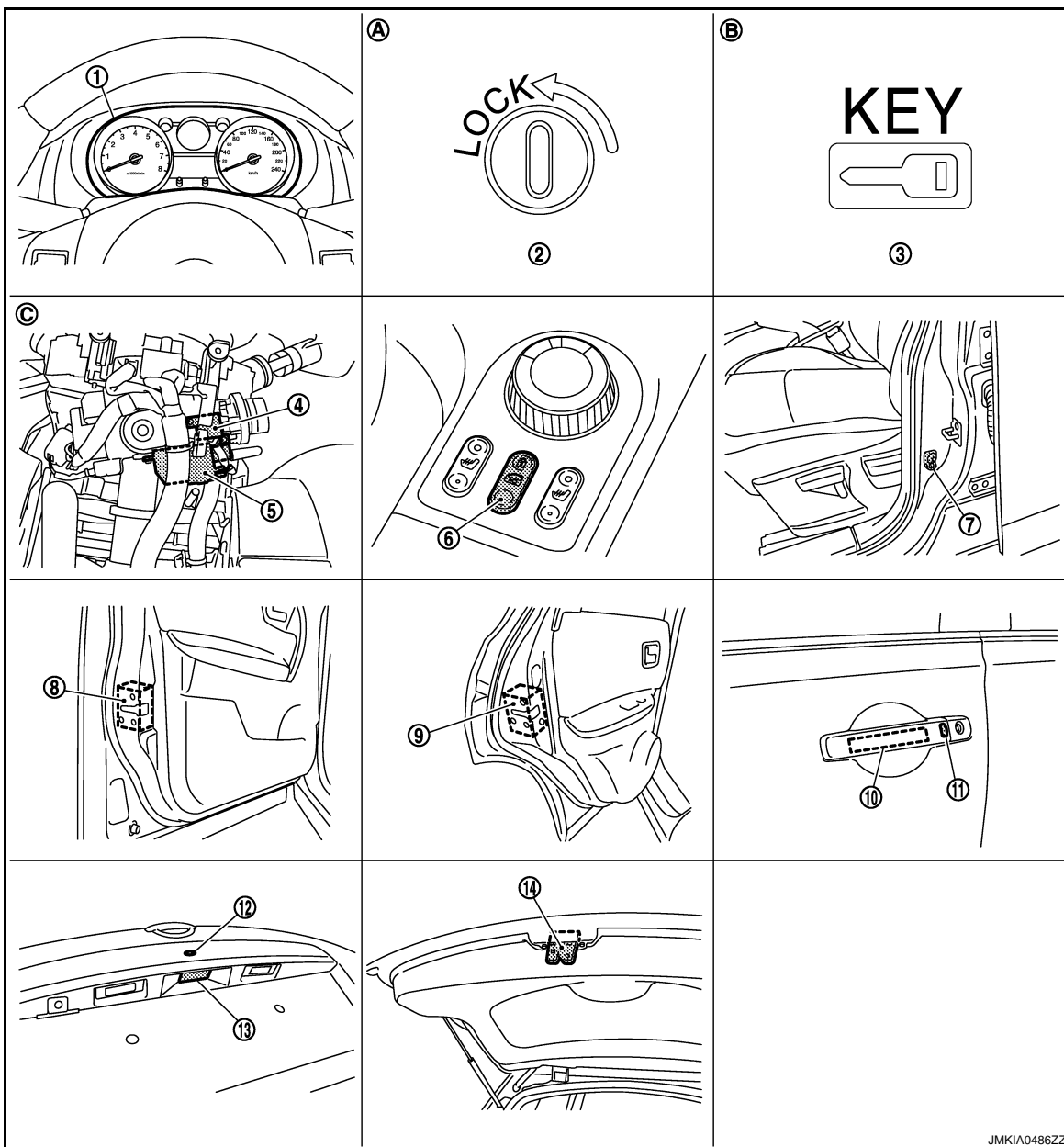
- | | | |
|--|---|--|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

- | | | |
|--|--|---|
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. 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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D9 | 9. Rear door lock actuator LH
D85 |
| 10. Outside key antenna (driver side)
D11 | 11. Front door request switch (driver side)
D10 | 12. Back door request switch
D187 |

DOOR LOCK FUNCTION

[WITH I-KEY, WITHOUT SUPER LOCK]

< FUNCTION DIAGNOSIS >

- | | | |
|-------------------------------------|-------------------------------------|--|
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover removed |

INTELLIGENT KEY : Component Description

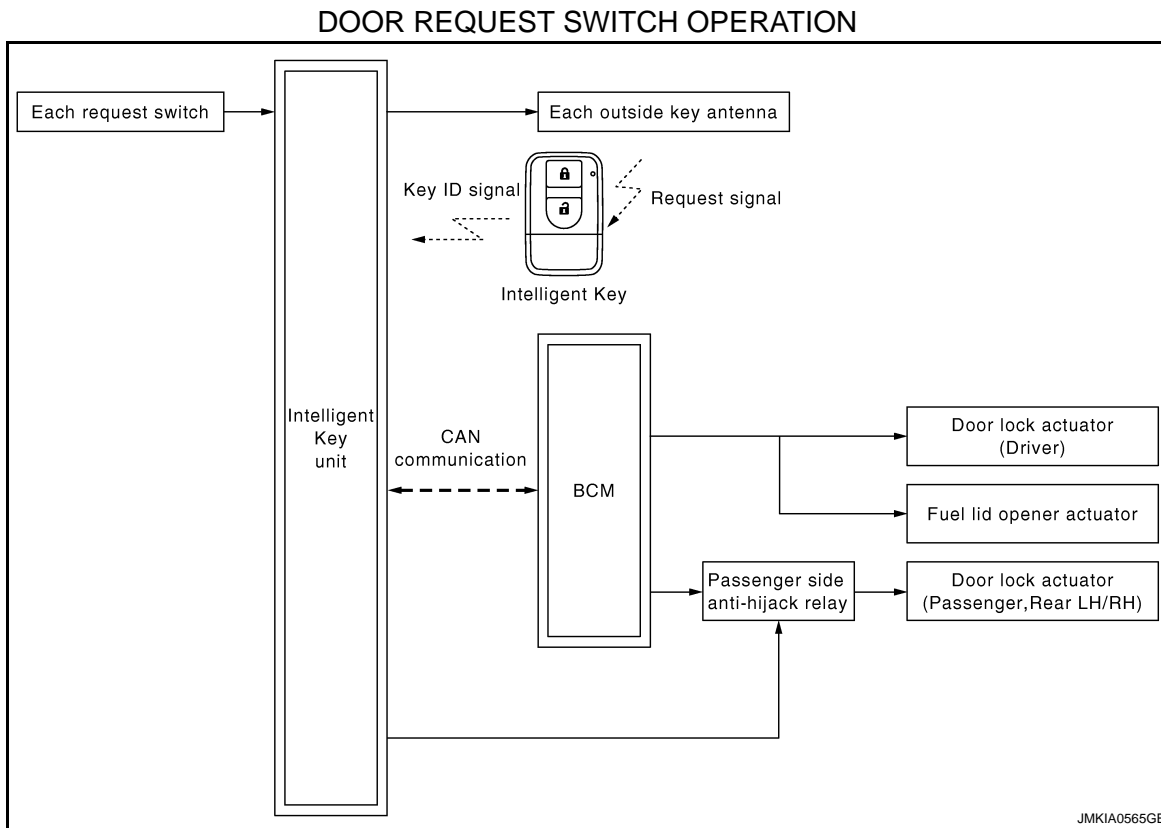
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Item	Function
Intelligent Key unit	Controls the door lock/unlock operation with BCM.
BCM	Controls the door lock/unlock operation with Intelligent Key unit.
Door switch	Detects door state (open or closed).
Key switch	Detects that mechanical key is inserted 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. Door lock actuator locks and unlocks each door.

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH : System Diagram

INFOID:000000001183544



DOOR REQUEST SWITCH : System Description

INFOID:000000001183545

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 ON or OFF* with CONSULT-III. For the setting information, refer to [DLK-65. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

*: The factory setting

CAUTION:

The driver should always carry the Intelligent Key

OPERATION CONDITION

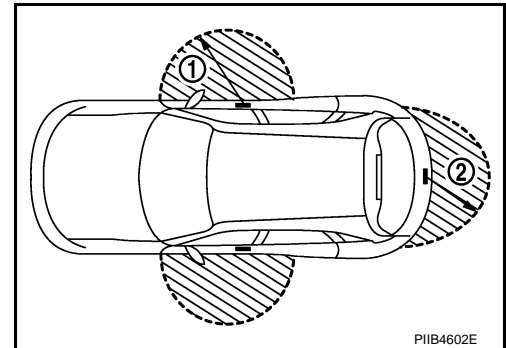
If the following conditions are not satisfied, door lock and unlock operation is not performed even if the request switch is operated.

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 back door can be opened with back door opener switch. Pressing back door 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 and Intelligent Key. For the setting information, refer to [DLK-65. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

*: The factory setting

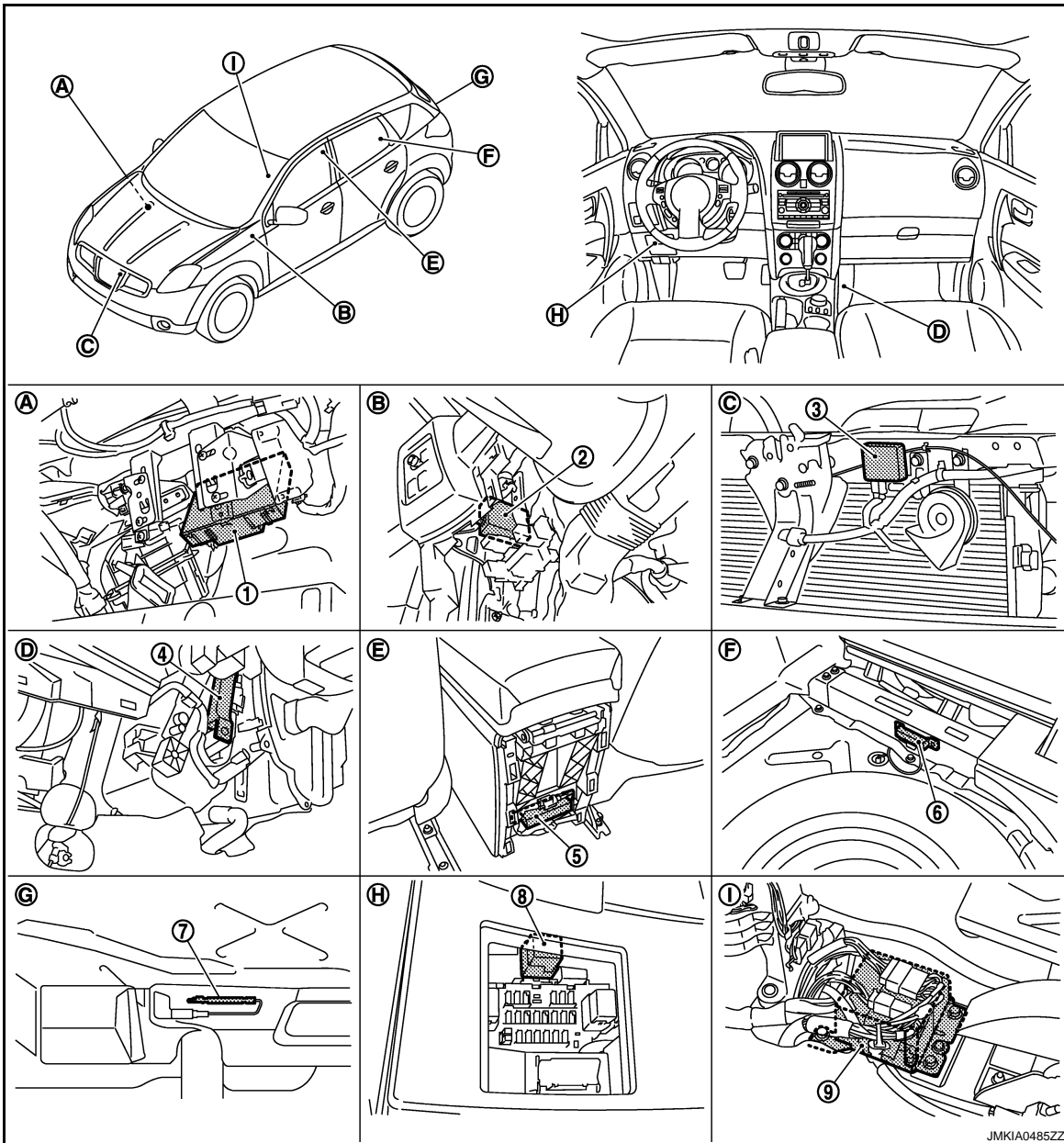
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR REQUEST SWITCH : Component Parts Location

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|--|--|---|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console removed |

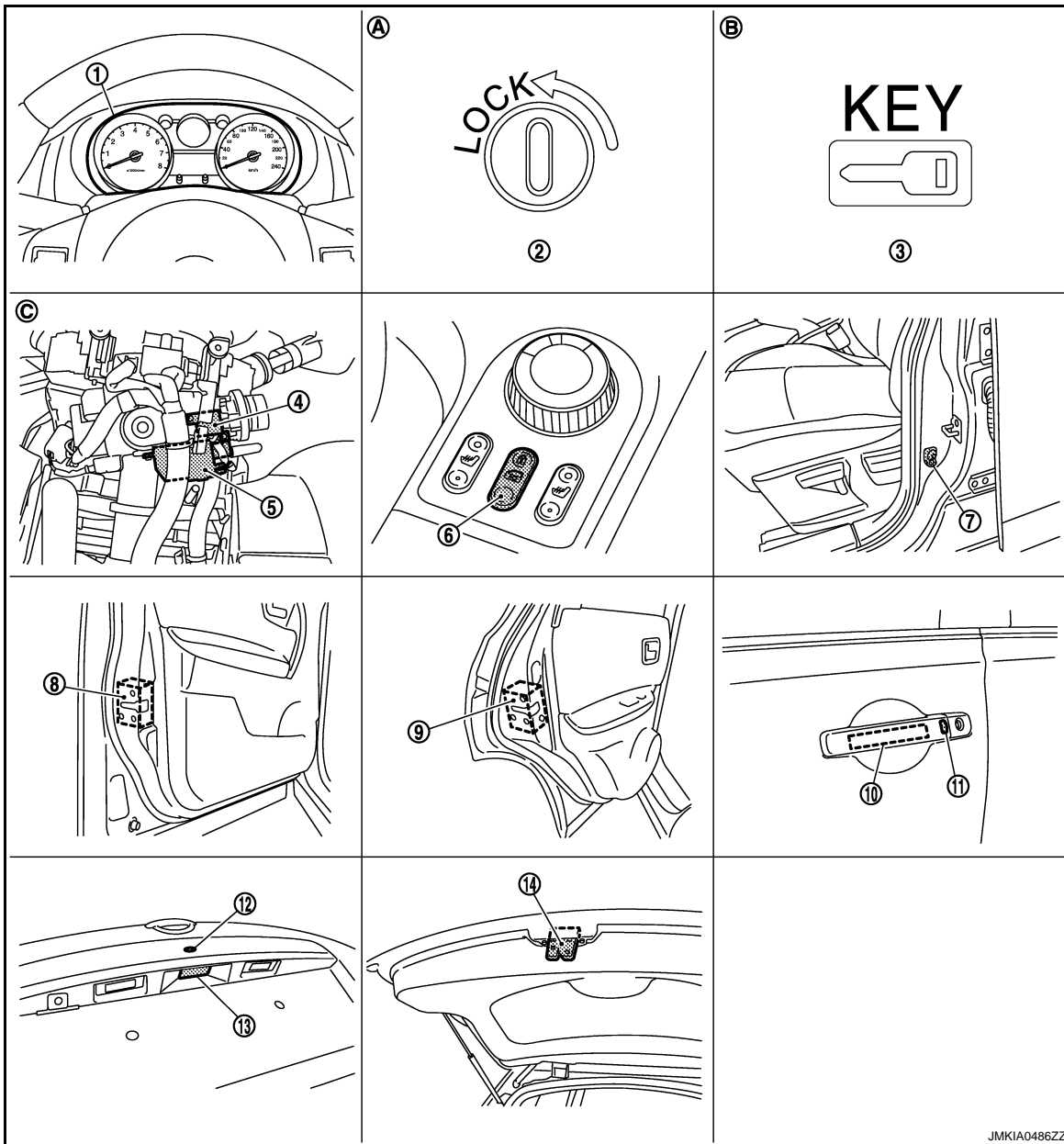
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DOOR LOCK FUNCTION

< 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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D9 | 9. Rear door lock actuator LH
D85 |
| 10. Outside key antenna (driver side)
D11 | 11. Front door request switch (driver side)
D10 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover removed |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR REQUEST SWITCH : Component Description

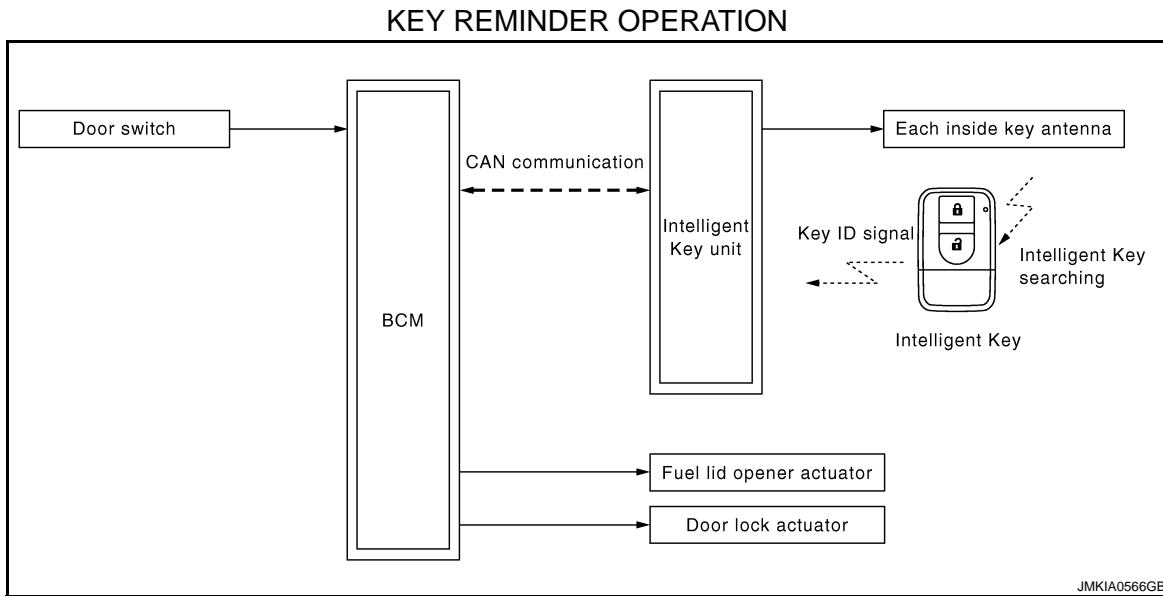
INFOID:000000001183547

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. Door lock actuator locks/unlocks each door.

KEY REMINDER

KEY REMINDER : System Diagram

INFOID:000000001183548



KEY REMINDER : System Description

INFOID:000000001183549

KEY REMINDER OPERATION

Key reminder have the following 2 functions.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

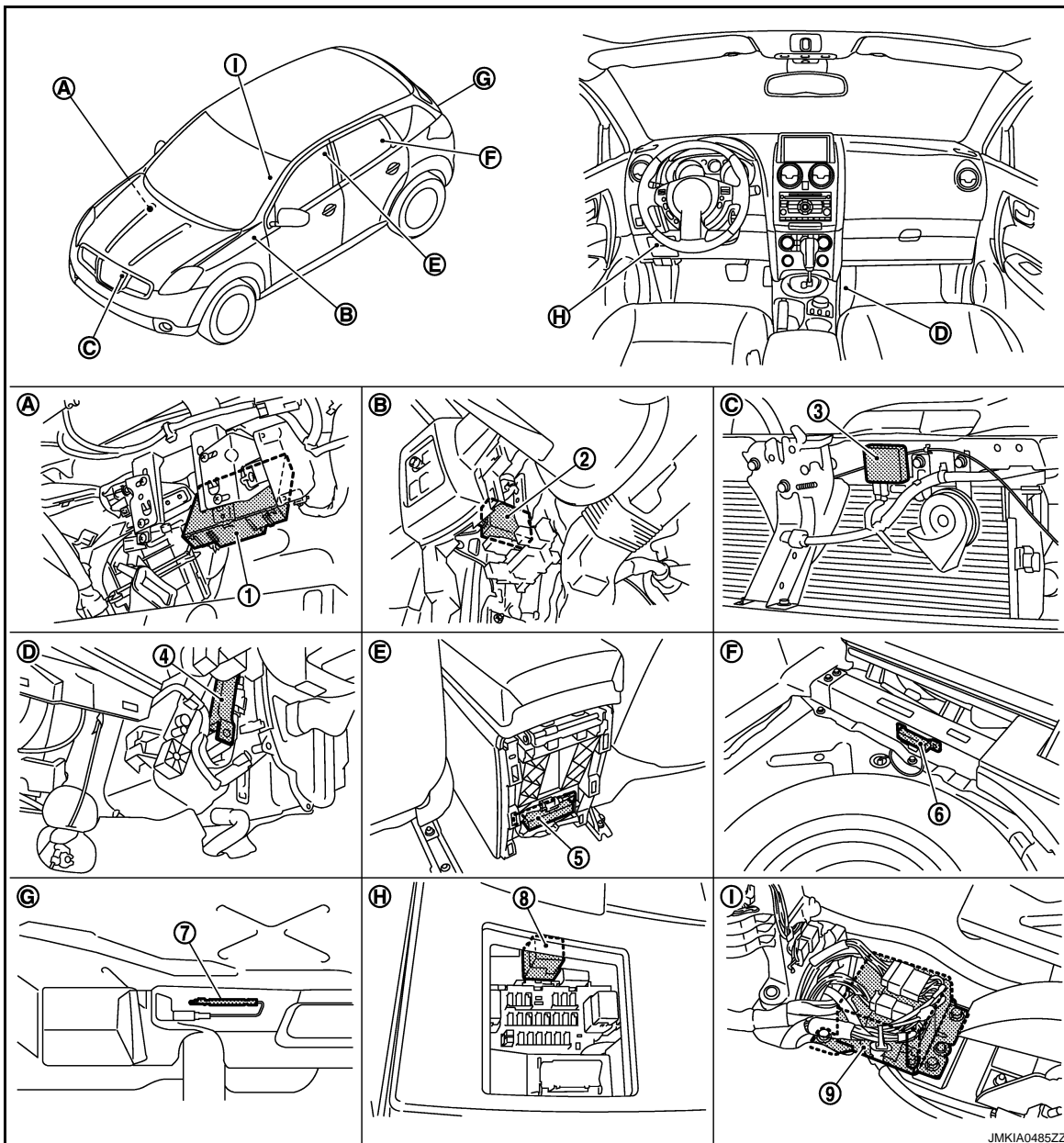
Operation	Operation condition	Operation
Driver door close	Right after driver side door is closed under the following conditions. <ul style="list-style-type: none"> • Door lock operation. • Driver side door is opened. • Driver side door is in unlock state. 	All doors unlock
Any door open to all doors 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

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:000000001544641



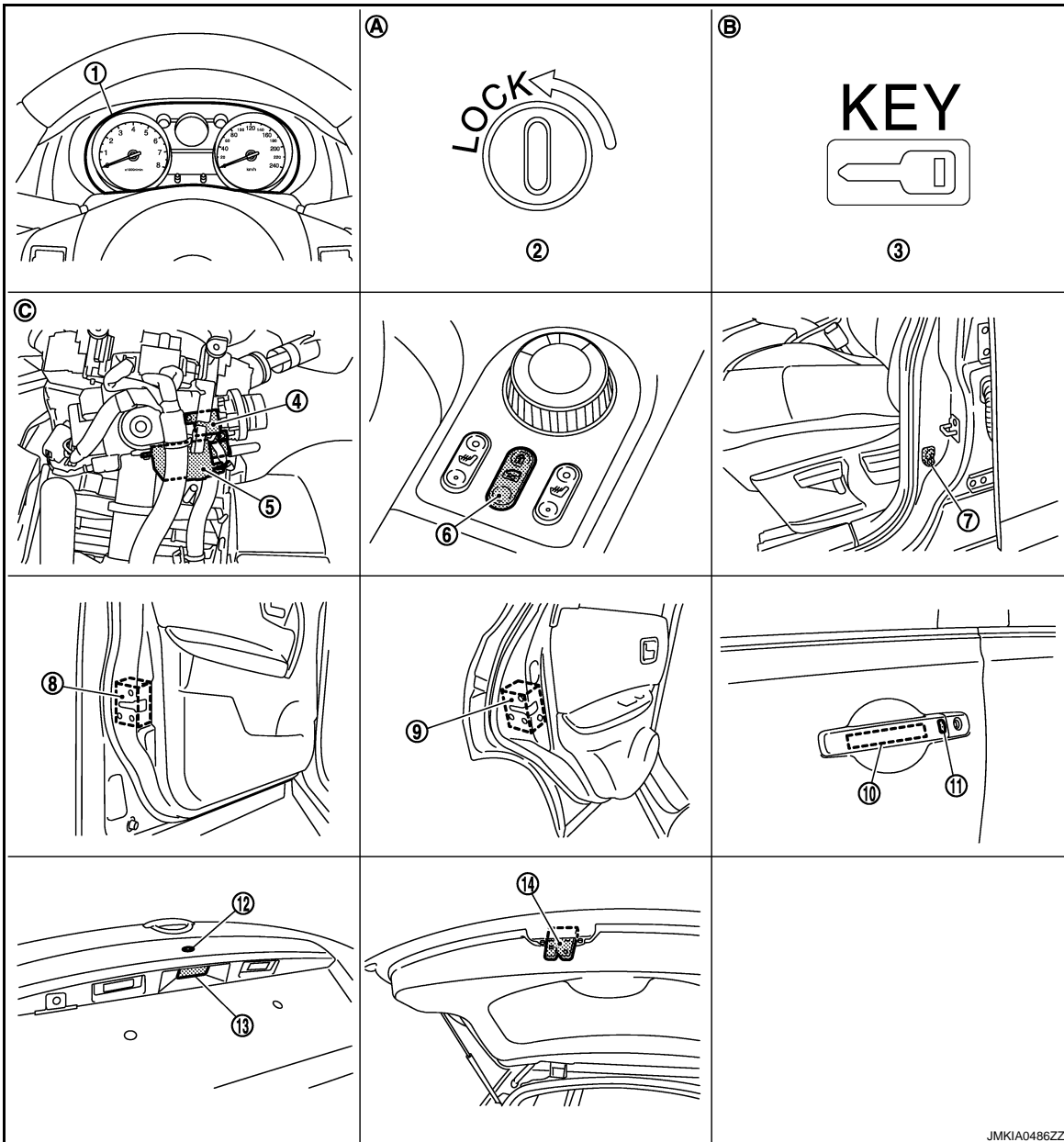
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DOOR LOCK FUNCTION

[WITH I-KEY, WITHOUT SUPER LOCK]

< FUNCTION DIAGNOSIS >

- | | | | |
|--|--|---|---|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 | A |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 | B |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. Air bag diagnosis sensor unit
M59 | C |
| A. Over the glove box | B. Over the instrument lower panel
(driver side) | C. View with front bumper removed | D |
| D. View with lower instrument cover
removed | E. View with center console rear finisher
removed | F. View with luggage floor spacer (LH)
removed | E |
| G. View with rear bumper fascia removed | H. View with fuse box lid removed | I. View with center console removed | F |
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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. Door lock and unlock switch
M89 |

DOOR LOCK FUNCTION

[WITH I-KEY, WITHOUT SUPER LOCK]

< FUNCTION DIAGNOSIS >

- | | | |
|--|--|--|
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D9 | 9. Rear door lock actuator LH
D85 |
| 10. Outside key antenna (driver side)
D11 | 11. Front door request switch (driver side)
D10 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover removed |

KEY REMINDER : Component Description

INFOID:000000001183551

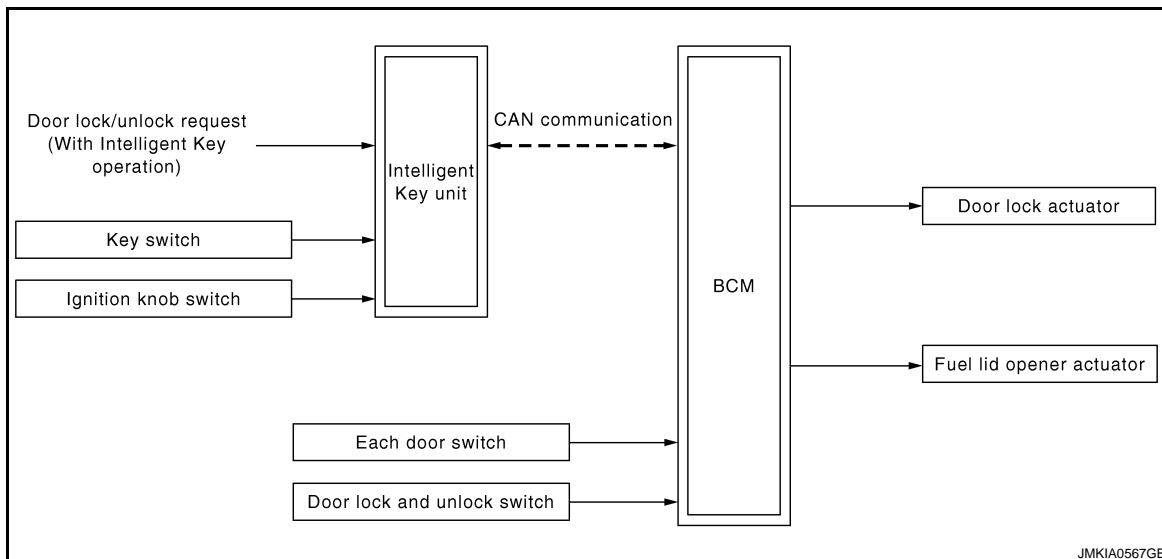
Item	Function
Intelligent Key unit	Controls the door lock function with BCM.
BCM	Controls the door lock and unlock operation with Intelligent Key unit.
Door switch	Detects door state (open or closed).
Inside key antenna	Detects that Intelligent Key is in detection area of inside key antenna.
Intelligent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

AUTO DOOR LOCK

AUTO DOOR LOCK : System Diagram

INFOID:000000001183552

AUTO DOOR LOCK OPERATION



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AUTO DOOR LOCK : System Description

INFOID:000000001183553

AUTO DOOR LOCK OPERATION

When all doors are locked and then doors are unlocked with Intelligent Key or door request switch, Intelligent Key unit 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-65. "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

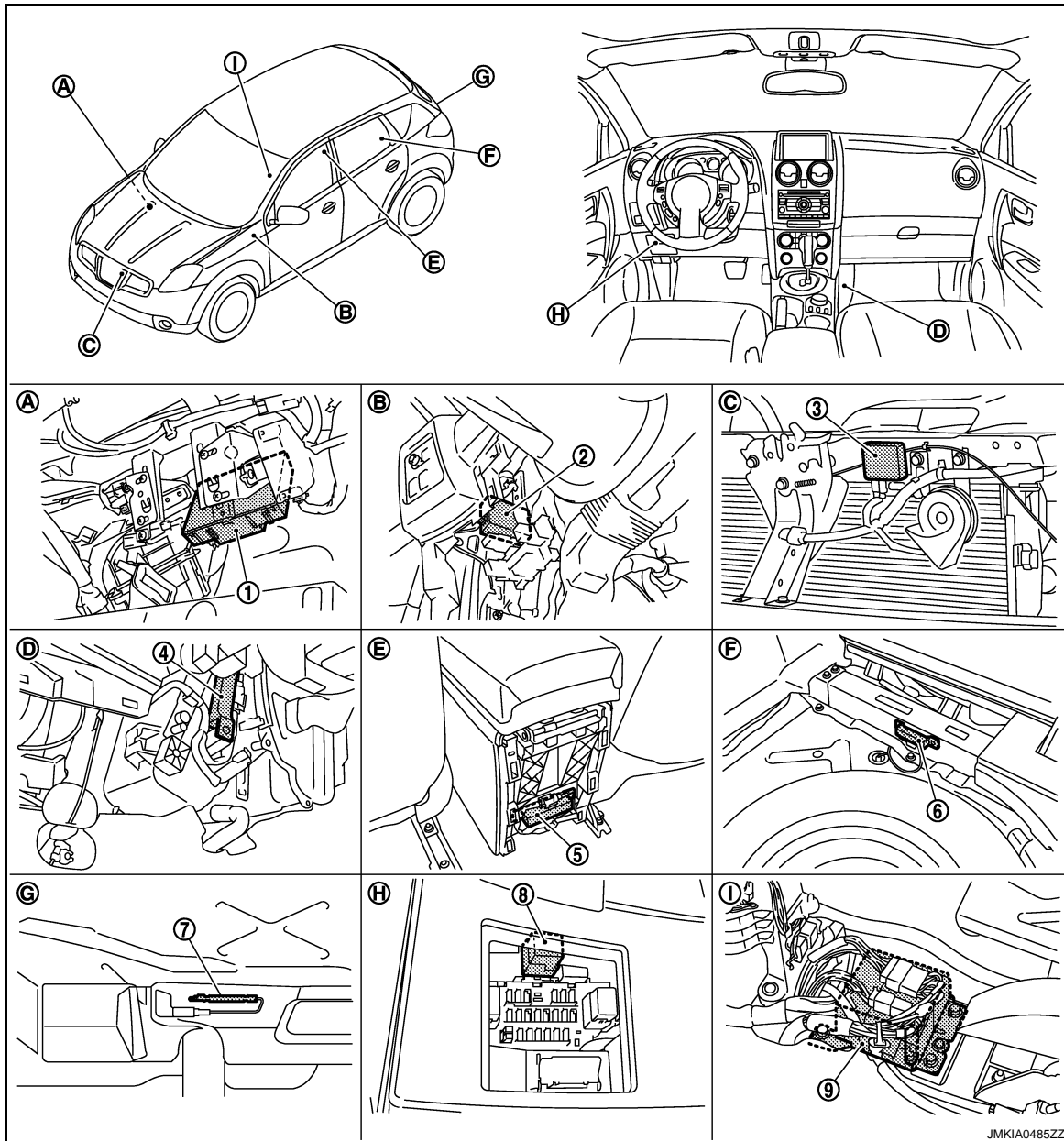
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

AUTO DOOR LOCK : Component Parts Location

INFOID:000000001544642



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|--|--|---|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console removed |

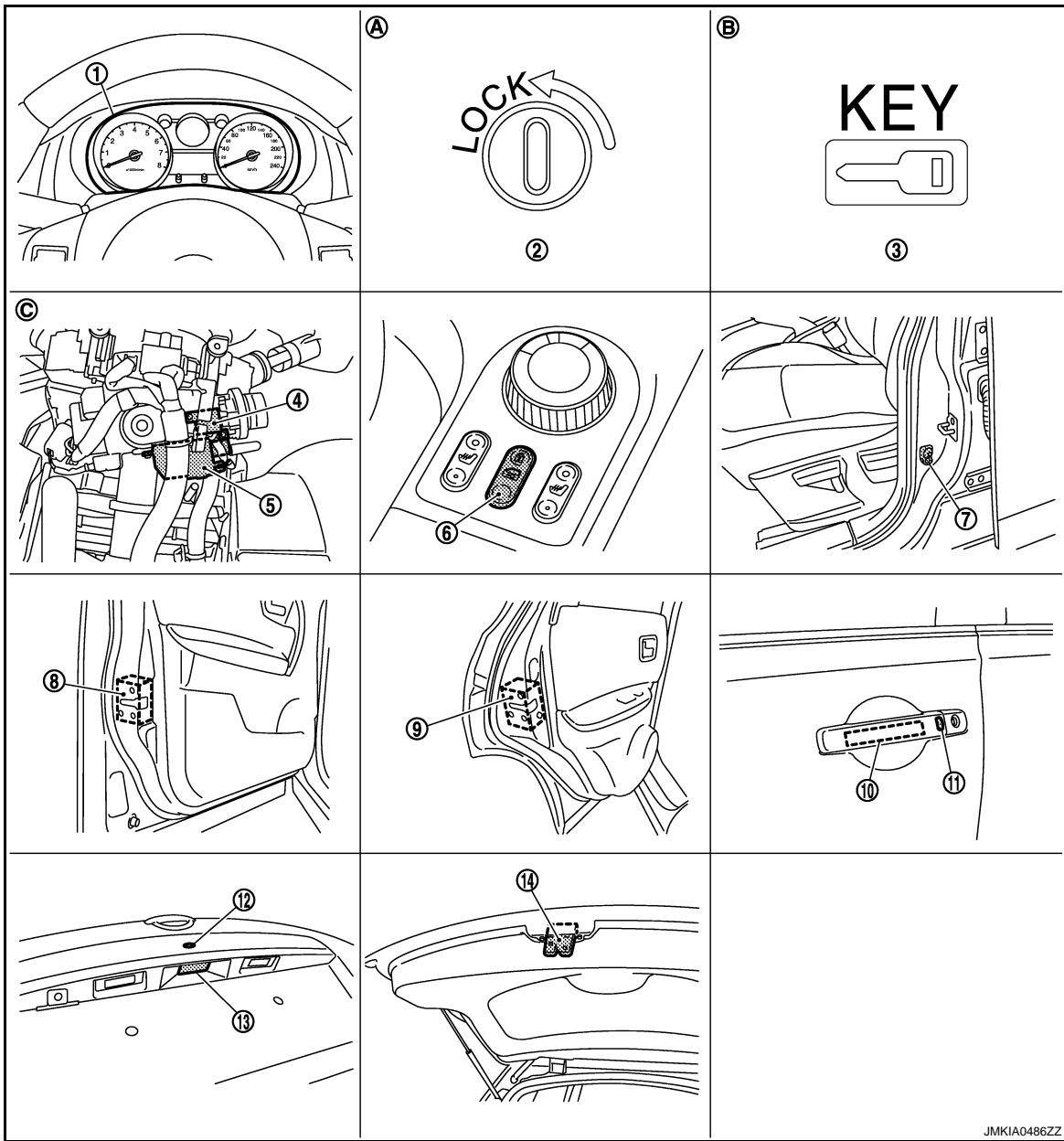
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DOOR LOCK FUNCTION

< 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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D9 | 9. Rear door lock actuator LH
D85 |
| 10. Outside key antenna (driver side)
D11 | 11. Front door request switch (driver side)
D10 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover removed |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

AUTO DOOR LOCK : Component Description

INFOID:000000001183555

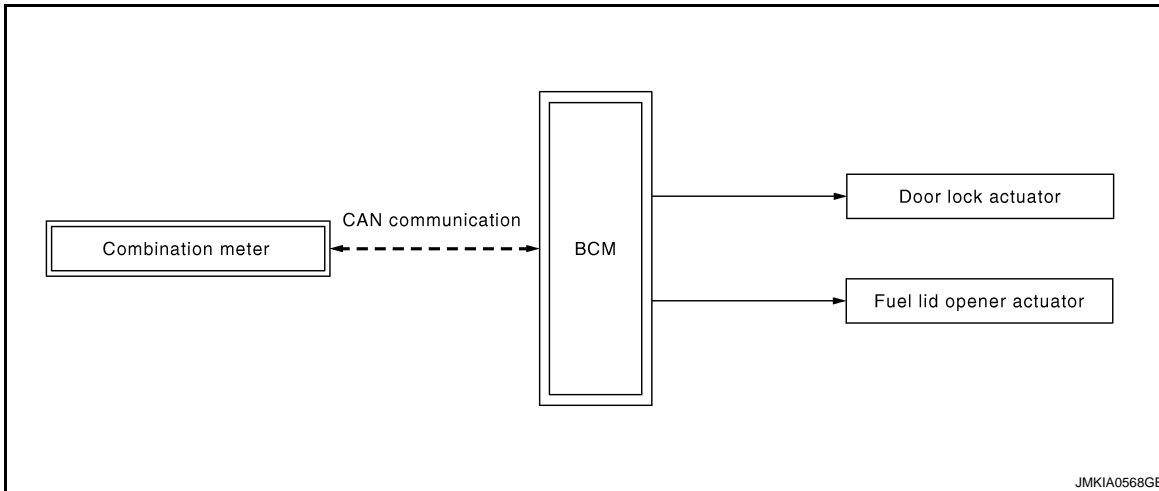
Item	Function
Intelligent Key unit	Controls the door lock function with BCM.
BCM	Controls the door lock function with Intelligent Key unit.
Door switch	Detects door state (open or closed).
Key switch	Detects that mechanical key is inserted into ignition key cylinder.
Ignition knob switch	Detects ignition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

VEHICLE SPEED SENSING AUTO DOOR LOCK

VEHICLE SPEED SENSING AUTO DOOR LOCK : System Diagram

INFOID:000000001183556

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION



VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description

INFOID:000000001183557

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.

CHANGE SETTING PROCEDURE

Vehicle speed sensing auto door lock function can be enabled/disabled with door lock and unlock switch.

1. Turn ignition switch ON.
2. Press and hold door lock/unlock switch (LOCK) for 5 seconds within 2 seconds after turn ignition switch ON.
3. Buzzer sounds for 1 second.

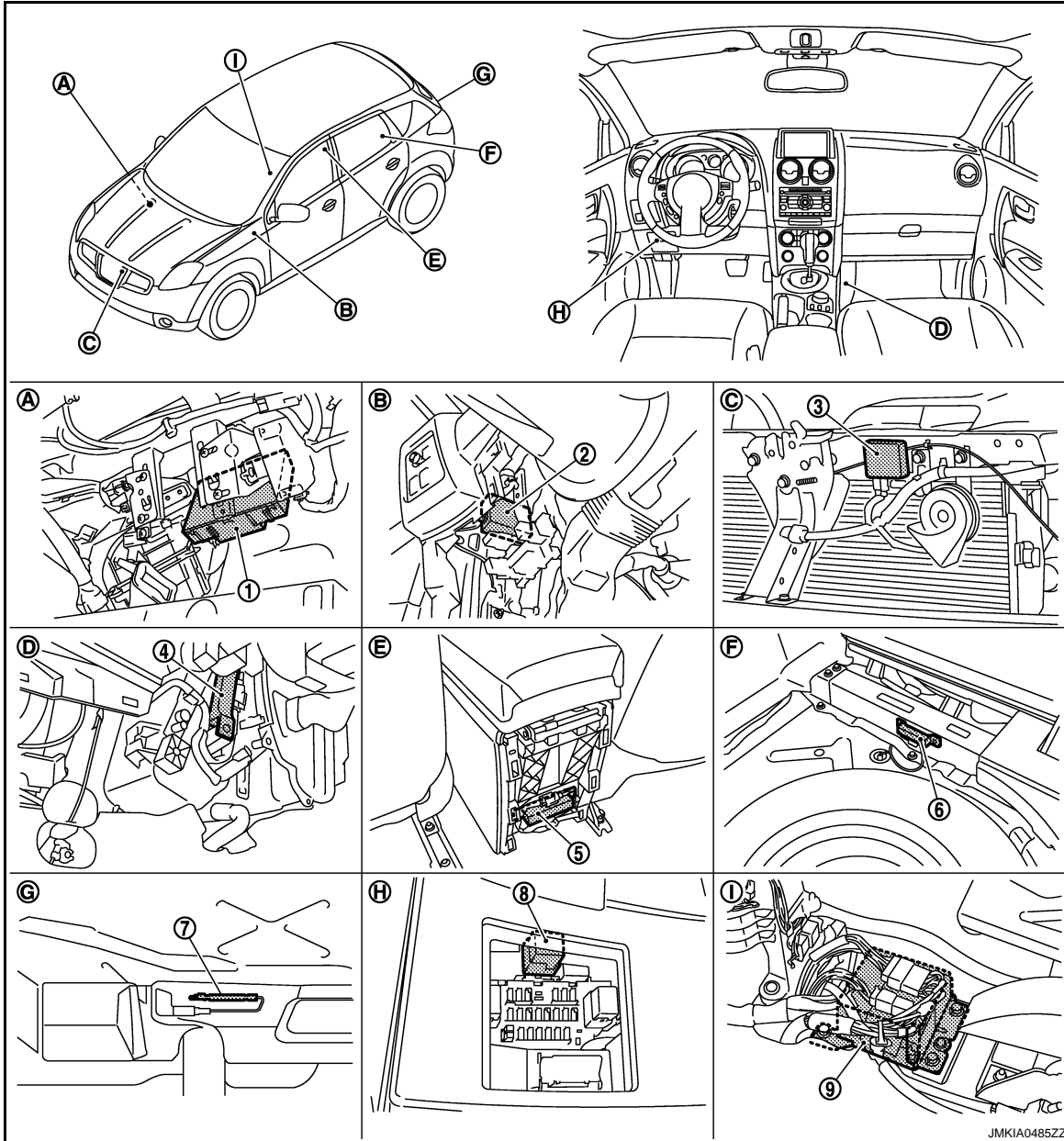
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Parts Location

INFOID:000000001544643

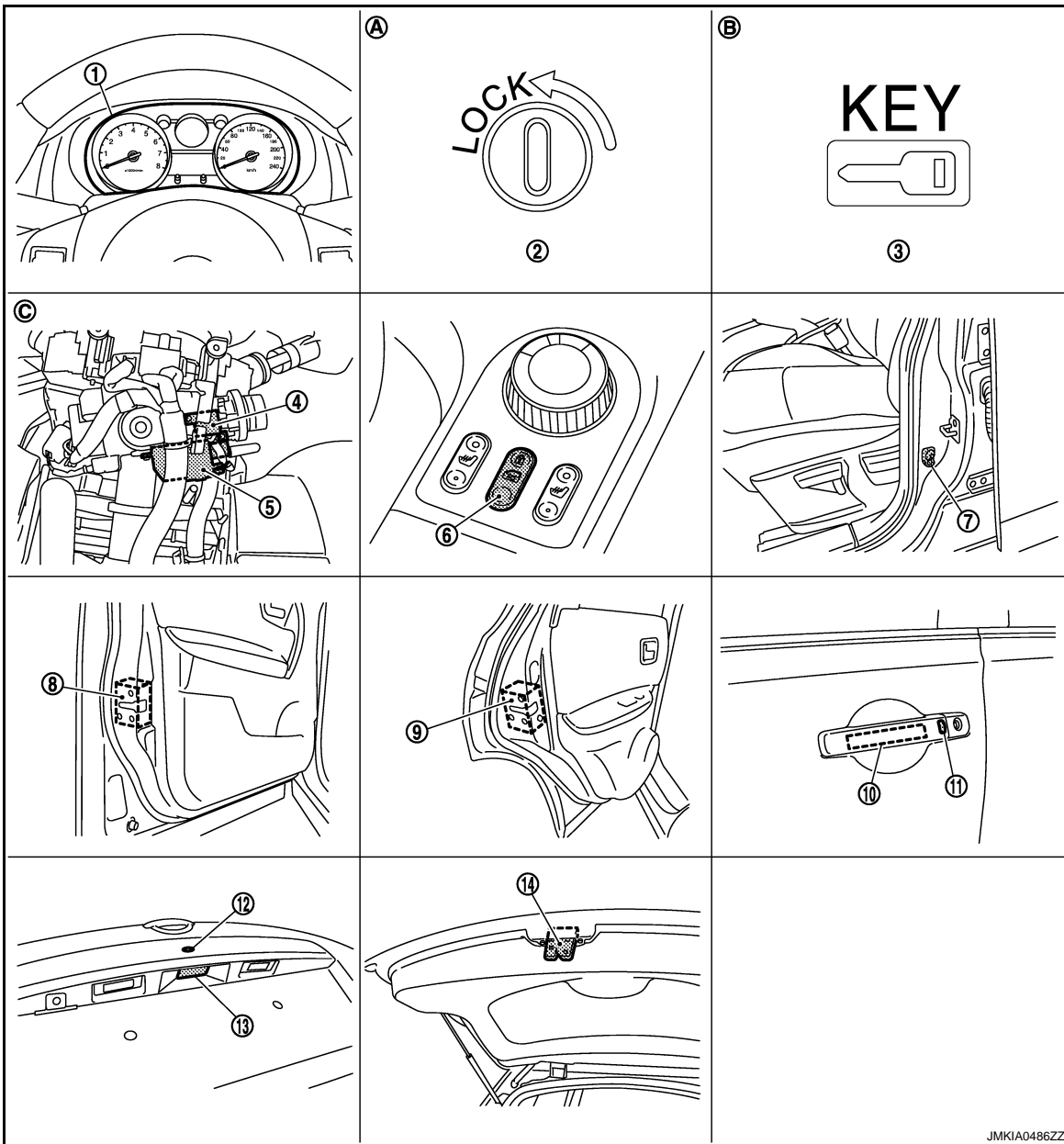


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|--|--|---|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console 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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D9 | 9. Rear door lock actuator LH
D85 |
| 10. Outside key antenna (driver side)
D11 | 11. Front door request switch (driver side)
D10 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover 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:000000001183559

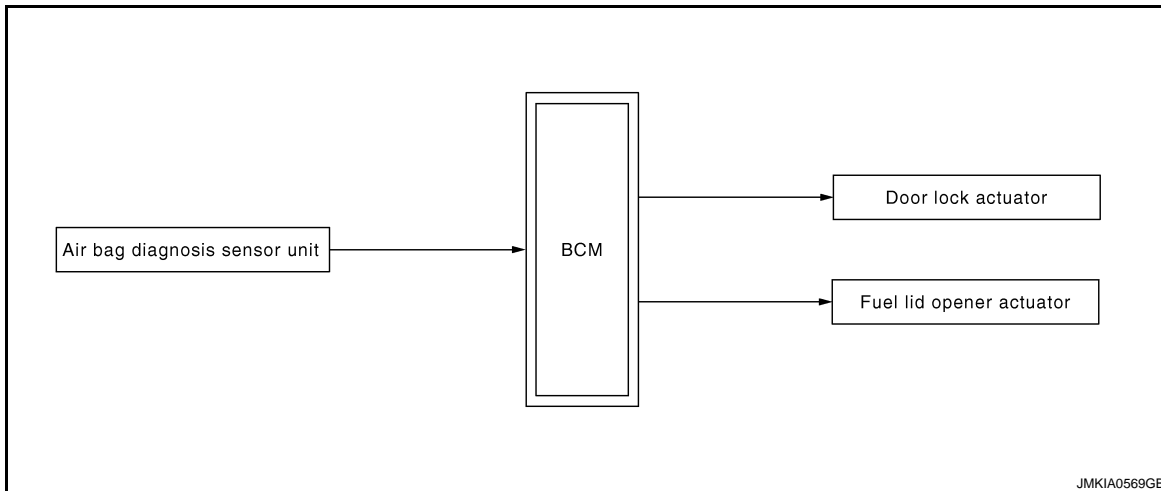
Item	Function
BCM	Controls the door lock/unlock function.
Combination meter	Transmits vehicle speed signal to BCM via CAN communication.
Door lock actuator	Receives door lock and unlock signal from BCM. Door lock actuator locks and unlocks each door.

AIR BAG INTERLOCK UNLOCK

AIR BAG INTERLOCK UNLOCK : System Diagram

INFOID:000000001183560

AIR BAG INTERLOCK UNLOCK OPERATION



AIR BAG INTERLOCK UNLOCK : System Description

INFOID:000000001183561

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.

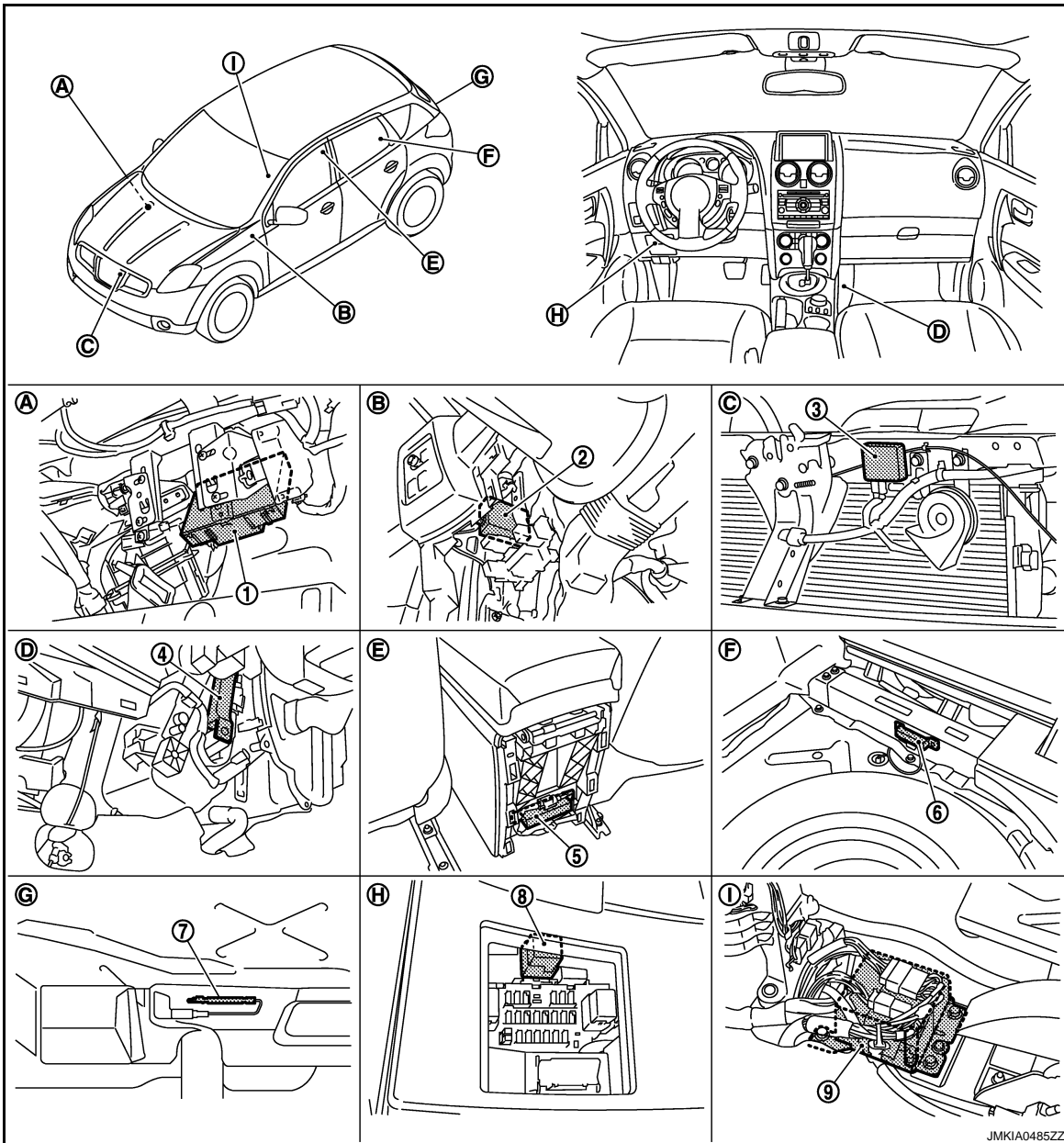
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

AIR BAG INTERLOCK UNLOCK : Component Parts Location

INFOID:000000001544644



- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console removed |

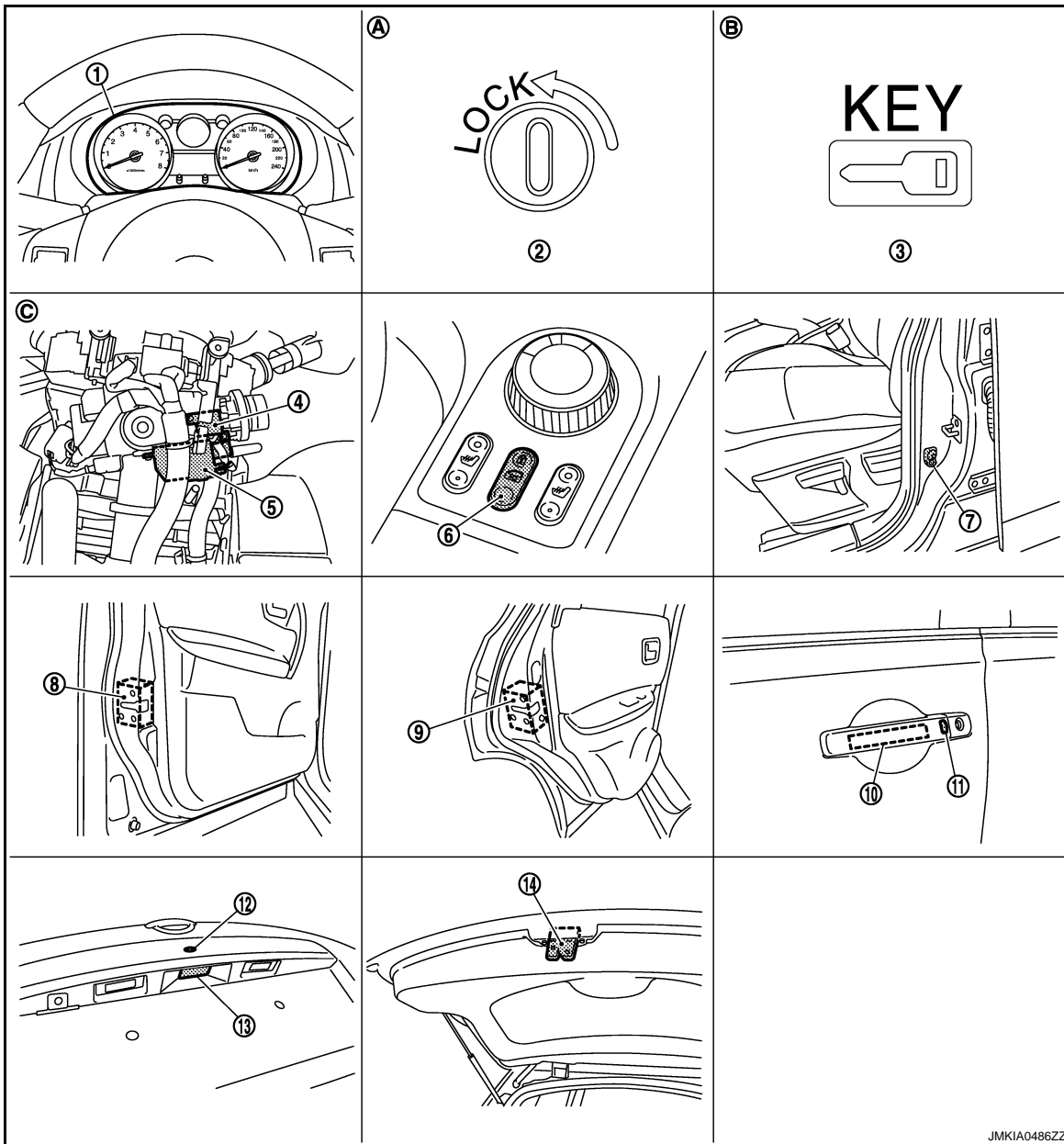
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DOOR LOCK FUNCTION

< 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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D9 | 9. Rear door lock actuator LH
D85 |
| 10. Outside key antenna (driver side)
D11 | 11. Front door request switch (driver side)
D10 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover removed |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

AIR BAG INTERLOCK UNLOCK : Component Description

INFOID:000000001183563

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. Door lock actuator unlocks each door.

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BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

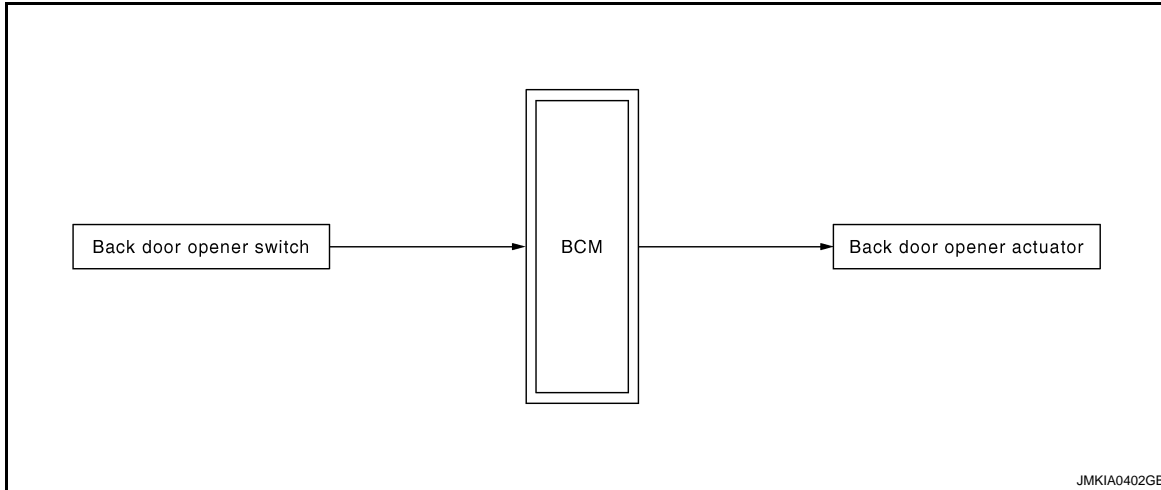
BACK DOOR OPENER FUNCTION

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : System Diagram

INFOID:000000001183564

BACK DOOR OPENER OPERATION



BACK DOOR OPENER SWITCH : System Description

INFOID:000000001183565

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.

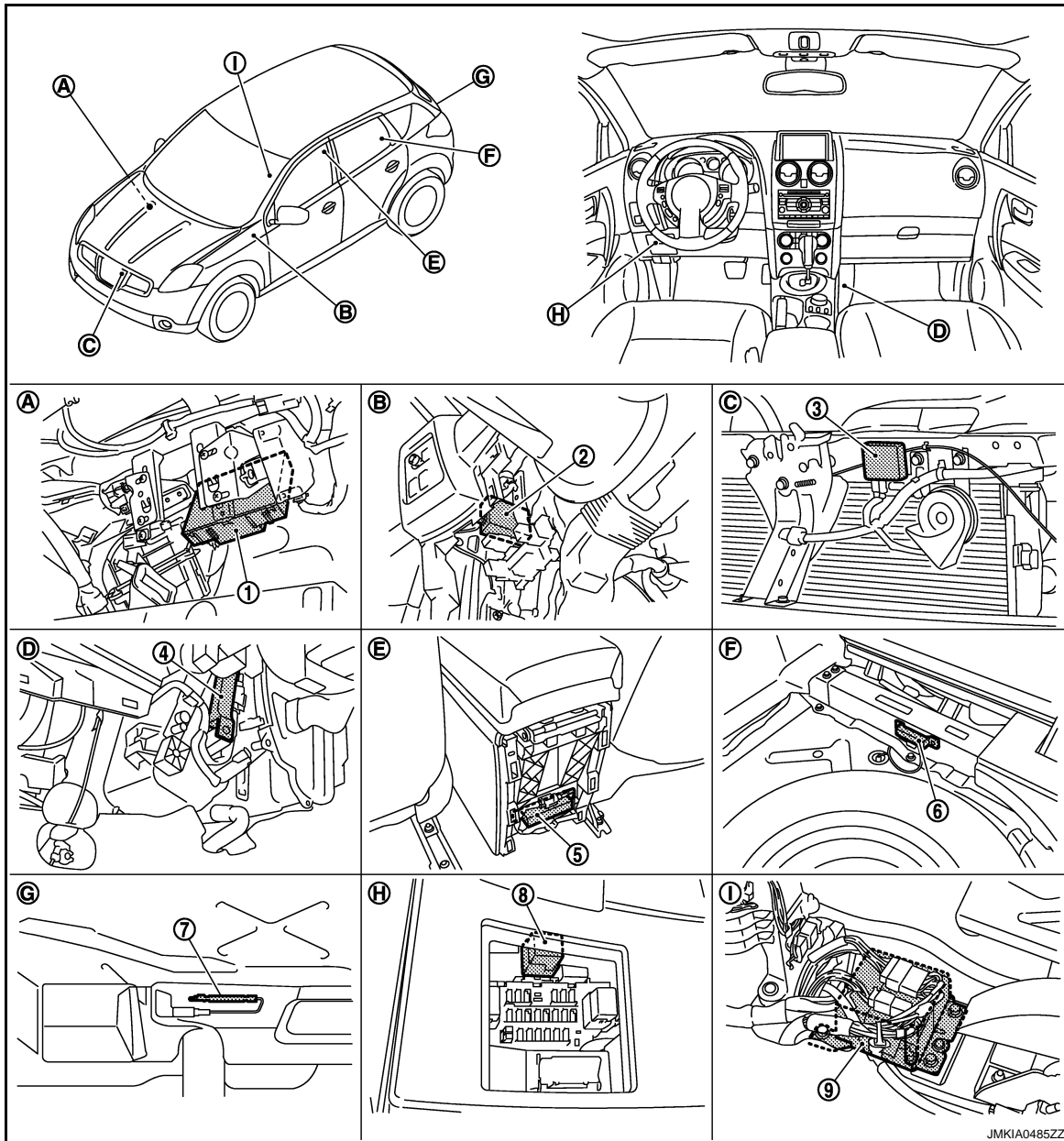
BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR OPENER SWITCH : Component Parts Location

INFOID:000000001544645



- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console removed |

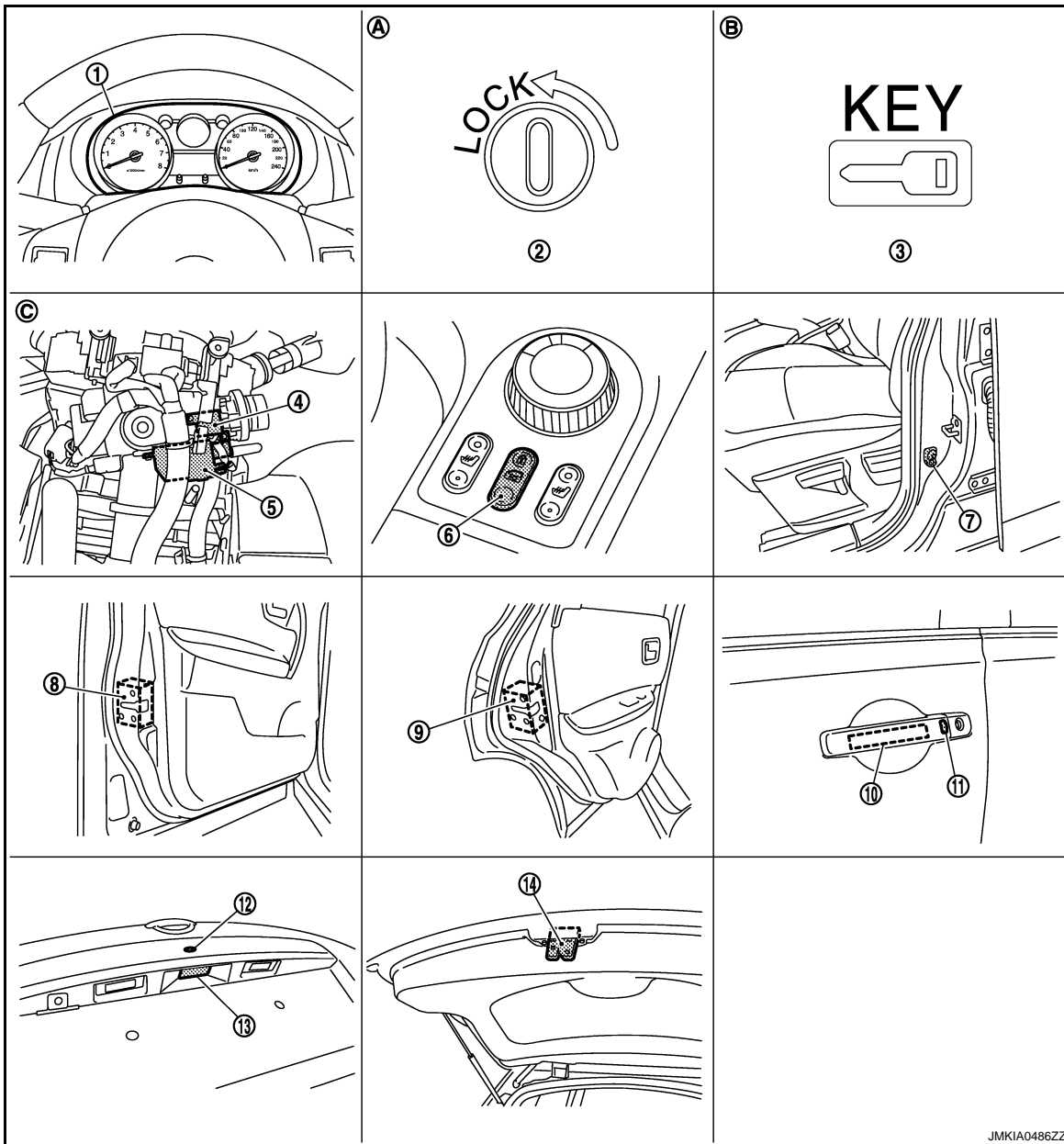
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BACK DOOR OPENER FUNCTION

< 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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D9 | 9. Rear door lock actuator LH
D85 |
| 10. Outside key antenna (driver side)
D11 | 11. Front door request switch (driver side)
D10 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover removed |

BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR OPENER SWITCH : Component Description

INFOID:000000001183567

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

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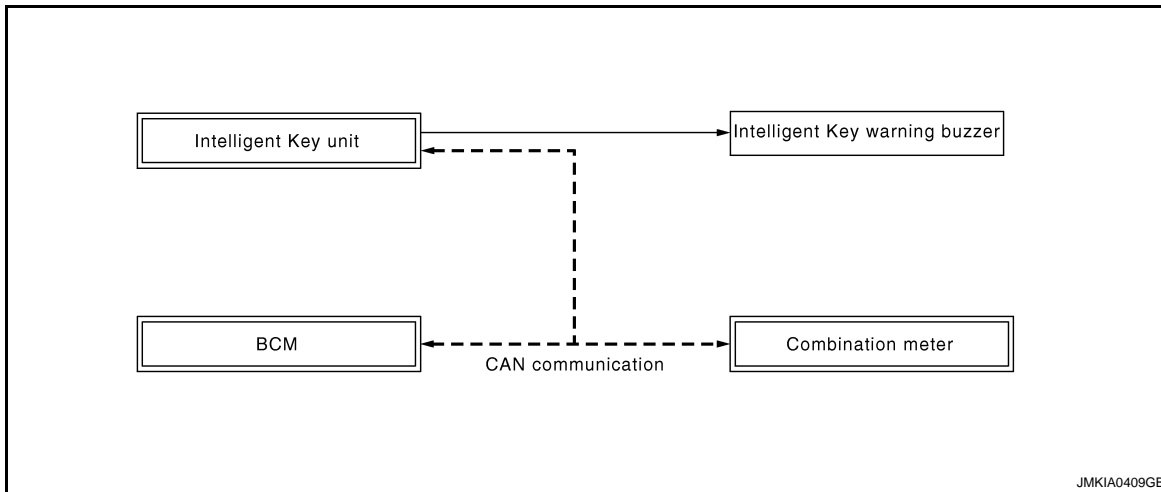
[WITH I-KEY, WITHOUT SUPER LOCK]

WARNING FUNCTION

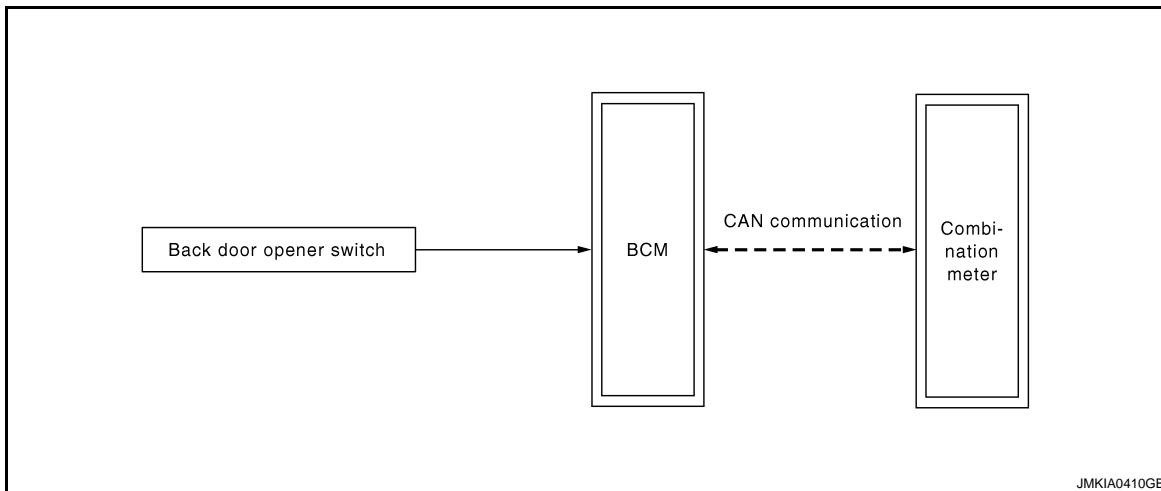
System Diagram

INFOID:000000001183568

INTELLIGENT KEY WARNING OPERATION



BACK DOOR OPEN WARNING OPERATION



System Description

INFOID:000000001183569

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. 1 second 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 (pipipipi...)	—

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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 pressed (lock operation) under the following conditions. <ul style="list-style-type: none"> • Door switch: ON (Any door is open). • Ignition switch is in ACC 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)	—	—

*: The factory setting for this function is OFF.

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 pressed 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 pressed. (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.

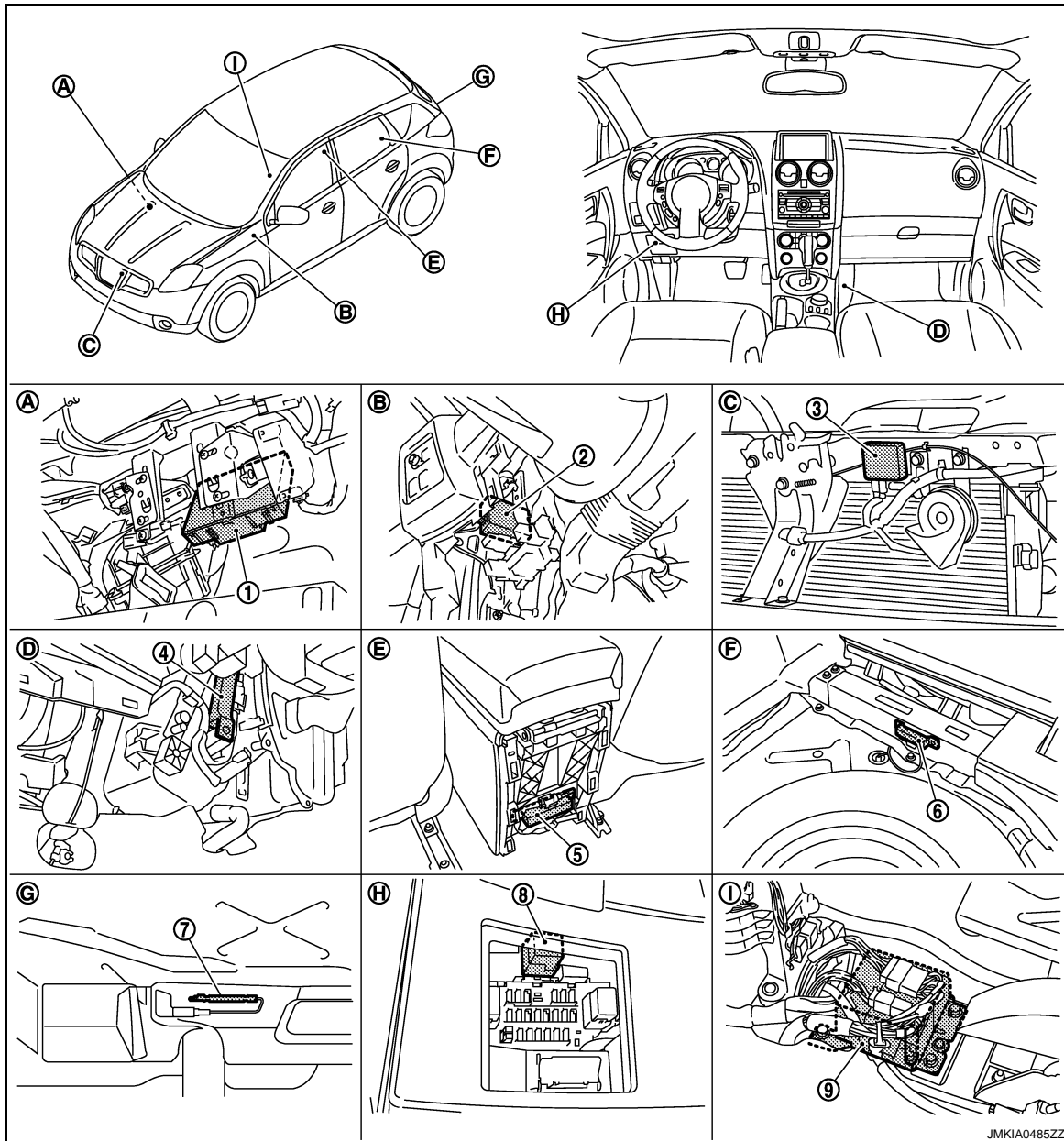
WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Component Parts Location

INFOID:000000001544646



- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console removed |

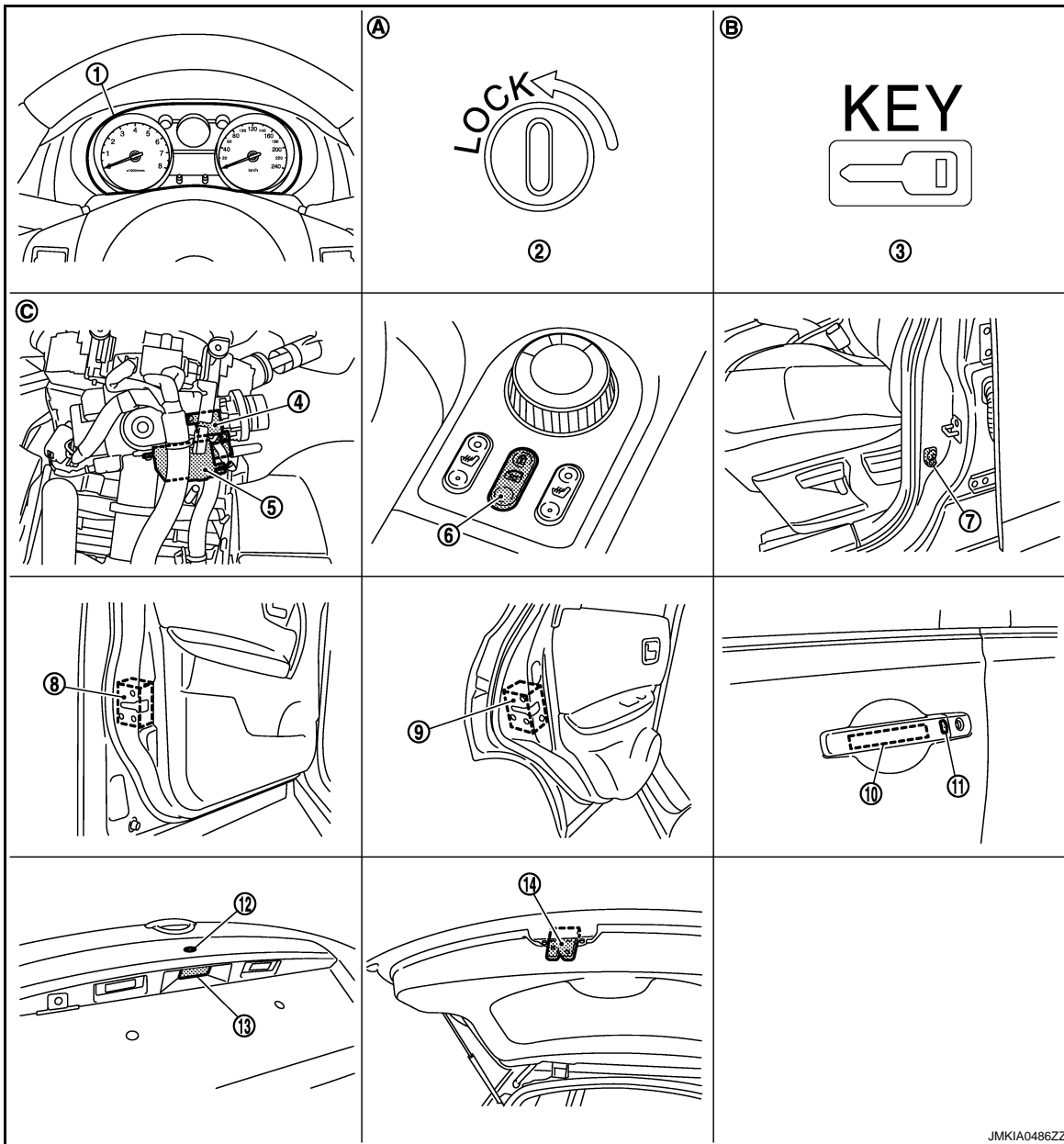
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WARNING FUNCTION

< 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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D9 | 9. Rear door lock actuator LH
D85 |
| 10. Outside key antenna (driver side)
D11 | 11. Front door request switch (driver side)
D10 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover removed |

WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Component Description

INFOID:000000001183571

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

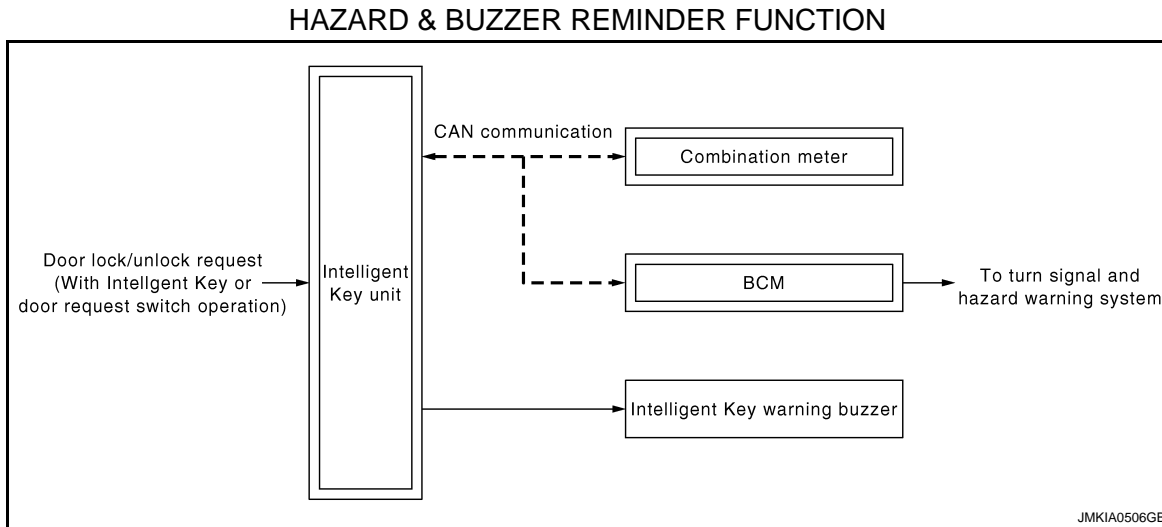
< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

HAZARD AND BUZZER REMINDER FUNCTION

System Diagram

INFOID:000000001183572



System Description

INFOID:000000001183573

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-65. "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 >

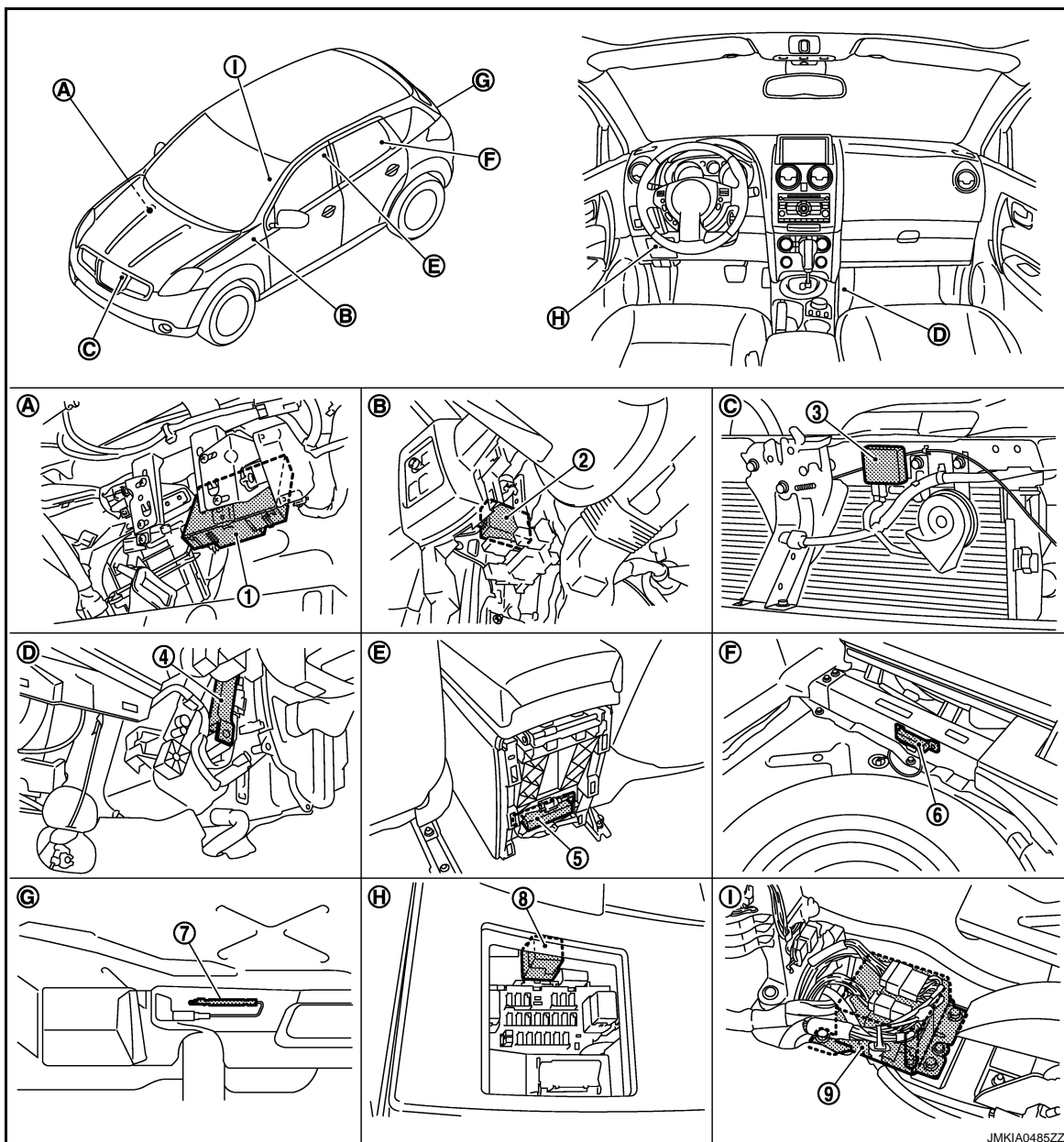
[WITH I-KEY, WITHOUT SUPER LOCK]

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	—

*: The factory setting for these function are OFF.

Component Parts Location

INFOID:000000001544647



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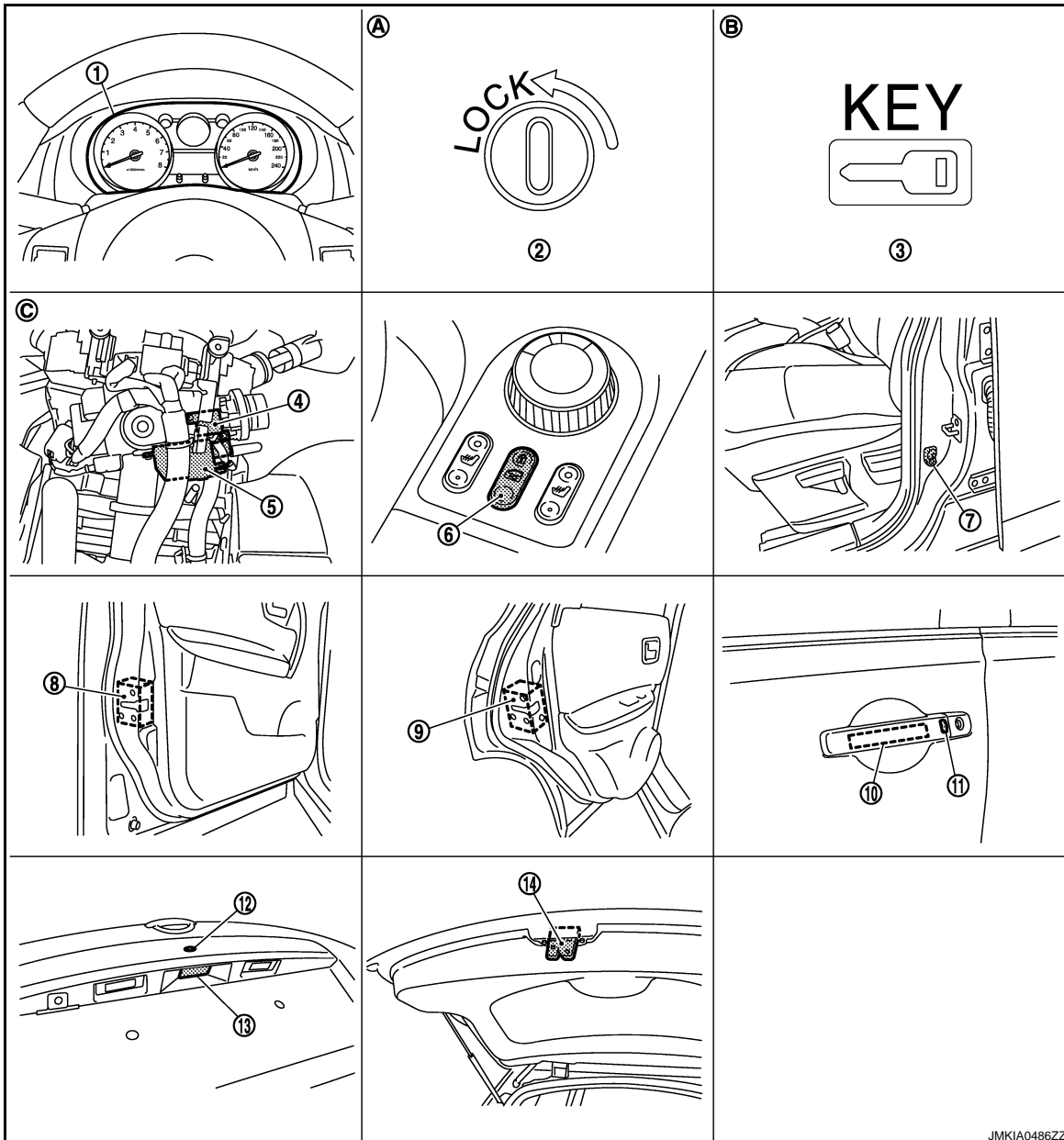
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HAZARD AND BUZZER REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

- | | | |
|--|--|---|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. 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. Door lock and unlock switch
M89 |

HAZARD AND BUZZER REMINDER FUNCTION

[WITH I-KEY, WITHOUT SUPER LOCK]

< FUNCTION DIAGNOSIS >

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|--|--|--|
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D9 | 9. Rear door lock actuator LH
D85 |
| 10. Outside key antenna (driver side)
D11 | 11. Front door request switch (driver side)
D10 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover removed |

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Component Description

INFOID:000000001183575

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, WITHOUT SUPER LOCK]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:000000001559278

APPLICATION ITEM

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

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to BCS-62. "DTC Index" .
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	<ul style="list-style-type: none">Enables to read and save the vehicle specification.Enables to write the vehicle specification when replacing 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	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	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 system	PTC HEATER		×	×

DOOR LOCK

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

INFOID:000000001183577

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

[WITH I-KEY, WITHOUT SUPER LOCK]

< FUNCTION DIAGNOSIS >

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 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

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

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

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

INFOID:000000001183578

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:000000001183579

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:000000001183580

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 when there is intelligent key in the passenger compartment 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-58 .	
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

*: The factory setting

SELF-DIAG RESULT

Refer to [DLK-163, "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.</p> <p>When the following condition are met, LED (on Intelligent Key) flashes.</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 M/T 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:000000001183581

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-28, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001183582

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:000000001183583

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 >

[WITH I-KEY, WITHOUT SUPER LOCK]

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000001183584

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-28, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001183585

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:000000001183586

1. REPLACE INTELLIGENT KEY UNIT

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

>> Replace Intelligent Key unit.

Special Repair Requirement

INFOID:000000001183587

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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B2552 INTELLIGENT KEY

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

B2552 INTELLIGENT KEY

Description

INFOID:000000001183588

Intelligent key unit performs engine start operation and steering lock control by crosschecking ID with the Intelligent key.

DTC Logic

INFOID:000000001183589

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2552	INTELLIGENT KEY UNIT	Malfunction is detected inside Intelligent key unit.	<ul style="list-style-type: none">Intelligent Key unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self diagnostic result" with CONSULT-III.

Is DTC detected?

- YES >> Refer to [DLK-70, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000001183590

1.REPLACE INTELLIGENT KEY UNIT

1. Replace Intelligent Key unit.
2. Perform initialization with CONSULT-III. Re-register all mechanical keys. Refer to "CONSULT-III Operation Manual NATS".
3. Start the engine.

Does the engine start?

- YES >> INSPECTION END
NO >> Perform "DTC confirmation procedure". Refer to [DLK-70, "DTC Logic"](#).

Special Repair Requirement

INFOID:000000001183591

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 >

[WITH I-KEY, WITHOUT SUPER LOCK]

POWER SUPPLY AND GROUND CIRCUIT

INTELLIGENT KEY UNIT

INTELLIGENT KEY UNIT : Diagnosis Procedure

INFOID:000000001183592

1.CHECK FUSE AND FUSIBLE LINK

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
11	Battery power supply	9 (10A)
6	Ignition power supply	4 (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. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit connector.
3. Turn ignition switch ON.
4. Check voltage between Intelligent Key unit harness connector and ground.

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

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:000000001183593

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	9 (10A)
57		J (40A)

Is the fuse fusing?

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POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

- 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		Voltage (Approx.)
(+)	(-)	
BCM		Ground
Connector	Terminal	
M66	41	
M67	57	Battery voltage

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		Existed
M67	55		Existed

Does continuity exist?

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

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH

Description

INFOID:000000001183594

Transmits door lock/unlock operation to BCM.

Component Function Check

INFOID:000000001183595

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?

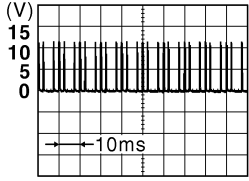
- YES >> Door lock and unlock switch is OK.
- NO >> Refer to [DLK-73. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183596

1. CHECK DOOR LOCK AND UNLOCK INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect door lock and unlock switch connector.
3. Check signal between door lock and unlock switch harness connector and ground with oscilloscope.

Terminal		Signal (Reference value)
(+)	(-)	
Door lock and unlock switch connector	Terminal	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
M89	1 6	
	Ground	

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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. Disconnect BCM 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	7	M89	6	Exists
	9		1	

3. Check continuity between BCM harness connector and ground.

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BCM connector	Terminal	Ground	Continuity	
M65	7			Does not exist
	9			

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.

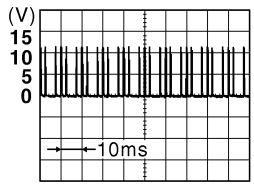
Door lock and unlock switch connector	Terminal	Ground	Continuity
M89	5		

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 signal between BCM harness connector and ground with oscilloscope.

Terminal		Signal (Reference value)
(+)	(-)	
BCM connector	Terminal	 <p style="text-align: right; font-size: small;">JPMAI0154GB</p>
M65	7	
	9	
	Ground	

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
- NO >> Replace BCM. Refer to [BCS-65. "Exploded View"](#).

5. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch
Refer to [DLK-74. "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
- NO >> Replace door lock and unlock switch. Refer to [DLK-278. "Exploded View"](#).

Component Inspection

INFOID:000000001183597

1. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Door lock and unlock switch	Terminal		Condition	Continuity
M89	6	5	LOCK	Exists
	1		UNLOCK	

Is the inspection result normal?

- YES >> Door lock and unlock switch is OK.
- NO >> Replace door lock and unlock switch. Refer to [DLK-278. "Exploded View"](#).

DOOR LOCK AND UNLOCK SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH INDICATOR

Description

INFOID:000000001183598

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:000000001183599

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-75, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183600

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	4		

Is the inspection result normal?

- YES >> GO TO 5.
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	24	M89	4	Exists

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	24		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, WITHOUT SUPER LOCK]

Door lock and unlock switch connector	Terminal	Ground	Continuity
M89	5		Exists

Is the inspection result normal?

- YES >> GO TO 4.
 NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

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

Terminal		Condition	Voltage (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	24	Ground	
		Door lock operation is accomplished	Battery voltage
		Any door is OPEN	0

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
 NO >> Replace BCM. Refer to [BCS-65. "Exploded View"](#).

5. CHECK DOOR LOCK AND UNLOCK SWITCH INDICATOR

Check door lock and unlock switch
 Refer to [DLK-76. "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
 NO >> Replace door lock and unlock switch. Refer to [DLK-278. "Exploded View"](#).

Component Inspection

INFOID:000000001183601

1. CHECK DOOR LOCK AND UNLOCK SWITCH INDICATOR

Check continuity door lock and unlock switch.

Door lock and unlock switch	Terminal		Continuity
	(+)	(-)	
M89	5	4	Exists
	4	5	Does not exist

Is the inspection result normal?

- YES >> Door lock and unlock switch is OK.
 NO >> Replace door lock and unlock switch. Refer to [DLK-278. "Exploded View"](#).

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001183602

Transmits lock/unlock operation to Intelligent Key unit.

DRIVER SIDE : Component Function Check

INFOID:000000001183603

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:000000001183604

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 5.

NO >> GO TO 2.

2.CHECK FRONT DOOR REQUEST SWITCH CIRCUIT

1. Disconnect Intelligent Key unit.
2. Check continuity between Intelligent Key unit harness connector and door request switch harness connector.

Intelligent Key unit connector	Terminal	Door request switch connector	Terminal	Continuity
M40	5	D10	1	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 front outside handle.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

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DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Check continuity between door request switch harness connector and ground.

Door request switch connector	Terminal	Ground	Continuity
D10	2		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace front outside handle 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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 6.

5.CHECK DOOR REQUEST SWITCH

Check door request switch.

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

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace malfunctioning front outside handle. Refer to [DLK-258, "OUTSIDE HANDLE : Removal and Installation"](#).

6.REPLACE INTELLIGENT KEY UNIT

Replace Intelligent Key unit.

Refer to [DLK-280, "Exploded View"](#).

NOTE:

Perform the system initialization when replacing Intelligent Key unit.

Refer to [DLK-23, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:000000001183605

1.CHECK DOOR REQUEST SWITCH

Check door request switch.

Terminal		Door request switch condition	Continuity
Door request switch			
1	2	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Replace malfunctioning front outside handle. Refer to [DLK-258, "OUTSIDE HANDLE : Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001183606

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:000000001183607

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-79. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001183608

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 5.

NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect Intelligent Key unit.
2. Check continuity between Intelligent Key unit harness connector and door request switch harness connector.

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Intelligent Key unit connector	Terminal	Door request switch connector	Terminal	Continuity
M40	25	D49	1	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 front outside handle.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between front door request switch harness connector and ground.

Door request switch connector	Terminal	Ground	Continuity
D49	2		Exists

Is the inspection result normal?

DOOR REQUEST SWITCH

[WITH I-KEY, WITHOUT SUPER LOCK]

< COMPONENT DIAGNOSIS >

- YES >> GO TO 4.
NO >> Repair or replace front outside handle 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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> GO TO 6.

5.CHECK DOOR REQUEST SWITCH

Check door request switch.

Refer to [DLK-80, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> Replace malfunctioning front outside handle. Refer to [DLK-258, "OUTSIDE HANDLE : Removal and Installation"](#).

6.REPLACE INTELLIGENT KEY UNIT

Replace Intelligent Key unit.

Refer to [DLK-280, "Exploded View"](#).

NOTE:

Perform the system initialization when replacing Intelligent Key unit.

Refer to [DLK-23, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000001183609

1.CHECK DOOR REQUEST SWITCH

Check door request switch.

Terminal		Door request switch condition	Continuity
Door request switch			
1	2	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door request switch is OK.
NO >> Replace malfunctioning front outside handle. Refer to [DLK-258, "OUTSIDE HANDLE : Removal and Installation"](#).

BACK DOOR

BACK DOOR : Description

INFOID:000000001183610

Transmits lock/unlock operation to Intelligent Key unit.

BACK DOOR : Component Function Check

INFOID:000000001183611

1.CHECK FUNCTION

With CONSULT-III

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

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

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:000000001183612

1.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect Intelligent Key unit.
2. Check continuity between Intelligent Key unit harness connector and door request switch harness connector.

Intelligent Key unit connector	Terminal	Door request switch connector	Terminal	Continuity
M40	29	D187	1	Exists

3. 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 request switch.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

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

Door request switch connector	Terminal	Ground	Continuity
D187	2		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace back door 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.

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DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

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

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
NO >> GO TO 6.

5.CHECK DOOR REQUEST SWITCH

Check door request switch.

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

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
NO >> Replace back door request switch. Refer to [DLK-276. "Exploded View"](#).

6.REPLACE INTELLIGENT KEY UNIT

Replace Intelligent Key unit.

Refer to [DLK-280. "Exploded View"](#).

NOTE:

Perform the system initialization when replacing Intelligent Key unit.

Refer to [DLK-23. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

>> INSPECTION END

BACK DOOR : Component Inspection

INFOID:000000001183613

1.CHECK DOOR REQUEST SWITCH

Check door request switch.

Terminal		Door request switch condition	Continuity
Door request switch			
1	2	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door request switch is OK.
NO >> Replace back door request switch. Refer to [DLK-276. "Exploded View"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001183614

Detects door open/closed condition.

DRIVER SIDE : Component Function Check

INFOID:000000001183615

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 >> Door switch is OK.

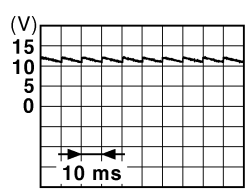
NO >> Refer to [DLK-83. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001183616

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	26	OPEN	0
		CLOSE	 <p style="text-align: right;">JPMA0011GB</p>

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	26	B34	1	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	26		Does not exist

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Is the inspection result normal?

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

3.CHECK DOOR SWITCH

Check door switch.

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

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

DRIVER SIDE : Component Inspection

INFOID:000000001183617

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
- NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001183618

Detects door open/closed condition.

PASSENGER SIDE : Component Function Check

INFOID:000000001183619

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001183620

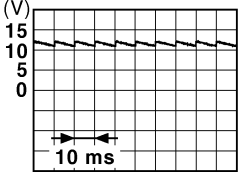
1.CHECK DOOR SWITCH INPUT SIGNAL

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

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal	(-)	
M65	27	Ground	0
		Ground	

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Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and door switch harness connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	27	B27	1	Exists

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	27		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 door switch.

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

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000001183621

1.CHECK DOOR SWITCH

- Turn ignition switch OFF.
- Disconnect door switch connector.
- Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
 NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

REAR LH

REAR LH : Description

INFOID:000000001183622

Detects door open/closed condition.

REAR LH : Component Function Check

INFOID:000000001183623

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 >> Door switch is OK.

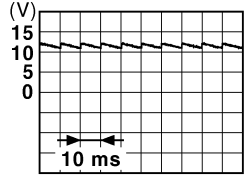
NO >> Refer to [DLK-86, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001183624

1. CHECK DOOR SWITCH INPUT SIGNAL

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

Terminals		Door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	25	OPEN	0
		CLOSE	

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Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and door switch harness connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	25	B71	1	Exists

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	25		Does not exist

Is the inspection result normal?

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

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

3.CHECK DOOR SWITCH

Check door switch.

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

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

REAR LH : Component Inspection

INFOID:000000001183625

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
- NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

REAR RH

REAR RH : Description

INFOID:000000001183626

Detects door open/close condition.

REAR RH : Component Function Check

INFOID:000000001183627

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 >> Door switch is OK.
- NO >> Refer to [DLK-87, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001183628

1.CHECK DOOR SWITCH INPUT SIGNAL

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

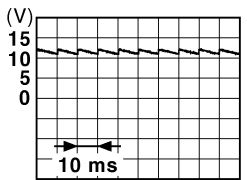
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DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminals		Door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	29	OPEN	0
		CLOSE	

JPMIA0011GB

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and door switch harness connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	29	B53	1	Exists

- 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 between BCM and door switch.

3.CHECK DOOR SWITCH

Check door switch.

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

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

REAR RH : Component Inspection

INFOID:000000001183629

1.CHECK DOOR SWITCH

- Turn ignition switch OFF.
- Disconnect door switch connector.
- Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
 NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR

BACK DOOR : Description

INFOID:000000001183630

Detects back door open/close condition.

BACK DOOR : Component Function Check

INFOID:000000001183631

1.CHECK FUNCTION

With CONSULT-III

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

Monitor item	Condition
DOOR BK 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:000000001183632

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

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

Terminals		Back door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	OPEN CLOSE	0 Battery voltage
M65	28		

Is the inspection result normal?

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

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

- Disconnect BCM connector.
- 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	28	D152	4	Exists

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	28		Does not exist

Is the inspection result normal?

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

3.CHECK BACK DOOR LOCK ASSEMBLY GROUND CIRCUIT

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

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DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Back door lock assembly (door switch) connector	Terminal	Ground	Continuity
D152	3		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace back door lock assembly harness connector 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		
M65	28	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace BCM. Refer to [BCS-65, "Exploded View"](#).

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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace back door lock assembly (door switch). Refer to [DLK-266, "DOOR LOCK : Removal and Installation"](#).

BACK DOOR : Component Inspection

INFOID:000000001183633

1. CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

1. Turn ignition switch OFF.
2. Disconnect back door lock assembly (door switch) connector.
3. Check back door lock assembly (door switch).

Terminal		Trunk condition	Continuity
Back door lock assembly (door switch)			
4	3	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 (door switch). Refer to [DLK-266, "DOOR LOCK : Removal and Installation"](#).

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

KEY SWITCH

Description

INFOID:000000001183634

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:000000001183635

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:000000001183636

1.CHECK KEY SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit 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

4. Check voltage between BCM harness connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	36	Ground	Battery voltage
		Insert mechanical key into key cylinder	0

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> GO TO 2.

2.CHECK KEY SWITCH POWER SUPPLY CIRCUIT

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

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

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

BCM connector	Terminal	Ignition knob switch and key lock solenoid connector	Terminal	Continuity
M65	36	M25	1	Exists

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

Ignition knob 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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace key cylinder assembly.

Component Inspection

INFOID:000000001183637

COMPONENT INSPECTION

1.CHECK KEY SWITCH

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

Terminal		Condition	Continuity
ignition knob switch and key lock solenoid connector			
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.

IGNITION KNOB SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

IGNITION KNOB SWITCH

Description

INFOID:000000001183638

Ignition knob switch detects that ignition knob is pressed, and then transmits the signal to Intelligent Key unit. Then Intelligent Key unit transmits the information to BCM via CAN.

Component Function Check

INFOID:000000001183639

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 [SEC-59, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183640

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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> GO TO 2.

2.CHECK IGNITION KNOB SWITCH POWER SUPPLY CIRCUIT

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

Terminals			Voltage (V) (Approx.)
(+)		(-)	
Ignition knob 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 and key lock solenoid harness connector.

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IGNITION KNOB SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

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

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

Ignition knob 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 [SEC-60, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace key cylinder assembly.

Component Inspection

INFOID:000000001183641

1.CHECK IGNITION KNOB SWITCH

- Turn ignition switch OFF.
- Disconnect ignition knob switch and key lock solenoid connector.
- Check continuity between ignition knob switch and key lock solenoid terminals under the following conditions.

Ignition knob switch and key lock solenoid		Condition	Continuity
Connector	Terminal		
M25	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 is OK.

NO >> Replace key cylinder assembly.

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001183642

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:000000001183643

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 >> Door lock actuator is OK.

NO >> Refer to [DLK-95, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001183644

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 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	Door lock actuator connector	Terminal	Continuity
M67	56	D9	3	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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 3.

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

3. CHECK DOOR LOCK ACTUATOR CIRCUIT 2

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

BCM connector	Terminal	Anti-hijack relay connector	Terminal	Continuity
M67	56	M90	4	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 ANTI-HIJACK RELAY

Check continuity of anti-hijack relay.

Anti-hijack relay connector	Terminal	Continuity
M90	4	Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace anti-hijack relay.

5. CHECK DOOR LOCK ACTUATOR CIRCUIT 3

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

Anti-hijack relay connector	Terminal	Door lock actuator connector	Terminal	Continuity
M90	3	D9	3	Exists

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

Anti-hijack relay connector	Terminal	Ground	Continuity
M90	3		Does not exist

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace harness.

6. CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-96, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#). After that, [DLK-97, "DRIVER SIDE : Special Repair Requirement"](#)

DRIVER SIDE : Component Inspection

INFOID:000000001183645

1. CHECK FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)

Check the actuator operation by connecting the battery voltage to front door lock actuator (driver side).

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Front door lock actuator (driver side)	Terminal		Door lock actuator condition
	(+)	(-)	
D9	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

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

NO >> Replace front door lock actuator (driver side). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

DRIVER SIDE : Special Repair Requirement

INFOID:000000001183646

Refer to [PWC-4, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001183647

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000001183648

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 >> Door lock actuator is OK.

NO >> Refer to [DLK-97, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001183649

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	Lock	0 → Battery voltage → 0
M67	56		
	M67	54	Unlock
Ground			

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 harness connector and front door lock actuator (passenger side) harness connector.

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	56	D48	3	Exists
	54		2	

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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace harness.

3.CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-98, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000001183650

1.CHECK FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)

Check the actuator operation by connecting the battery voltage directly to front door lock actuator (passenger side).

Front door lock actuator (passenger side) connector	Terminal		Door lock actuator condition
	(+)	(-)	
D48	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

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

NO >> Replace front door lock actuator (passenger side). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR LH

REAR LH : Description

INFOID:000000001183651

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:000000001183652

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-99, "REAR LH : Diagnosis Procedure"](#).

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

REAR LH : Diagnosis Procedure

INFOID:000000001183653

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 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	Door lock actuator connector	Terminal	Continuity
M67	56	D85	3	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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 3.

3. CHECK DOOR LOCK ACTUATOR CIRCUIT 2

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

BCM connector	Terminal	Anti-hijack relay connector	Terminal	Continuity
M67	56	M90	4	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Ground

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK ANTI-HIJACK RELAY

Check continuity anti-hijack relay.

Anti-hijack relay connector	Terminal		Continuity
M90	4	3	Exists

Is the inspection result normal?

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DOOR LOCK ACTUATOR

[WITH I-KEY, WITHOUT SUPER LOCK]

< COMPONENT DIAGNOSIS >

- YES >> GO TO 5.
NO >> Replace anti-hijack relay.

5.CHECK DOOR LOCK ACTUATOR CIRCUIT 3

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

Anti-hijack relay connector	Terminal	Door lock actuator connector	Terminal	Continuity
M90	3	D85	3	Exists

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

Anti-hijack relay connector	Terminal	Ground	Continuity
M90	3		Does not exist

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> Repair or replace harness.

6.CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-100, "REAR LH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR LH : Component Inspection

INFOID:000000001183654

1.CHECK REAR DOOR LOCK ACTUATOR (LH)

Check the actuator operation by connecting the battery voltage directly to rear door lock actuator (LH).

Rear door lock actuator (LH)	Terminal		Door lock actuator condition
	(+)	(-)	
D85	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

- YES >> Rear door lock actuator (LH) is OK.
NO >> Replace rear door lock actuator (LH). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR RH

REAR RH : Description

INFOID:000000001183655

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:000000001183656

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?

DOOR LOCK ACTUATOR

[WITH I-KEY, WITHOUT SUPER LOCK]

< COMPONENT DIAGNOSIS >

- YES >> Door lock actuator is OK.
NO >> Refer to [DLK-101, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001183657

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. Turn ignition switch OFF.
2. Disconnect BCM 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	Door lock actuator connector	Terminal	Continuity
M67	56	D105	3	Exists
	54		2	

4. 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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> GO TO 3.

3. CHECK DOOR LOCK ACTUATOR CIRCUIT 2

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

BCM connector	Terminal	Anti-hijack relay connector	Terminal	Continuity
M67	56	M90	4	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56	Ground	Does not exist

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace harness.

4. CHECK ANTI-HIJACK RELAY

Check continuity anti-hijack relay.

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

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 3

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

Anti-hijack relay connector	Terminal	Door lock actuator connector	Terminal	Continuity
M90	3	D105	3	Exists

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

Anti-hijack relay connector	Terminal	Ground	Continuity
M90	3		Does not exist

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> Repair or replace harness.

6. CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-102, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR RH : Component Inspection

INFOID:000000001183658

1. CHECK REAR DOOR LOCK ACTUATOR (RH)

Check the actuator operation by connecting the battery voltage directly to rear door lock actuator (RH).

Rear door lock actuator (RH)	Terminal		Door lock actuator condition
	(+)	(-)	
D105	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

- YES >> Rear door lock actuator (RH) is OK.
 NO >> Replace rear door lock actuator (RH). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

BACK DOOR OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR OPENER ACTUATOR

Description

INFOID:000000001183659

Opens the back door with the signal from BCM.

Component Function Check

INFOID:000000001183660

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 lock opener actuator operation

Is the inspection result normal?

YES >> Door lock actuator is OK.

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

Diagnosis Procedure

INFOID:000000001183661

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 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	D152	2	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
D152	1		Exists

Is the inspection result normal?

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BACK DOOR OPENER ACTUATOR

[WITH I-KEY, WITHOUT SUPER LOCK]

< COMPONENT DIAGNOSIS >

- YES >> GO TO 4.
- NO >> Repair or replace harness.

4.CHECK BACK DOOR LOCK ASSEMBLY

Check the actuator operation by connecting battery voltage to back door lock assembly.
Refer to [DLK-104, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace back door lock assembly. Refer to [DLK-266, "DOOR LOCK : Removal and Installation"](#).

Component Inspection

INFOID:000000001183662

1.CHECK BACK DOOR LOCK ASSEMBLY

Check the actuator operation by connecting battery voltage to back door lock assembly.

Back door lock assembly connector	Terminal		Back door actuator condition
	(+)	(-)	
D152	2	1	OPEN

Is the inspection result normal?

- YES >> Back door lock assembly (back door lock actuator) is OK.
- NO >> Replace back door lock assembly (back door lock actuator). Refer to [DLK-266, "DOOR LOCK : Removal and Installation"](#).

BACK DOOR OPENER SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR OPENER SWITCH

Description

INFOID:000000001183663

Sends the back door opening signal to BCM.

Component Function Check

INFOID:000000001183664

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-105, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183665

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	12	Pressed	0
		Released	Battery voltage

Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

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

BCM connector	Terminal	Back door opener switch connector	Terminal	Continuity
M65	12	D186	1	Exists

- 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.

3.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

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BACK DOOR OPENER SWITCH

[WITH I-KEY, WITHOUT SUPER LOCK]

< COMPONENT DIAGNOSIS >

Terminals			Voltage (V) (Approx.)
(+)		(-)	
BCM connector	Terminal		
M65	12	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to [BCS-65, "Exploded View"](#).

4. CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

Back door 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.

Refer to [DLK-106, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace back door opener switch. Refer to [DLK-277, "Exploded View"](#).

Component Inspection

INFOID:000000001183666

1. CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Back door opener switch connector	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 is OK.

NO >> Replace back door opener switch. Refer to [DLK-277, "Exploded View"](#).

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001183667

Intelligent Key detects antenna transmission.

Timing of reply from Intelligent Key to Intelligent Key unit when antenna the Intelligent Key is closest to (inside or outside of the vehicle).

Integrated in front outside handle (driver side).

DRIVER SIDE : Component Function Check

INFOID:000000001183668

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 is OK.

NO >> Refer to [DLK-273, "DRIVER SIDE : Removal and Installation"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001183669

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

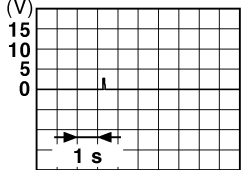
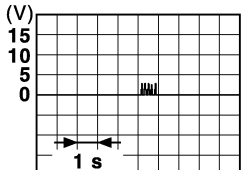
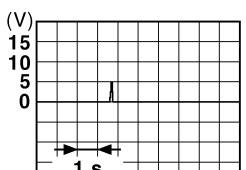
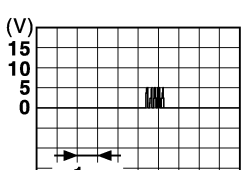
1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

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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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and front outside handle connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna connector	Terminal	Continuity
M40	19	D11	1	Exists
	20		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	19	Ground	Does not exist
	20		

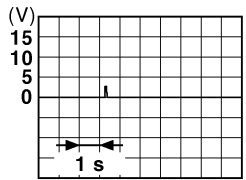
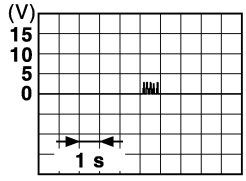
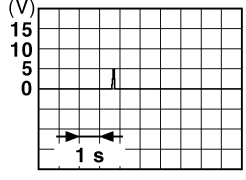
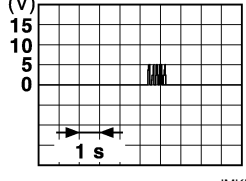
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna.

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>
			When Intelligent Key is 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>
			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 (driver side). Refer to [DLK-273, "DRIVER SIDE : Exploded View"](#).

NO >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

PASSENGER SIDE

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OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

PASSENGER SIDE : Description

INFOID:000000001183670

Intelligent Key detects antenna transmission.

Timing of reply from Intelligent Key to Intelligent Key unit when antenna the Intelligent Key is closest to (inside or outside of the vehicle).

Integrated in front outside handle (passenger side).

PASSENGER SIDE : Component Function Check

INFOID:000000001183671

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 is OK.

NO >> Refer to [DLK-110. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001183672

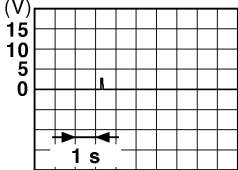
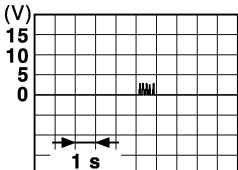
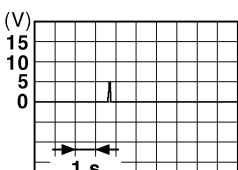
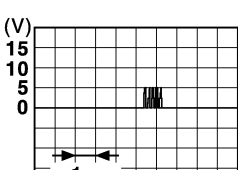
1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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>
				Request switch is pressed	When Intelligent Key is not in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>
	Passenger side (-)	38		Request switch is pressed	When Intelligent Key is in the antenna de- tection area.	 <p style="text-align: right; font-size: small;">JMKIA0395ZZ</p>
				Request switch is pressed	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 >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
- NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and front outside handle connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna connector	Terminal	Continuity
M40	37	D50	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		Does not exist
	38		

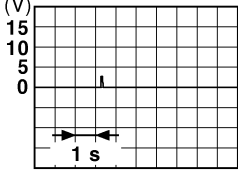
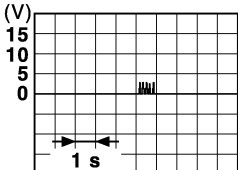
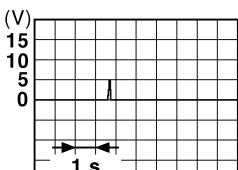
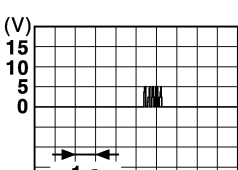
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna.

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;">JMKIA0397ZZ</p>
	Passenger side (-)	38	When Intelligent Key is not in the antenna detection area.	 <p style="text-align: right; font-size: small;">JMKIA0514ZZ</p>
	Passenger side (+)	37	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 (passenger side). Refer to [DLK-273. "PASSENGER SIDE : Exploded View"](#) (passenger side).

NO >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

REAR BUMPER

REAR BUMPER : Description

INFOID:000000001183673

Intelligent Key detects antenna transmission.

Timing of reply from Intelligent Key to Intelligent Key unit when antenna the Intelligent Key is closest to (inside or outside of the vehicle).

Installed in rear bumper.

REAR BUMPER : Component Function Check

INFOID:000000001183674

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 is OK.

NO >> Refer to [DLK-113, "REAR BUMPER : Diagnosis Procedure"](#).

REAR BUMPER : Diagnosis Procedure

INFOID:000000001183675

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

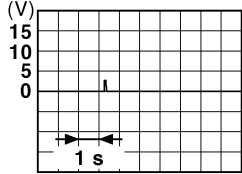
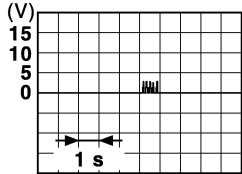
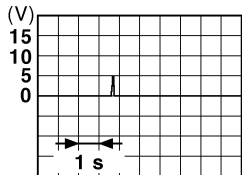
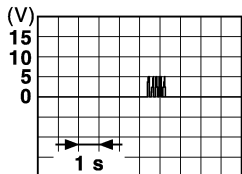
1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

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OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminal			(-)	Condition	Signal (Reference value)	
(+)		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 detection 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 detection area.	 <p style="text-align: right; font-size: small;">JMKIA0515ZZ</p>	

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and front outside handle connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna connector	Terminal	Continuity
M40	17	B81 (rear bumper)	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		

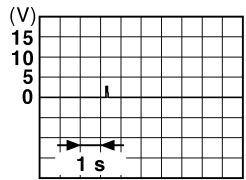
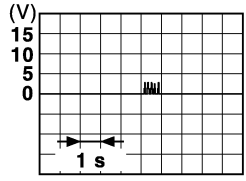
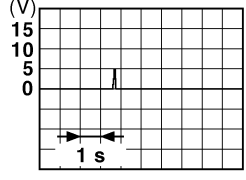
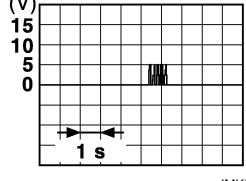
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna.

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	Rear bumper (+)	17	Ground	
	Rear bumper (-)	18	Ground	
	Door request switch is pressed		Ground	
			Ground	
		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>	
		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>	

Is the inspection result normal?

YES >> Replace outside key antenna (rear bumper). Refer to [DLK-274. "REAR BUMPER : Exploded View"](#) (Rear bumper).

NO >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

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INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Description

INFOID:000000001183676

Detects whether Intelligent Key is inside the vehicle.

INSTRUMENT CENTER : Component Function Check

INFOID:000000001183677

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 is OK.

NO >> Refer to [DLK-116, "INSTRUMENT CENTER : Diagnosis Procedure"](#).

INSTRUMENT CENTER : Diagnosis Procedure

INFOID:000000001183678

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]

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 >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
 NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

Intelligent Key unit connector	Terminal	Inside key antenna connector	Terminal	Continuity
M40	33	M70 (instrument center)	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, WITHOUT SUPER LOCK]

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

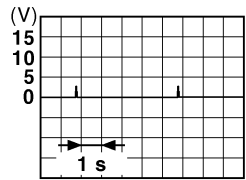
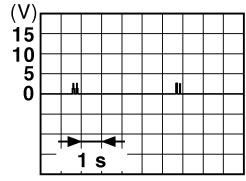
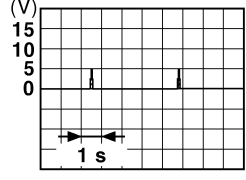
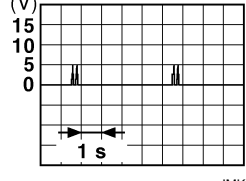
Is the inspection result normal?

YES >> GO TO 3.

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

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 connector.
3. Check signal between Intelligent Key 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. 
		33		When Intelligent Key is not in the antenna detection area. 
	Instrument center (-)	34		When Intelligent Key is in the antenna detection area. 
		34		When Intelligent Key is not in the antenna detection area. 

Is the inspection result normal?

YES >> Replace inside key antenna (instrument center). Refer to [DLK-271, "INSTRUMENT CENTER : Exploded View"](#) (instrument center).

NO >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

CONSOLE

CONSOLE : Description

INFOID:000000001183679

Detects whether Intelligent Key is inside the vehicle.

CONSOLE : Component Function Check

INFOID:000000001183680

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 is OK.

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

CONSOLE : Diagnosis Procedure

INFOID:000000001183681

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.

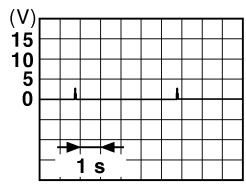
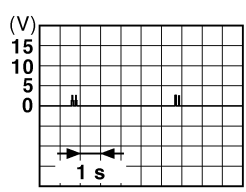
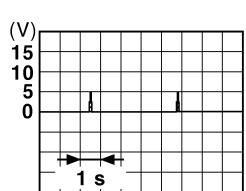
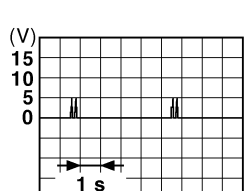
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INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminal			(-)	Condition	Signal (Reference value)
(+)		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>
	Console (-)	16		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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

Intelligent Key unit connector	Terminal	Inside key antenna connector	Terminal	Continuity
M40	15	M61 (console)	1	Exists
	16		2	

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

INSIDE KEY ANTENNA

[WITH I-KEY, WITHOUT SUPER LOCK]

< COMPONENT DIAGNOSIS >

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	15		
	16		

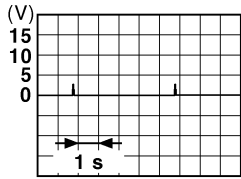
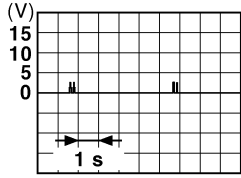
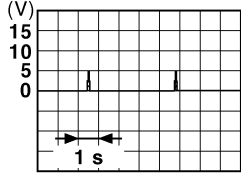
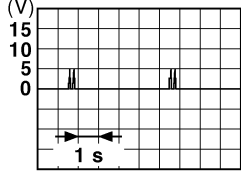
Is the inspection result normal?

YES >> GO TO 3.

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

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 connector.
3. Check signal between Intelligent Key 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.	
	Console (-)	16		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-271, "CONSOLE : Exploded View"](#) (console).

NO >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

REAR SEAT

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

REAR SEAT : Description

INFOID:000000001183682

Detects whether Intelligent Key is inside the vehicle.

REAR SEAT : Component Function Check

INFOID:000000001183683

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 is OK.
NO >> Refer to [DLK-122, "REAR SEAT : Diagnosis Procedure"](#).

REAR SEAT : Diagnosis Procedure

INFOID:000000001183684

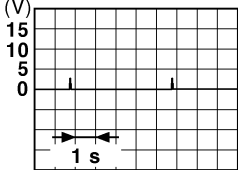
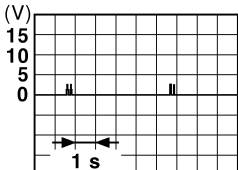
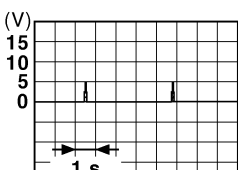
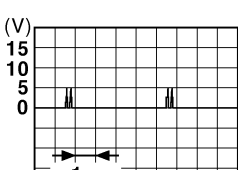
1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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	Rear seat (+)	13	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>
				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>

- All doors are closed
- Ignition knob switch is pressed

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
 NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

- Disconnect Intelligent Key unit connector and inside key antenna connector.
- Check continuity between Intelligent Key unit harness connector and inside key antenna harness connector.

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

- 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	13	Ground	Does not exist
	14		

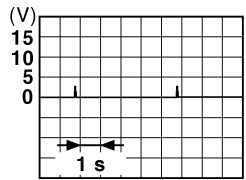
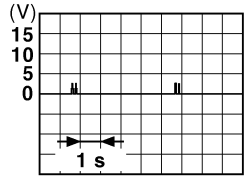
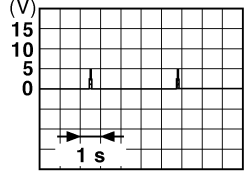
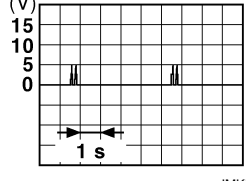
Is the inspection result normal?

YES >> GO TO 3.

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

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 connector.
3. Check signal between Intelligent Key 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.  <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-272, "REAR : Exploded View"](#) (rear seat).

NO >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

ANTI-HIJACK RELAY

[WITH I-KEY, WITHOUT SUPER LOCK]

< COMPONENT DIAGNOSIS >

ANTI-HIJACK RELAY PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001183685

Receives anti-hijack signal from Intelligent Key unit.

PASSENGER SIDE : Component Function Check

INFOID:000000001183686

1.CHECK FUNCTION

1. All doors are locked using Intelligent Key or door request switch. (Super lock system condition: Set)
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-125. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001183687

1.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL 1

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

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

Is the inspection result normal?

- YES >> GO TO 2.
 NO >> Check condition of harness and connector. If NG, repair or replace harness.

2.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL 2

1. 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.)
(+)	Terminal			
Passenger side anti-hijack relay connector				
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 >> Check condition of harness and connector. If NG, repair or replace harness.

5. CHECK ANTI-HIJACK RELAY

Check anti-hijack relay.

Refer to [DLK-126, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace anti-hijack relay. Refer to [DLK-26, "DOOR LOCK AND UNLOCK SWITCH : Component Parts Location"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000001183688

1. CHECK ANTI-HIJACK RELAY

1. Turn ignition switch OFF.
2. Disconnect passenger side anti-hijack relay connector.
3. Check continuity passenger side anti-hijack relay terminals 3 and 4.

Passenger side anti-hijack relay connector	Terminal		Condition	Continuity
M90	3	4	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-26, "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:000000001183689

Answers back and warns about an inappropriate operation.

Component Function Check

INFOID:000000001183690

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-127, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183691

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	Sounding	0
		Not sounding	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

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.

DLK

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-128. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-275. "Exploded View"](#).

5.REPLACE INTELLIGENT KEY UNIT

Replace Intelligent Key unit.

Refer to [DLK-280. "Exploded View"](#).

NOTE:

Perform the system initialization when replacing Intelligent Key unit.

Refer to [DLK-23. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001183692

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. GO TO 2.

NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-275. "Exploded View"](#).

2.REPLACE INTELLIGENT KEY UNIT

Replace Intelligent Key unit.

Refer to [DLK-280. "Exploded View"](#).

NOTE:

Perform the system initialization when replacing Intelligent Key unit.

Refer to [DLK-23. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

>> INSPECTION END

BUZZER (COMBINATION METER)

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BUZZER (COMBINATION METER)

Description

INFOID:000000001183693

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:000000001183694

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-129, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183695

1. CHECK BUZZER (COMBINATION METER) CIRCUIT

Refer to [WCS-21, "Component Function Check"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace buzzer (combination meter) circuit.

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KEY WARNING LAMP

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

KEY WARNING LAMP

Description

INFOID:000000001183696

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:000000001183697

1.CHECK FUNCTION

With CONSULT-III

Check the operation with "INDICATOR" in "Active Test" 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-130, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183698

1.CHECK KEY WARNING LAMP CIRCUIT

Refer to [WCS-21, "Component Function Check"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace key warning lamp circuit.

LOCK WARNING LAMP

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

LOCK WARNING LAMP

Description

INFOID:000000001183699

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:000000001183700

1.CHECK FUNCTION

With CONSULT-III

Check the operation with "INDICATOR" in "Active Test" 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-131, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183701

1.CHECK LOCK WARNING LAMP CIRCUIT

Refer to [WCS-21, "Component Function Check"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Repair or replace lock warning lamp circuit.

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HAZARD WARNING LAMPS

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

HAZARD WARNING LAMPS

Description

INFOID:000000001183702

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

Component Function Check

INFOID:000000001183703

1.CHECK FUNCTION

With CONSULT-III

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

Is the inspection result normal?

- YES >> Hazard warning lamp circuit is OK.
- NO >> Refer to [DLK-132, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183704

1.CHECK HAZARD SWITCH CIRCUIT

Check hazard switch circuit.

Refer to [EXL-75, "Component Function Check"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Repair or replace hazard warning switch circuit.

VEHICLE SPEED SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

VEHICLE SPEED SIGNAL CIRCUIT

Description

INFOID:000000001183705

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

Component Function Check

INFOID:000000001183706

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-133, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183707

1.CHECK VEHICLE SPEED SIGNAL CIRCUIT

Check "VEHICLE SPEED" in "Data Monitor" mode in CONSULT-III.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace vehicle speed signal circuit.

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INTELLIGENT KEY BATTERY

< COMPONENT DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

INTELLIGENT KEY BATTERY

Description

INFOID:000000001183708

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

- Door lock and unlock
- Engine start

Remote control entry function is available when operating the button.

Component Function Check

INFOID:000000001183709

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-134, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183710

1.CHECK INTELLIGENT KEY BATTERY

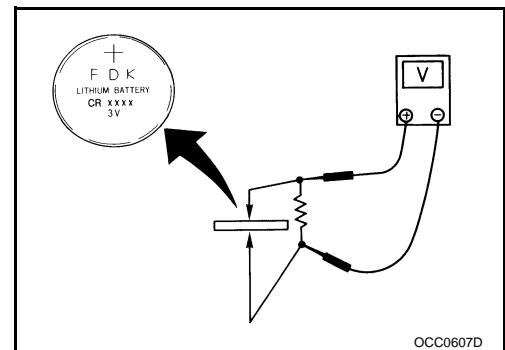
Check by connecting a resistance (approximately 300 Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

YES >> Replace Intelligent Key.

NO >> Replace Intelligent Key battery. Refer to [DLK-279, "Exploded View"](#).



INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

ECU DIAGNOSIS

INTELLIGENT KEY UNIT

Reference Value

INFOID:000000001559570

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status	
PUSH SW	Ignition knob	Release	OFF
		Press	ON
KEY 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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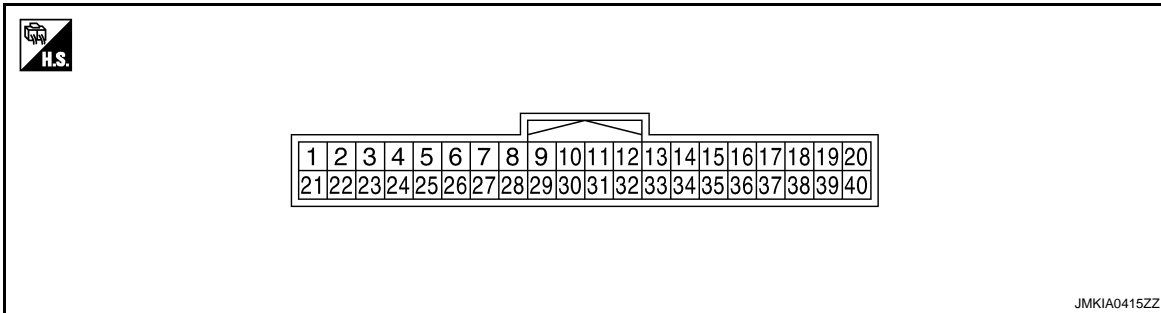
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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

TERMINAL LAYOUT



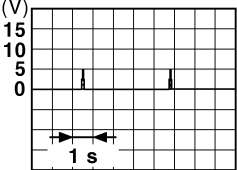
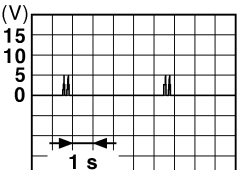
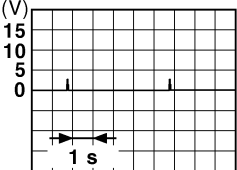
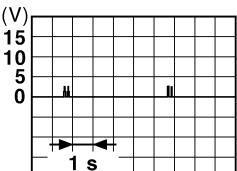
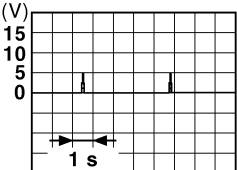
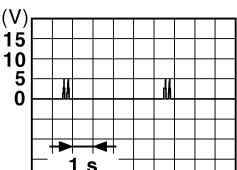
PHYSICAL VALUES

Terminal No.		Wire color	Description		Condition		Value [V] (Approx.)
+	-		Signal name	Input/Output			
1	Ground	LG	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	5
						ON	0
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	
						When Intelligent Key is not in the antenna detection area	

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>When Intelligent Key is in the antenna detection area</p>  <p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
						<p>When Intelligent Key is not in the antenna detection area</p>  <p style="text-align: right; font-size: small;">JMKIA0390ZZ</p>
15	Ground	SB	Inside key antenna (+) (console)	Output	Ignition knob is pressed.	<p>When Intelligent Key is in the antenna detection area</p>  <p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
						<p>When Intelligent Key is not in the antenna detection area</p>  <p style="text-align: right; font-size: small;">JMKIA0391ZZ</p>
16	Ground	BR	Inside key antenna (-) (console)	Output	Ignition knob is pressed.	<p>When Intelligent Key is in the antenna detection area</p>  <p style="text-align: right; font-size: small;">JMKIA0392ZZ</p>
						<p>When Intelligent Key is not in the antenna detection area</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 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

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	<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>	
22*1	Ground	W	Key lock solenoid	Output	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	
27	Ground	L	Ignition knob switch	Input	Ignition knob switch OFF	When ignition knob switch is pressed	Battery voltage
					When ignition knob switch is released	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	<p style="text-align: right; font-size: small;">JMkia0433ZZ</p>	

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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

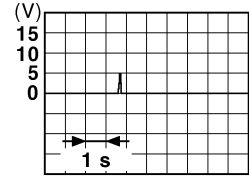
Terminal No.		Wire color	Description		Condition	Value [V] (Approx.)
+	-		Signal name	Input/ Output		
33	Ground	O	Inside key antenna (+) (instrument center)	Output	Ignition knob is pressed.	<p style="text-align: right; font-size: small;">JMKIA0393ZZ</p>
					Ignition knob is pressed.	<p style="text-align: 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

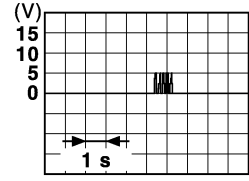
[WITH I-KEY, WITHOUT SUPER LOCK]

< 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 in the antenna detection area
					When Intelligent Key is not in the antenna detection area	When Intelligent Key is in the antenna detection area
40	Ground	Y	Passenger side anti-hijack relay	Input	Press front door request switch (passenger side)	Anti-hijack operation
					Other than above	Battery voltage



JMKIA0395ZZ



JMKIA0515ZZ

*1: Only for M/T model.

*2: Key interlock operation is only for M/T model for operation condition, refer to [SEC-10, "System Description"](#).

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INTELLIGENT KEY UNIT

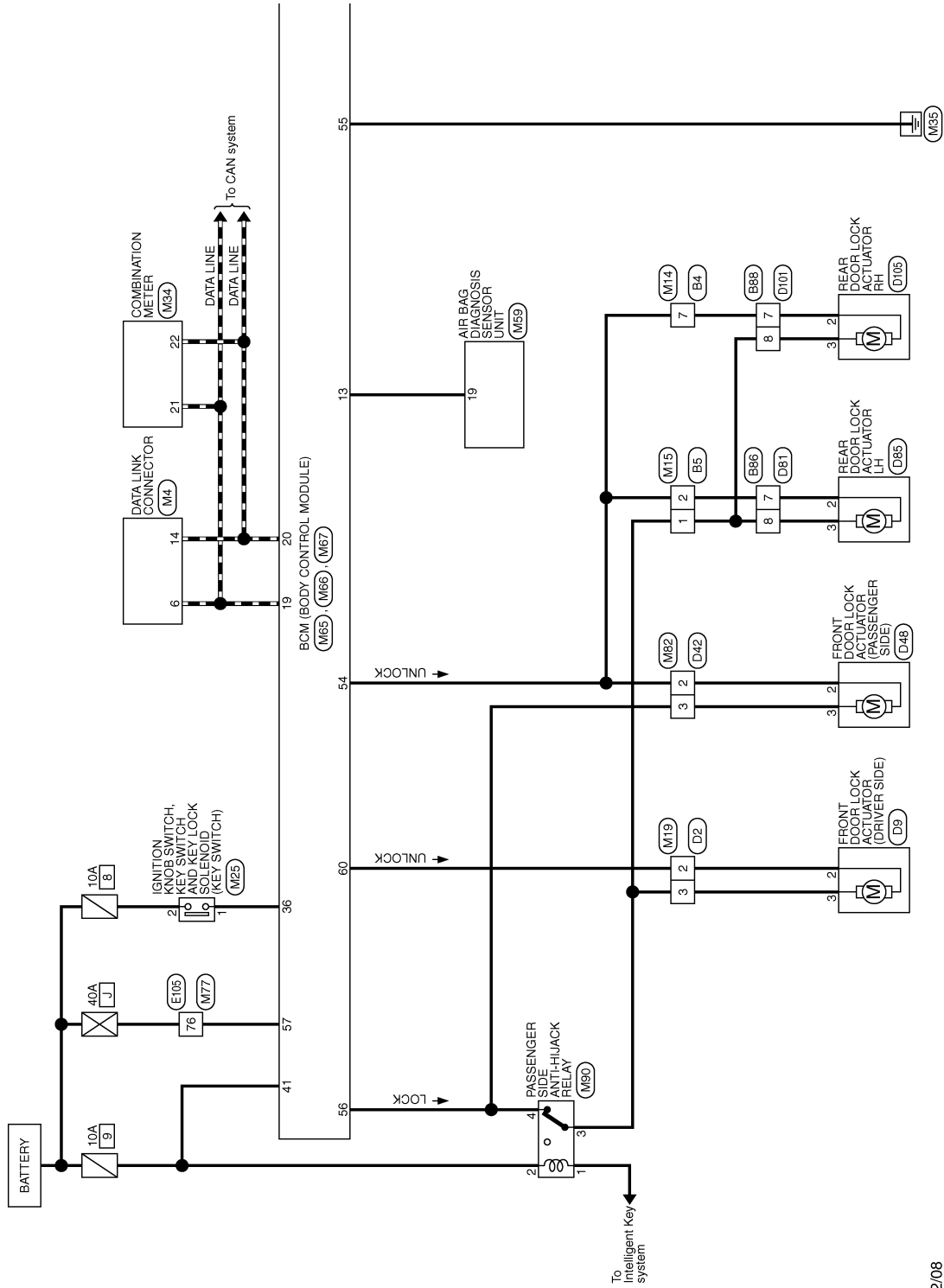
[WITH I-KEY, WITHOUT SUPER LOCK]

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Wiring Diagram - POWER DOOR LOCK CONTROL SYSTEM -

INFOID:000000001183712

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)



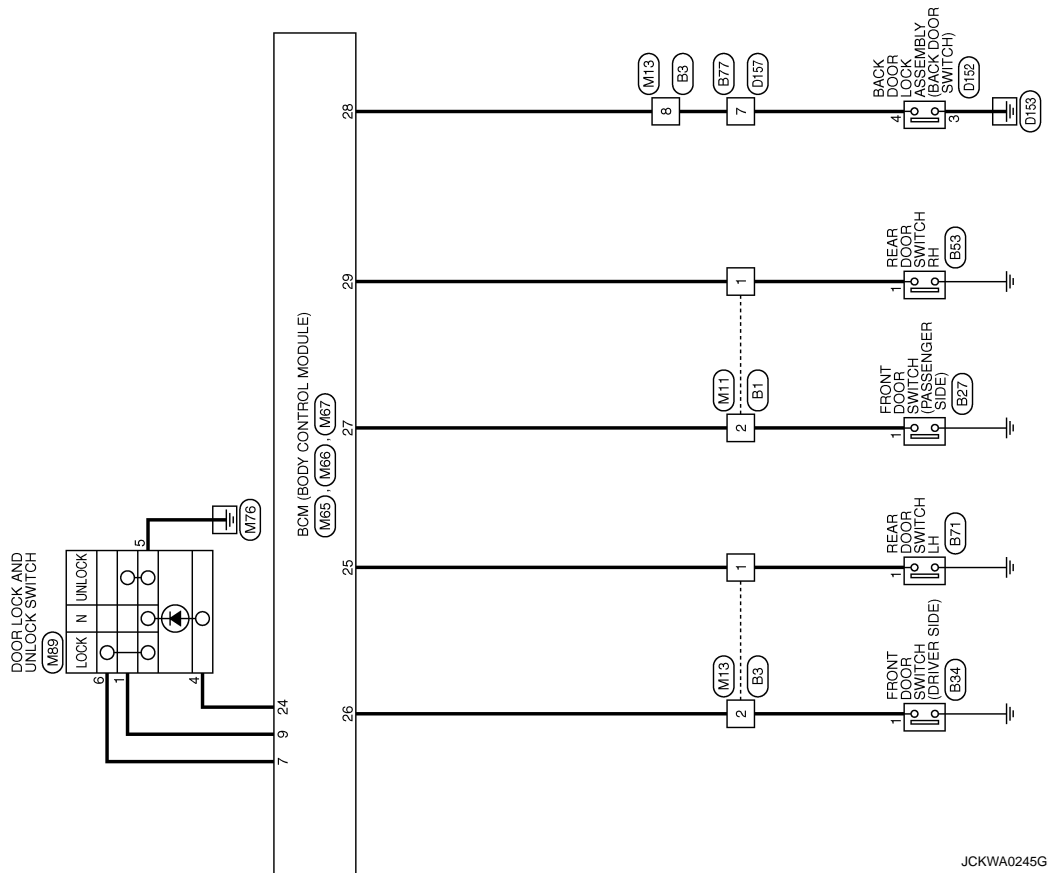
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JCKWA0244GE

INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >



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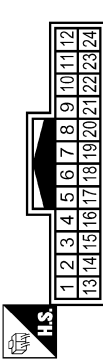
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

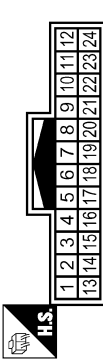
POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



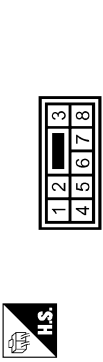
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	
2	BR	-[LHD models]

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



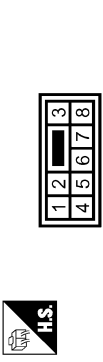
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2	R/W	
8	G	-[LHD models]

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS30MW-GS



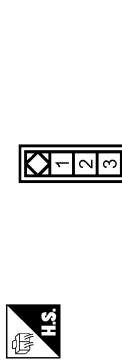
Terminal No.	Color of Wire	Signal Name [Specification]
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Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	NS30MW-GS



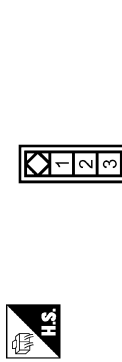
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	
2	O	

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



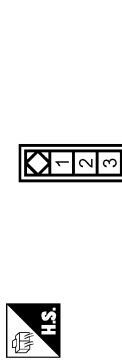
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	

Connector No.	B4
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



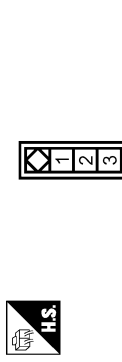
Terminal No.	Color of Wire	Signal Name [Specification]
1	R/W	

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



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

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



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

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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

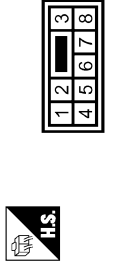
Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



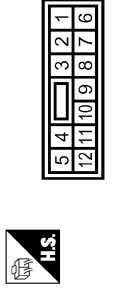
Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	7	G	Signal Name [Specification]	
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Terminal No.	7	O	Signal Name [Specification]	
Terminal No.	8	SB	Signal Name [Specification]	

Terminal No.	7	O	Signal Name [Specification]	
Terminal No.	8	SB	Signal Name [Specification]	

Terminal No.	2	GR	Signal Name [Specification]	
Terminal No.	3	SB	Signal Name [Specification]	

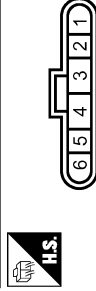
Connector No.	B9
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA04FB-FHA2



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



Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2



Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	2	GR	Signal Name [Specification]	
Terminal No.	3	R,Y	Signal Name [Specification]	

Terminal No.	2	P	Signal Name [Specification]	
Terminal No.	3	Y	Signal Name [Specification]	

Terminal No.	2	P	Signal Name [Specification]	
Terminal No.	3	Y	Signal Name [Specification]	

Terminal No.	7	O	Signal Name [Specification]	
Terminal No.	8	SB	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.	D185
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA04FB-FHA2



Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
3	SB	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA04FB-FHA2



Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
3	SB	-

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	GNCH 49309 EV 4M9



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



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

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	TH24FW



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

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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	—
2	R	— [LHD models]
8	G	—

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
7	O	—

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	—
2	O	—

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS12AW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	—
3	SB	—

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TR08MGY

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

Connector No.	M24
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.	M29
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TR28FY-EX-SC

Terminal No.	Color of Wire	Signal Name [Specification]
19	R	UNLOCK

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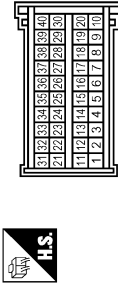
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

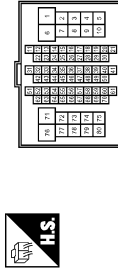
POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AA840PE



Terminal No.	Color of Wire	Signal Name [Specification]
7	P	LOCK/UNLOCK SW (LOCK)
9	BR	LOCK/UNLOCK SW (UNLOCK)
13	R	SHOCK DETECT SIG
19	L	CAN-H
20	P	CAN-L
24	GR	DOOR LOCK STATUS IND
25	GR	DOOR SW (RL)
26	R	DOOR SW (DR)
27	BR	DOOR SW (AS)
28	G	DOOR SW (BACK)
29	LG	DOOR SW (FR)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-MS16-TM4



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

INTELLIGENT KEY

36	V	KEY SW
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Connector No.	M86
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCJ 211PC122S1017



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

Connector No.	M89
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	7703197674



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
4	GR	-
5	B	-
6	P	-

Connector No.	M87
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCJ 211PC083S0017



Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER)
55	B	GN0(POWER)
56	Y	DOOR LOCK OUTPUT (ALL) [With Intelligent Key]
57	Y	BAT(F/L)
60	GR	UNLOCK (DR)

Connector No.	M90
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS0PE-M2



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

INTELLIGENT KEY UNIT

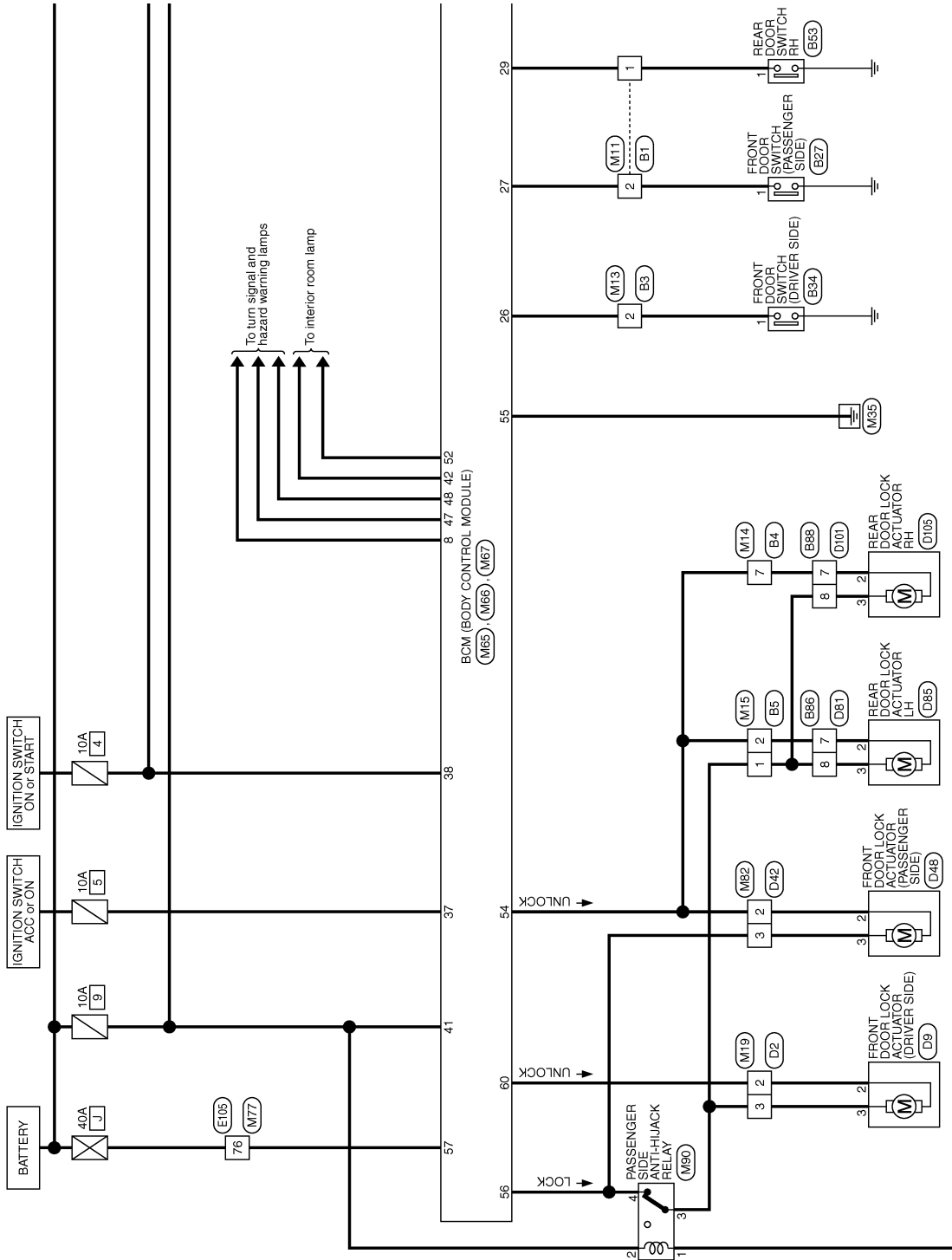
[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - INTELLIGENT KEY CONTROL SYSTEM -

INFOID:000000001183713

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)



2006/12/08

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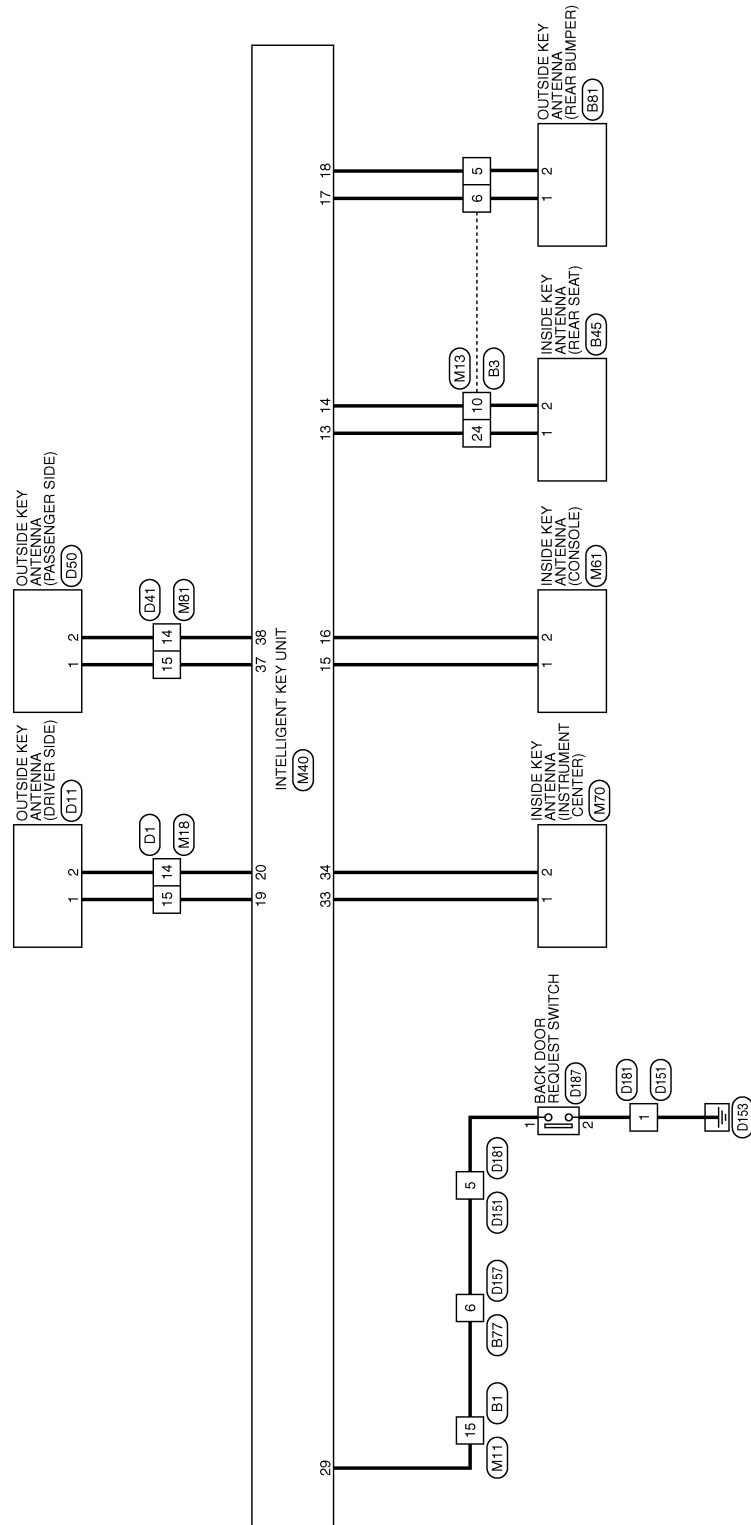
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INTELLIGENT KEY UNIT

[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	TH24MW



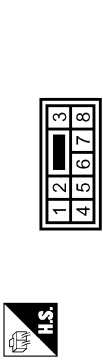
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R/W	- [RHD models]
15	GR	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



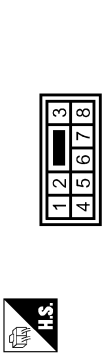
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	BR	- [RHD models]
5	V	-
6	SB	-
8	G	-
10	W/R	-
24	Y	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



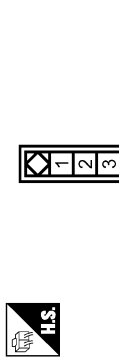
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	GR	-

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



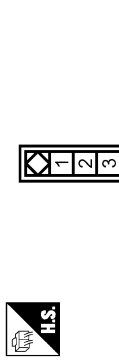
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	O	-

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



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

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



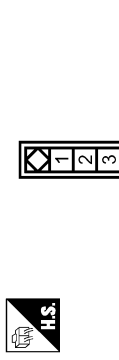
Terminal No.	Color of Wire	Signal Name [Specification]
1	R/W	-

Connector No.	B45
Connector Name	INSIDE KEY ANTENNA (REAR SEAT)
Connector Type	RK02FGY



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

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



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

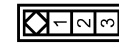
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

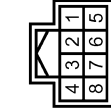
INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

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



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	GR	-
7	G	-

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC



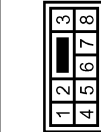
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-

Connector No.	B81
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY



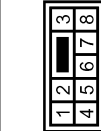
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	V	-

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



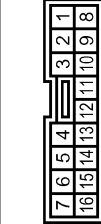
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



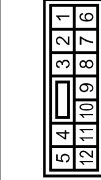
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TK16FW



Terminal No.	Color of Wire	Signal Name [Specification]
14	BF/W	-
15	L/Y	-
16	P	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-
3	SB	- [With Intelligent Key]
10	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.	D9
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA04FB-FHA2



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	--[With Intelligent Key]
3	R/Y	--[With Intelligent Key]

Connector No.	D10
Connector Name	FRONT DOOR REQUEST SWITCH (DRIVER SIDE)
Connector Type	RK02ML-B



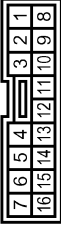
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	--
2	B	--

Connector No.	D11
Connector Name	OUTSIDE KEY ANTENNA (DRIVER SIDE)
Connector Type	RK02MGY



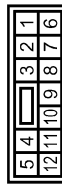
Terminal No.	Color of Wire	Signal Name [Specification]
1	L/Y	--
2	BR/W	--

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TK16FW



Terminal No.	Color of Wire	Signal Name [Specification]
10	B	--
14	O	--
15	L	--
16	BR	--

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



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	--[With Intelligent Key]
3	Y	--[With Intelligent Key]

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	--[With Intelligent Key]
3	Y	--[With Intelligent Key]

Connector No.	D49
Connector Name	FRONT DOOR REQUEST SWITCH (PASSENGER SIDE)
Connector Type	RK02ML-B



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

Connector No.	D50
Connector Name	OUTSIDE KEY ANTENNA (PASSENGER SIDE)
Connector Type	RK02MGY



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

INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

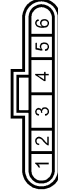
INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA04FB-FHAZ



Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
3	SB	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA04FB-FHAZ



Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
3	SB	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
5	GR	-

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CINCH 48309 EV 4M8



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
6	GR	-
7	G	-

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	MD2MW-LC



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

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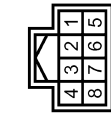
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
5	GR	-

Connector No.	D187
Connector Name	BACK DOOR REQUEST SWITCH
Connector Type	RK02FGY



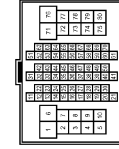
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	B	-

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



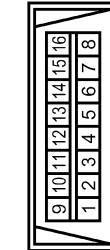
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	LG/B	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



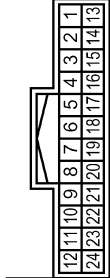
Terminal No.	Color of Wire	Signal Name [Specification]
40	LG/B	-
48	Y	-
76	Y	-

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



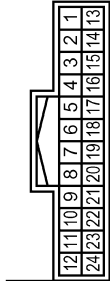
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



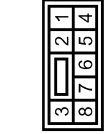
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R	- [RHD models]
15	GR	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	BR	- [RHD models]
5	V	-
6	SB	-
8	G	-
10	W	-
24	Y	-

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	GR	-

INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

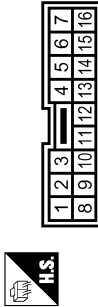
INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Type	NS09FW-CS



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

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TK18MW



Terminal No.	Color of Wire	Signal Name [Specification]
14	BR	-
15	L	-
16	P	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



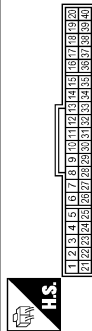
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-
3	SB	-
10	B	-

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK09MGY



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

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB4QFW



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



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	CAN-H
3	P	CAN-L
4	LG	BUZZER
5	P	REQUEST SW (DR)
6	W	IGN SW
7	V	KEY SW
11	V	BATT+
12	B	GND
13	Y	REAR SEAT (+)
14	W	REAR SEAT (-)
15	SB	CONSOLE (+)

16	BR	CONSOLE (-)
17	SB	REAR BUMPER (+)
18	V	REAR BUMPER (-)
19	L	DRIVER DOOR (+)
20	BR	DRIVER DOOR (-)
25	BR	REQUEST SW (AS)
27	L	KNOB SW
28	GR	REQUEST SW (BD)
33	O	INSTRUMENT (+)
34	G	INSTRUMENT (-)
37	L	PASSENGER DOOR (+)
38	O	PASSENGER DOOR (-)
40	Y	AS ANTI-HIJACK

Connector No.	M61
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	BR	-

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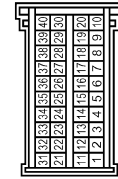
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	M65
Connector Name	SCM BODY CONTROL MODULE
Connector Type	AA84CFB



Terminal No.	Color of Wire	Signal Name [Specification]
8	LG	HAZARD SW
19	L	CAN-H
20	P	CAN-L
25	GR	DOOR SW (RL)
26	R	DOOR SW (DR)
27	BR	DOOR SW (AS)
28	G	DOOR SW (BACK)
28	LG	DOOR SW (RR)
36	V	KEY SW
37	R	ACC SW
38	W	IGN SW

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH83FW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
40	LG	-
48	Y	-
76	Y	-

Connector No.	M66
Connector Name	SCM BODY CONTROL MODULE
Connector Type	FC121PG12S1017



Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BAT(F)USE
42	V	ROOM LAMP POWER SUPPLY
45	GR	BACK DOOR OPENER
47	G/Y	FLASHER OUTPUT (LEFT)
48	G/B	FLASHER OUTPUT (RIGHT)
52	R	ROOM LAMP OUTPUT

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TK (BMW)



Terminal No.	Color of Wire	Signal Name [Specification]
10	B	-
14	O	-
15	L	-
16	BR	-

Connector No.	M67
Connector Name	SCM BODY CONTROL MODULE
Connector Type	FC121PC08S30017



Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER)
55	B	GND(POWER)
56	Y	DOOR LOCK OUTPUT (ALL) [With Intelligent Key]
57	Y	BAT(F) L
60	GR	UNLOCK (DR)

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



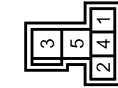
Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
3	Y	- [With Intelligent Key]

Connector No.	M70
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FGY



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

Connector No.	M90
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS03PFB-M2



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

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INTELLIGENT KEY UNIT

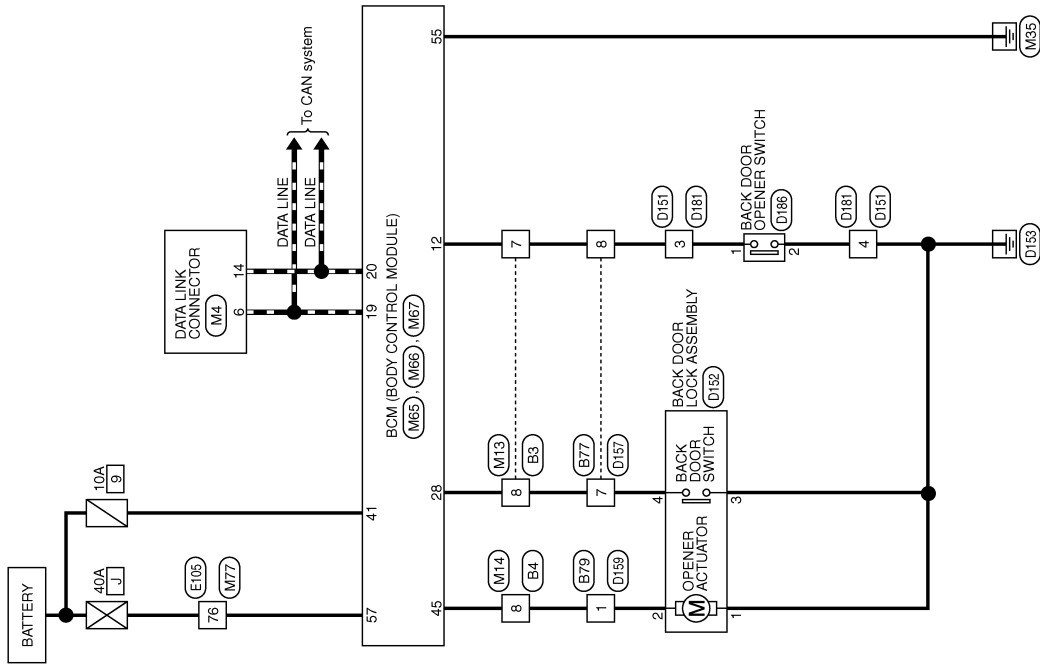
[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

INFOID:000000001183714

BACK DOOR OPENER SYSTEM



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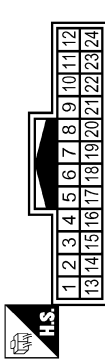
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

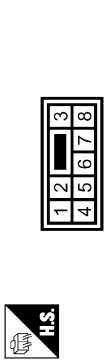
BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



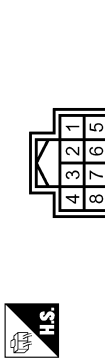
Terminal No.	Color of Wire	Signal Name [Specification]
7	P	
8	G	

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	
8	P	

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC



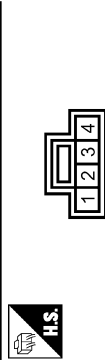
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
3	P	
4	B	

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CINCH 49309 EV 4M9



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	
8	P	

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC



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

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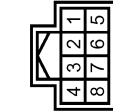
INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

BACK DOOR OPENER SYSTEM

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



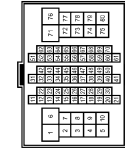
Terminal No.	Color of Wire	Signal Name [Specification]
3	P	
4	B	

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	RK02MGY



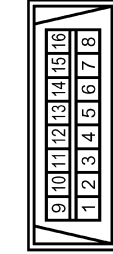
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	
2	B	

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



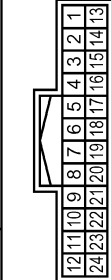
Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	

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



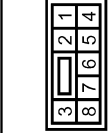
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
14	P	

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



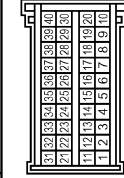
Terminal No.	Color of Wire	Signal Name [Specification]
7	P	
8	G	

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



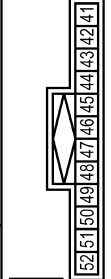
Terminal No.	Color of Wire	Signal Name [Specification]
8	GR	

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	JA840FB



Terminal No.	Color of Wire	Signal Name [Specification]
12	P	TRUNK/BACK DOOR OPEN SW
19	L	GAN-H
20	P	GAN-H
28	G	DOOR SW (BACK)

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FC1211PC122S1017



Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BAT(FUSE)
45	GR	BACK DOOR OPENER

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INTELLIGENT KEY UNIT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

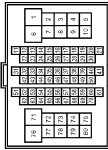
BACK DOOR OPENER SYSTEM

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 211PC083S0017



Terminal No.	Color of Wire	Signal Name [Specification]
55	B	GND(POWER)
57	Y	BAT(+L)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH807W-NS16-TM4



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

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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Fail Safe

INFOID:000000001559571

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:000000001559572

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:000000001559573

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 SEC-33
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: NATS MALFUNCTION	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-55

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000001559292

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	
ACC ON SW	Ignition switch OFF	Off	
	Ignition switch ACC or ON	On	
AIR COND SW	A/C switch OFF	Off	
	A/C switch ON	On	
AUT LIGHT SYS	Outside of the room is bright	Off	
	Outside of the room is dark	On	
AUTO LIGHT SW	Lighting switch OFF	Off	
	Lighting switch AUTO	On	
AUTO RELOCK	Auto lock function does not operate	Off	
	Auto lock function is operating	On	
BACK DOOR SW	Back door closed	Off	
	Back door opened	On	
BATTERY VOLT NOTE: Diesel engine models only	Ignition switch ON	Approximately the same as power supply voltage	
BRAKE SW	Brake pedal is not depressed	Off	
	Brake pedal is depressed	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-AS	Passenger door closed	Off	
	Passenger door opened	On	
DOOR SW-DR	Driver door closed	Off	
	Driver door opened	On	
DOOR SW-RL	Rear LH door closed	Off	
	Rear LH door opened	On	
DOOR SW-RR	Rear RH door closed	Off	
	Rear RH door opened	On	
ELEC PWR CUT NOTE: Diesel engine models only	Engine running	Fan switch ON (when engine coolant is cool) NOTE: Depending on the ambient temperature, battery voltage, etc.	Off
		The current status maintained with the signal from ECM received.	FREEZ
		<ul style="list-style-type: none"> Fan switch OFF Fan switch ON after engine warming UP NOTE: Depending on the engine coolant temperature, ambient temperature, battery voltage, etc.	INHBT

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Monitor Item	Condition	Value/Status
ENG COOLNT T NOTE: Diesel engine models only	Engine running	Approximately the same as water temperature gauge reading
ENGINE RPM NOTE: Diesel engine models only	Engine running	Approximately the same as tachometer reading
ENGINE RUN	Engine stopped	Off
	Engine running	On
ENGINE STATUS NOTE: Diesel engine models only	Engine stopped	STOP
	While the engine stalls	STALL
	Engine running	RUN
	At engine cranking	CRA
FAN ON SIG	Fan switch OFF	Off
	Fan switch ON	On
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER LOW	Front wiper switch OFF	Off
	Front wiper switch LO	On
FR WIPER HI	Front wiper switch OFF	Off
	Front wiper switch HI	On
FR WIPER INT	Front wiper switch OFF	Off
	Front wiper switch INT	On
FR WIPER STOP	Any position other than front wiper stop position	Off
	Front wiper stop position	On
GLS BREAK SEN	The vehicle without glass break sensor	On
	The vehicle with glass break sensor	Off
HAZARD SW	When hazard switch is not pressed	Off
	When hazard switch is pressed	On
HD LIGHT TIME	—	Displays a setting time of the follow me home function set by the work support
HEAD LAMP SW 1	Lighting switch OFF	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Lighting switch OFF	Off
	Lighting switch 2ND	On
HI BEAM SW	Lighting switch OFF	Off
	Lighting switch HI	On
HOOD SW	Close the hood NOTE: Vehicles without theft warning system are OFF-fixed	Off
	Open the hood	On
H/L WASH SW	NOTE: The item is indicated, but not monitored	Off

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
IGN SW CAN	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
I-KEY LOCK	LOCK button of Intelligent Key is not pressed	Off
	LOCK button of Intelligent Key is pressed	On
I-KEY UNLOCK	UNLOCK button of Intelligent Key is not pressed	Off
	UNLOCK button of Intelligent Key is pressed	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
	Mechanical key is inserted to key cylinder	On
KEYLESS LOCK	LOCK button of key fob is not pressed	Off
	LOCK button of key fob is pressed	On
KEY LESS PANIC	NOTE: The item is indicated, but not monitored	Off
KEYLESS UNLOCK	UNLOCK button of key fob is not pressed	Off
	UNLOCK button of key fob is pressed	On
LIT-SEN FAIL	Light & rain sensor is in normal condition	OK
	Light & rain sensor is with internal error	NOT OK
MEMORY 1	Key fob ID code is not registered in "Memory 1"	Off
	Key fob ID code is registered in "Memory 1"	On
MEMORY 2	Key fob ID code is not registered in "Memory 2"	Off
	Key fob ID code is registered in "Memory 2"	On
MEMORY 3	Key fob ID code is not registered in "Memory 3"	Off
	Key fob ID code is registered in "Memory 3"	On
MEMORY 4	Key fob ID code is not registered in "Memory 4"	Off
	Key fob ID code is registered in "Memory 4"	On
MEMORY 5	Key fob ID code is not registered in "Memory 5"	Off
	Key fob ID code is registered in "Memory 5"	On
OIL PRESS SW	<ul style="list-style-type: none"> • Ignition switch OFF or ACC • Engine running 	Off
	Ignition switch ON	On
OUT SIDE TEMP NOTE: Diesel engine models	Ignition switch ON	Approximately the same as outside air temperature
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
REVERSE SW CAN	Except selector lever R position	Off
	Selector lever R position	On
PUSH SW	Return to ignition switch to LOCK position	Off
	Press ignition switch	On
REAR DEF SW	Rear window defogger switch OFF	Off
	Rear window defogger switch ON	On
RR FOG SW	Rear fog lamp switch OFF	Off
	Rear fog lamp switch ON	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Monitor Item	Condition	Value/Status	
RR WASHER SW	Rear washer switch OFF	Off	A
	Rear washer switch ON	On	
RR WIPER INT	Rear wiper switch OFF	Off	B
	Rear wiper switch INT	On	
RR WIPER ON	Rear wiper switch OFF	Off	C
	Rear wiper switch ON	On	
RR WIPER STOP	Rear wiper stop position	Off	
	Other than rear wiper stop position	On	D
SHOCK SENSOR	Ignition switch ON	NOMAL	E
	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	F
TAIL LAMP SW	Lighting switch OFF	Off	
	Lighting switch 1ST	On	G
TRNK OPNR SW	When back door opener switch is not pressed	Off	
	When back door opener switch is pressed	On	H
TURN SIGNAL L	Turn signal switch OFF	Off	
	Turn signal switch LH	On	I
TURN SIGNAL R	Turn signal switch OFF	Off	
	Turn signal switch RH	On	J
UNLOCK SHOCK	Other than the following	Off	
	During the unlock operation interlocked with air bag	On	
VEHICLE SPEED	While driving	Equivalent to speedometer reading	

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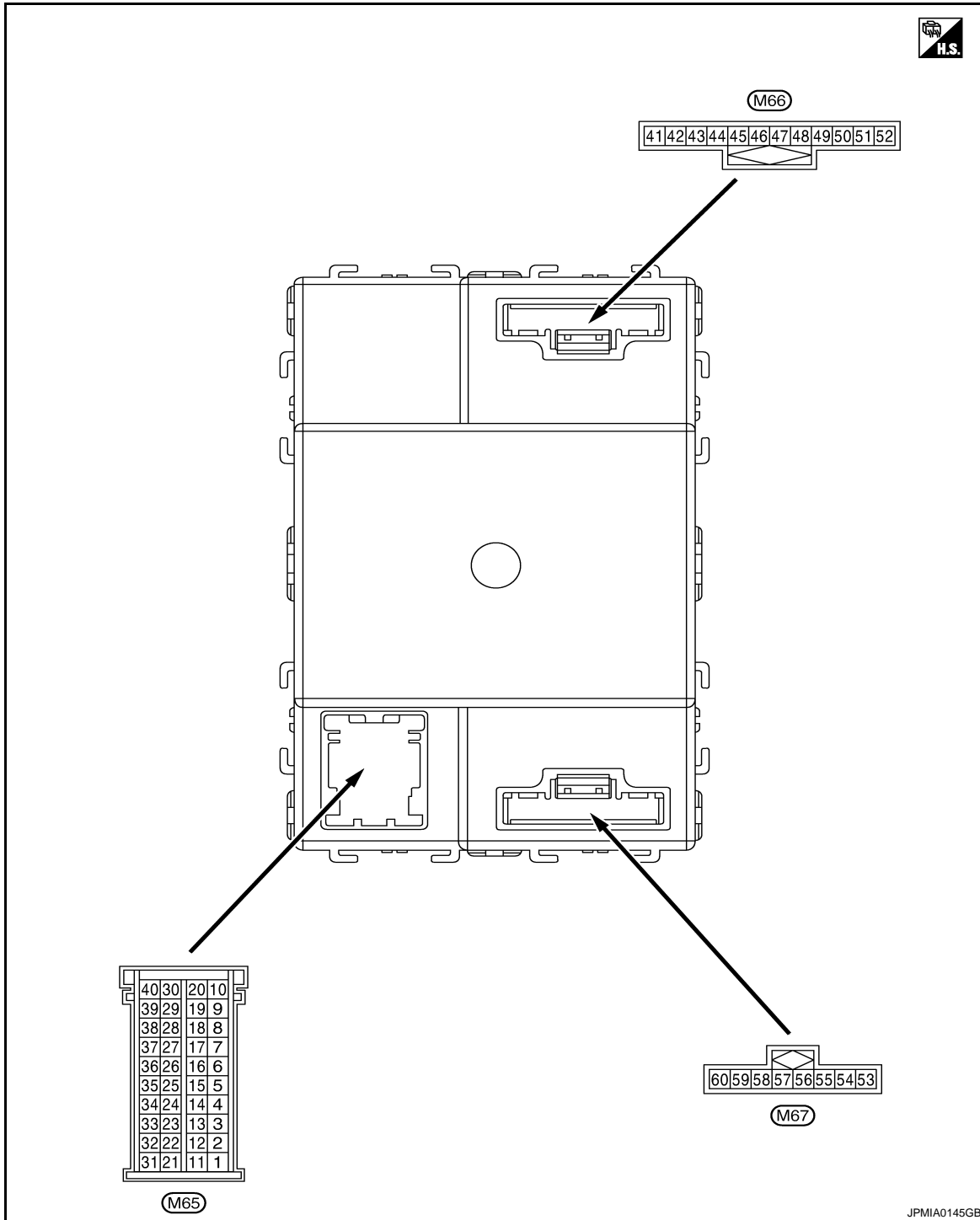
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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

TERMINAL LAYOUT



PHYSICAL VALUES

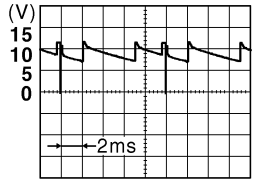
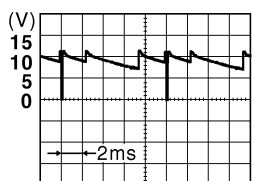
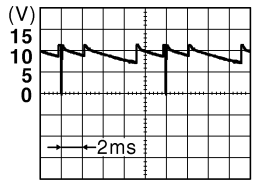
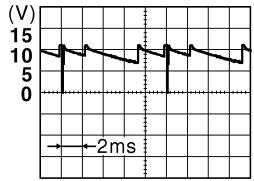
CAUTION:

- 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-27, "COMB SW : CONSULT-III Function \(BCM - COMB SW\)"](#).
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to [BCS-10, "System Description"](#).

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
1 (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)	
					Rear wiper switch INT (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 	
2 (Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Lighting switch 2ND	
					Lighting switch PASS	
					Front fog lamp switch ON	
					Turn signal switch LH	
3 (LG)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Lighting switch AUTO	
					Rear fog lamp switch OFF	
					Front wiper switch MIST	
					Front wiper switch INT	
					Front wiper switch LO	
4 (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)	
					Rear wiper switch ON (Wiper intermittent dial 4)	
					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 	9.1 V					

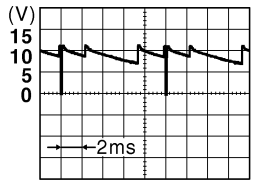
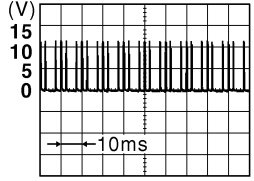
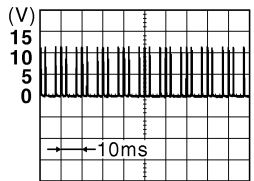
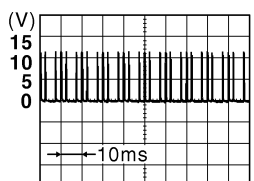
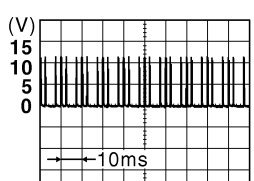
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DLK

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

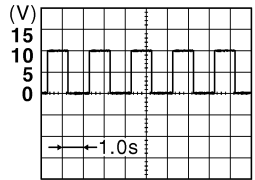
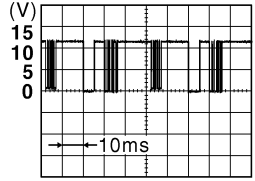
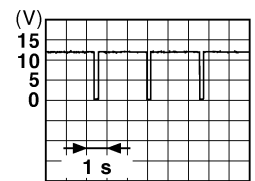
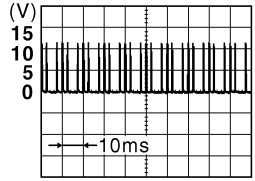
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
5 (W)	Ground	Combination switch OUTPUT 5	Output	All switch OFF	0 V
				Lighting switch 1ST	 <p style="text-align: right; font-size: small;">JPMIA0164GB</p>
				Lighting switch 2ND	
				Lighting switch HI	
				Turn signal switch RH	
7 (P)	Ground	Door lock/unlock switch (Lock)	Input	Door lock/un- lock switch	Not pressed
				Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
8 (LG)	Ground	Hazard switch	Input	Hazard switch	Not pressed
				Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
9 (BR)	Ground	Door lock/unlock switch (Unlock)	Input	Door lock/un- lock switch	Not pressed
				Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
12 (P)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed
				Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
				Pressed to the lock side	0 V
				Pressed	0 V
				Pressed to the unlock side	0 V
				Pressed	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			
+	-					
13 (R)	Ground	Shock detect sensor	Input	Ignition switch OFF or ACC	0 V	
				Ignition switch ON	 <p style="text-align: right; font-size: small;">JPMIA0155GB</p>	
14 (L/R)	Ground	A/C switch	Input	A/C switch	Not pressed	Battery voltage
				Pressed	0 V	
15 (LG/B)	Ground	Fan switch	Input	Fan switch	Not pressed	Battery voltage
				Pressed	0 V	
16 (GR)	Ground	Alarm link	Output	—	—	
17 (BR)	Ground	Light & rain sensor serial link	Input/ Output	Ignition switch OFF or ACC	Battery voltage	
				Ignition switch ON	 <p style="text-align: right; font-size: small;">JPMIA0156GB</p>	
18 (SB)	Ground	Security indicator	Output	Security indicator	ON	0 V
				Blinking	 <p style="text-align: right; font-size: small;">JPMIA0014GB</p>	10.3 V
				OFF	Battery voltage	
19 (L)	—	CAN-H	Input/ Output	—	—	
20 (P)	—	CAN-L	Input/ Output	—	—	
21 (SB)	Ground	Rear window defogger switch	Input	Rear window defogger switch	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
				While pressing	0 V	

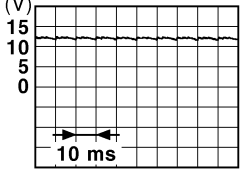
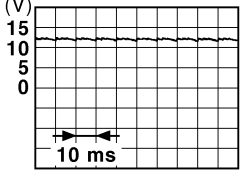
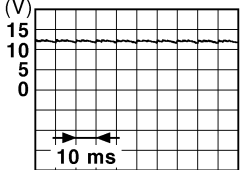
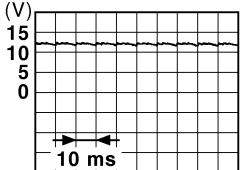
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DLK

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

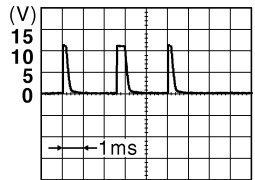
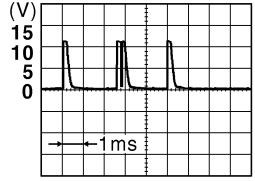
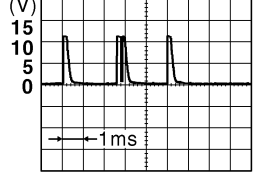
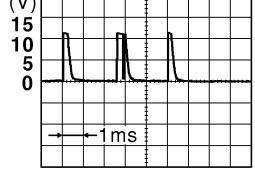
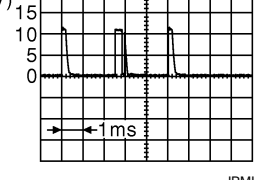
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
24 (GR)	Ground	Door lock status indicator	Output	Door lock status indicator	ON	Battery voltage
					OFF	0 V
25 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	 <p style="text-align: right;">PKID0924E</p>
					ON (When rear door LH opened)	0 V
26 (R)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	 <p style="text-align: right;">PKID0924E</p>
					ON (When driver door opened)	0 V
27 (BR)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	 <p style="text-align: right;">PKID0924E</p>
					ON (When passenger door opened)	0 V
28 (G)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	Battery voltage
					ON (When back door opened)	0 V
29 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	 <p style="text-align: right;">PKID0924E</p>
					ON (When rear door RH opened)	0 V
30 (SB)	Ground	Audio link	Input/ Output	—	—	—

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
31 (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>

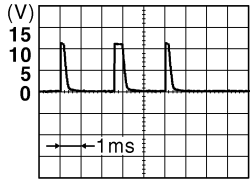
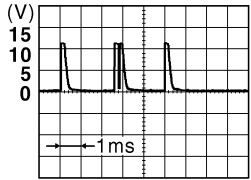
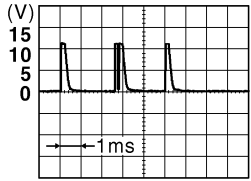
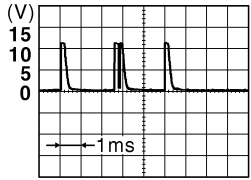
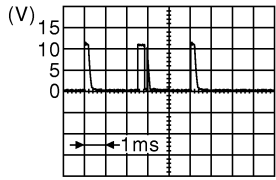
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DLK

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

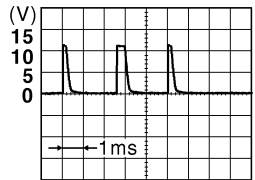
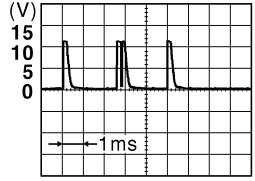
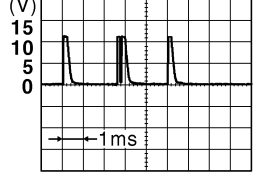
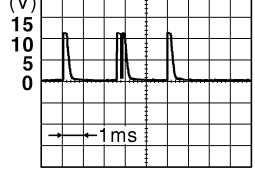
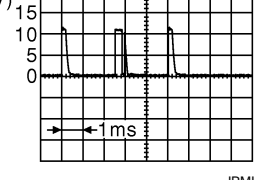
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
32 (G)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	 <p style="text-align: center;">1.4 V</p>
					Lighting switch PASS	 <p style="text-align: center;">1.3 V</p>
					Lighting switch 2ND	 <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			
33 (V)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	 <p style="text-align: right; font-size: small;">JPMIA0165GB</p> <p style="text-align: center;">1.4 V</p>
					Turn signal switch LH	 <p style="text-align: right; font-size: small;">JPMIA0167GB</p> <p style="text-align: center;">1.3 V</p>
					Turn signal switch RH	 <p style="text-align: right; font-size: small;">JPMIA0166GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch LO	 <p style="text-align: right; font-size: small;">JPMIA0168GB</p> <p style="text-align: center;">1.3 V</p>
					Front washer switch ON	 <p style="text-align: right; font-size: small;">JPMIA0196GB</p> <p style="text-align: center;">1.3 V</p>

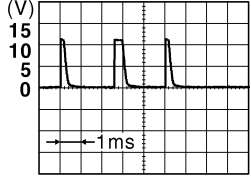

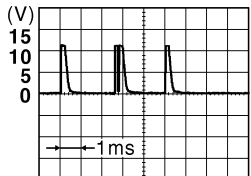
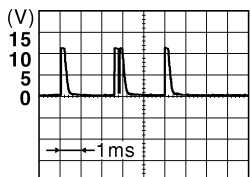
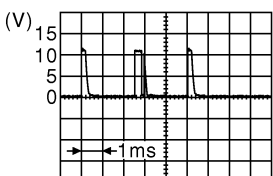
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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

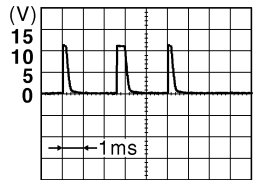
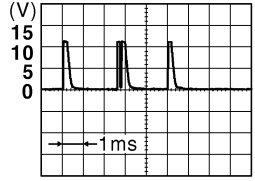
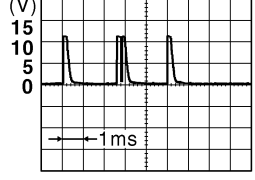
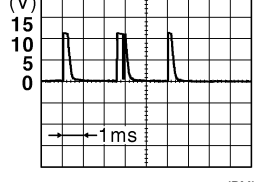
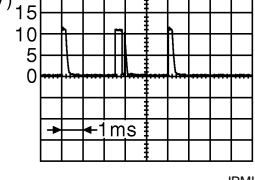
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
34 (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 AUTO (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0167GB</p> <p style="text-align: center;">1.3 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>
					Rear wiper INT (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0167GB</p> <p style="text-align: center;">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; 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			
35 (L)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p>1.4 V</p>
					Lighting switch HI (Wiper intermittent dial 4)	 <p>1.3 V</p>
					Lighting switch 2ND (Wiper intermittent dial 4)	 <p>1.3 V</p>
					Rear wiper switch ON	 <p>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>1.3 V</p>
36 (V)	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder	Battery voltage	
				Remove mechanical key from ignition key cylinder	0 V	
37 (R)	Ground	ACC power supply	Input	Ignition switch OFF	0 V	
				Ignition switch ACC or ON	Battery voltage	
38 (W)	Ground	Ignition power supply	Input	Ignition switch OFF or ACC	0 V	
				Ignition switch ON	Battery voltage	

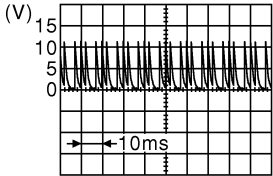
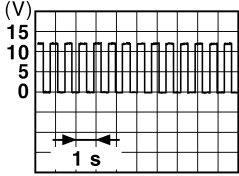
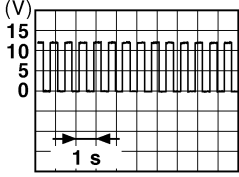
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
39 (P)	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
40 (LG)	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
41 (V)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
42 (V)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time	0 V
				Any other time after passing the interior room lamp battery saver operation time	Battery voltage
43 (L)	Ground	Rear wiper motor	Output	Rear wiper switch OFF	0 V
				Rear wiper switch ON	Battery voltage
44 (L/W)	Ground	Rear wiper auto stop	Input	Rear wiper stop position	0 V
				Ignition switch ON Any position other than rear wiper stop position	 <p style="text-align: right; font-size: small;">JPMIA0197GB</p>
45 (GR)	Ground	Back door lock actuator	Output	Back door opener switch Pressed	Battery voltage (300ms)
				Not pressed	0 V
47 (G/Y)	Ground	Turn signal LH	Output	Turn signal switch OFF	0 V
				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>
48 (G/B)	Ground	Turn signal RH	Output	Turn signal switch OFF	0 V
				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>
49 (Y)	Ground	Rear fog lamp	Output	Lighting switch 1ST and front fog lamp switch ON Rear fog lamp switch OFF	0 V
				Rear fog lamp switch ON	Battery voltage
51 (R/W)*1 (R)*2	Ground	Stop lamp switch	Input	Depress the brake pedal	Battery voltage
				Release the brake pedal	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	-					
52 (R)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0 V
53 (L)	Ground	Power window power supply	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
54 (O)	Ground	Door unlock (All)	Output	Door lock/unlock switch	Pressed to the unlock side	Battery voltage
					Pressed to the lock side	0 V
55 (B)	Ground	Ground	—	Ignition switch ON		0 V
56 (Y) ^{*1} (SB) ^{*2}	Ground	Door lock (All)	Output	Door lock/unlock switch	Pressed to the unlock side	0 V
					Pressed to the lock side	Battery voltage
57 (Y)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
58 (P)	Ground	Power window power supply	Output	Ignition switch OFF		Battery voltage
59 (BR)	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		Battery voltage
60 (GR)	Ground	Driver door unlock	Output	Door lock/unlock switch	Pressed to the unlock side	Battery voltage
					Pressed to the lock side	0 V

*1: With Intelligent Key system

*2: Without Intelligent Key system

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BCM (BODY CONTROL MODULE)

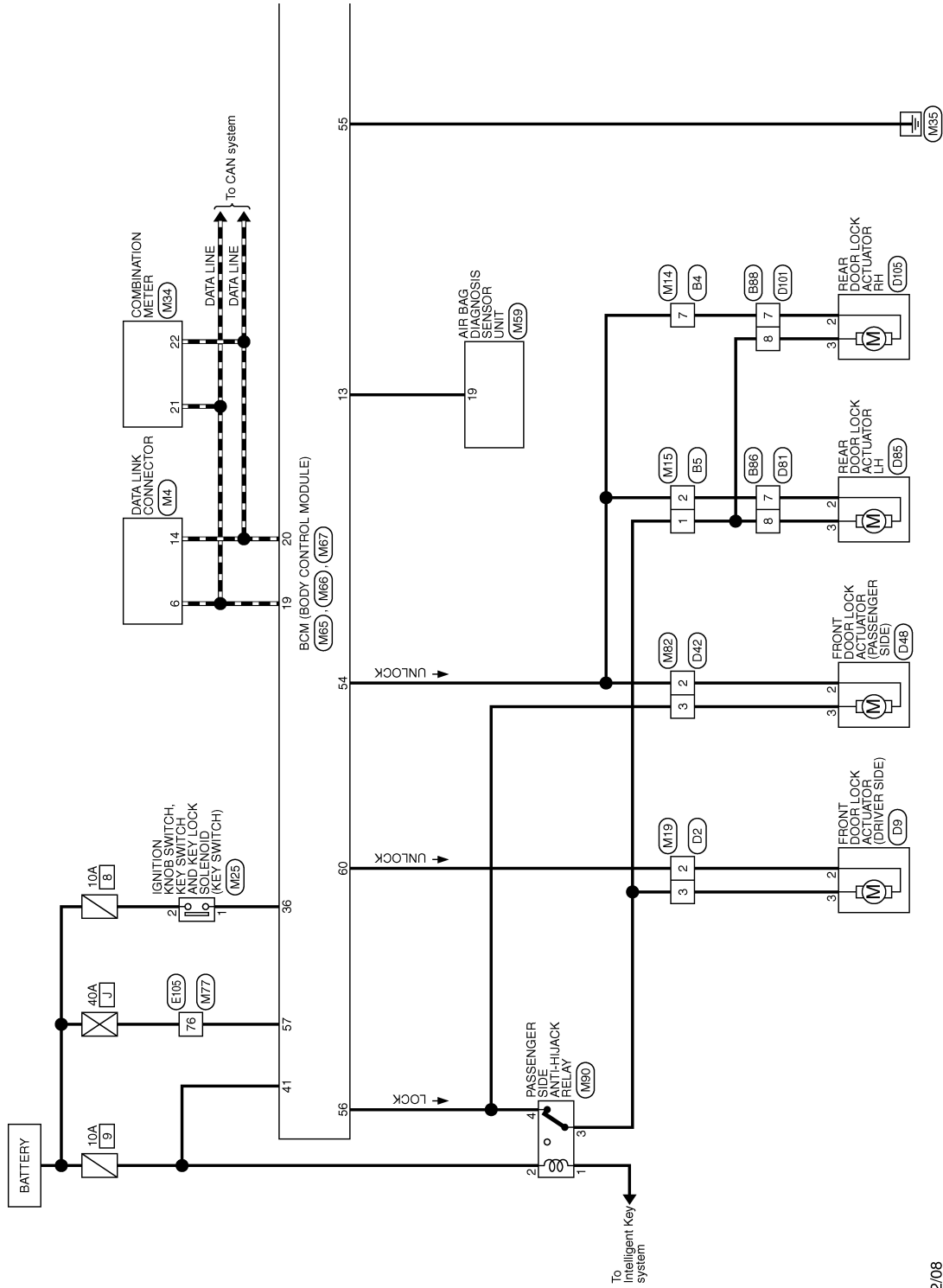
[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - POWER DOOR LOCK CONTROL SYSTEM -

INFOID:000000001609217

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)



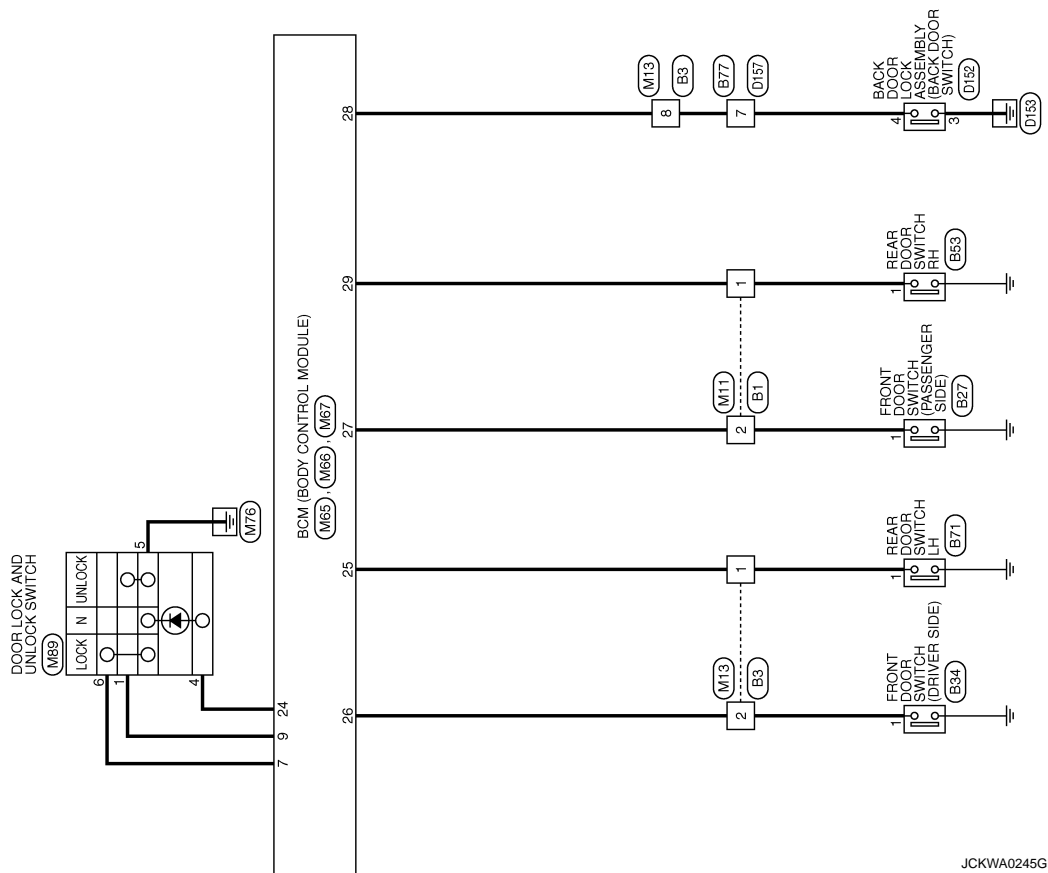
2006/12/08

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]



JCKWA0245GE

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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.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



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

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2	R/W	
8	G	

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS30MW-GS



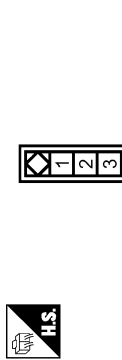
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	NS30MW-GS



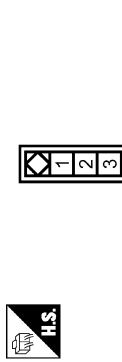
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	
2	O	

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



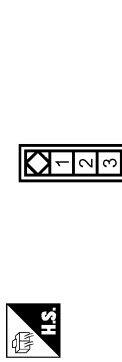
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	

Connector No.	B4
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW



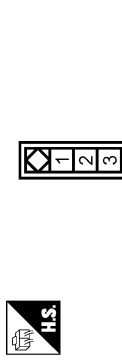
Terminal No.	Color of Wire	Signal Name [Specification]
1	R/W	

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



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

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



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

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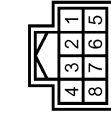
BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

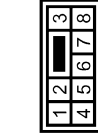
POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



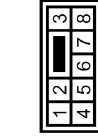
Terminal No.	Color of Wire	Signal Name [Specification]
7	G	-

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



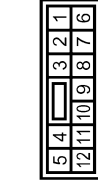
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



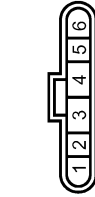
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



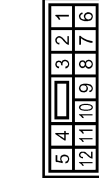
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	- [With Intelligent Key]
3	SB	-

Connector No.	B9
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA04FB-FHA2



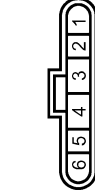
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	- [With Intelligent Key]
3	R/Y	- [With Intelligent Key]

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



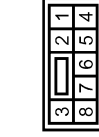
Terminal No.	Color of Wire	Signal Name [Specification]
2	P	- [With Intelligent Key]
3	Y	- [With Intelligent Key]

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	- [With Intelligent Key]
3	Y	- [With Intelligent Key]

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

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DLK

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D185
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA04FB-FHA2



Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA04FB-FHA2



Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	QNGH 49309 EV 4M9



Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
3	SB	-

Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

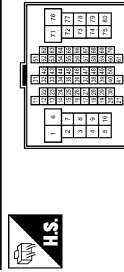
Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
3	SB	-

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

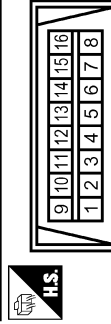
Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



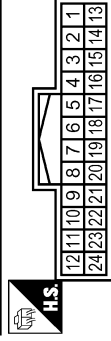
Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



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



Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	-

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

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

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

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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.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2	R	[LHD models]
8	G	

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
7	O	

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS

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

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS12AW-CS

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

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TR08MGY

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

Connector No.	M24
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.	M29
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TR28FY-EX-SC

Terminal No.	Color of Wire	Signal Name [Specification]
19	R	UNLOCK

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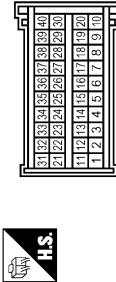
BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

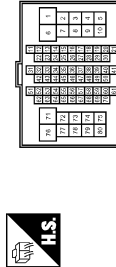
POWER DOOR LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AA840PE



Terminal No.	Color of Wire	Signal Name [Specification]
7	P	LOCK/UNLOCK SW (LOCK)
9	BR	LOCK/UNLOCK SW (UNLOCK)
13	R	SHOCK DETECT SIG
19	L	CAN-H
20	P	CAN-L
24	GR	DOOR LOCK STATUS IND
25	GR	DOOR SW (RL)
26	R	DOOR SW (DR)
27	BR	DOOR SW (AS)
28	G	DOOR SW (BACK)
28	LG	DOOR SW (RR)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-MS16-TM4



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

INTELLIGENT KEY

36	V	KEY SW
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Connector No.	M86
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCJ 211PC122S1017



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

Connector No.	M89
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	7703197674



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
4	GR	-
5	B	-
6	P	-

Connector No.	M87
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCJ 211PC083S0017



Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER)
55	B	GND(POWER)
56	Y	DOOR LOCK OUTPUT (ALL) [With Intelligent Key]
57	Y	BAT(F/L)
60	GR	UNLOCK (DR)

Connector No.	M90
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS0PE-M2



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

BCM (BODY CONTROL MODULE)

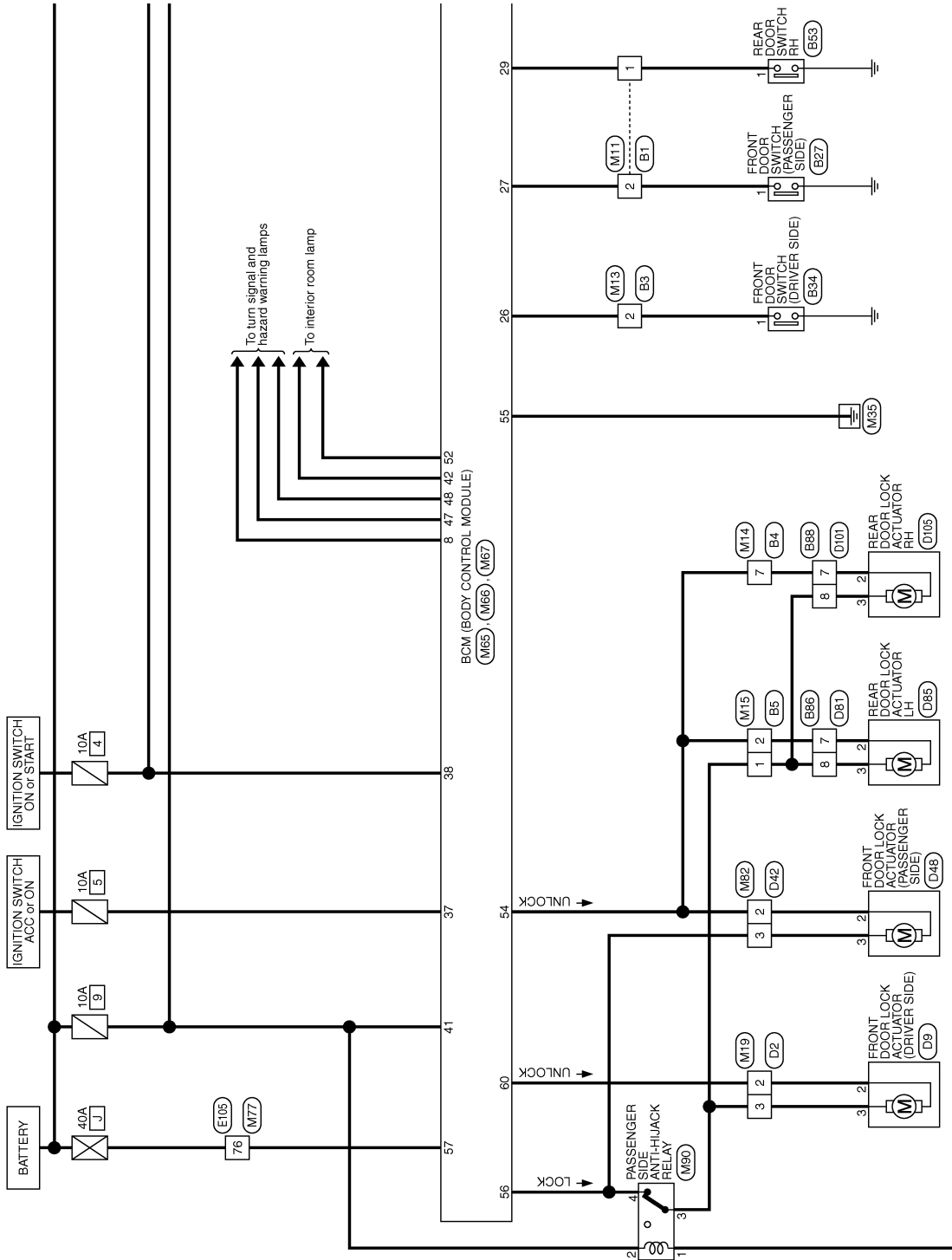
[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - INTELLIGENT KEY CONTROL SYSTEM -

INFOID:000000001609218

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)



2006/12/08

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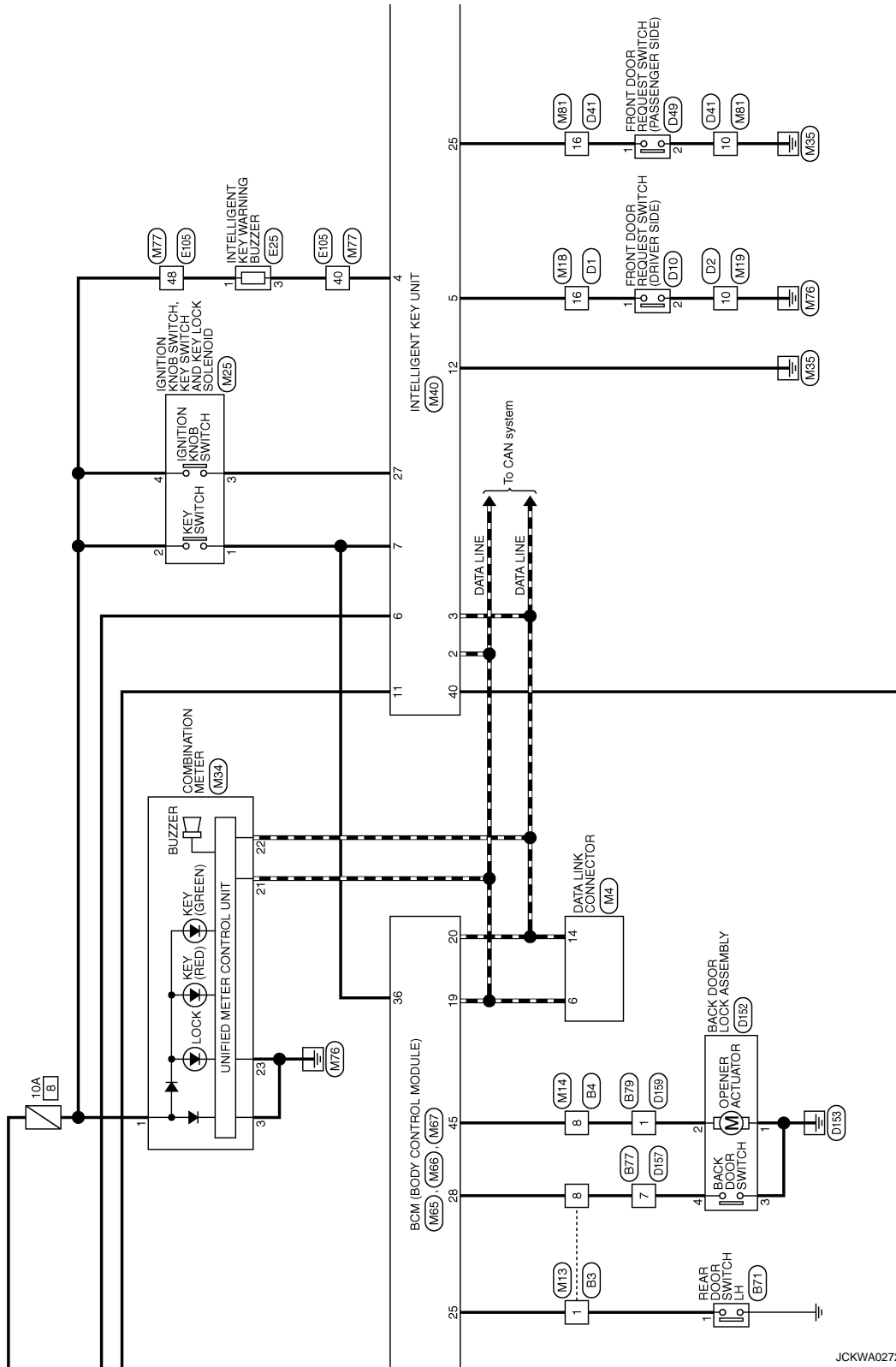
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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

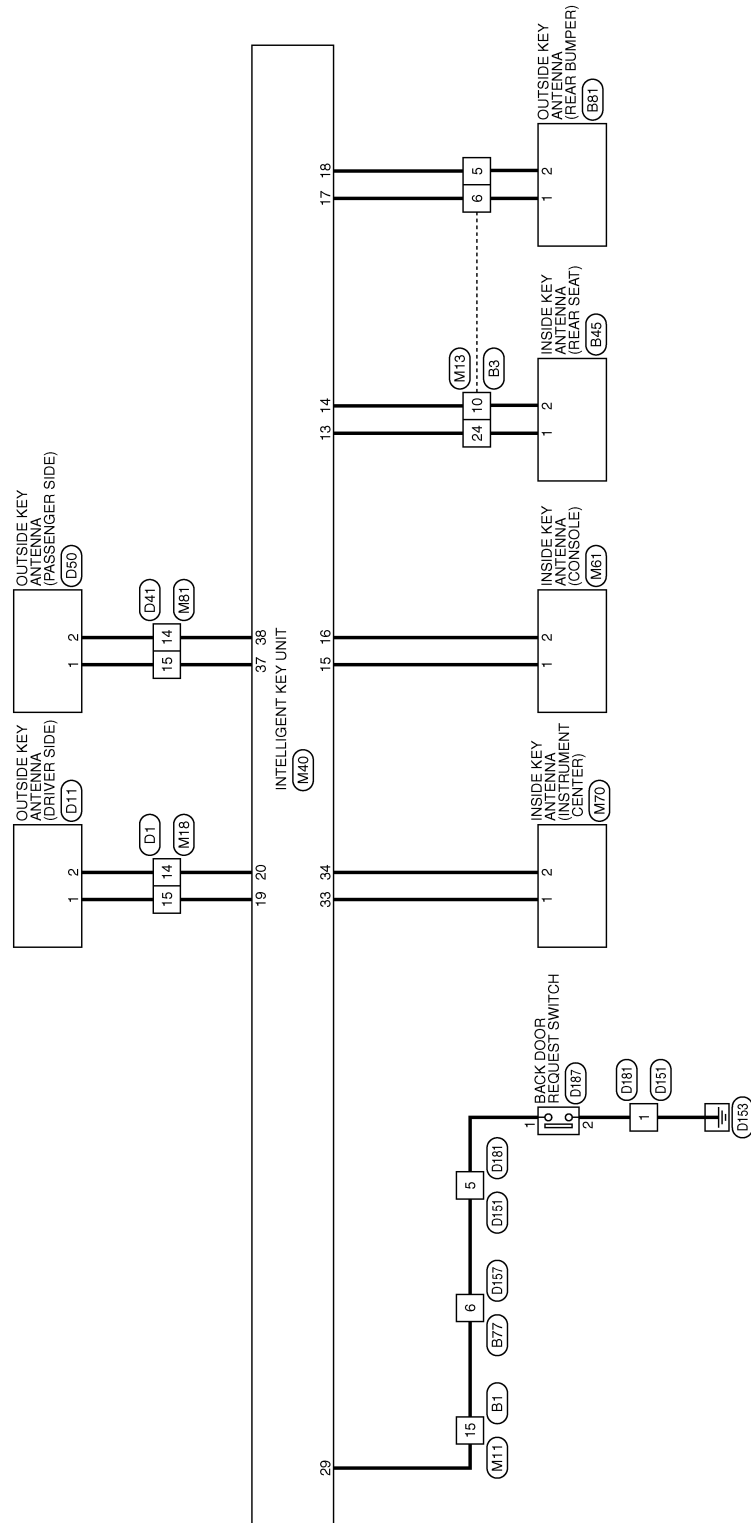


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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >



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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	TH24MW



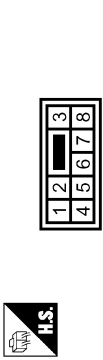
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R/W	- [RHD models]
15	GR	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



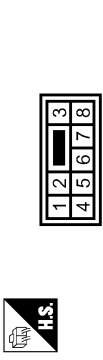
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	BR	- [RHD models]
5	V	-
6	SB	-
8	G	-
10	W/R	-
24	Y	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



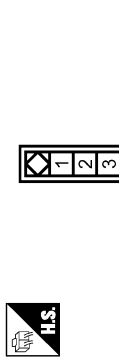
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	GR	-

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



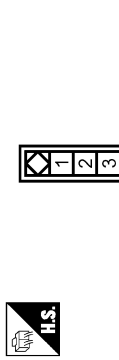
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	O	-

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



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

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



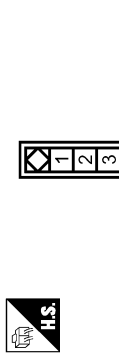
Terminal No.	Color of Wire	Signal Name [Specification]
1	R/W	-

Connector No.	B45
Connector Name	INSIDE KEY ANTENNA (REAR SEAT)
Connector Type	RK02FGY



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

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



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

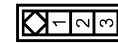
BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

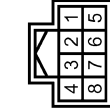
INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

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



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	GR	-
7	G	-

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC



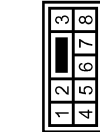
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-

Connector No.	B81
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY



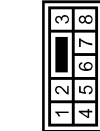
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	V	-

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



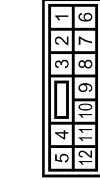
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TK16FW



Terminal No.	Color of Wire	Signal Name [Specification]
14	BF/W	-
15	L/Y	-
16	P	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-
3	SB	- [With Intelligent Key]
10	B	-

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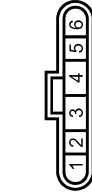
BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	D9
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA04FB-FHA2



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	--[With Intelligent Key]
3	R/Y	--[With Intelligent Key]

Connector No.	D10
Connector Name	FRONT DOOR REQUEST SWITCH (DRIVER SIDE)
Connector Type	RK02ML-B



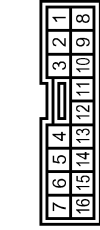
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	B	-

Connector No.	D11
Connector Name	OUTSIDE KEY ANTENNA (DRIVER SIDE)
Connector Type	RK02MGY



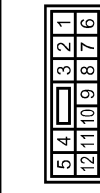
Terminal No.	Color of Wire	Signal Name [Specification]
1	L/Y	-
2	BR/W	-

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TK16FW



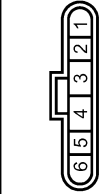
Terminal No.	Color of Wire	Signal Name [Specification]
10	B	-
14	O	-
15	L	-
16	BR	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	--[With Intelligent Key]
3	Y	--[With Intelligent Key]

Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2



Terminal No.	Color of Wire	Signal Name [Specification]
2	P	--[With Intelligent Key]
3	Y	--[With Intelligent Key]

Connector No.	D49
Connector Name	FRONT DOOR REQUEST SWITCH (PASSENGER SIDE)
Connector Type	RK02ML-B



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

Connector No.	D50
Connector Name	OUTSIDE KEY ANTENNA (PASSENGER SIDE)
Connector Type	RK02MGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	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.	D81
Connector Name	WIRE TO WIRE
Connector Type	NSDBFW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA0AFB-FHAZ



Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
3	SB	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA0AFB-FHAZ



Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
3	SB	-

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
5	GR	-

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CINCH 48309 EV 4MB



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
6	GR	-
7	G	-

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	MD2MW-LC



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

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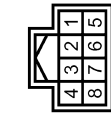
BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
5	GR	-

Connector No.	D187
Connector Name	BACK DOOR REQUEST SWITCH
Connector Type	RK02FGY



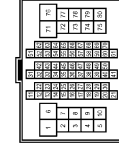
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	B	-

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



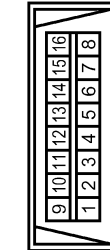
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	LG/B	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



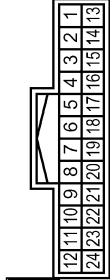
Terminal No.	Color of Wire	Signal Name [Specification]
40	LG/B	-
48	Y	-
76	Y	-

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



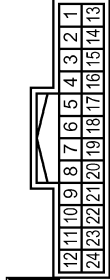
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



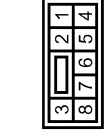
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R	- [RHD models]
15	GR	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	BR	- [RHD models]
5	V	-
6	SB	-
8	G	-
10	W	-
24	Y	-

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	GR	-

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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.	M15
Connector Name	WIRE TO WIRE
Connector Type	NS09FW-CS



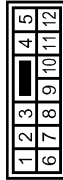
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	O	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TK18MW



Terminal No.	Color of Wire	Signal Name [Specification]
14	BR	-
15	L	-
16	P	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	-
3	SB	-
10	B	-

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK09MGY



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

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB4QFW



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	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	TH4QFW



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	CAN-H
3	P	CAN-L
4	LG	BUZZER
5	P	REQUEST SW (DR)
6	W	IGN SW
7	V	KEY SW
11	V	BATT+
12	B	GND
13	Y	REAR SEAT (+)
14	W	REAR SEAT (-)
15	SB	CONSOLE (+)

Terminal No.	Color of Wire	Signal Name [Specification]
16	BR	CONSOLE (-)
17	SB	REAR BUMPER (+)
18	V	REAR BUMPER (-)
19	L	DRIVER DOOR (+)
20	BR	DRIVER DOOR (-)
25	BR	REQUEST SW (AS)
27	L	KNOB SW
28	GR	REQUEST SW (BD)
33	O	INSTRUMENT (+)
34	G	INSTRUMENT (-)
37	L	PASSENGER DOOR (+)
38	O	PASSENGER DOOR (-)
40	Y	AS ANTI-HIJACK

Connector No.	M61
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	BR	-

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A B C D E F G H I J L M N O P

DLK

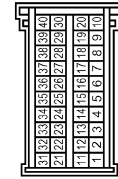
BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

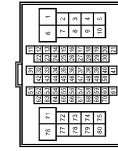
INTELLIGENT KEY SYSTEM (WITHOUT SUPER LOCK SYSTEM)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AA84CFB



Terminal No.	Color of Wire	Signal Name [Specification]
8	LG	HAZARD SW
19	L	CAN-H
20	P	CAN-L
25	GR	DOOR SW (RL)
26	R	DOOR SW (DR)
27	BR	DOOR SW (AS)
28	G	DOOR SW (BACK)
28	LG	DOOR SW (RR)
36	V	KEY SW
37	R	ACC SW
38	W	TGN SW

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH83FW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
40	LG	-
48	Y	-
76	Y	-

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FC121PG12S1017



Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BAT(F)USE
42	V	ROOM LAMP POWER SUPPLY
45	GR	BACK DOOR OPENER
47	G/Y	FLASHER OUTPUT (LEFT)
48	G/B	FLASHER OUTPUT (RIGHT)
52	R	ROOM LAMP OUTPUT

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TK (BMW)



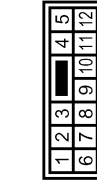
Terminal No.	Color of Wire	Signal Name [Specification]
10	B	-
14	O	-
15	L	-
16	BR	-

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FC121PC08S30017



Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER)
55	B	GND(POWER)
56	Y	DOOR LOCK OUTPUT (ALL) [With Intelligent Key]
57	Y	BAT(F)/L
60	GR	UNLOCK (DR)

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



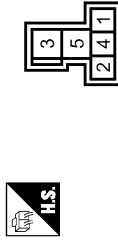
Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
3	Y	- [With Intelligent Key]

Connector No.	M70
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FGY



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

Connector No.	M90
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS03PFB-M2



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

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BCM (BODY CONTROL MODULE)

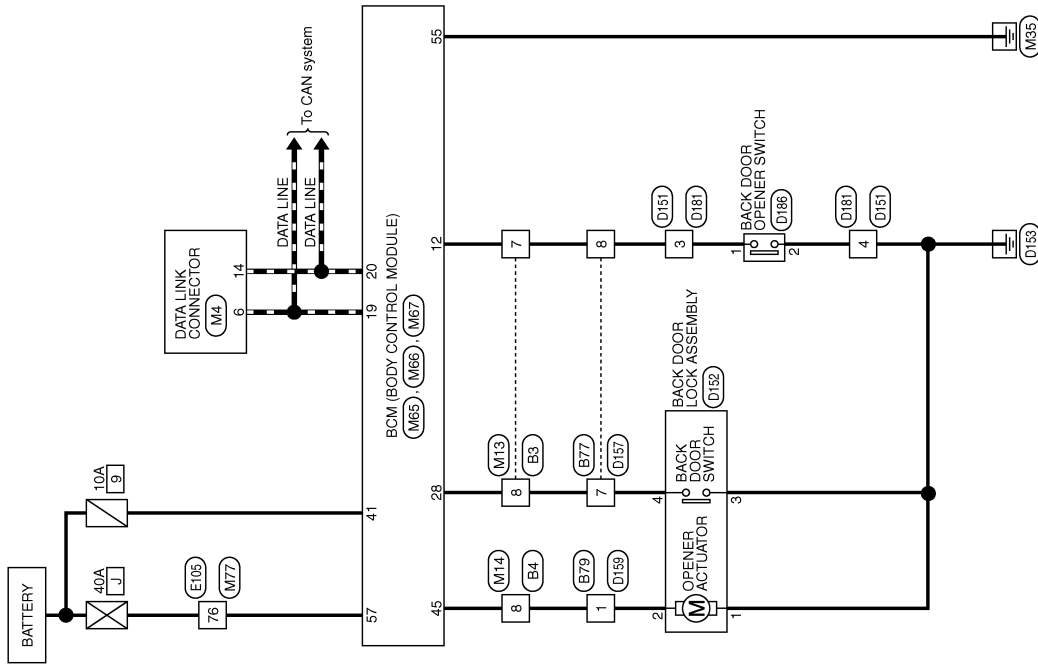
[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

INFOID:000000001609219

BACK DOOR OPENER SYSTEM



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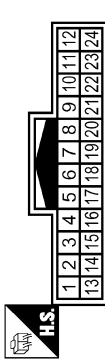
BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



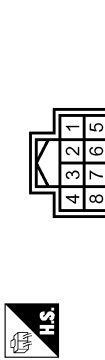
Terminal No.	Color of Wire	Signal Name [Specification]
7	P	
8	G	

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	
8	P	

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC



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

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
3	P	
4	B	

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CINCH 49309 EV 4M9



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	
8	P	

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC



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

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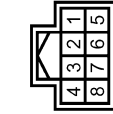
BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

BACK DOOR OPENER SYSTEM

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



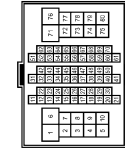
Terminal No.	Color of Wire	Signal Name [Specification]
3	P	-
4	B	-

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	RK02MGY



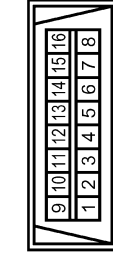
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	B	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MVF-NS16-TM4



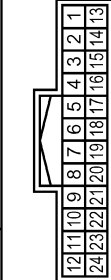
Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	-

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



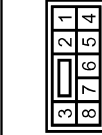
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



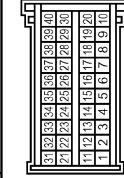
Terminal No.	Color of Wire	Signal Name [Specification]
7	P	-
8	G	-

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



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

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	JAN60FB



Terminal No.	Color of Wire	Signal Name [Specification]
12	P	TRUNK/BACK DOOR OPEN SW
19	L	CAN-H
20	P	CAN-L
28	G	DOOR SW (BACK)

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FC1211PC122S1017



Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BAT(FUSE)
45	GR	BACK DOOR OPENER

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BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

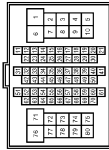
BACK DOOR OPENER SYSTEM

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 211PC083S0017



Terminal No.	Color of Wire	Signal Name [Specification]
55	B	GND(POWER)
57	Y	BAT1(F/L)

Connector No.	M77
Connector Name	WIRE TO WIPE
Connector Type	TH807W-NS16-TM4



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

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Fail Safe

Fail-safe index

BCM performs fail-safe control when any DTC listed below is detected.

INFOID:000000001559293

BCM (BODY CONTROL MODULE)

[WITH I-KEY, WITHOUT SUPER LOCK]

< ECU DIAGNOSIS >

Display contents of CONSULT	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 CONTROL

BCM detects a rear wiper stopping position according to a rear wiper auto stop signal.

When a rear wiper auto stop signal is in the condition listed below, BCM stops power supply to rear wiper after rear wiper is activated for five seconds.

Ignition switch	Rear wiper switch	Rear wiper auto stop signal
ON	OFF	The rear wiper auto stop signal (stop position) cannot be input for 5 seconds.
	ON	The rear wiper auto stop signal does not change for 5 seconds.

NOTE:

The above operation is repeated when operating the rear wiper switch one minute after the stop of the rear wiper caused by Fail-safe.

TURN SIGNAL LAMP CONTROL

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.

LIGHT & RAIN SENSOR MALFUNCTION DETECTION FUNCTION

BCM controls the following items when LIGHT & RAIN sensor has a malfunction.

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.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

DTC Inspection Priority Chart

INFOID:000000001559294

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

DTC Index

INFOID:000000001559295

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.

CONSULT display	TIME		Fail-safe	Refer to
No DTC is detected. further testing may be required.	—	—	—	—
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-45 • Without Intelligent Key system SEC-194
B2191: DIFFERENCE OF KEY	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-47 • Without Intelligent Key system SEC-196
B2192: ID DISCORD BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-48 • Without Intelligent Key system SEC-197
B2193: CHAIN OF BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-50 • Without Intelligent Key system SEC-199
B2194: DISCORD BCM-I-KEY	CRNT	PAST	×	SEC-51
B2195: ANTI SCANNING	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-52 • Without Intelligent Key system SEC-200
B2196: DONGLE NG	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-53 • Without Intelligent Key system SEC-201

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

SYMPTOM DIAGNOSIS

DOOR LOCK FUNCTION SYMPTOMS

DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH : Symptom Table

INFOID:000000001183725

DOOR LOCK AND UNLOCK SWITCH OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-20, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Passenger side door is not in anti-hijack state.
- Doors are not locked by Intelligent Key or door request switch.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page	
Door lock and unlock function does not operate with door lock and unlock switch.	1. Check BCM power supply and ground circuit.	DLK-71	
	2. Check door lock and unlock switch.	DLK-73	
	3. Check intermittent incident.	GI-39	
Door lock function does not operate with door lock and unlock switch.	1. Check door lock and unlock switch.	DLK-73	
	2. Check door switch.	Passenger side	DLK-84
		Rear LH	DLK-86
		Rear RH	DLK-87
		Back door	DLK-89
3. Check intermittent incident.	GI-39		
Specific door lock actuator does not operate.	1. Check door lock actuator.	Driver side	DLK-95
		Passenger side	DLK-97
		Rear LH	DLK-98
		Rear RH	DLK-100
	2. Check intermittent incident.	GI-39	
Rear LH and RH door lock actuator does not operate.	1. Check anti-hijack relay.	DLK-125	
	2. Check intermittent incident.	GI-39	
Door lock and unlock switch indicator does not illuminate.	1. Check door lock and unlock switch indicator.	DLK-75	
	2. Check Intermittent Incident.	GI-39	

DLK

INTELLIGENT KEY

INTELLIGENT KEY : Symptom Table

INFOID:000000001183726

INTELLIGENT KEY OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-20, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Conditions of Vehicle (Operating Conditions)

- Door lock and unlock operation 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.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
All of the Intelligent Key functions do not operate.	1. Check Intelligent Key power supply and ground circuit.	DLK-71
	2. Check driver side door switch.	DLK-83
	3. Check key switch.	DLK-91
	4. Check ignition knob switch.	DLK-93
	5. Check Intelligent Key battery.	DLK-134
	6. Check intermittent incident.	GI-39
Anti-hijack function does not operate by Intelligent Key.	1. Check "SELECTIVE UNLOCK FUNCTION" setting in "WORK SUPPORT".	DLK-65
	2. Check intermittent incident.	GI-39

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH : Symptom Table

INFOID:000000001183727

DOOR REQUEST SWITCH OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-20. "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

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.
- Intelligent Keys are not inside the vehicle.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Door lock and unlock do not operate by door request switch.	1. Check "LOCK/UNLOCK BY I-KEY" setting in "WORK SUPPORT".	DLK-65
	2. Check intermittent incident.	GI-39
Door lock/unlock does not operate by request switch (driver side).	1. Check door request switch (driver side).	DLK-77
	2. Check outside key antenna (driver side).	DLK-107
	3. Check intermittent incident.	GI-39
Door lock/unlock does not operate by request switch (passenger side).	1. Check door request switch (passenger side).	DLK-79
	2. Check outside key antenna (passenger side).	DLK-110
	3. Check intermittent incident.	GI-39
Door lock/unlock does not operate by request switch (back door).	1. Check door request switch (back door).	DLK-80
	2. Check outside key antenna (rear bumper).	DLK-113
	3. Check intermittent incident.	GI-39

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Symptom	Diagnosis/service procedure	Reference page
Anti-hijack function does not operate by driver side door request switch (other door lock functions operate).	1. Check "SELECTIVE UNLOCK FUNCTION" setting in "WORK SUPPORT".	DLK-65
	2. Check intermittent incident.	GI-39
Passenger side anti-hijack function does not operate by passenger side door request switch (other door lock functions operate).	1. Check passenger side anti-hijack relay.	DLK-125
	2. Check intermittent incident.	GI-39

KEY REMINDER

KEY REMINDER : Symptom Table

INFOID:000000001183728

KEY REMINDER OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-20, "Work Flow"](#).
- To understand the operation when it does work, refer to [DLK-35, "KEY REMINDER : System Description"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page	
Key reminder operation does not operate.	1. Check door switch (driver side).	DLK-83	
	2. Check inside key antenna.	Instrument center	DLK-116
		Console	DLK-119
		Rear seat	DLK-122
	3. Check intermittent incident.	GI-38	

DLK

AUTO DOOR LOCK

AUTO DOOR LOCK : Symptom Table

INFOID:000000001183729

AUTO DOOR LOCK OPERATION MALFUNCTION

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-20, "Work Flow"](#).
- To understand the operation when it does work, refer to [DLK-38, "AUTO DOOR LOCK : System Description"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Symptom Table

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Symptom	Diagnosis/service procedure	Reference page	
Auto door lock operation does not operate.	1. Check "AUTO RELOCK TIMER" setting in "WORK SUPPORT".	DLK-65	
	2. Check door switch.	Driver side	DLK-83
		Passenger side	DLK-84
		Rear LH	DLK-86
		Rear RH	DLK-87
		Back door	DLK-89
	3. Check ignition knob switch.	DLK-93	
	4. Check key switch.	DLK-91	
5. Check intermittent incident.	GI-39		

VEHICLE SPEED SENSING AUTO DOOR LOCK

VEHICLE SPEED SENSING AUTO DOOR LOCK : Symptom Table

INFOID:000000001183730

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-20, "Work Flow"](#).
- To understand the operation when it does work, refer to [DLK-41, "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.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Vehicle speed sensing auto door lock operation does not operate.	1. Check vehicle speed signal.	DLK-133
	2. Check intermittent incident.	GI-39

BACK DOOR OPEN FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR OPEN FUNCTION SYMPTOMS

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : Symptom Table

INFOID:000000001183731

BACK DOOR OPENER FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-20, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Door lock function is normal.
- Vehicle speed is less than 5 km/h (3 MPH).
- All doors are unlocked.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Back door opener function does not operate by back door opener switch.	1. Check back door opener switch.	DLK-105
	2. Check vehicle speed signal.	DLK-133
	3. Check back door opener actuator.	DLK-103
	4. Check intermittent incident.	GI-39

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DLK

WARNING FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

WARNING FUNCTION SYMPTOMS

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Symptom Table

INFOID:000000001183732

BUZZER (COMBINATION METER) OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-20, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating conditions are extremely complicated. During operation confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-52, "System Description"](#).
- Door lock function is normal.

Symptom Table

Symptom		Diagnosis/service procedure	Reference page
Ignition knob return forgotten warning does not operate properly.		1. Check buzzer (combination meter).	DLK-129
		2. Check intermittent incident.	GI-39
Ignition key warning does not operate properly.		1. Check buzzer (combination meter).	DLK-129
		2. Check intermittent incident.	GI-39
OFF position warning does not operate properly.		1. Check buzzer (combination meter).	DLK-129
		2. Check intermittent incident.	GI-39
Take away warning does not operate properly.	Take away through window	1. Check buzzer (combination meter).	DLK-129
		2. Check intermittent incident.	GI-39

INTELLIGENT KEY WARNING BUZZER

INTELLIGENT KEY WARNING BUZZER : Symptom Table

INFOID:000000001183733

INTELLIGENT KEY WARNING BUZZER OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-20, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

Warning chime functions operating conditions are extremely complicated. During operation confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-52, "System Description"](#).

Symptom Table

Symptom		Diagnosis/service procedure	Reference page
Take away warning does not operate properly.	Any door open to all doors closed.	1. Check Intelligent Key warning buzzer.	DLK-127
		2. Check intermittent incident.	GI-39
Door lock operation warning chime does not operate properly.	Request switch operation	1. Check Intelligent Key warning buzzer.	DLK-127
		2. Check intermittent incident.	GI-39
	Intelligent Key button operation	1. Check Intelligent Key warning buzzer.	DLK-127
		2. Check intermittent incident.	GI-39

WARNING FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

WARNING LAMP

WARNING LAMP : Symptom Table

INFOID:000000001183734

WARNING LAMP OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-20, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Warning chime functions operating conditions are extremely complicated. During operation confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-52, "System Description"](#).
- Door lock function is normal.

Symptom Table

Symptom		Diagnosis/service procedure	Reference page
OFF position warning does not operate properly.		1. Check LOCK warning lamp. (RED blinking)	DLK-131
		2. Check intermittent incident.	GI-39
Take away warning does not operate properly.	Any door open to all doors closed.	1. Check KEY warning lamp. (RED blinking)	DLK-131
		2. Check intermittent incident.	GI-39
	Door is open	1. Check KEY warning lamp. (RED blinking)	DLK-131
		2. Check intermittent incident.	GI-39
	Take away through window	1. Check KEY warning lamp. (RED blinking)	DLK-131
		2. Check intermittent incident.	GI-39
Intelligent Key low battery warning does not operate properly.		1. Check “LOW BAT OF KEY FOB WARN” setting in “WORK SUPPORT”.	DLK-65
		2. Check Intelligent Key battery.	DLK-134
		3. Check KEY warning lamp. (GREEN blinking)	DLK-130
		4. Check intermittent incident.	GI-39

BACK DOOR

BACK DOOR : Symptom Table

INFOID:000000001183735

BACK DOOR OPEN WARNING OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-20, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Door lock function and back door opener function is normal.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Back door open warning does not operate properly.	1. Check back door opener switch.	DLK-105
	2. Check intermittent incident.	GI-39

HAZARD AND BUZZER REMINDER FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

HAZARD AND BUZZER REMINDER FUNCTION SYMPTOMS

HAZARD WARNING LAMP

HAZARD WARNING LAMP : Symptom Table

INFOID:000000001183737

HAZARD REMINDER OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-20, "Work Flow"](#).
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- “HAZARD ANSWER BACK” is ON when setting on CONSULT-III.
- Door lock function is normal.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Hazard reminder operation does not operate properly.	1. Check setting of hazard reminder with CONSULT-III.	DLK-65
	2. Check intermittent incident.	GI-39

INTELLIGENT KEY WARNING BUZZER

INTELLIGENT KEY WARNING BUZZER : Symptom Table

INFOID:000000001183736

BUZZER REMINDER OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-20, "Work Flow"](#).
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

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.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Buzzer reminder operation does not operate properly.	1. Check setting of buzzer reminder with CONSULT-III.	DLK-65
	2. Check intermittent incident.	GI-39

SQUEAK AND RATTLE TROUBLE DIAGNOSES

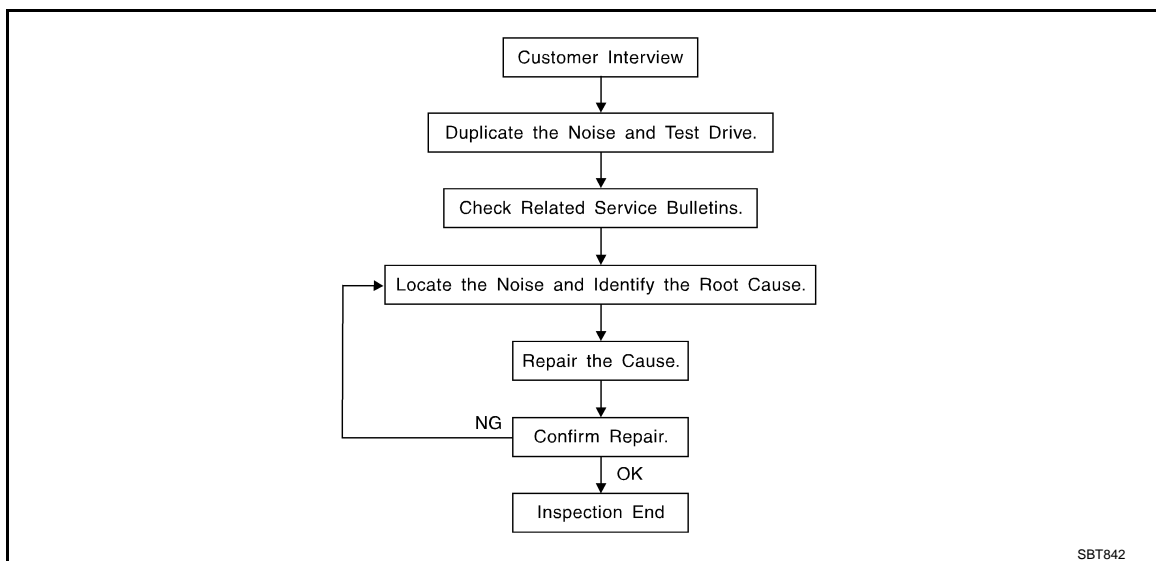
< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000001183738



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-215, "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-213, "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, WITHOUT SUPER LOCK]

Inspection Procedure

INFOID:000000001183739

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, 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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH I-KEY, WITHOUT SUPER LOCK]

Diagnostic Worksheet

INFOID:000000001183740



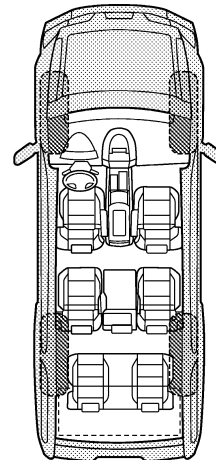
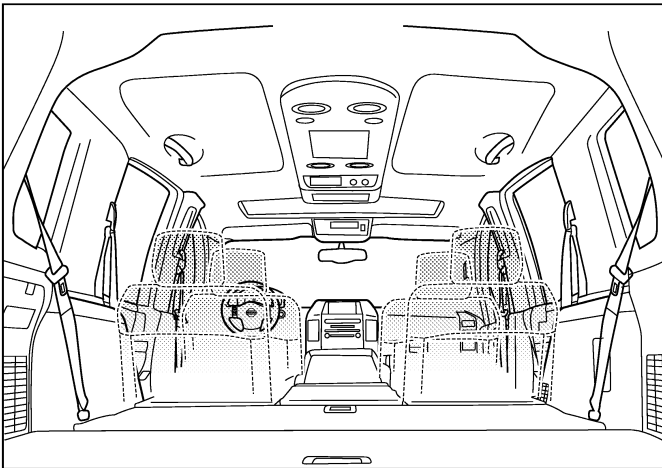
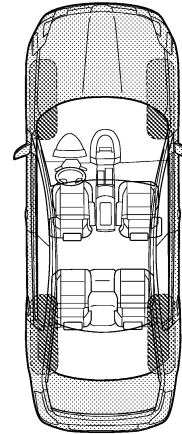
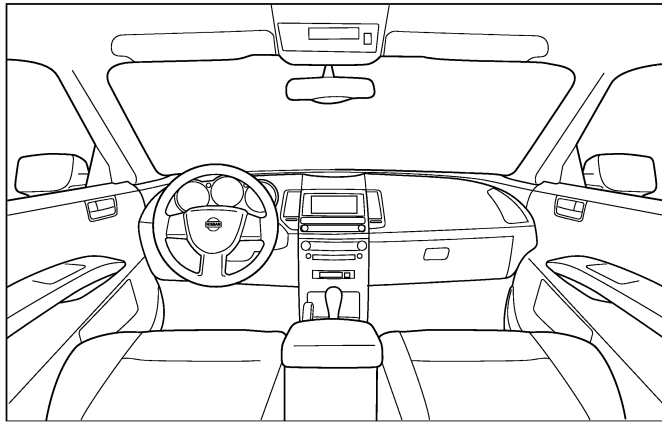
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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, 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

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000001183741

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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. 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:000000001183742

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

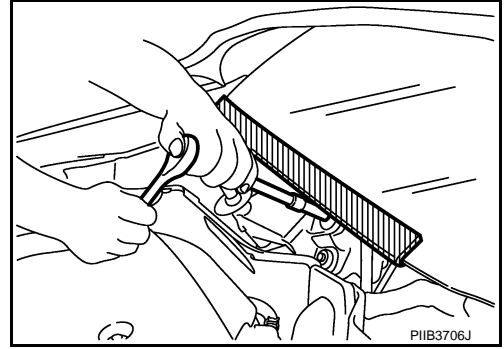
< PRECAUTION >

[WITH I-KEY, WITHOUT SUPER LOCK]

Precaution for Procedure without Cowl Top Cover

INFOID:000000001183743

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



Work

INFOID:000000001183744

- 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 >

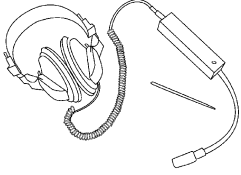
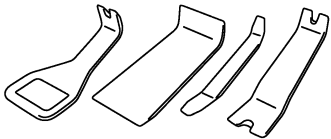

[WITH I-KEY, WITHOUT SUPER LOCK]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000001183745

Tool name	Description
<p>Engine ear</p>  <p>SIIA0995E</p>	<p>Locating the noise</p>
<p>Remover tool</p>  <p>PIIB7923J</p>	<p>Remove the clips, pawls, and metal clips</p>
<p>Power tool</p>  <p>PIIB1407E</p>	

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ON-VEHICLE MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

INFOID:000000001183746

BASIC INSPECTION

1. CHECK POWER DOOR LOCK AND UNLOCK SWITCH OPERATION

Check door lock and unlock operation by operating door lock and unlock switch.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-203, "DOOR LOCK AND UNLOCK SWITCH : Symptom Table"](#).

2. CHECK INTELLIGENT KEY OPERATION

Check door lock and unlock operation by operating the Intelligent Key remote control button.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to [DLK-203, "INTELLIGENT KEY : Symptom Table"](#).

3. CHECK DOOR REQUEST SWITCH OPERATION

Check door lock and unlock operation by operating door request switch.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Refer to [DLK-204, "DOOR REQUEST SWITCH : Symptom Table"](#).

4. CHECK KEY REMINDER OPERATION

Check key reminder operation. Refer to [DLK-35, "KEY REMINDER : System Description"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Refer to [DLK-205, "KEY REMINDER : Symptom Table"](#).

5. CHECK AUTO DOOR LOCK OPERATION

Check auto door lock operation. Refer to [DLK-38, "AUTO DOOR LOCK : System Description"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Refer to [DLK-205, "AUTO DOOR LOCK : Symptom Table"](#).

6. CHECK VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION

Check vehicle speed sensing auto door lock operation. Refer to [DLK-41, "VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Refer to [DLK-206, "VEHICLE SPEED SENSING AUTO DOOR LOCK : Symptom Table"](#).

7. CHECK BACK DOOR OPENER OPERATION

Check back door opener operation by operating the back door opener switch.

Is the inspection result normal?

YES >> GO TO 8.

NO >> Refer to [DLK-207, "BACK DOOR OPENER SWITCH : Symptom Table"](#).

8. CHECK WARNING FUNCTION

Check warning function. Refer to [DLK-52, "System Description"](#).

Is the inspection result normal?

YES >> GO TO 9.

PRE-INSPECTION FOR DIAGNOSTIC

[WITH I-KEY, WITHOUT SUPER LOCK]

< ON-VEHICLE MAINTENANCE >

NO [Buzzer (combination meter)]>> Refer to [DLK-208. "BUZZER \(COMBINATION METER\) : Symptom Table"](#).

NO (Intelligent Key warning buzzer)>> Refer to [DLK-208. "INTELLIGENT KEY WARNING BUZZER : Symptom Table"](#).

NO (Warning lamp)>> Refer to [DLK-209. "WARNING LAMP : Symptom Table"](#).

NO (Back door open warning)>> Refer to [DLK-209. "BACK DOOR : Symptom Table"](#).

9.CHECK HAZARD AND BUZZER REMINDER FUNCTION

Check hazard and buzzer reminder function by Intelligent Key or request switch. Refer to [DLK-320. "System Description"](#).

Is the inspection result normal?

YES >> GO TO 10.

NO (Hazard warning lamp)>> Refer to [DLK-210. "INTELLIGENT KEY WARNING BUZZER : Symptom Table"](#).

NO (Intelligent Key warning buzzer)>> Refer to [DLK-210. "HAZARD WARNING LAMP : Symptom Table"](#).

10.CHECK OUT

CHECK OUT.

>> INSPECTION END

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HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

ON-VEHICLE REPAIR

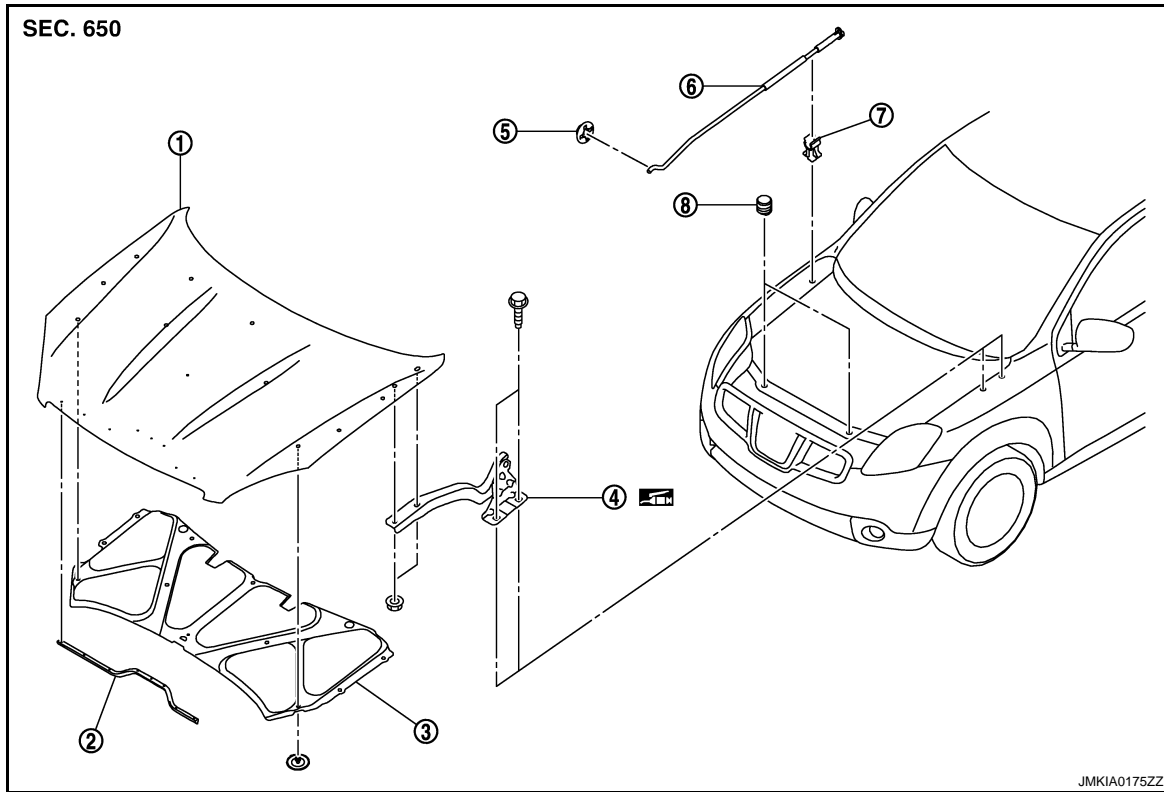
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000001183747

REMOVAL



- | | | |
|------------------|------------------------|---------------------|
| 1. Hood assembly | 2. Hood sealing rubber | 3. Hood insulator |
| 4. Hood hinge | 5. Grommet | 6. Hood support rod |
| 7. Clamp | 8. Hood bumper rubber | |

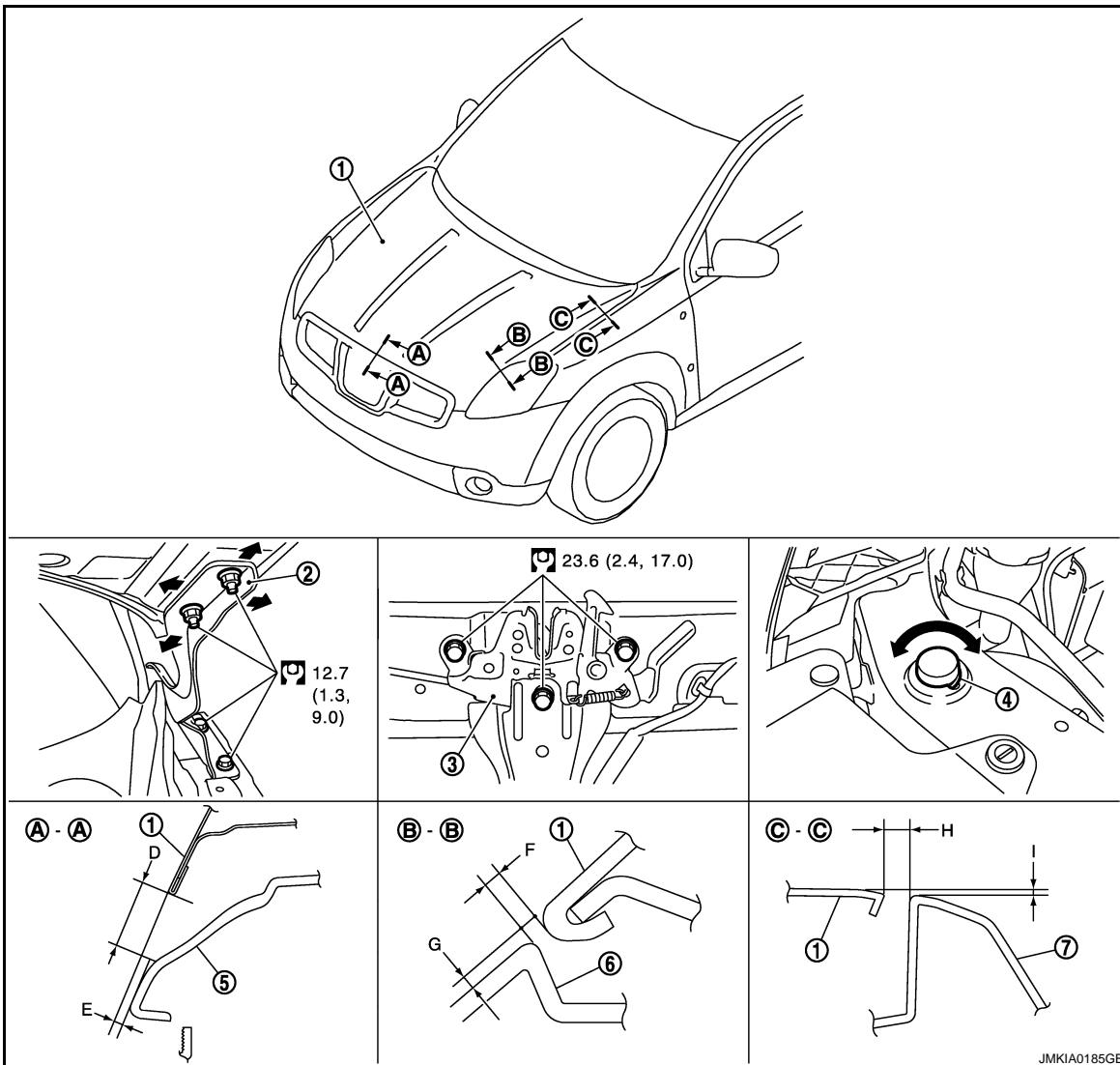
Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]



- | | | |
|-----------------------|-----------------|---------------------------|
| 1. Hood assembly | 2. Hood hinge | 3. Hood lock assembly |
| 4. Hood bumper rubber | 5. Front grille | 6. Front combination lamp |
| 7. Front fender | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:000000001183748

REMOVAL

- 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.
- 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
 - Hood sealing rubber

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

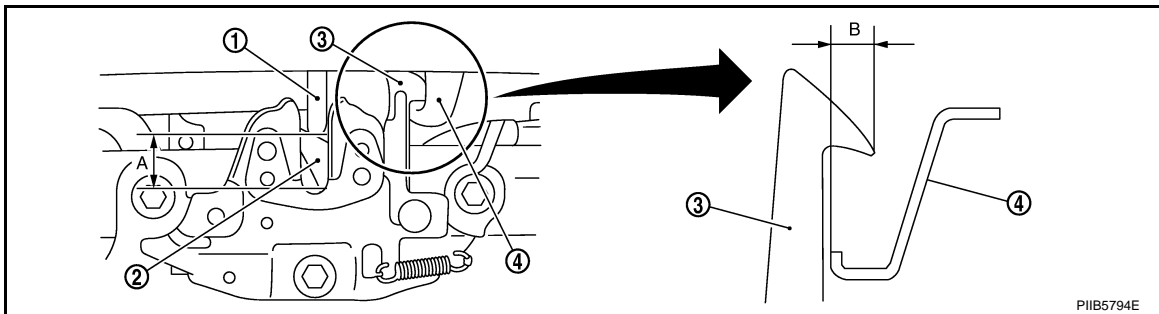
- Perform work with 2 workers, because of its heavy weight.
- Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installing, perform hood fitting adjustment. Refer to [DLK-224, "HOOD ASSEMBLY : Adjustment"](#).

HOOD ASSEMBLY : Adjustment

INFOID:000000001183749

Portion			Standard	Right/left Clearance (MAX)
Hood – Front bumper	A – A	D	Clearance 5.2 – 9.2 mm (0.205 – 0.362 in)	2.0 mm (0.079 in)
		E	Surface height - 0.2 – 3.8 mm (- 0.008 – 0.150 in)	2.0 mm (0.079 in)
Hood – Front combination lamp	B – B	F	Clearance 3.7 – 7.7 mm (0.140 – 0.303 in)	2.0 mm (0.079 in)
		G	Surface height - 2.3 – 2.3 mm (- 0.091 – 0.091 in)	2.3 mm (0.091 in)
Hood – Front fender	C – C	H	Clearance 3.9 – 5.9 mm (0.154 – 0.232 in)	1.5 mm (0.059 in)
		I	Surface height - 1.0 – 1.0 mm (- 0.039 – 0.039 in)	1.5 mm (0.059 in)

1. 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.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the hood lock and adjust the height by rotating the bumper rubber until the hood becomes 1 to 1.5 mm (0.039 to 0.059 in) lower than the fender.
4. 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.
5. Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately. 200 mm (7.874 in) height or by pressing the hood lightly [approximately. 29 N (3 kg)].



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)

6. After adjustment tighten lock bolts to the specified torque.

HOOD HINGE

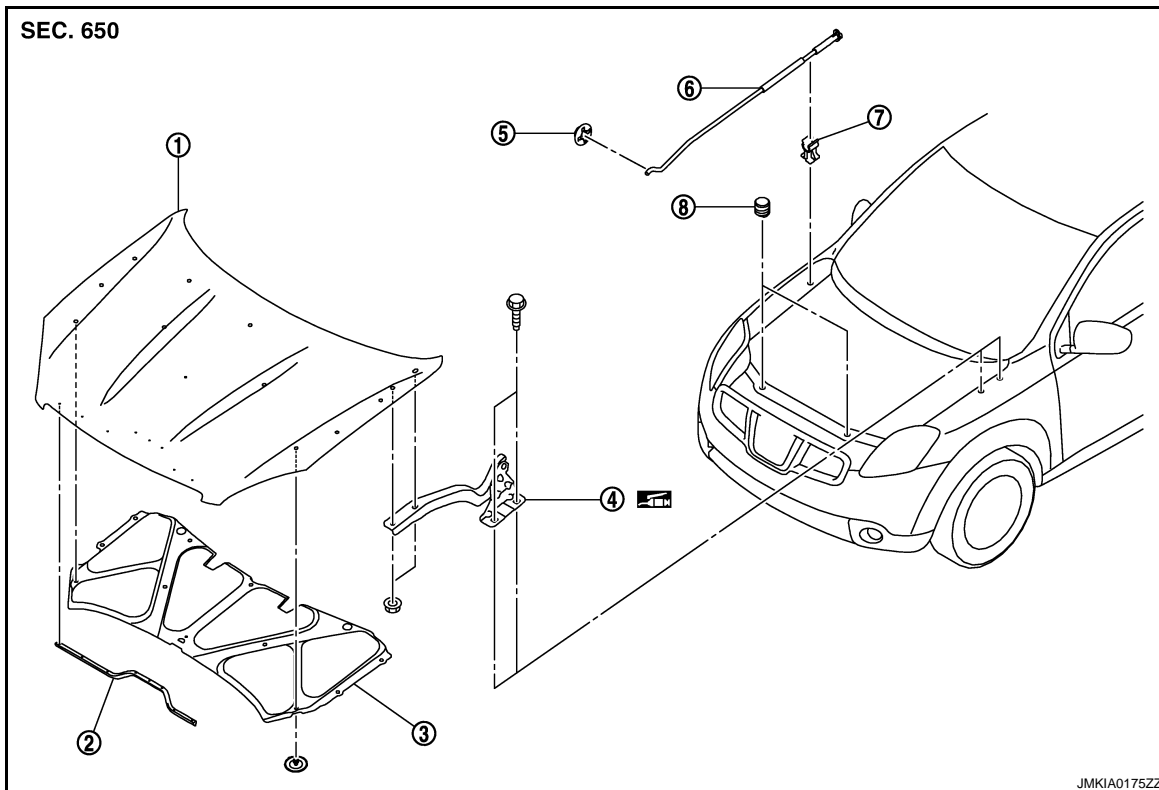
HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

HOOD HINGE : Exploded View

INFOID:000000001183750



- | | | |
|------------------|------------------------|---------------------|
| 1. Hood assembly | 2. Hood sealing rubber | 3. Hood insulator |
| 4. Hood hinge | 5. Grommet | 6. Hood support rod |
| 7. Clamp | 8. Hood bumper rubber | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD HINGE : Removal and Installation

INFOID:000000001183751

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REMOVAL

1. Remove the hood assembly. Refer to [DLK-223, "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove the front fender. Refer to [DLK-232, "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:

- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.
- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installation, perform hood fitting adjustment. Refer to [DLK-224, "HOOD ASSEMBLY : Adjustment"](#).

HOOD SUPPORT ROD

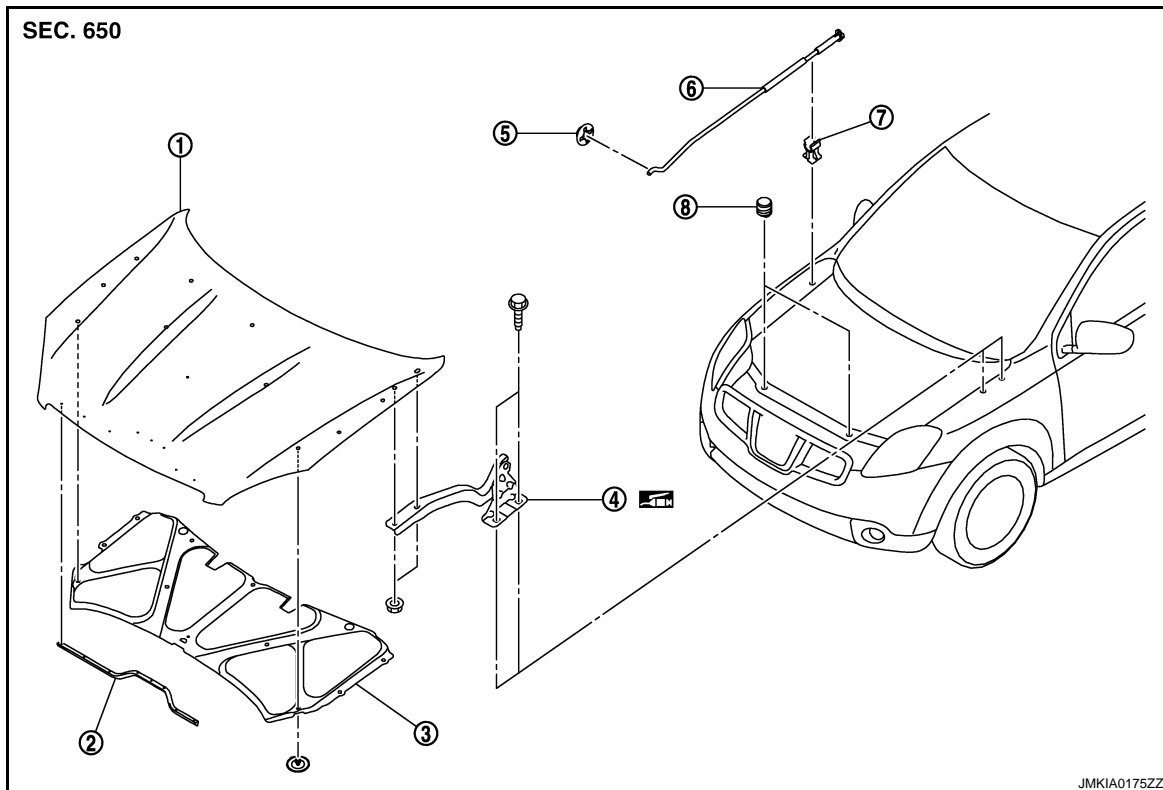
HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

HOOD SUPPORT ROD : Exploded View

INFOID:000000001183752



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|------------------|------------------------|---------------------|
| 1. Hood assembly | 2. Hood sealing rubber | 3. Hood insulator |
| 4. Hood hinge | 5. Grommet | 6. Hood support rod |
| 7. Clamp | 8. Hood bumper rubber | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000001183753

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

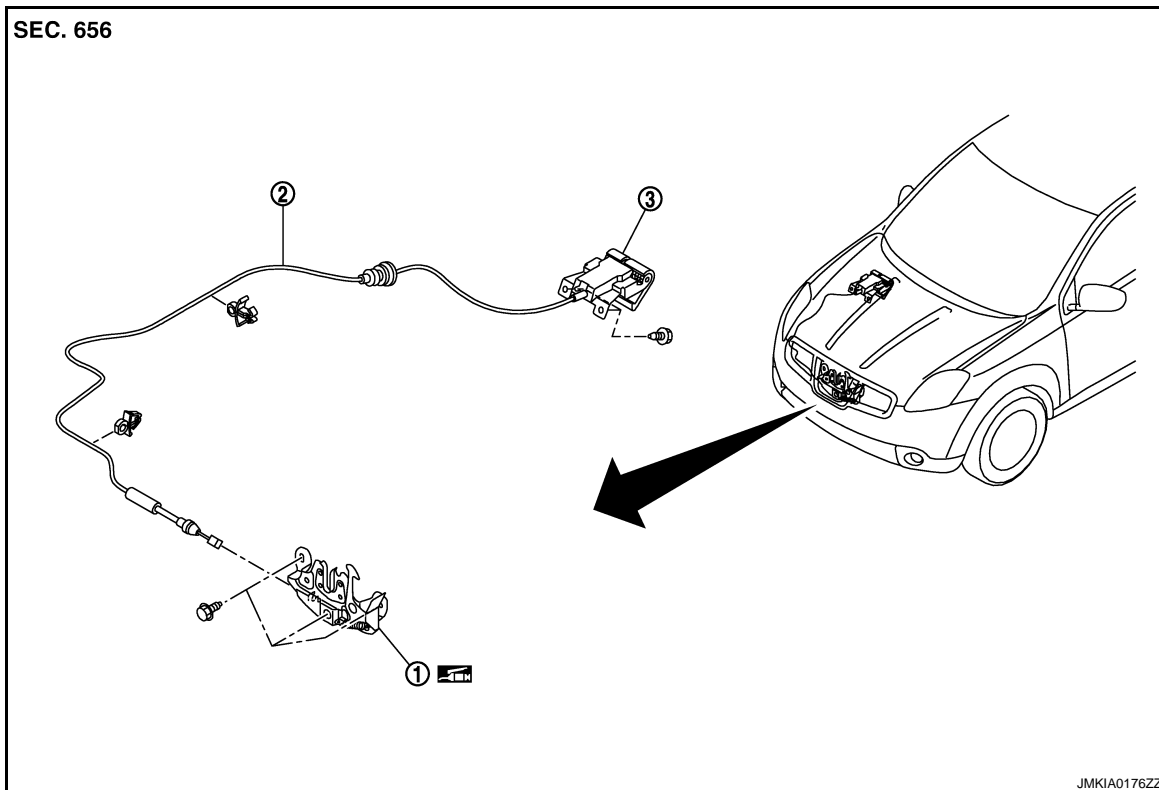
HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

HOOD LOCK CONTROL : Exploded View

INFOID:000000001183754



1. Hood lock assembly

2. Hood lock control cable

3. Hood lock opener

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD LOCK CONTROL : Removal and Installation

INFOID:000000001183755

REMOVAL

1. Remove the hood lock opener mounting bolts, and then remove the hood lock opener.
2. Remove the front bumper fascia. Refer to [EXT-11, "Removal and Installation"](#).
3. Remove the hood lock mounting bolts, and then remove the hood lock.
4. Remove the fender protector. Refer to [EXT-22, "Removal and Installation"](#).
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 (3.937 in) or more.

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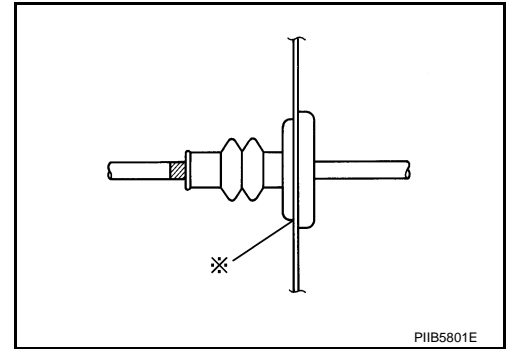
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HOOD

< 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-224, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform the hood lock control inspection. Refer to [DLK-228, "HOOD LOCK CONTROL : Inspection"](#).

HOOD LOCK CONTROL : Inspection

INFOID:000000001183756

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

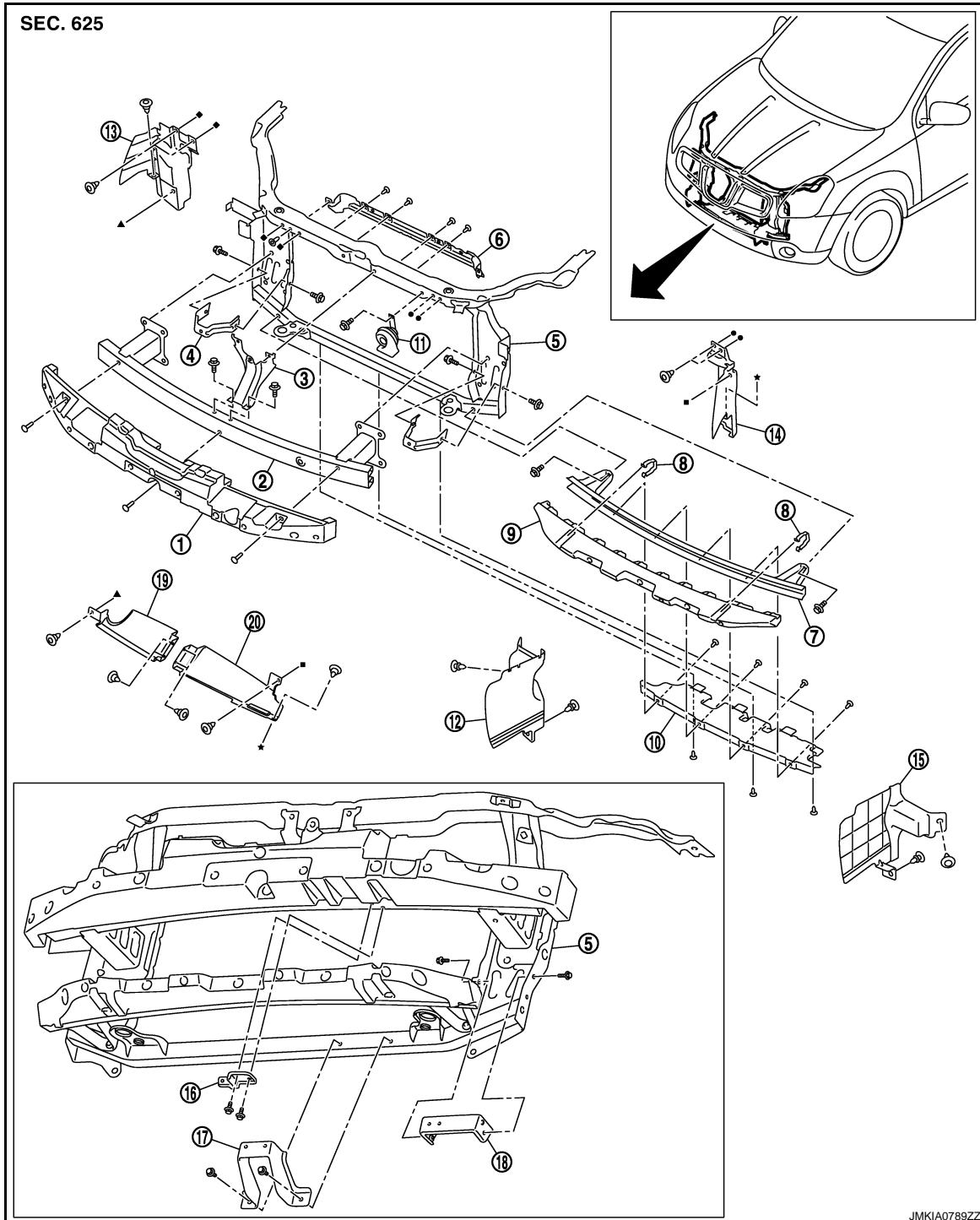
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

RADIATOR CORE SUPPORT

Exploded View

INFOID:000000001183757



- | | | |
|--|-----------------------------------|-----------------------------------|
| 1. Energy absorber | 2. Bumper reinforcement | 3. Hood lock support stay |
| 4. Intercooler bracket
(with K9K engine models) | 5. Radiator core support assembly | 6. Upper air dam |
| 7. Apron bracket assembly | 8. Fastener | 9. Energy absorber lower |
| 10. Front air guide lower | 11. Horn assembly | 12. Front air guide side lower RH |
| 13. Front air guide side RH | 14. Front air guide side LH | 15. Front air guide side lower LH |

DLK-229

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RADIATOR CORE SUPPORT

[WITH I-KEY, WITHOUT SUPER LOCK]

< ON-VEHICLE REPAIR >

- 16. Oil cooler bracket upper
- 19. Front air guide RH

- 17. Oil cooler bracket lower
- 20. Front air guide LH

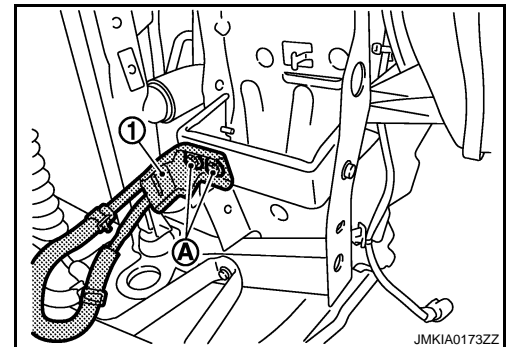
- 18. Oil cooler bracket side

Removal and Installation

INFOID:000000001183758

REMOVAL

1. Remove the front fillet molding. Refer to [EXT-23, "Removal and Installation"](#).
2. Remove the front grille. Refer to [EXT-17, "Removal and Installation"](#).
3. Remove the front bumper fascia and the energy absorber. Refer to [EXT-11, "Removal and Installation"](#).
4. Remove the energy absorber (upper and lower). Refer to [EXT-11, "Removal and Installation"](#).
5. Remove the air cleaner duct. Refer to [EM-28, "Removal and Installation"](#).
6. Remove the all air guides mounting clips, and then remove the all air guides.
7. Remove the front combination lamp (LH/RH). Refer to [EXL-175, "Removal and Installation"](#).
8. Disconnect the hood lock control cable clamp, and then remove the hood lock assembly. Refer to [DLK-227, "HOOD LOCK CONTROL : Removal and Installation"](#).
9. Remove the hood lock stay mounting bolts, and then remove the hood lock stay.
10. Remove the bumper reinforcement. Refer to [EXT-11, "Removal and Installation"](#).
11. Remove the hood switch (with theft warning systems). Refer to [SEC-SEC-166, "Removal and Installation"](#).
12. Remove the crush zone sensor. Refer to [SR-14, "Removal and Installation"](#).
13. Remove the horn. Refer to [HRN-5, "Removal and Installation"](#).
14. Remove the ambient sensor. Refer to [VTL-23, "Removal and Installation"](#).
15. Remove the radiator mounting bracket (LH/RH). Refer to [CO-13, "Removal and Installation"](#).
16. Remove the Intelligent Key warning buzzer (with Intelligent Key systems). Refer to [DLK-275, "Removal and Installation"](#).
17. Remove the charge air cooler assembly (with K9K and M9R engine models). Refer to [EM-267, "Removal and Installation"](#).
18. Remove the A/T fluid cooler assembly and the A/T fluid cooler bracket (with A/T models only). Refer to [TM-563, "FLUID COOLER : Removal and Installation"](#).
19. Remove the A/T fluid cooler pipe bracket (1) mounting bolts (A) (with A/T models only).



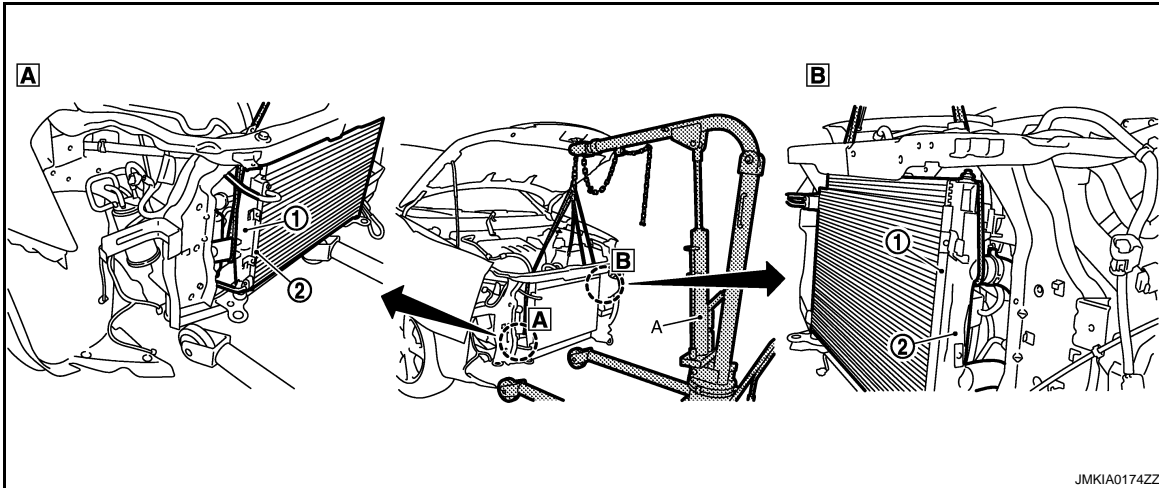
20. Remove the washer tank. Refer to [WW-99, "Removal and Installation"](#).

RADIATOR CORE SUPPORT

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

21. Use the baby crane (A) or another piece of equipment to suspend the radiator (1) and condenser (2).



22. Remove the radiator core support assembly mounting bolts, and draw out the radiator core support assembly to the front of the vehicle.
23. Remove the radiator core support assembly.
24. Remove the following parts after removing the radiator core support assembly.
 - Inlet tube bracket (with K9K and M9R engine models)
 - Intercooler bracket (with K9K and M9R engine models)
 - Apron reinforcement bracket

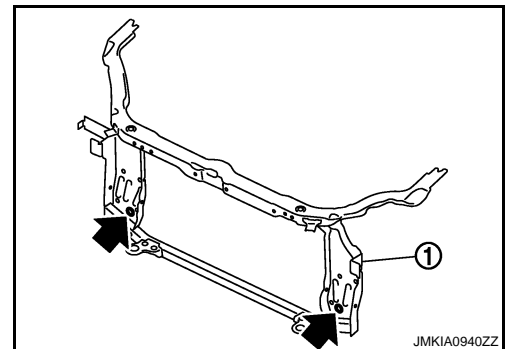
INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, refill the following parts.

- Radiator core support (1) must be aligned to engine side member vertically. Use round pin to locate through both holes.



- A/T fluid. Refer to [TM-530, "Changing"](#).
- Engine coolant. Refer to [CO-9, "Refilling"](#).

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FRONT FENDER

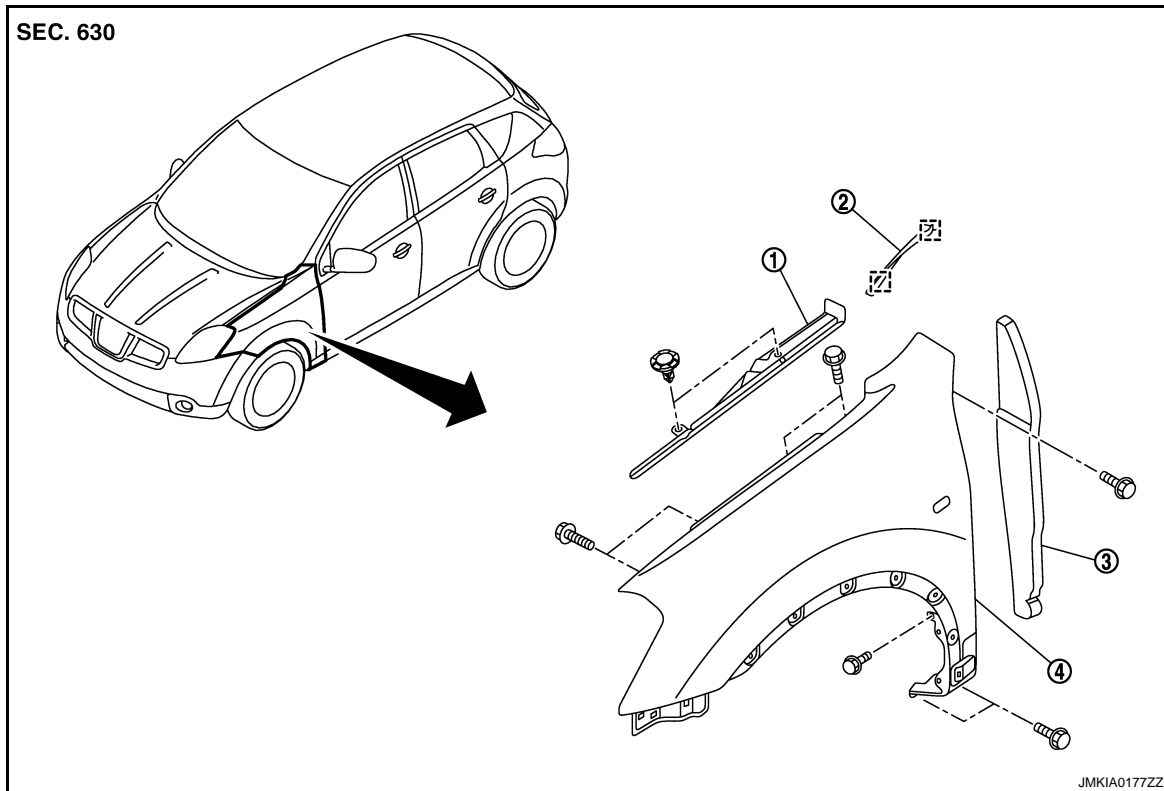
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

FRONT FENDER

Exploded View

INFOID:000000001183759



1. Hood seal assembly (side) 2. Front fender finisher 3. Front fender seal
4. Front fender
[] : Metal clip

Removal and Installation

INFOID:000000001183760

REMOVAL

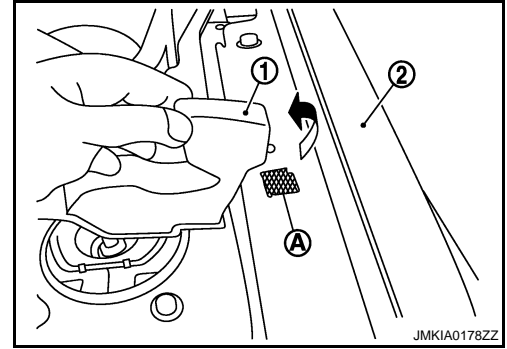
1. Remove the outer fender protector. Refer to [EXT-22, "Removal and Installation"](#).
2. Remove the inner fender protector. Refer to [EXT-22, "Removal and Installation"](#).
3. Remove the side turn signal lamp. Refer to [EXL-181, "Removal and Installation"](#).
4. Remove the front bumper fascia. Refer to [EXT-11, "Removal and Installation"](#).
5. Remove the front combination lamp.
 - XENON TYPE: [EXL-175, "Removal and Installation"](#).
 - HALOGEN TYPE: [EXL-329, "Removal and Installation"](#).
6. Remove the mounting clips and remove hoodledge cover.
7. Remove the center mudguard. Refer to [EXT-28, "Removal and Installation"](#).

FRONT FENDER

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

8. Peel away the double-faced adhesive tape (A) of the front fender seal (1) from the front fender (2).



9. Remove the mounting bolts and remove the front fender.

CAUTION:

Use a shop cloth to protect the body from being damaged during removal.

10. Remove the following parts after removing the front fender.
- Front fender seal.
 - Bumper side bracket. Refer to [EXT-11, "Exploded View"](#).

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Replace the double-faced adhesive tape on the back of the cowl top cover seal with new tape.
- Do not wash the vehicle within 24 hours after installation so as to keep adhesive.
- After installation, apply the touch-up paint (the body color) onto the head of the front fender mounting bolts.
- After installation, check the front fender adjustment. Refer to [DLK-224, "HOOD ASSEMBLY : Adjustment"](#) and [DLK-236, "DOOR ASSEMBLY : Adjustment"](#).

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DLK

FRONT DOOR

< ON-VEHICLE REPAIR >

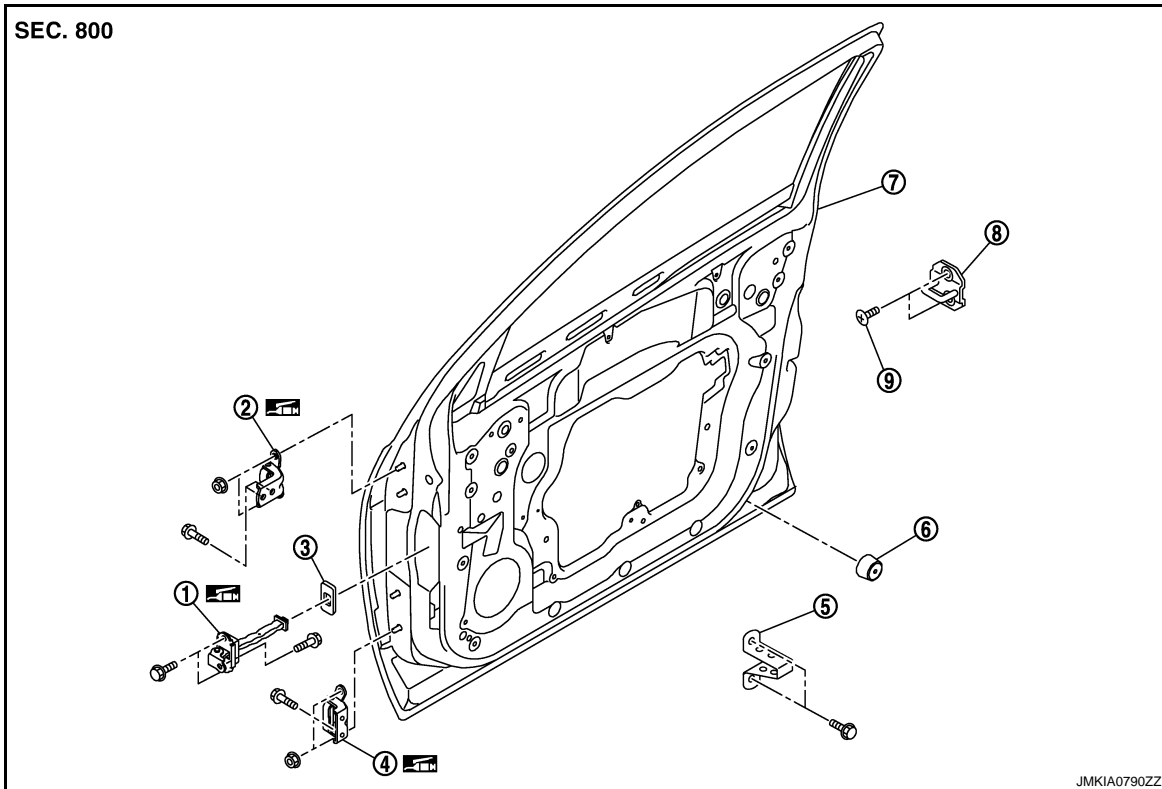
[WITH I-KEY, WITHOUT SUPER LOCK]

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001183761

REMOVAL



- | | | |
|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

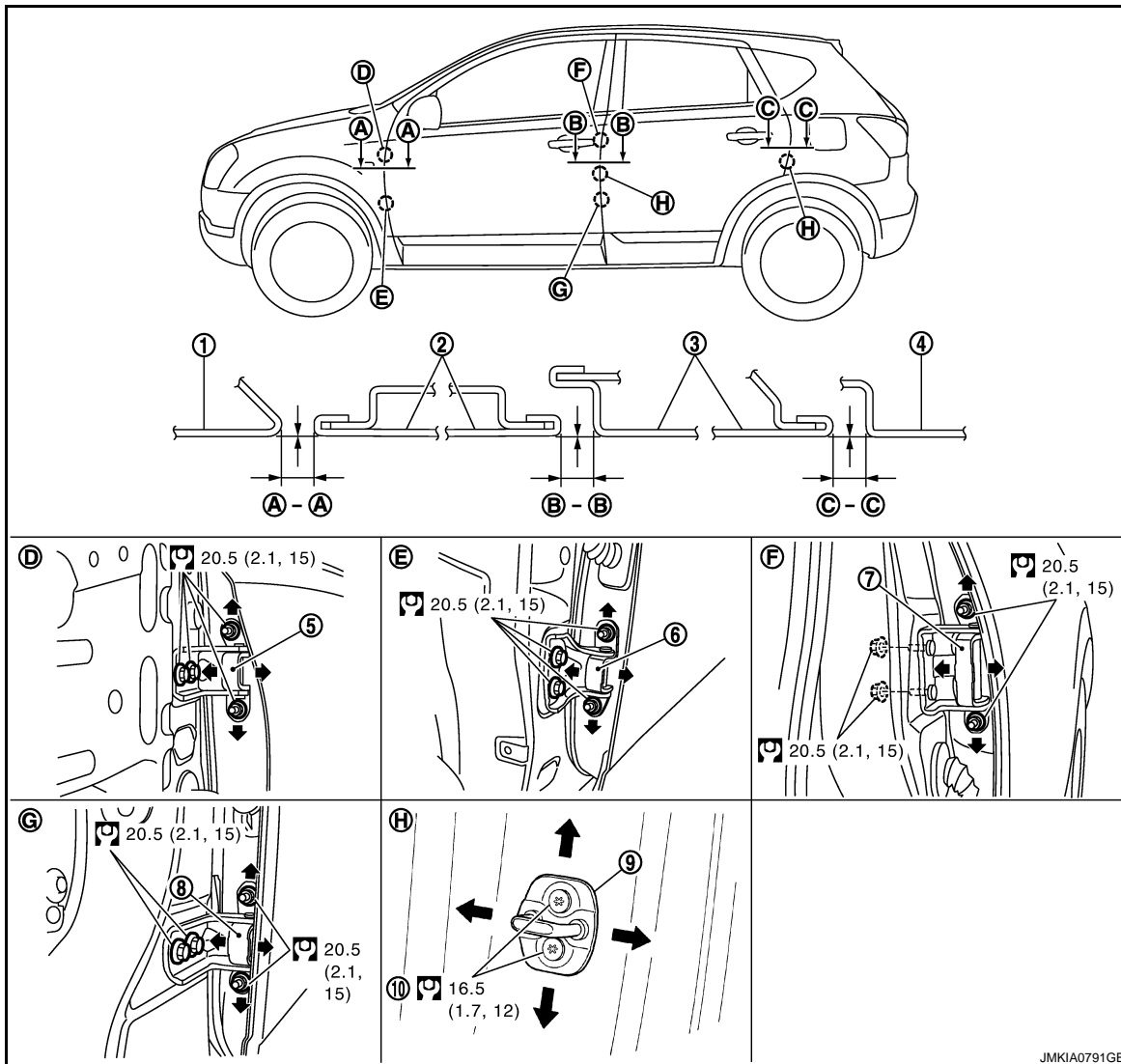
Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]



- | | | |
|----------------------------|-----------------------------|-----------------------------|
| 1. Front fender | 2. Front door outer | 3. Rear door outer |
| 4. Rear fender | 5. Front door hinge (upper) | 6. Front door hinge (lower) |
| 7. Rear door hinge (upper) | 8. Rear door hinge (lower) | 9. Door striker |
| 10. TORX bolt | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001183762

REMOVAL

1. Remove the mounting bolt 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.

CAUTION:

- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.
- Perform work with 2 workers, because of its heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-236, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- Check the front door open/close operation after installation.

DOOR ASSEMBLY : Adjustment

INFOID:000000001183763

CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

Portion		Clearance	Surface height
Front fender – Front door	A – A	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)
Front door – Rear door	B – B	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)

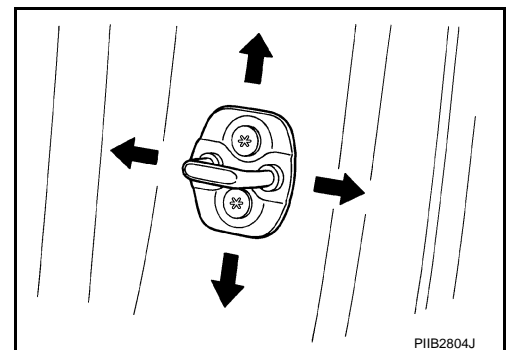
1. Check the clearance and surface height and surface mismatch between the front door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the front fender. Refer to refer to [DLK-232, "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-232, "Removal and Installation"](#).

CAUTION:

After installation, check the front fender adjustment. Refer to [DLK-224, "HOOD ASSEMBLY : Adjustment"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.



DOOR STRIKER

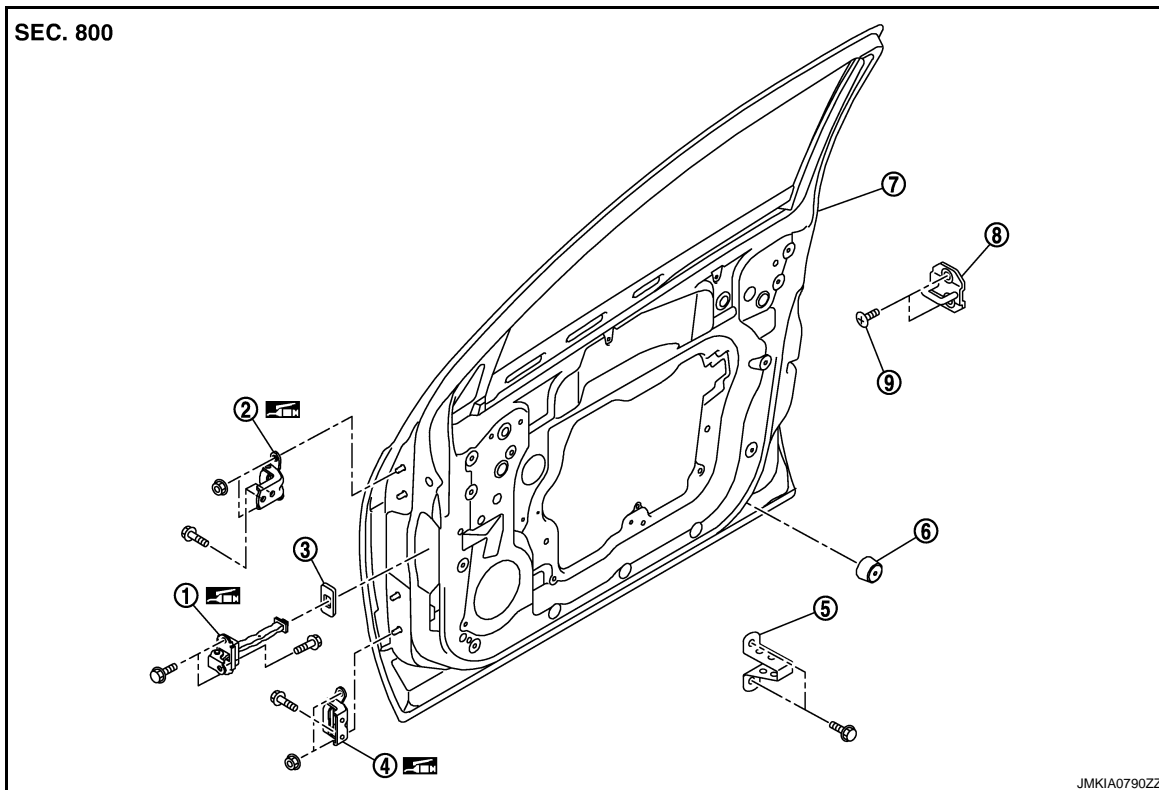
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001183764



- | | | |
|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001183765

DLK

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-236, "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

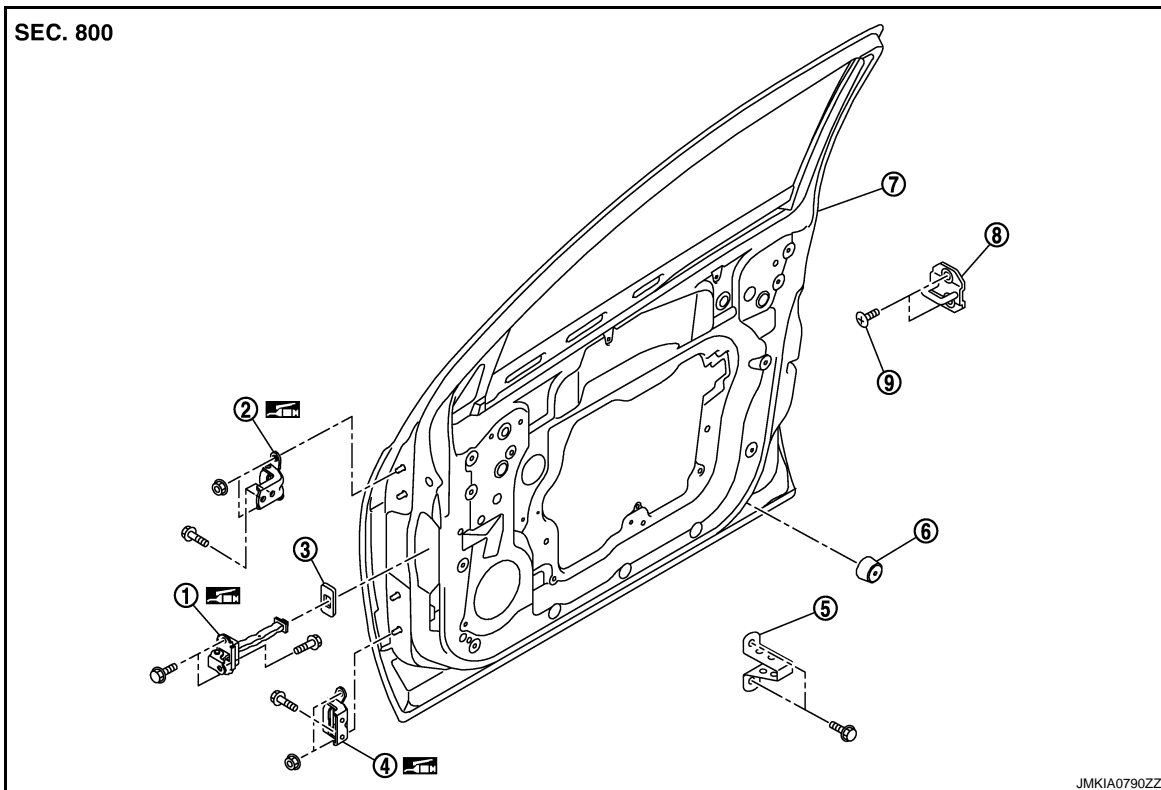
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001538411



- | | | |
|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001183767

REMOVAL

1. Remove the front door assembly. Refer to [DLK-235. "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:

- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-236. "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- Check the front door open/close operation after installation.

DOOR CHECK LINK

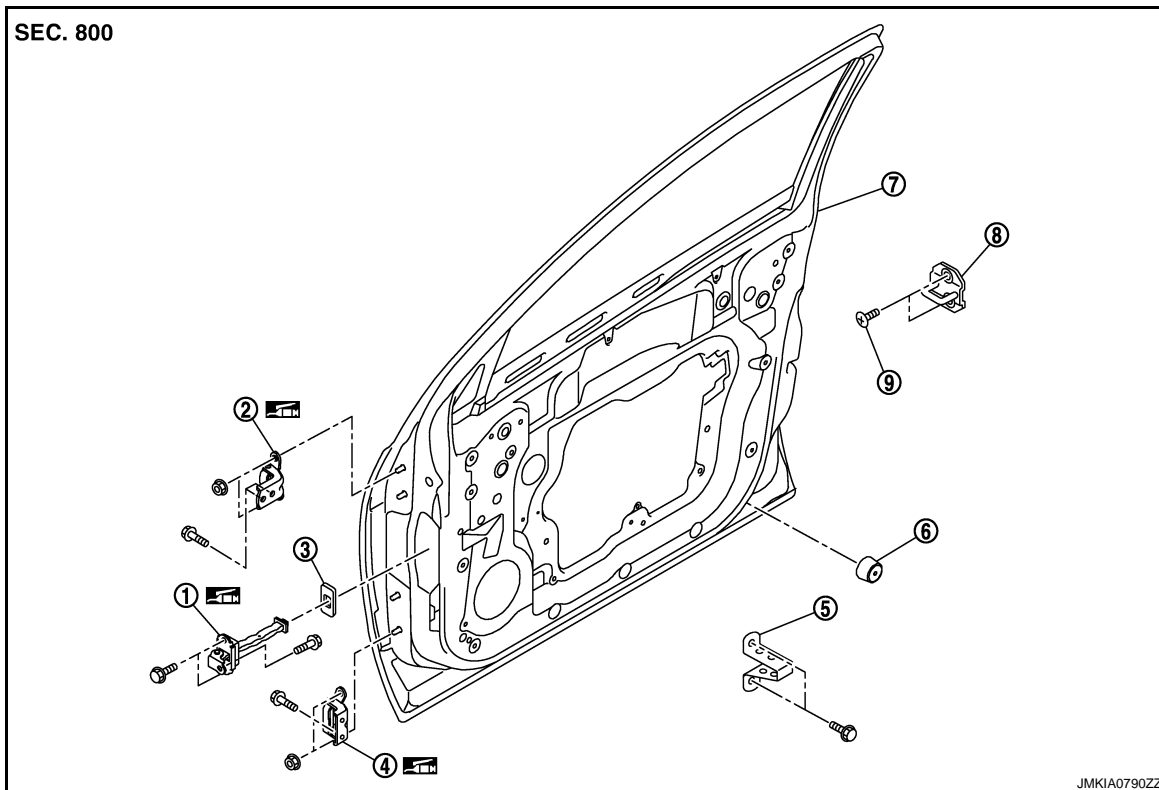
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001538412



- | | | |
|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001183769

DLK

REMOVAL

1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the front door speaker. Refer to [AV-36. "Removal and Installation"](#).
3. Remove the mounting bolt of the door check link on the vehicle.
4. Remove the door check link cover, and then remove the door check link mounting bolts.
5. Remove the door check link.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the front door open/close operation after installation.

REAR DOOR

< ON-VEHICLE REPAIR >

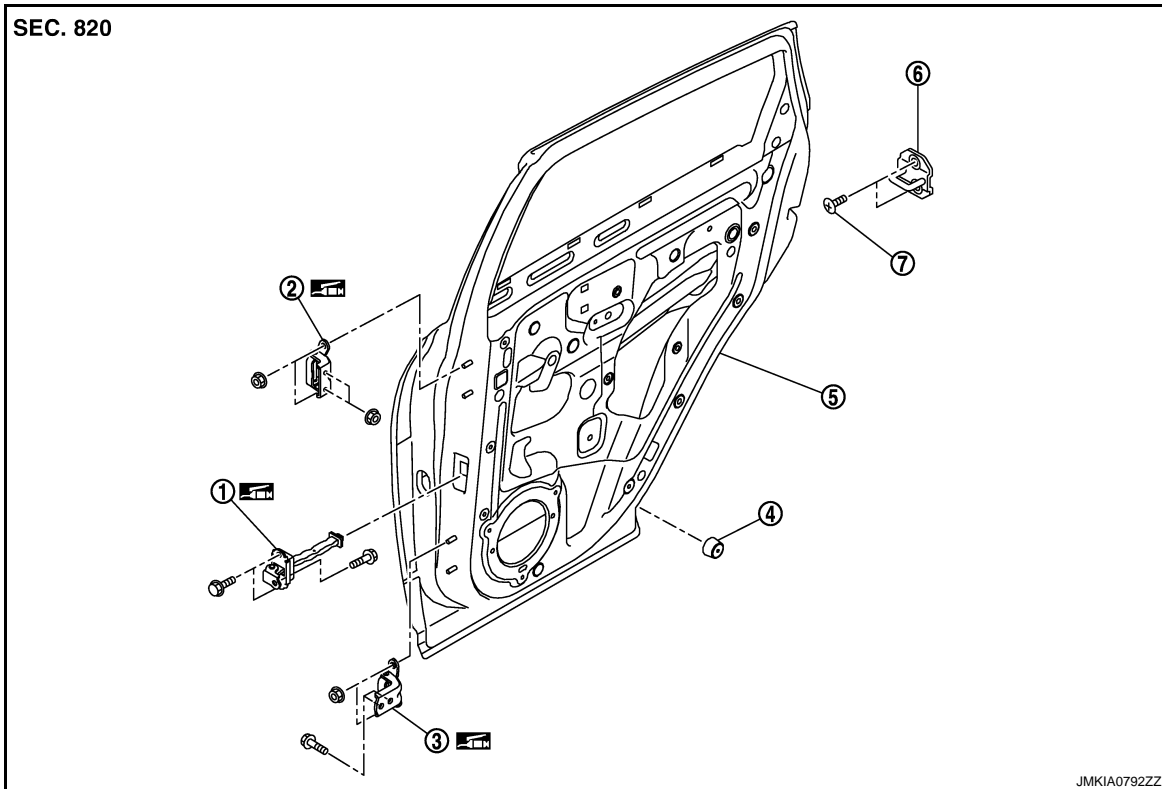
[WITH I-KEY, WITHOUT SUPER LOCK]

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001183770

REMOVAL



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

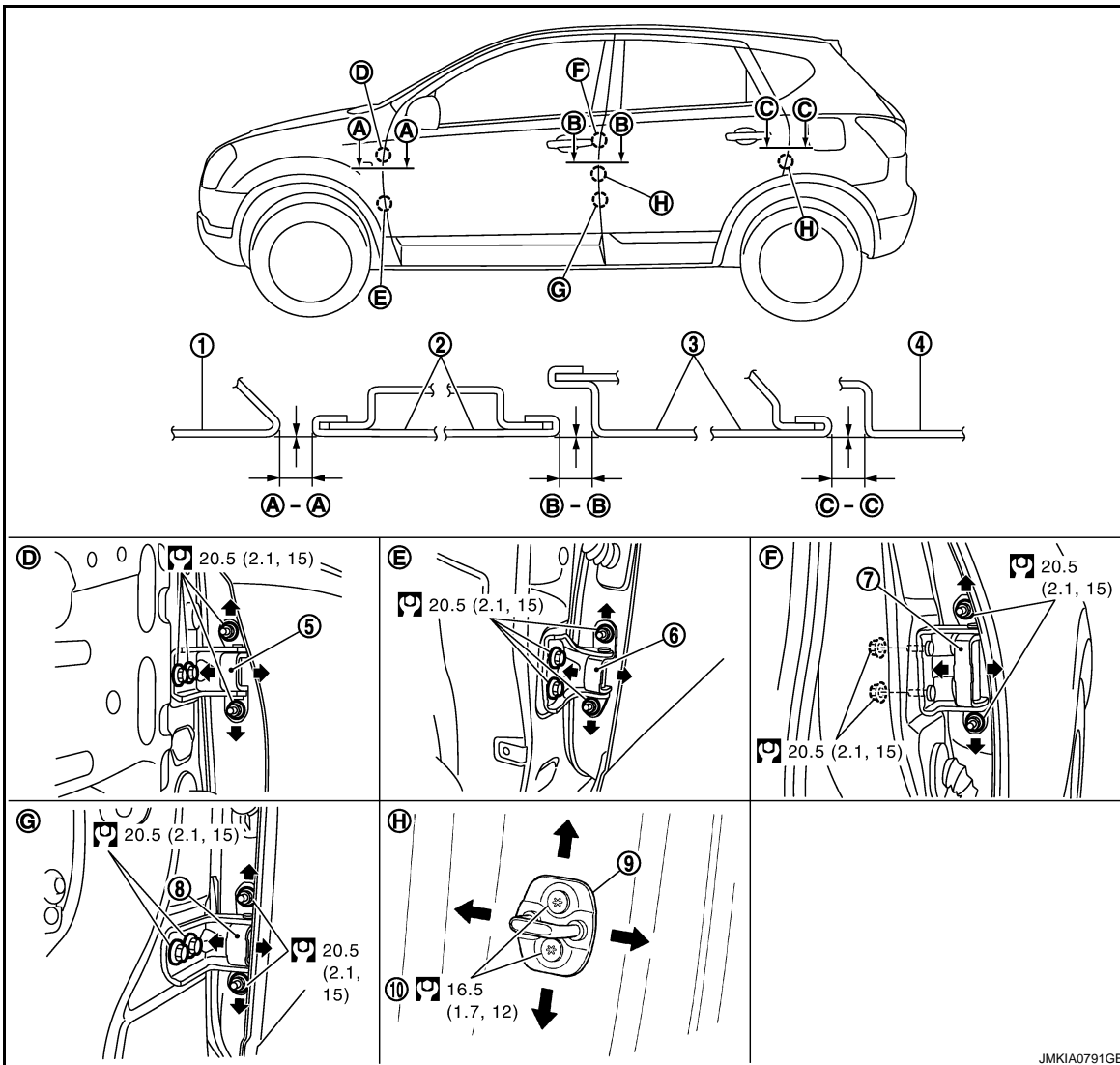
Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]



- | | | |
|----------------------------|-----------------------------|-----------------------------|
| 1. Front fender | 2. Front door outer | 3. Rear door outer |
| 4. Rear fender | 5. Front door hinge (upper) | 6. Front door hinge (lower) |
| 7. Rear door hinge (upper) | 8. Rear door hinge (lower) | 9. Striker |
| 10. TORX bolt | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001183771

REMOVAL

1. Remove the mounting bolt 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.

CAUTION:

- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.
- Perform work with 2 workers, because of it's heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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REAR DOOR

[WITH I-KEY, WITHOUT SUPER LOCK]

< ON-VEHICLE REPAIR >

- When removing and installing the rear door assembly, perform the fitting adjustment. Refer to [DLK-242, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- Check the rear door open/close operation after installation.
- Check the rear door lock/unlock operation after installation.

DOOR ASSEMBLY : Adjustment

INFOID:000000001183772

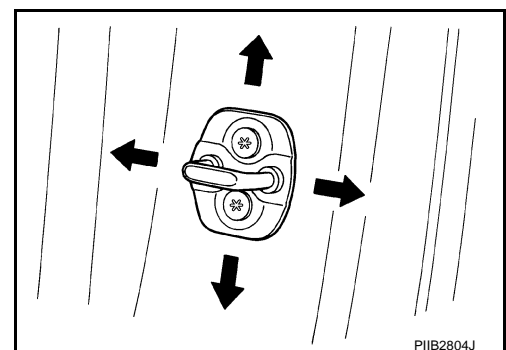
CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

Portion		Clearance	Surface height
Front door – Rear door	B – B	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)
Rear door – Rear fender	C – C	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)

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 upper garnish and center pillar lower garnish. Refer to [INT-14, "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 upper garnish and center pillar lower garnish. Refer to [INT-14, "Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.



DOOR STRIKER

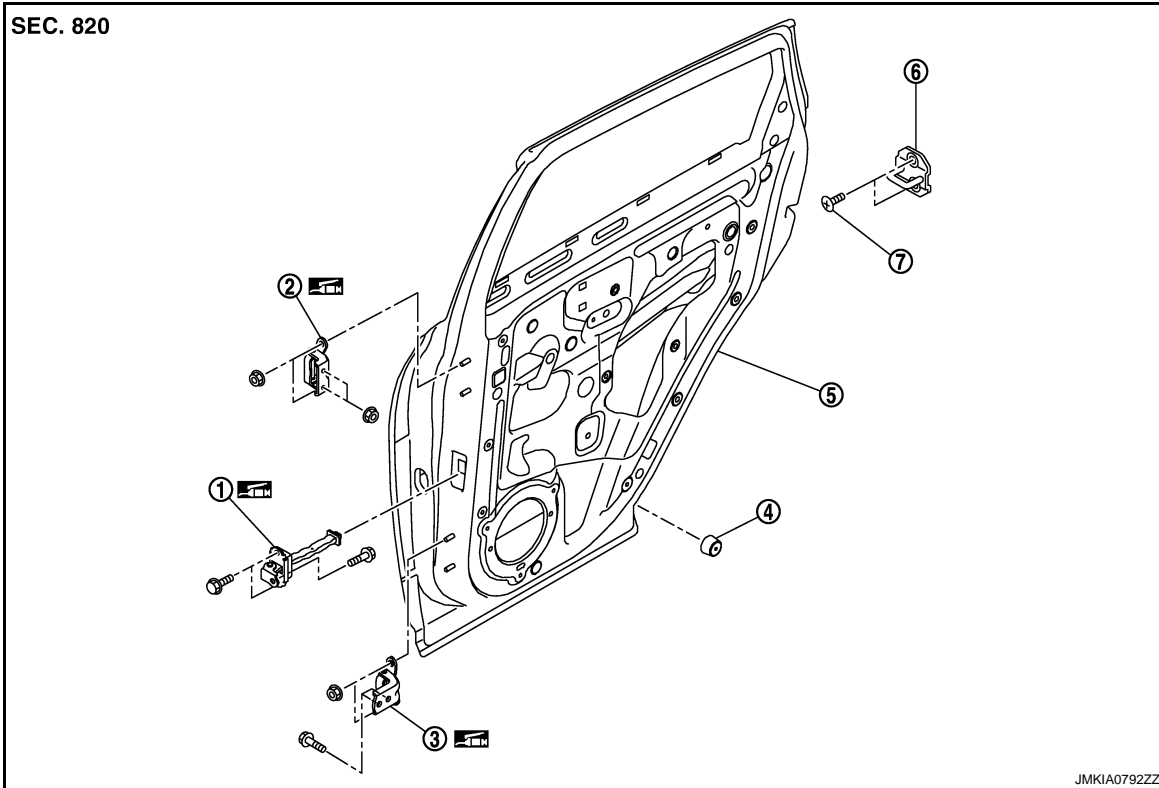
REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001183773



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001183774

DLK

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-242. "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

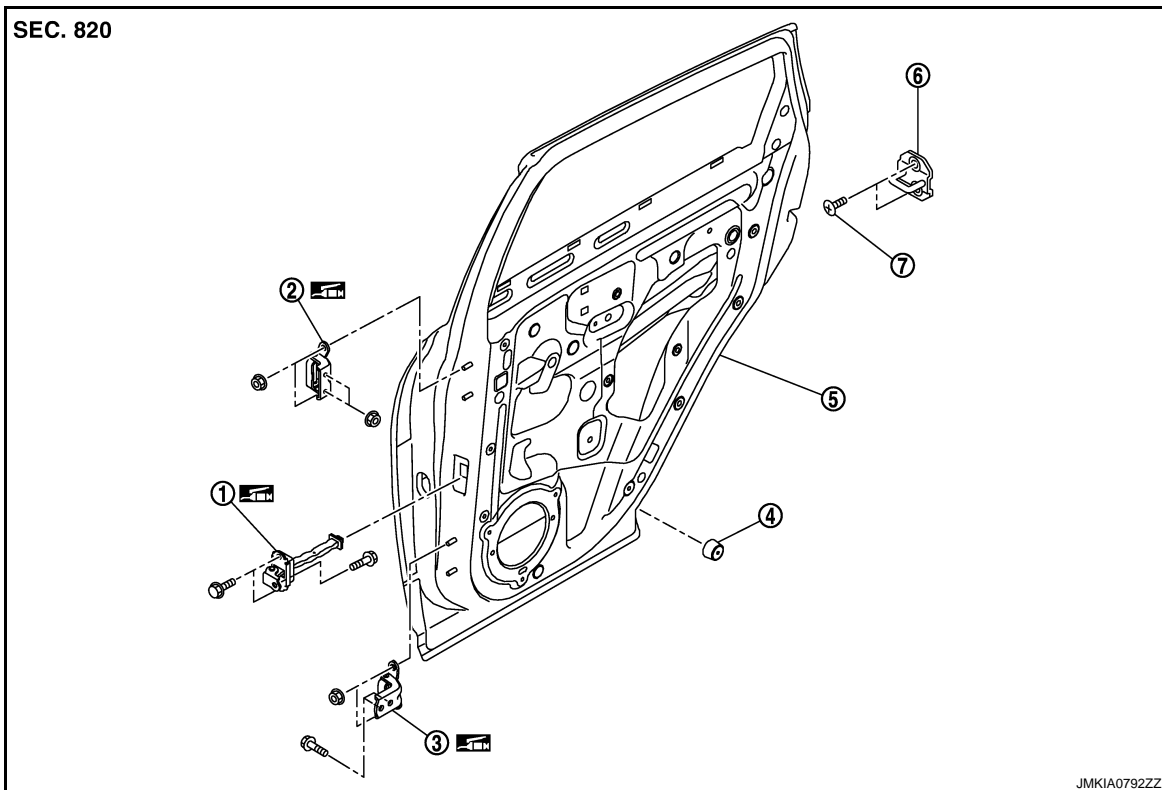
REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001538413



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001183776

REMOVAL

1. Remove the center pillar lower garnish and the center pillar upper garnish. Refer to [INT-14. "Removal and Installation"](#).
2. Remove the rear door assembly. Refer to [DLK-241. "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:

- When removing and installing the rear door assembly, perform the fitting adjustment. Refer to [DLK-242. "DOOR ASSEMBLY : Adjustment"](#).
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installing, apply the touch-up paint (the body color) onto the head of the hinge mounting nuts.
- Check the rear door open/close operation after installation.

DOOR CHECK LINK

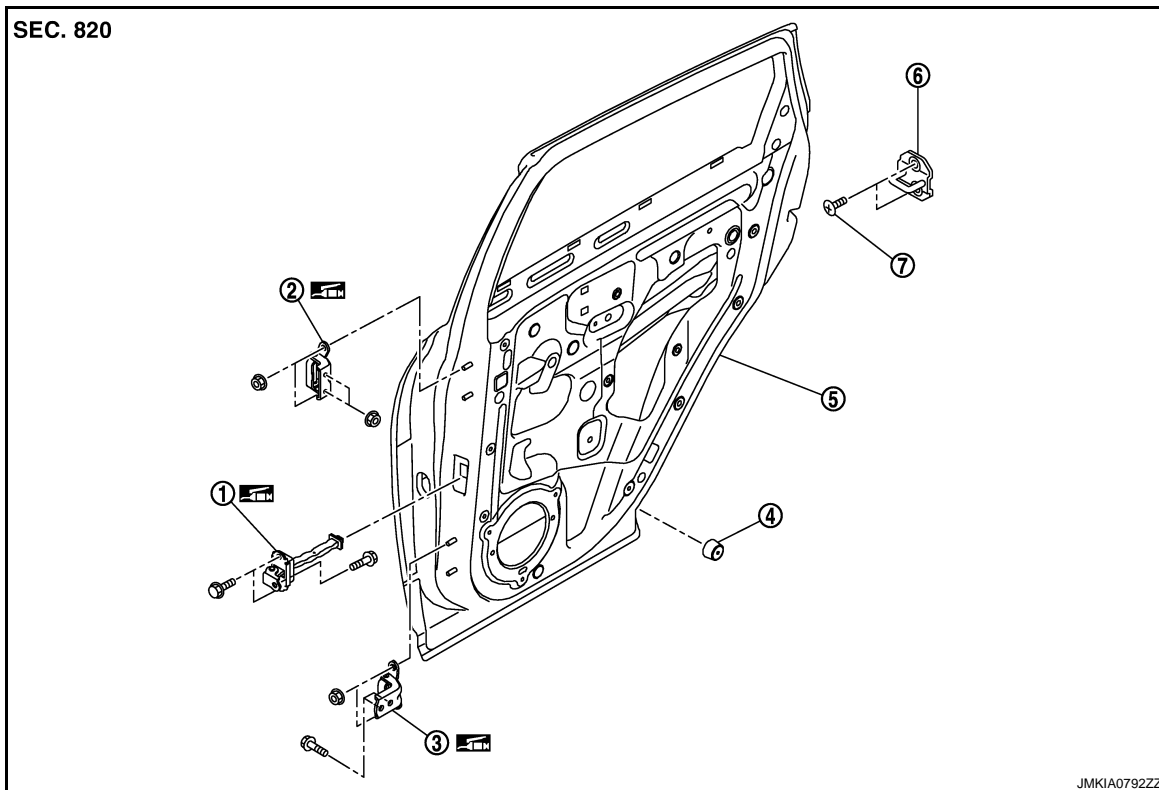
REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001538414



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001183778

DLK

REMOVAL

1. Remove the rear door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the rear door sealing screen.
3. Remove the mounting bolt of the check link on the vehicle.
4. Remove the door check link cover, and then remove the door check link mounting bolts.
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]

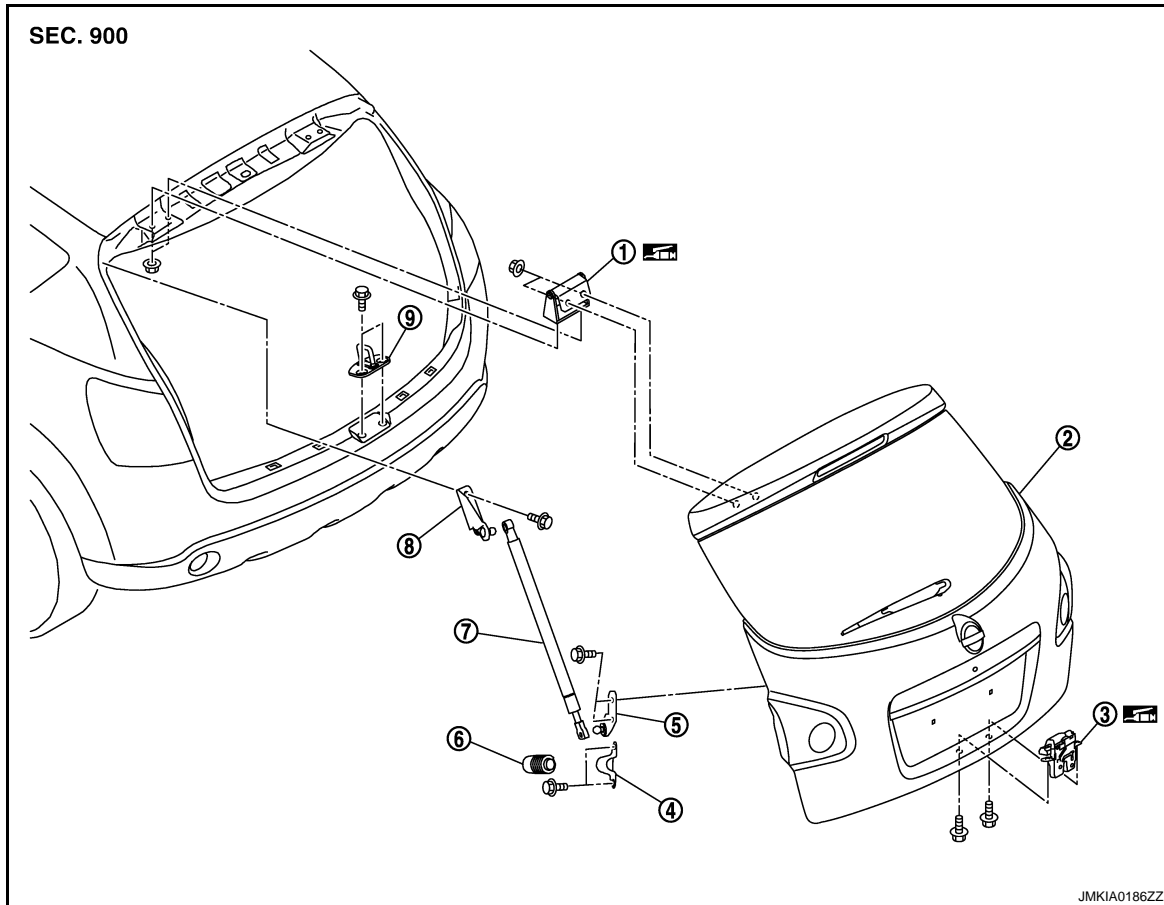
BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:000000001183779

REMOVAL



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

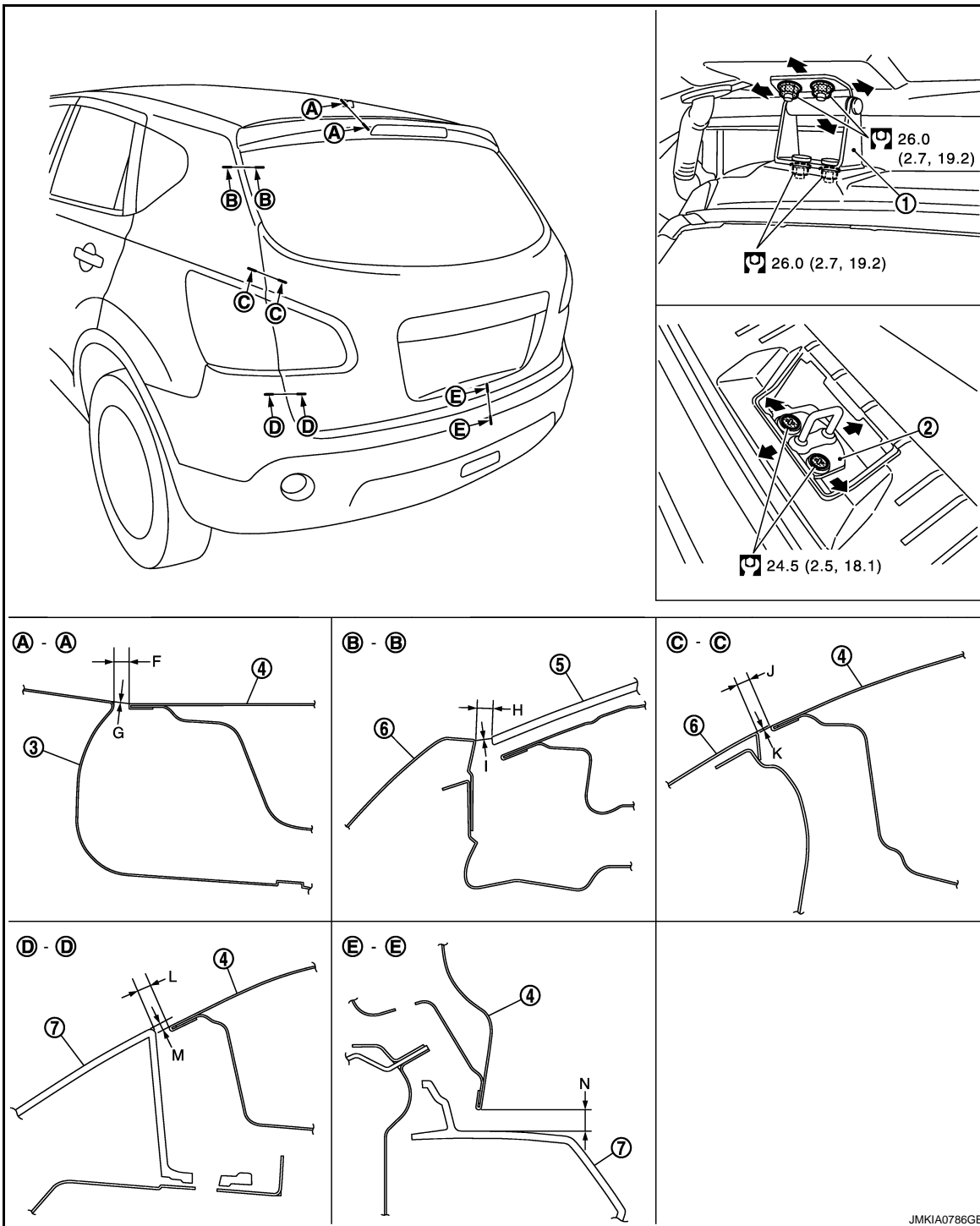
Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]



- | | | |
|-----------------------|----------------------|--------------------|
| 1. Back door hinge | 2. Back door striker | 3. Roof panel |
| 4. Back door outer | 5. Back door glass | 6. Body side outer |
| 7. Rear bumper fascia | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000001183780

REMOVAL

1. Remove the back door finisher inner. Refer to [INT-26, "Removal and Installation"](#).
2. Remove the back door window glass. Refer to [GW-17, "Removal and Installation"](#).

NOTE:

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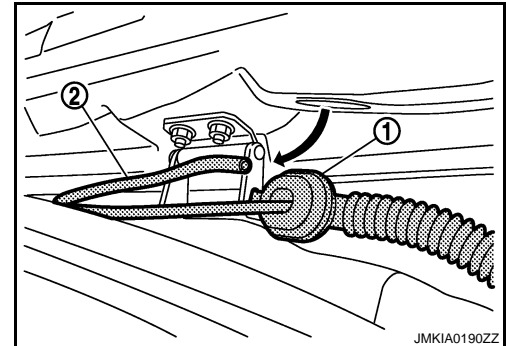
BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

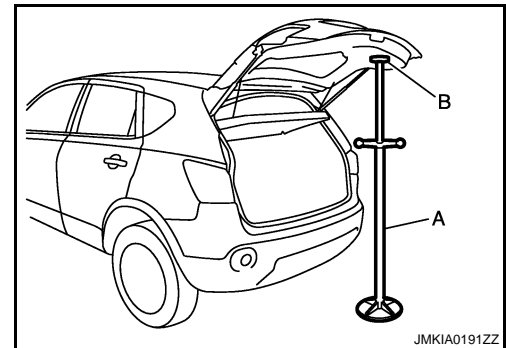
It is necessary to remove back door window glass in order to remove harness, because harness connector interferes with back door window glass pin.

3. Disconnect the connectors in the back door, and then remove the grommet, and pull out the harness.
4. Remove the parcel shelf. Refer to [INT-24, "Removal and Installation"](#).
5. Remove the high-mounted stop lamp. Refer to [EXL-186, "Removal and Installation"](#).
6. Remove the grommet (1), and then pull out the washer tube (2) .

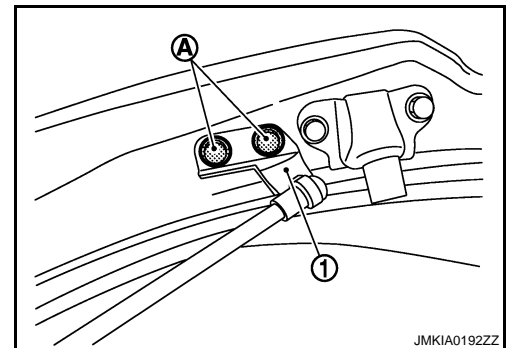


7. Pull the harness out of the back door.
8. Support the back door lock with the proper material to prevent it from falling.

A : Jack
B : Shop cloth

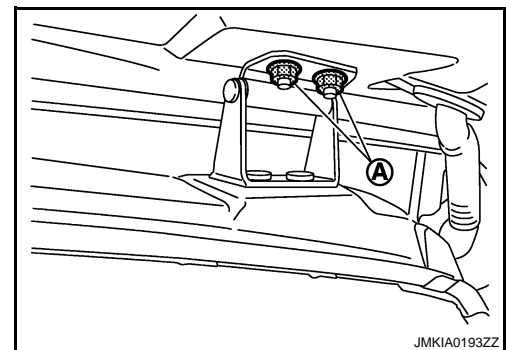


9. Remove the back door stay bracket (1) mounting bolts (A) on the back door.



10. Remove the back door hinge mounting nuts (A) 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:
• Perform work with 2 workers, because of its heavy weight.

BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

- After installation, perform fitting adjustment. Refer to [DLK-249, "BACK DOOR ASSEMBLY : Adjustment"](#).
- Check the back door open/close operation after installation.
- Check the back door lock/unlock operation after installation.

BACK DOOR ASSEMBLY : Adjustment

INFOID:000000001183781

Portion			Standard	Difference(RH/LH)
Back door panel – Roof panel	A – A	F	Clearance 5.0 – 7.0 mm (0.197 – 0.276 in)	—
		G	Surface height 0.0 – 2.0 mm (0.000 – 0.079 in)	—
Back door glass – Body side outer	B – B	H	Clearance 3.9 – 8.1 mm (0.154 – 0.319 in)	2.1 mm (0.083 in)
		I	Surface height - 1.0 – 3.1 mm (- 0.039 – 0.122 in)	2.0 mm (0.079 in)
Back door panel – Body side outer	C – C	J	Clearance 3.5 – 6.5 mm (0.138 – 0.256 in)	2.0 mm (0.079 in)
		K	Surface height - 1.0 – 1.0 mm (- 0.039 – 0.039 in)	—
Back door panel – Rear bumper fascia	D – D	L	Clearance 4.0 – 8.0 mm (0.157 – 0.315 in)	2.0 mm (0.079 in)
		M	Surface height 0.1 – 4.1 mm (0.004 – 0.161 in)	2.1 mm (0.083 in)
Back door panel – Rear bumper fascia	E – E	N	Clearance 5.8 – 10.2 mm (0.228 – 0.402 in)	—

FITTING ADJUSTMENT

1. 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.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Loosen the bumper rubber.
4. Loosen the back door striker mounting bolts.
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

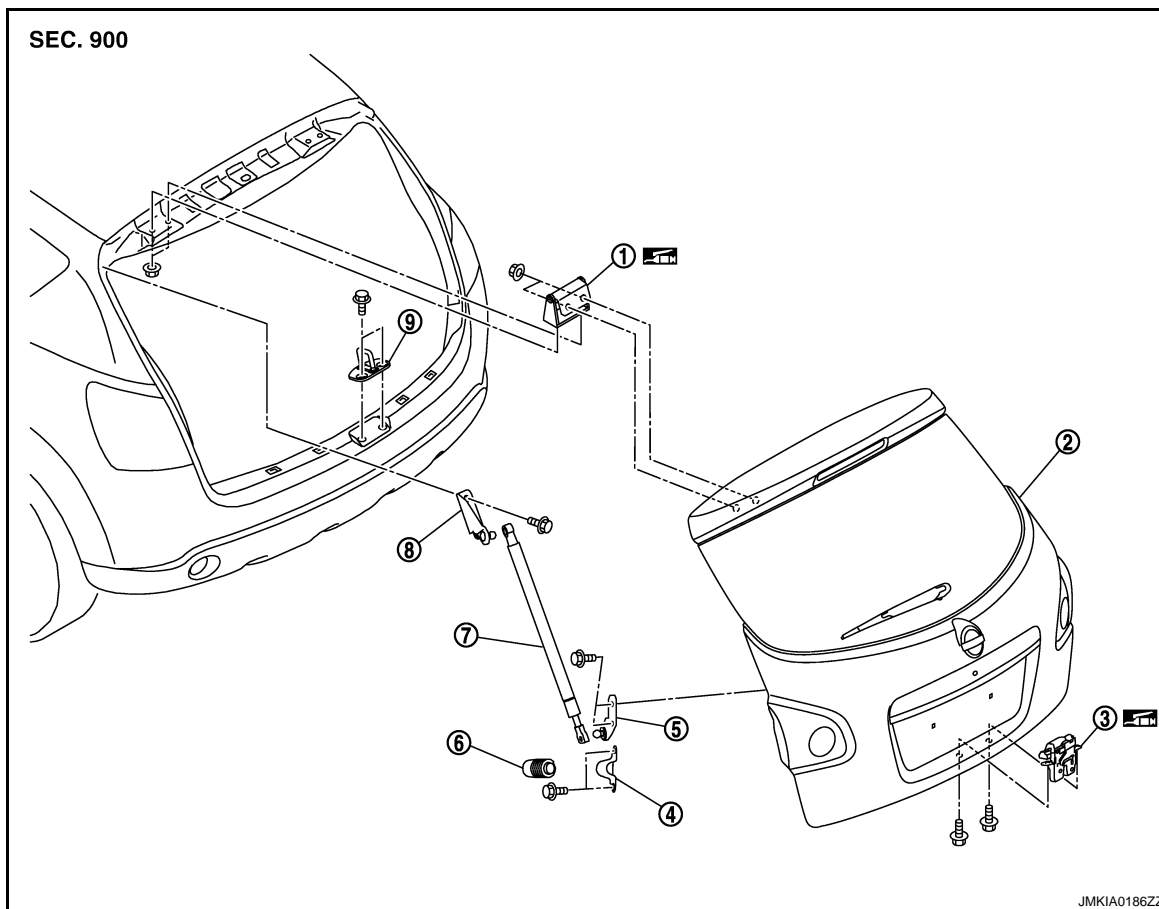
BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR STRIKER : Exploded View

INFOID:000000001183782



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR STRIKER : Removal and Installation

INFOID:000000001183783

REMOVAL

1. Remove the luggage rear plate cap. Refer to [INT-24, "Removal and Installation"](#).
2. Remove the mounting bolts, and then remove the back door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- When removing and installing the back door striker, be sure to perform the fitting adjustment. Refer to [DLK-249, "BACK DOOR ASSEMBLY : Adjustment"](#).
- Check the back door open/close operation after installation.

BACK DOOR HINGE

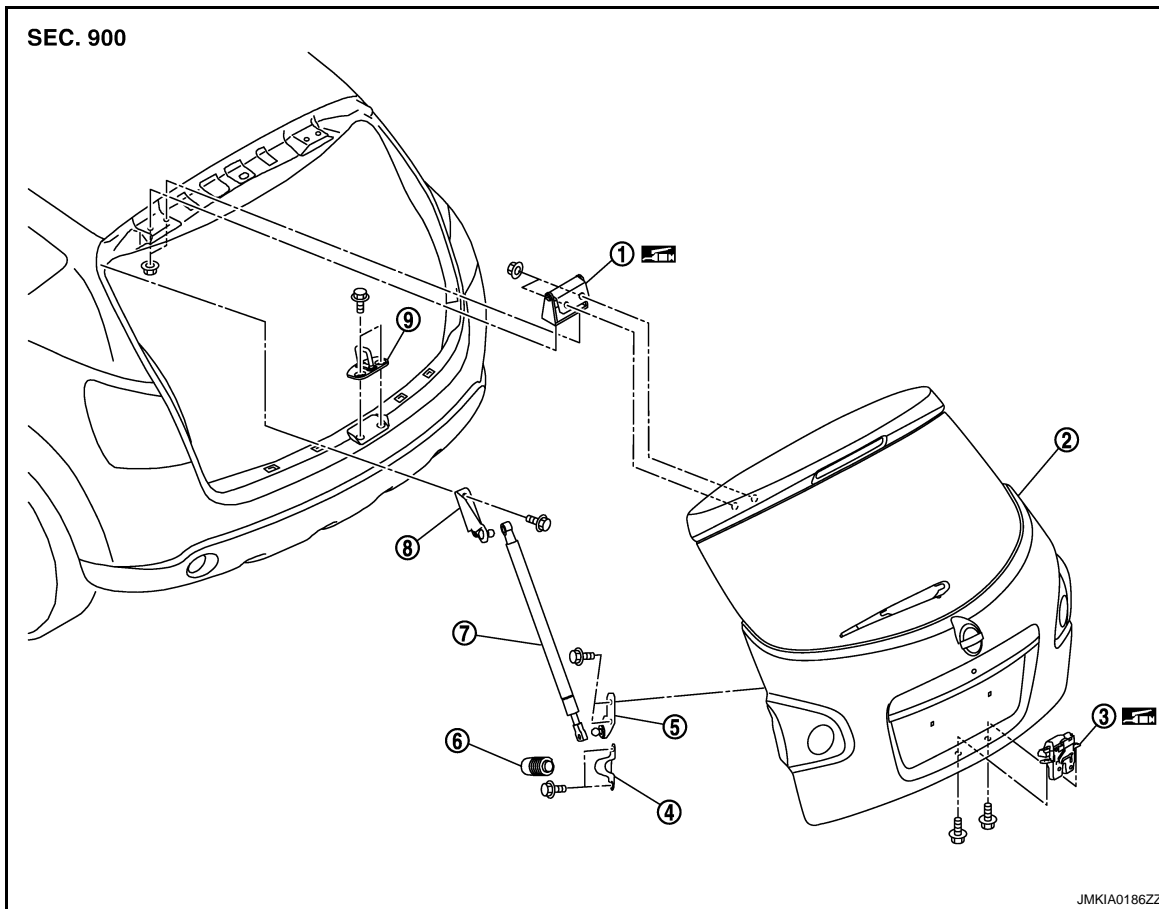
BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR HINGE : Exploded View

INFOID:000000001538415



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR HINGE : Removal and Installation

INFOID:0000000001183785

REMOVAL

1. Remove the back door assembly. Refer to [DLK-247, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove upper side of the back door weatherstrip. Refer to [DLK-253, "BACK DOOR WEATHER-STRIP : Removal and Installation"](#).
3. Remove rear seat belt cover. Refer to [INT-21, "Removal and Installation"](#).
4. Using remover tool, remove the headlining clip at the rear side of the headlining. Refer to [INT-20, "Exploded View"](#).
5. Remove the rear side of the headlining.
6. 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:

- When removing and installing the back door assembly, perform the fitting adjustment. Refer to [DLK-249, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting nuts.
- Check the hinge rotating part for poor lubrication. If necessary, apply body grease.

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BACK DOOR

< ON-VEHICLE REPAIR >

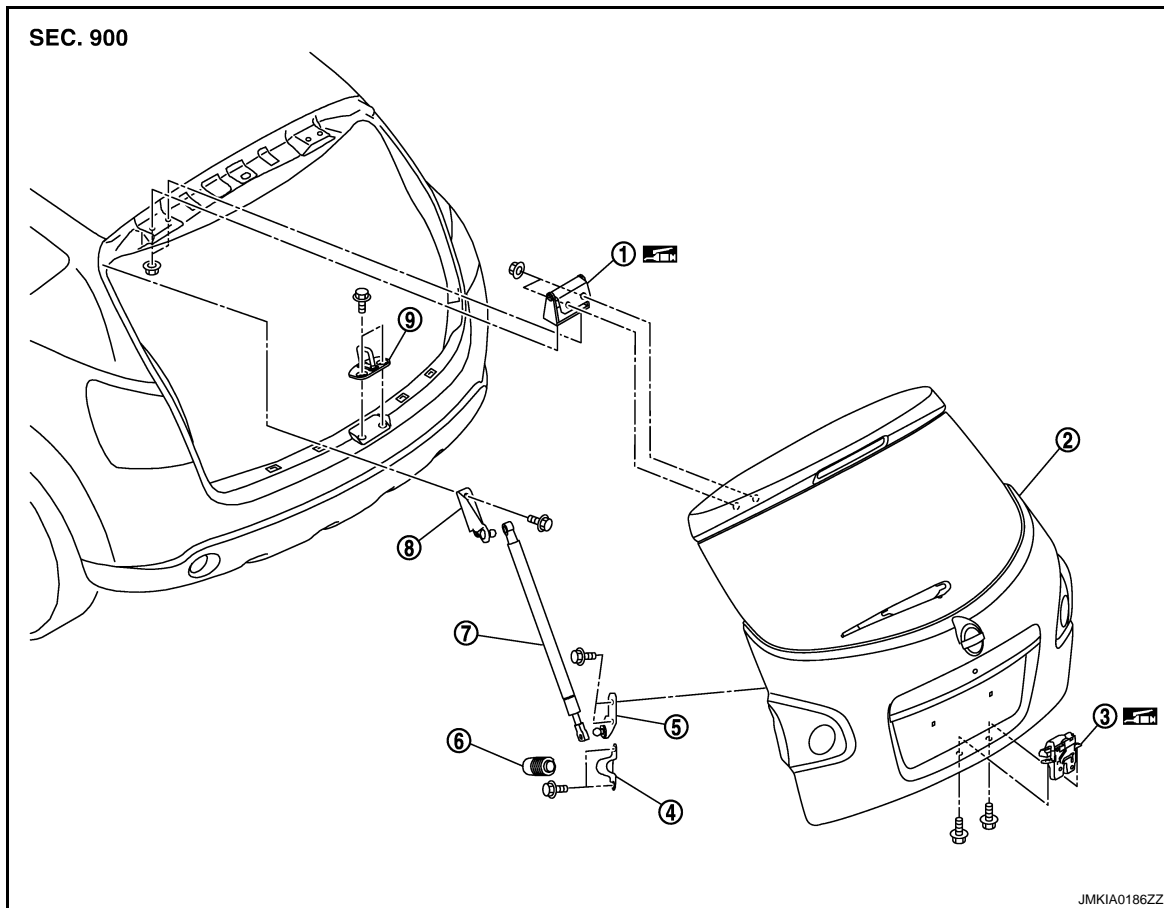
[WITH I-KEY, WITHOUT SUPER LOCK]

- Check the back door open/close operation after installation.

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:000000001538416



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STAY : Removal and Installation

INFOID:000000001183787

REMOVAL

1. Remove the mounting bolts, and then remove the back door stay bracket on body side.
2. Remove the stud ball, and then remove the back door stay on back door side.

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

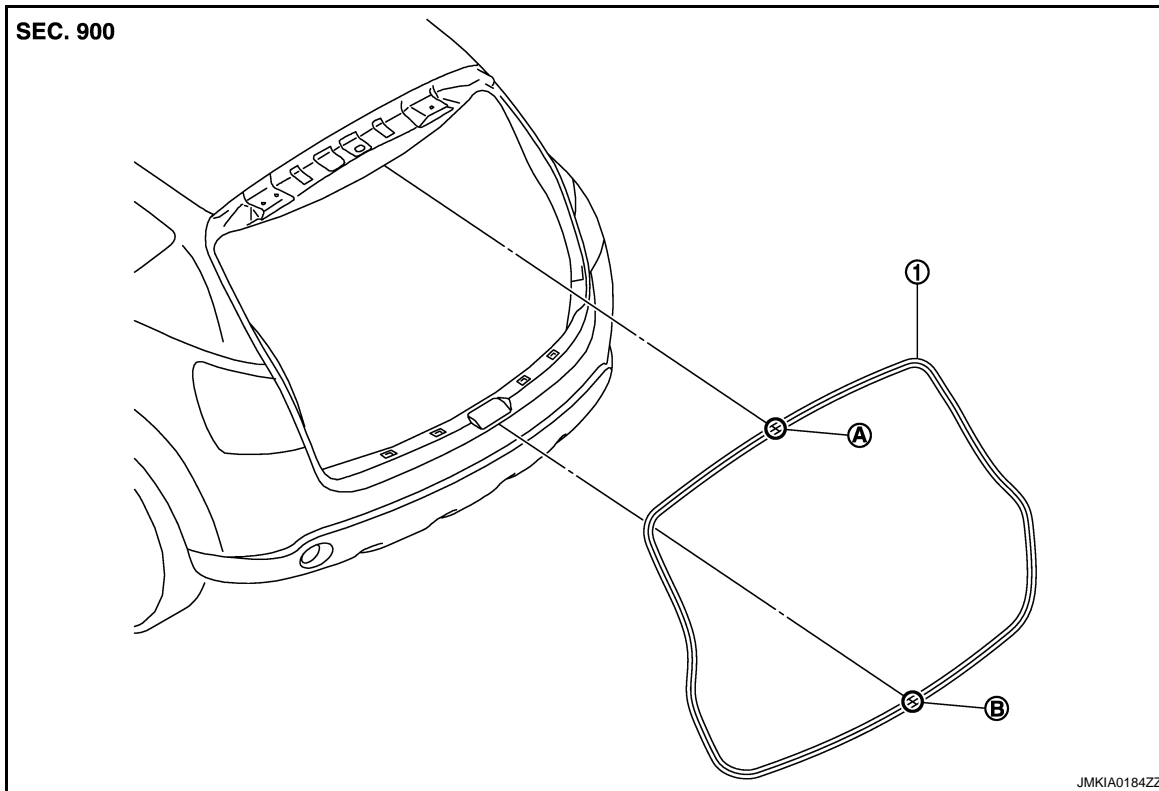
INFOID:000000001183788

REMOVAL

BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]



1. Back door weatherstrip
- A. Mark (upper)
- B. Mark (lower)

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000001183789

REMOVAL

Pull up and remove engagement with body from the weatherstrip joint.

CAUTION:

After removal, do not pull strongly on the weather-strip.

INSTALLATION

1. Working from the upper section, align the weatherstrip mark with vehicle center position mark and install the weatherstrip onto the vehicle.
2. For the lower section, align the weatherstrip seam with center of the back door striker.
3. After installation, pull the weatherstrip gently to ensure that there is no loose section.

NOTE:

Make sure that the weatherstrip is fit tightly at each corner and the luggage rear plate.

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FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

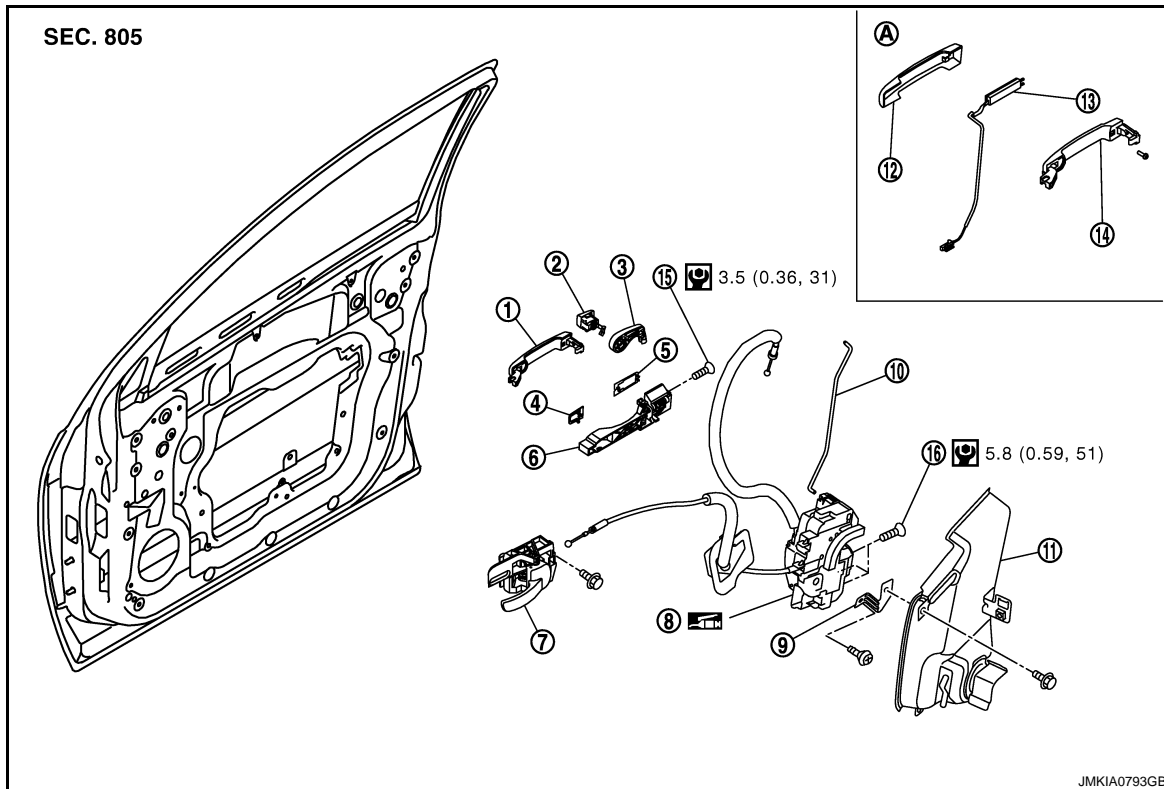
[WITH I-KEY, WITHOUT SUPER LOCK]

FRONT DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001183790



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|--|--|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder | 3. Key cylinder lever |
| 4. Front gasket | 5. Rear gasket | 6. Outside handle bracket |
| 7. Inside handle | 8. Door lock assembly | 9. Key cylinder rod |
| 10. Key rod protector(SUPER LOCK model only) | 11. Key rod protector assembly (SUPER LOCK and RH handle model only) | 12. Outside handle cover |
| 13. Antenna | 14. Outside handle base | 15. TORX bolt |
| 16. TORX bolt | | |

A: Intelligent Key only

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001183791

REMOVAL

1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolt, and then disconnect the inside handle cable.
3. Remove the front door glass. Refer to [GW-19. "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-22. "Removal and Installation"](#).
5. Disconnect the door antenna and the door request switch connector and remove the harness clamp (models with Intelligent Key system).

FRONT DOOR LOCK

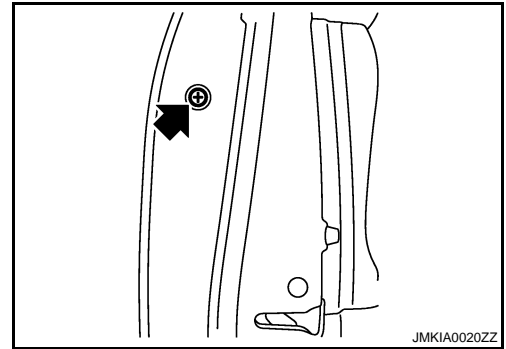
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

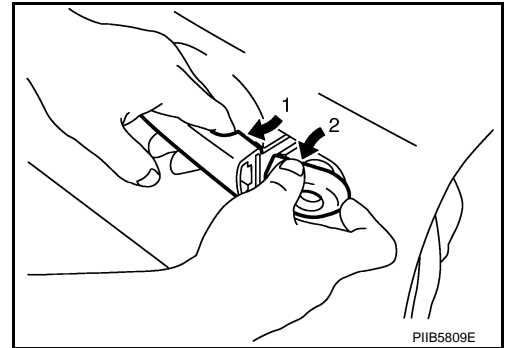
6. Remove the door side grommet, and loosen TORX bolt from grommet hole.

CAUTION:

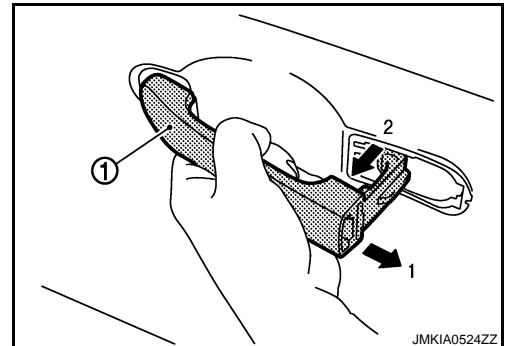
Do not forcibly remove the bolts.



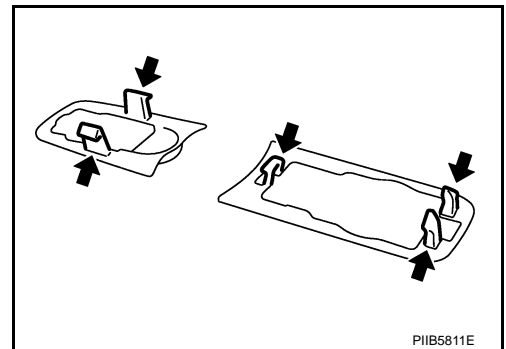
7. Reach in to separate the key cylinder rod connection (on the handle).
8. Disconnect the door key cylinder switch harness connector.
9. Remove the key cylinder lever from the door key cylinder.
10. While pulling the outside handle, remove door key cylinder assembly.



11. Disconnect front door request switch harness connector (models with Intelligent Key system).
12. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



13. Remove the front gasket and the rear gasket.



14. Remove the door lock assembly TORX bolts.
15. Disconnect the door lock actuator connector, and then remove the door lock assembly.

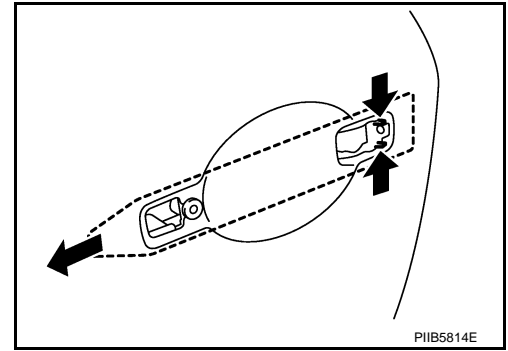
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FRONT DOOR LOCK

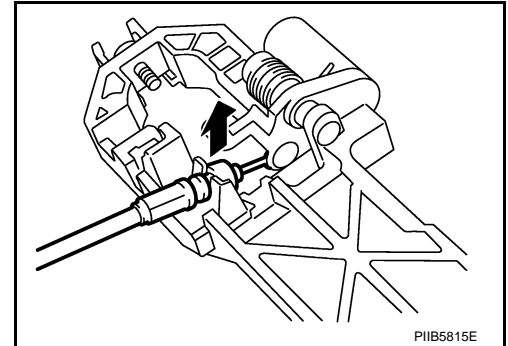
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

16. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



17. Reach in to separate the outside handle cable connection.



INSTALLATION

Install in the reverse order of removal.

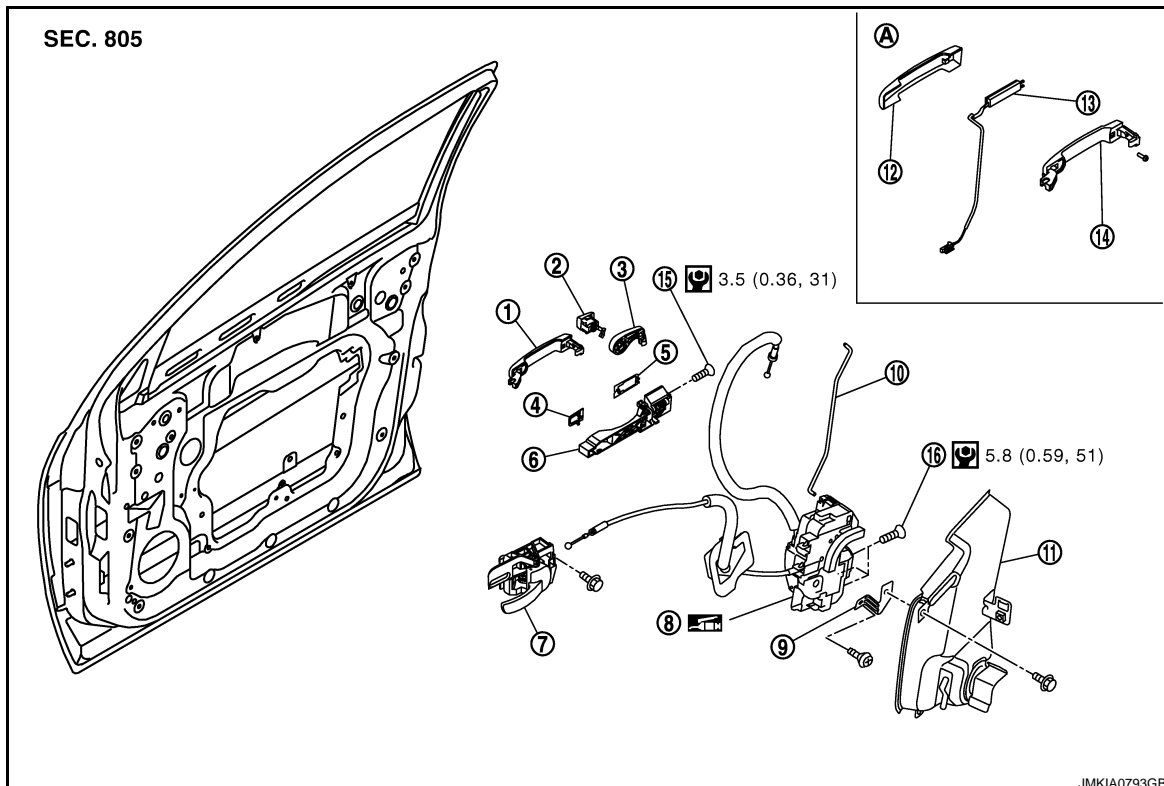
CAUTION:

- 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.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000001538417



DLK-256

FRONT DOOR LOCK

[WITH I-KEY, WITHOUT SUPER LOCK]

< ON-VEHICLE REPAIR >

- | | | |
|--|--|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder | 3. Key cylinder lever |
| 4. Front gasket | 5. Rear gasket | 6. Outside handle bracket |
| 7. Inside handle | 8. Door lock assembly | 9. Key cylinder rod |
| 10. Key rod protector(SUPER LOCK model only) | 11. Key rod protector assembly (SUPER LOCK and RH handle model only) | 12. Outside handle cover |
| 13. Antenna | 14. Outside handle base | 15. TORX bolt |
| 16. TORX bolt | | |

A: Intelligent Key only

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001183793

REMOVAL

1. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolt.
3. Disconnect the inside handle cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

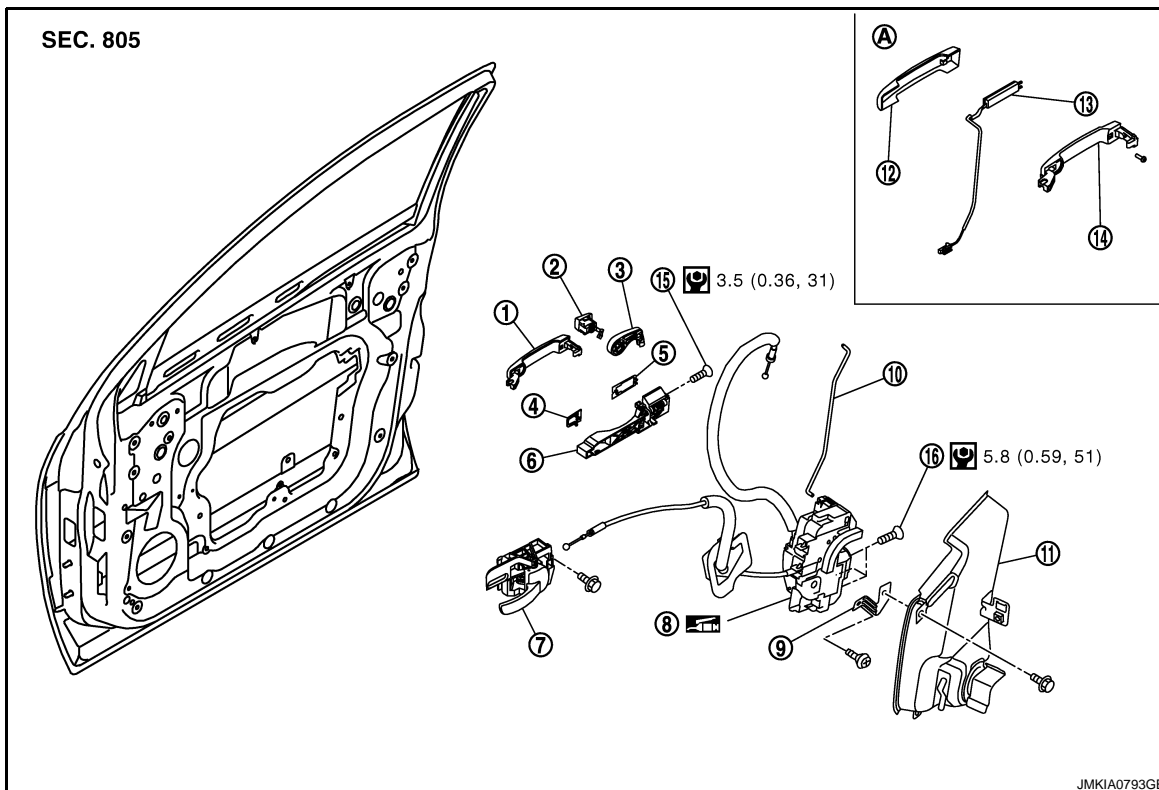
CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:000000001538418



- | | | |
|----------------------------|-----------------------|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder | 3. Key cylinder lever |
| 4. Front gasket | 5. Rear gasket | 6. Outside handle bracket |
| 7. Inside handle | 8. Door lock assembly | 9. Key cylinder rod |

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DLK

FRONT DOOR LOCK

[WITH I-KEY, WITHOUT SUPER LOCK]

< ON-VEHICLE REPAIR >

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|--|--|--------------------------|
| 10. Key rod protector(SUPER LOCK model only) | 11. Key rod protector assembly (SUPER LOCK and RH handle model only) | 12. Outside handle cover |
| 13. Antenna | 14. Outside handle base | 15. TORX bolt |
| 16. TORX bolt | | |
- A: Intelligent Key only

Refer to [GI-4. "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

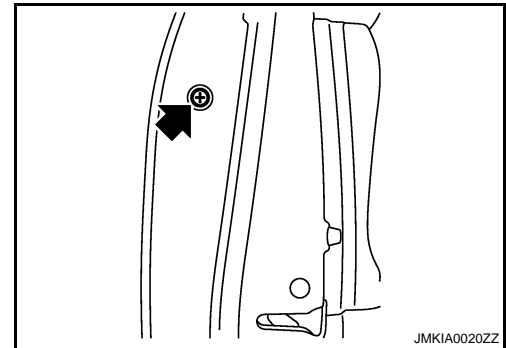
INFOID:000000001183795

REMOVAL

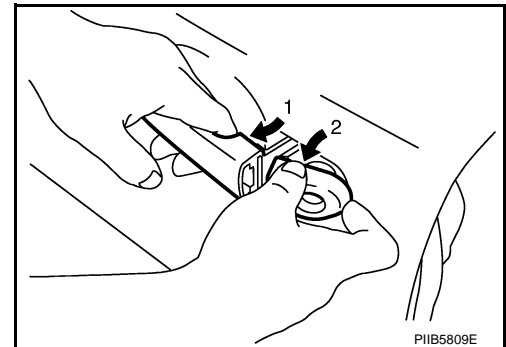
1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolt, and disconnect the inside handle knob cable and the lock knob cable.
3. Remove the front door glass. Refer to [GW-19. "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-22. "Removal and Installation"](#).
5. Disconnect the door antenna and the door request switch connector and remove the harness clamp (models with Intelligent Key system).
6. Remove the door side grommet, and loosen TORX bolt from the grommet hole.

CAUTION:

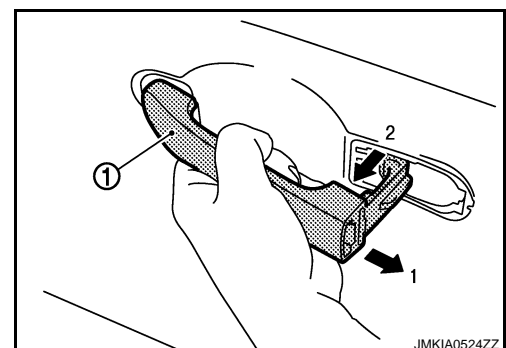
Do not forcibly remove the bolts .



7. Reach in to separate the key cylinder rod connection (on the handle).
8. Disconnect the door key cylinder switch harness connector.
9. Remove the key cylinder lever from the door key cylinder.
10. While pulling the outside handle, remove the door key cylinder assembly.



11. Disconnect the front door request switch harness connector (models with Intelligent Key system).
12. While pulling the outside handle (1), slide toward rear of vehicle to remove the outside handle.

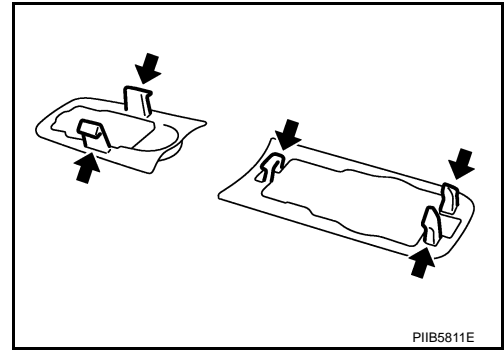


FRONT DOOR LOCK

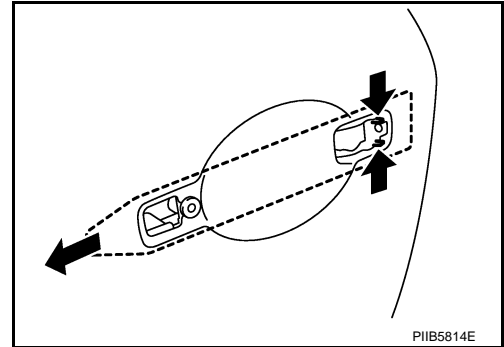
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

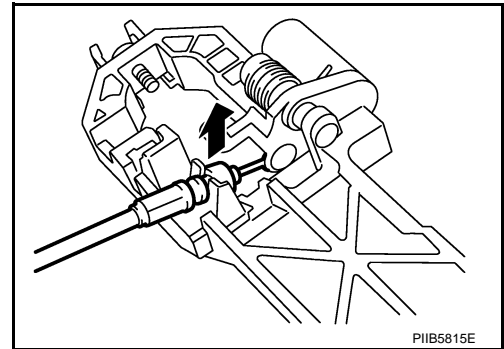
13. Remove the front gasket and rear gasket.



14. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



15. 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 >

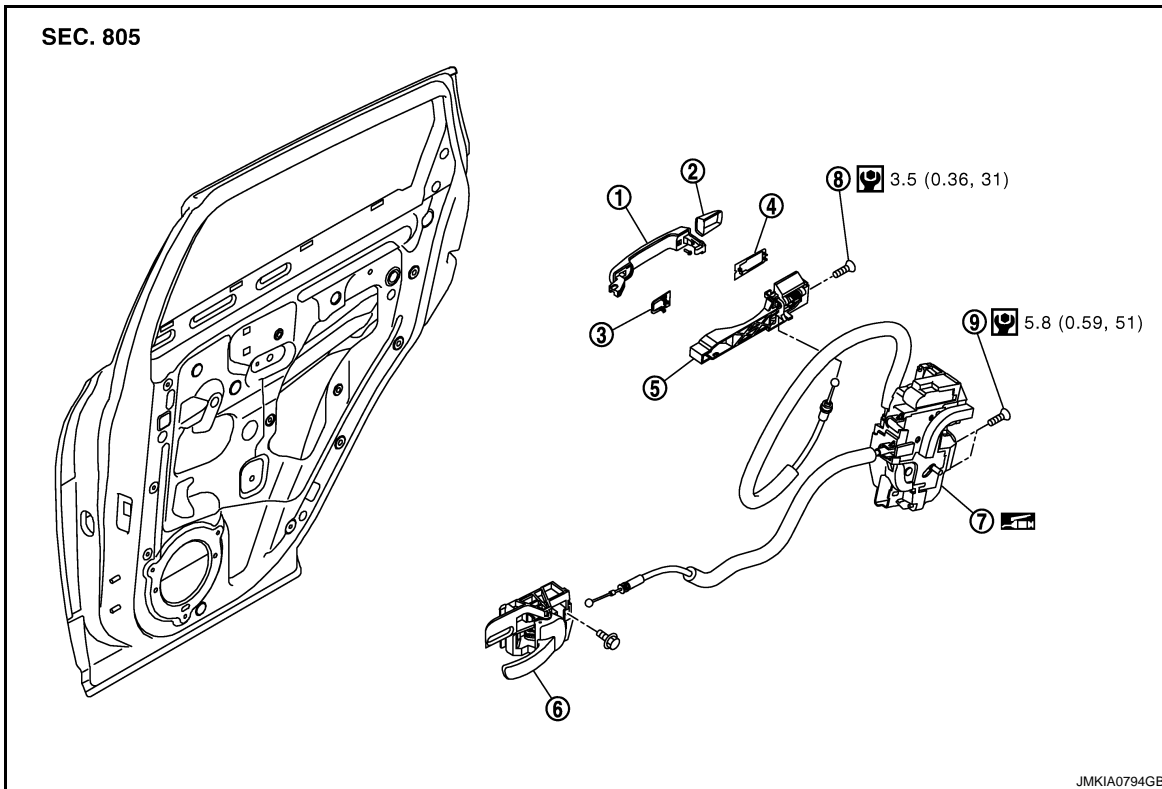
[WITH I-KEY, WITHOUT SUPER LOCK]

REAR DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001183796



- | | | |
|-----------------------|------------------------------|------------------|
| 1. Outside handle | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. Inside handle |
| 7. Door lock assembly | 8. TORX bolt | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

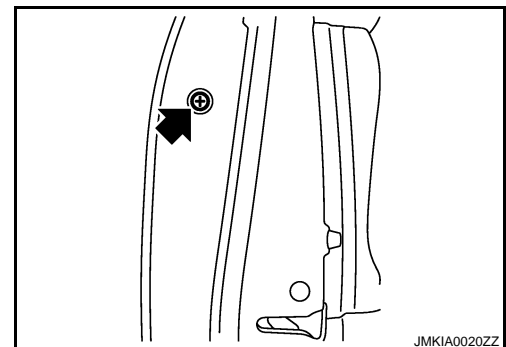
INFOID:000000001183797

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Fully close the front door window.
3. Remove the door sealing screen.
4. Remove the inside handle mounting bolt, and then disconnect the inside handle cable.
5. Remove the door side grommet, and loosen TORX bolt from the grommet hole.

CAUTION:

Do not forcibly remove the bolts.

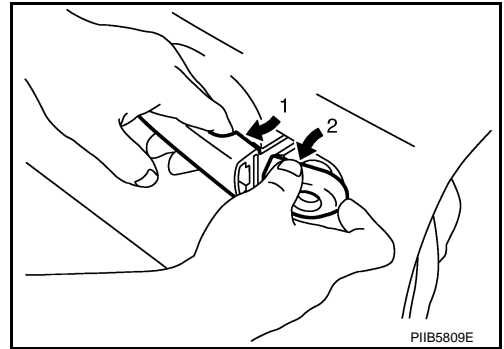


REAR DOOR LOCK

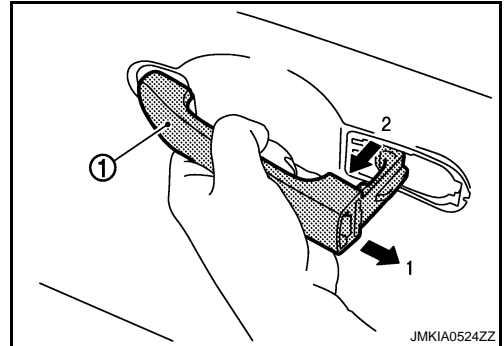
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

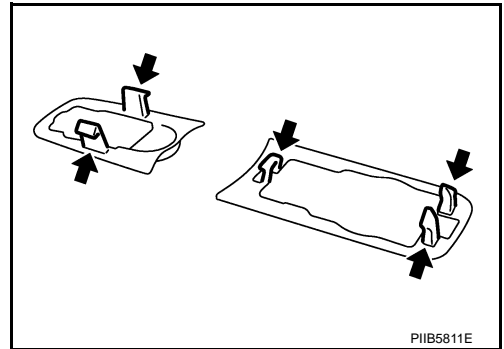
6. While pulling the outside handle, remove the door key cylinder assembly.



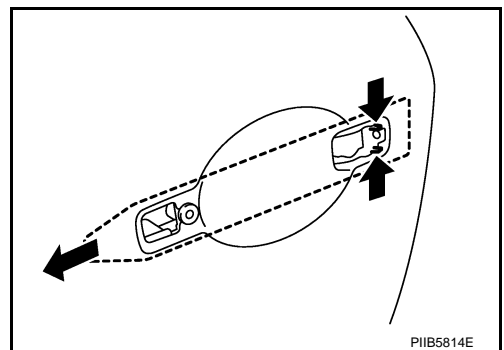
7. While pulling the outside handle (1), slide toward rear of vehicle to remove the outside handle.



8. Remove the front gasket and the rear gasket.



9. Remove the door lock assembly TORX bolts.
10. Disconnect the door lock actuator connector, and then remove the door lock assembly.
11. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



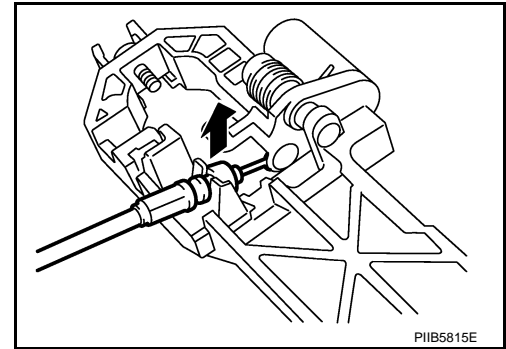
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REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

12. Reach in to separate the outside handle cable connection.



INSTALLATION

Install in the reverse order of removal.

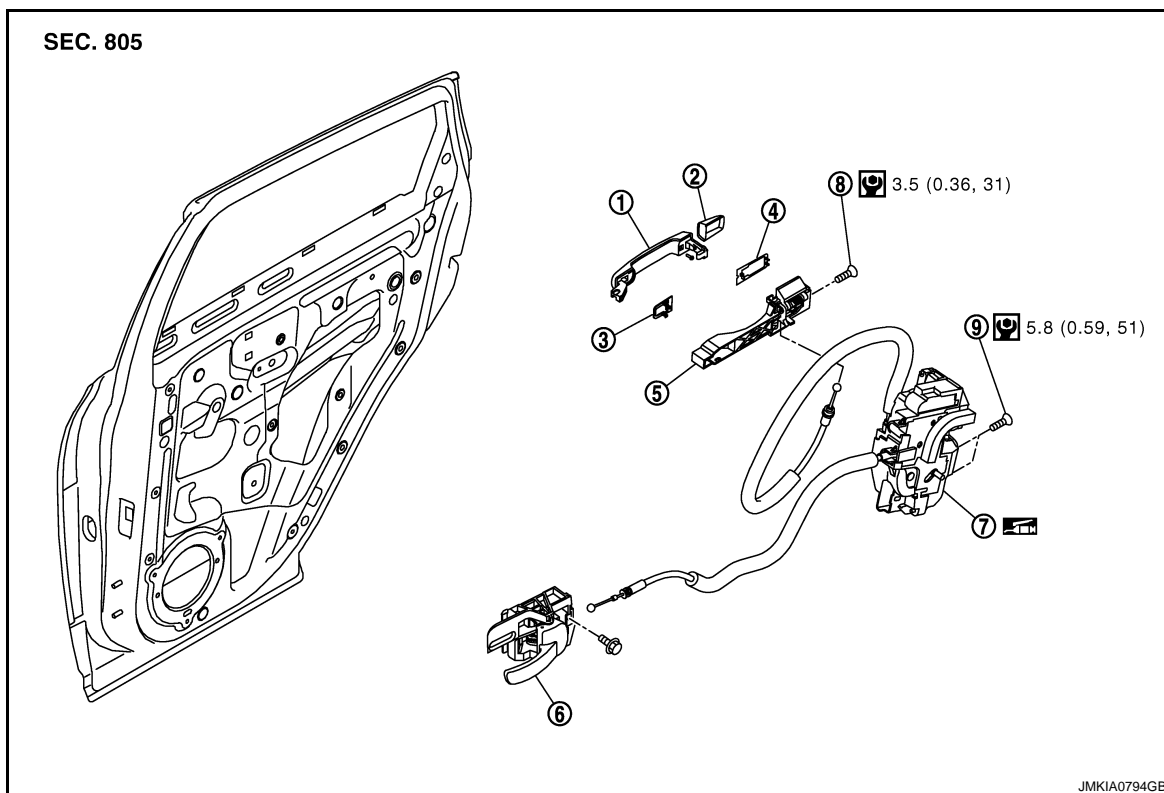
CAUTION:

- 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.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000001538419



- | | | |
|-----------------------|------------------------------|------------------|
| 1. Outside handle | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. Inside handle |
| 7. Door lock assembly | 8. TORX bolt | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001183799

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove the door sealing screen.

REAR DOOR LOCK

[WITH I-KEY, WITHOUT SUPER LOCK]

< ON-VEHICLE REPAIR >

3. Remove the inside handle mounting bolt, and then disconnect the inside handle cable.
4. Remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

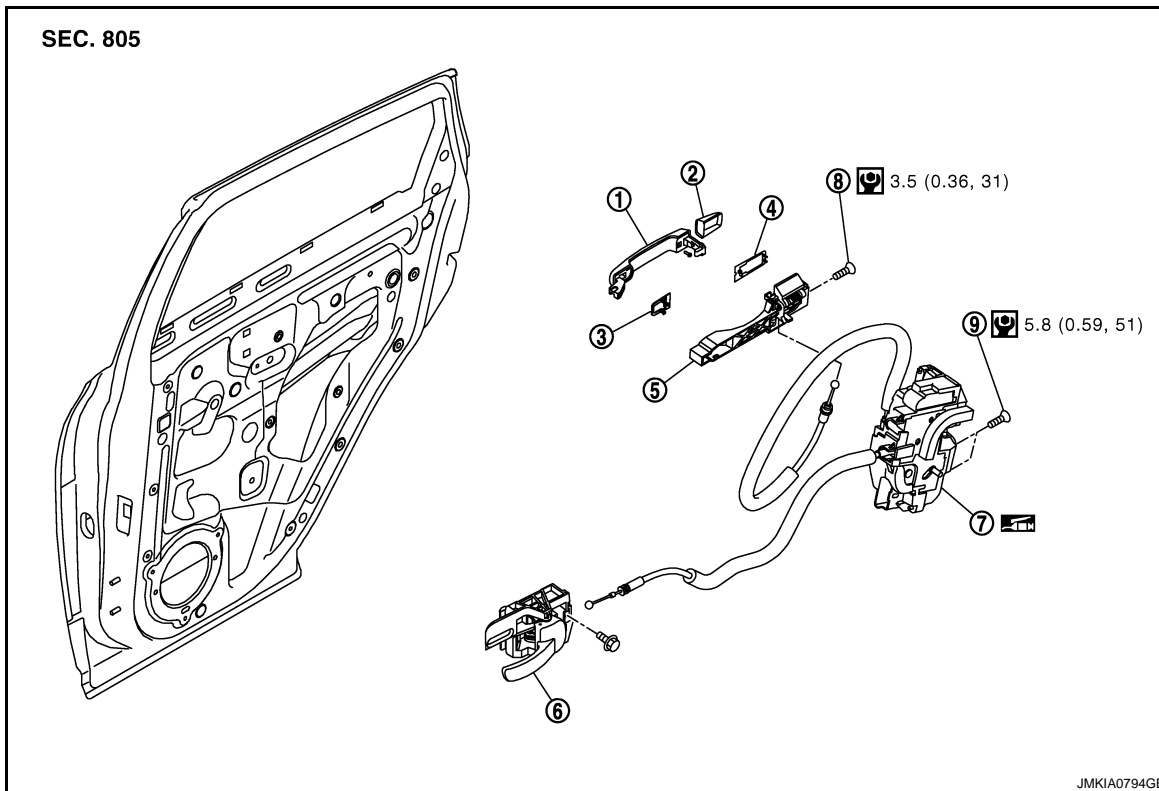
CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:000000001538420



- | | | |
|-----------------------|------------------------------|------------------|
| 1. Outside handle | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. Inside handle |
| 7. Door lock assembly | 8. TORX bolt | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

INFOID:000000001183801

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Fully close the front door window.
3. Remove the door sealing screen.
4. Remove the inside handle mounting bolt, disconnect the inside handle cable.

REAR DOOR LOCK

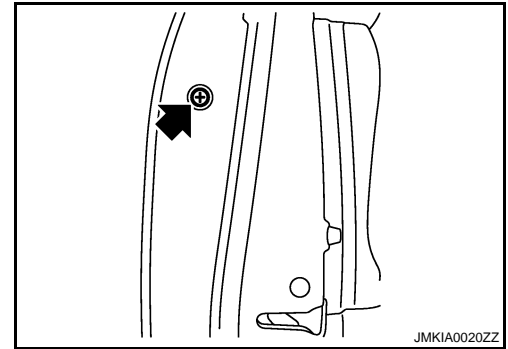
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

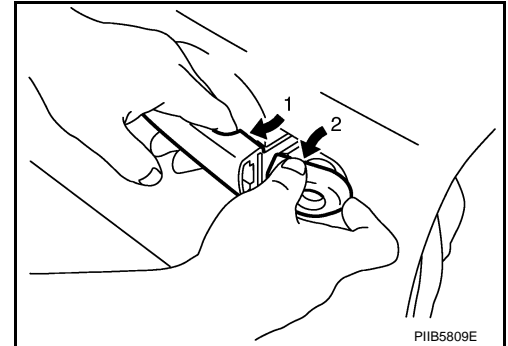
5. Remove the door side grommet, and loosen TORX bolt from the grommet hole.

CAUTION:

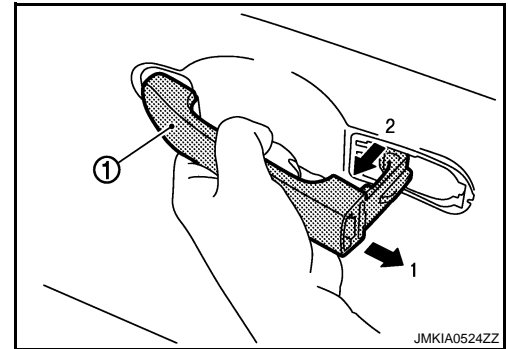
Do not forcibly remove the bolts.



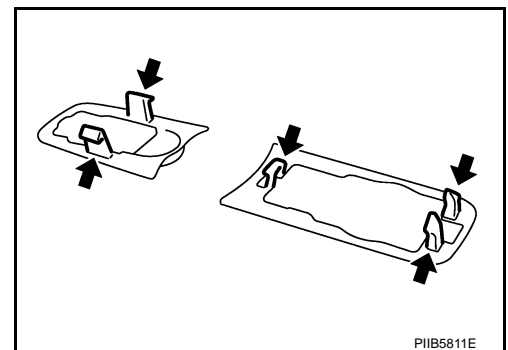
6. While pulling the outside handle, and then remove the door key cylinder assembly.



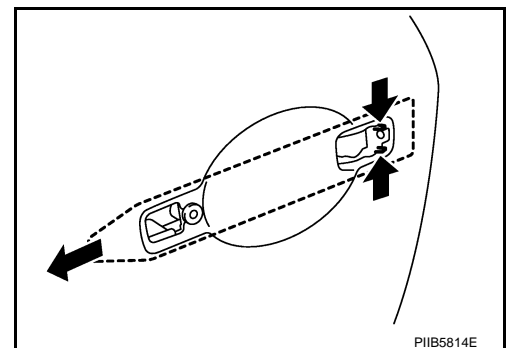
7. While pulling the outside handle (1), slide toward rear of vehicle to remove the outside handle.



8. Remove the front gasket and the rear gasket.



9. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.

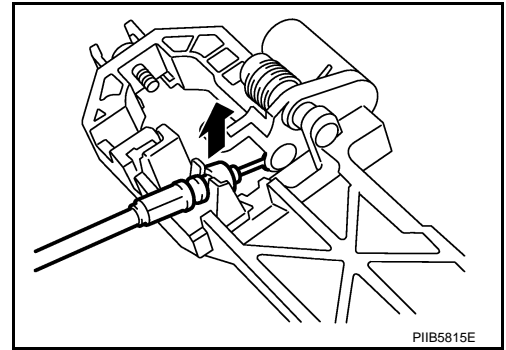


REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

10. Reach in to separate the outside handle cable connection.



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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BACK DOOR LOCK

< ON-VEHICLE REPAIR >

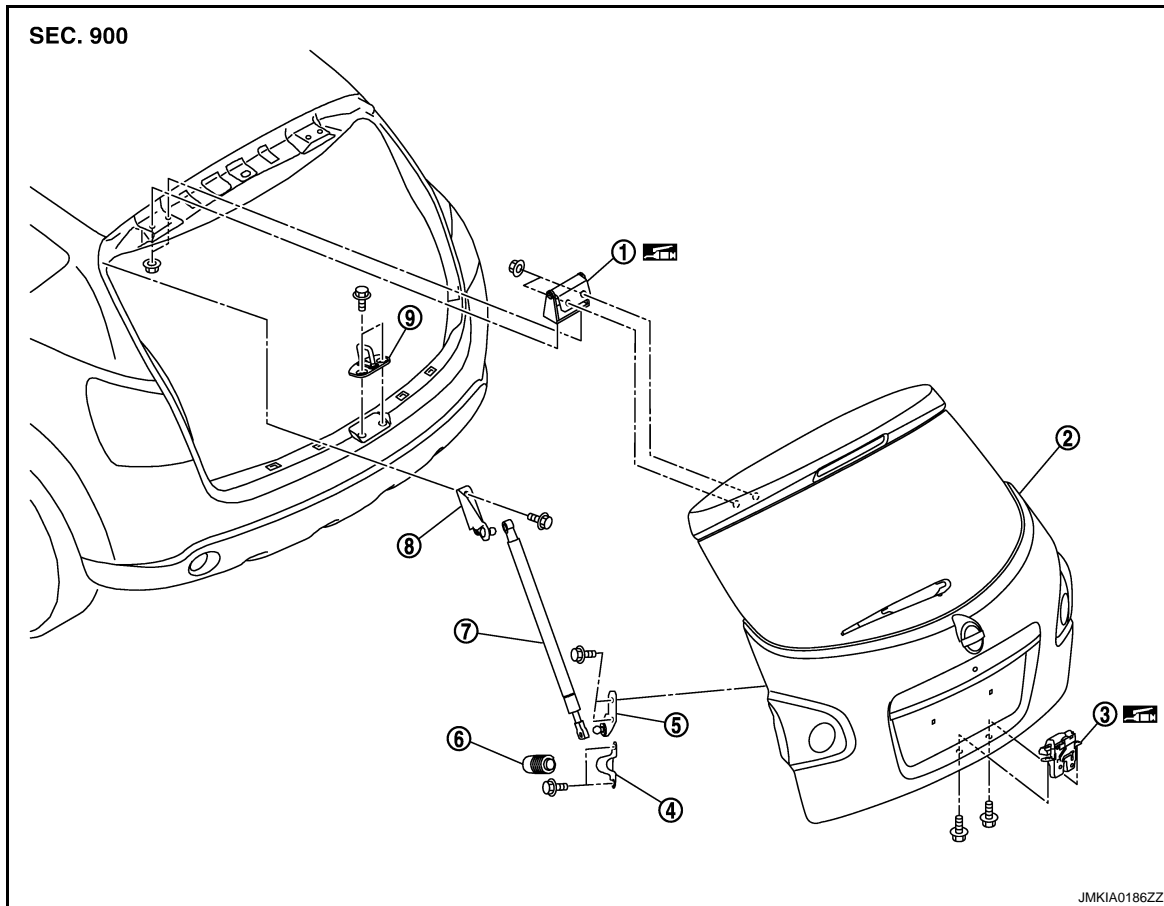
[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001183802



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001183803

REMOVAL

1. Remove the back door trim finisher lower. Refer to [INT-26. "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 >

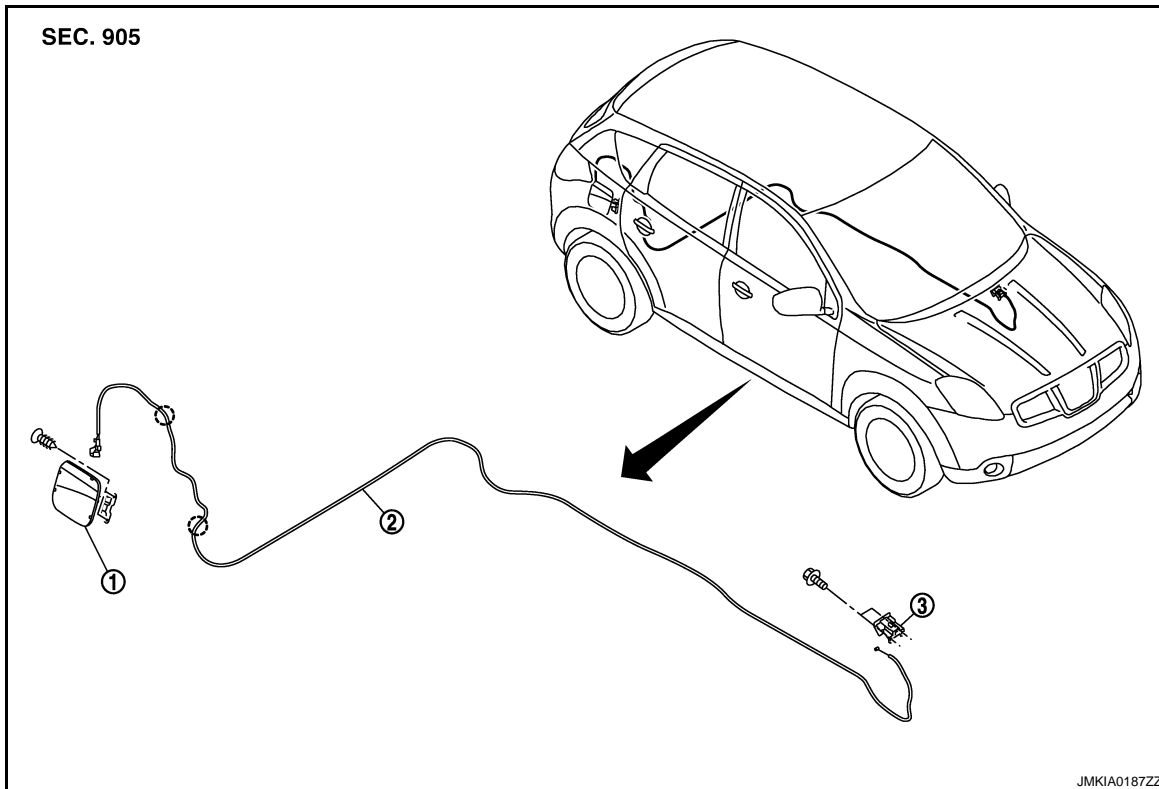
[WITH I-KEY, WITHOUT SUPER LOCK]

FUEL FILLER LID OPENER

FUEL FILLER LID

FUEL FILLER LID : Exploded View

INFOID:000000001183804



1. Fuel filler lid assembly

2. Fuel filler opener cable

3. Fuel opener lever

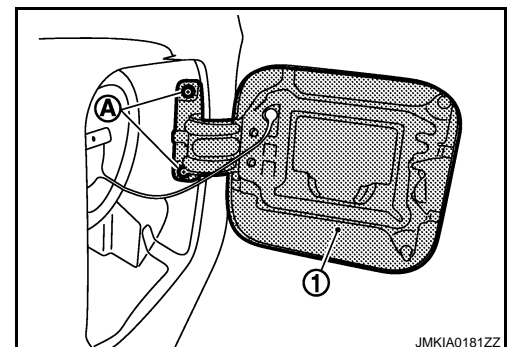
○ : Clip

FUEL FILLER LID : Removal and Installation

INFOID:000000001183805

REMOVAL

1. Fully open the fuel filler lid.
2. Remove the filler cap.
3. Remove the mounting screws (A), and then remove the fuel filler lid (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, apply the touch-up paint (the body color) onto the head of the mounting screws.

FUEL FILLER OPENER CABLE

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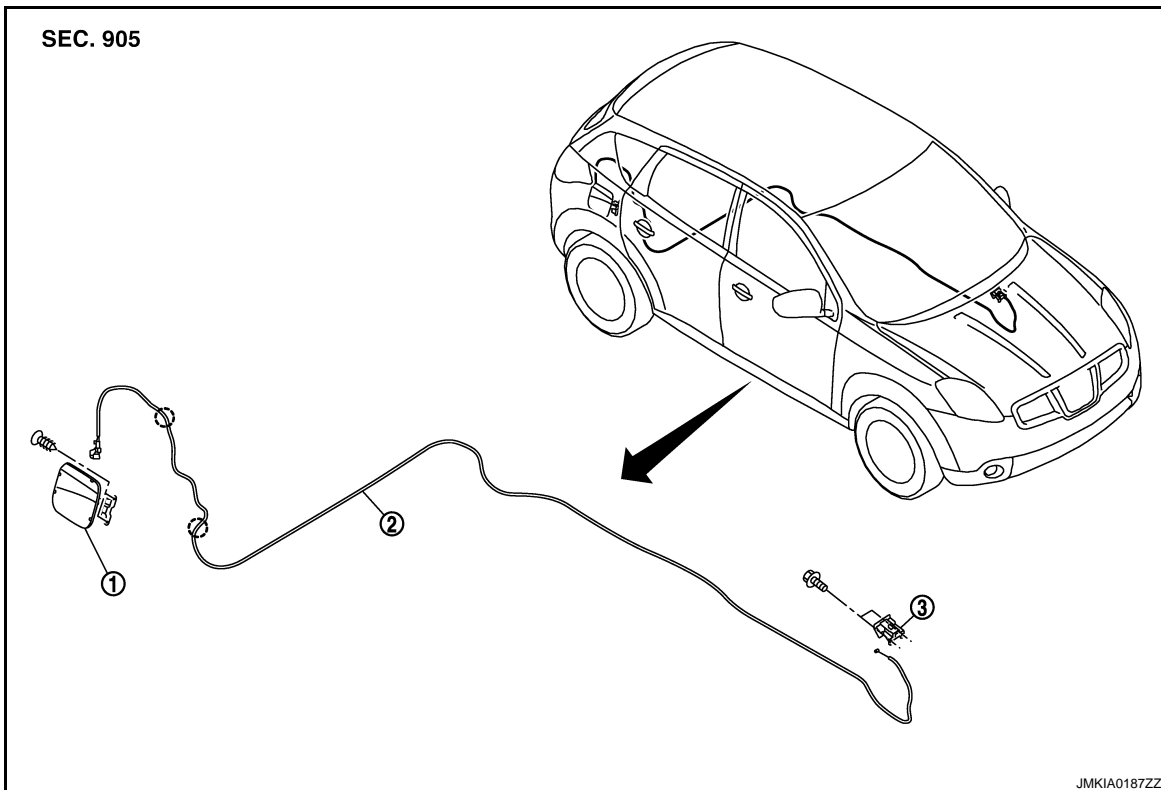
FUEL FILLER LID OPENER

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

FUEL FILLER OPENER CABLE : Exploded View


INFOID:000000001538421



1. Fuel filler lid assembly

2. Fuel filler opener cable

3. Fuel opener lever

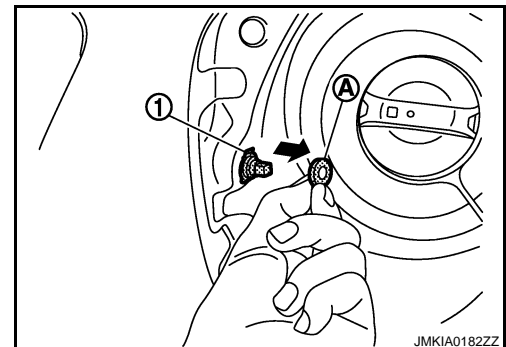
 : Clip

FUEL FILLER OPENER CABLE : Removal and Installation

INFOID:000000001183807

REMOVAL

1. Remove the rear seat cushion, rear seatback, seatback lower support, and seatback mounting outer bracket. Refer to [SE-21. "Removal and Installation"](#).
2. Remove the dash side finisher, front kicking plate inner, rear kicking plate inner, center pillar lower garnish, and luggage side lower finisher (front). Refer to [INT-14. "Removal and Installation"](#).
3. Remove the parcel shelf, luggage floor carpet, luggage floor spacer, luggage rear plate, luggage side lower finisher, and rear pillar finisher. Refer to [INT-24. "Removal and Installation"](#).
4. Remove the fuel filler lock seal (A) from fuel filler opener cable (1).

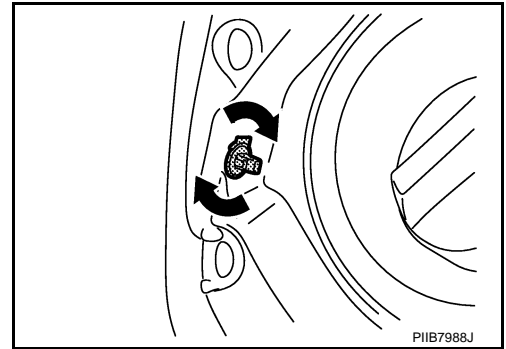


FUEL FILLER LID OPENER

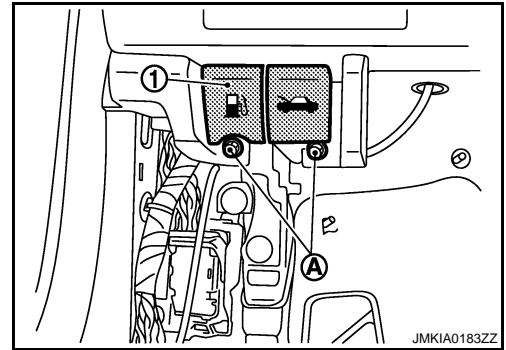
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

5. Rotate the fuel filler lock, and then remove the fuel filler lock.



6. Remove the fuel filler opener cable mounting clips and the clamps.
7. Remove the mounting bolts (A), and then remove the fuel filler lid opener lever (1).



8. Remove the fuel filler opener cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the fuel filler lid open/close operation after installation.

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DOOR SWITCH

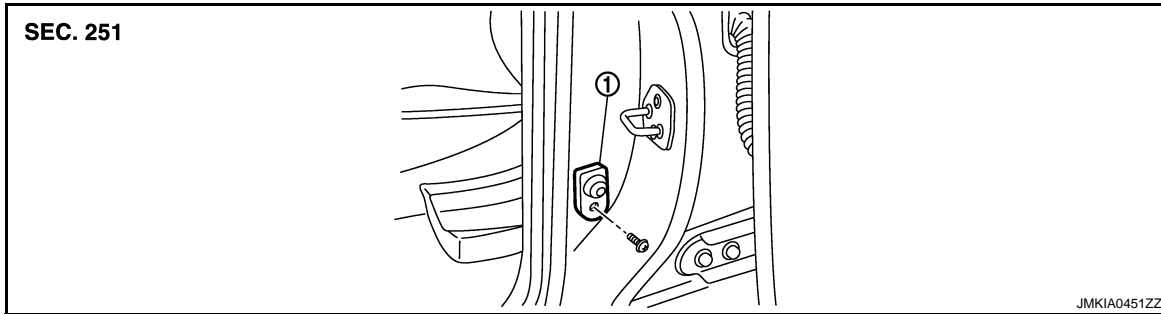
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR SWITCH

Exploded View

INFOID:000000001183808



1. Door switch (driver side)

Refer to [DLK-270. "Removal and Installation"](#).

Removal and Installation

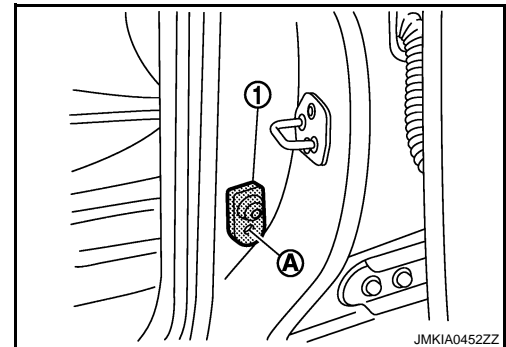
INFOID:000000001183809

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

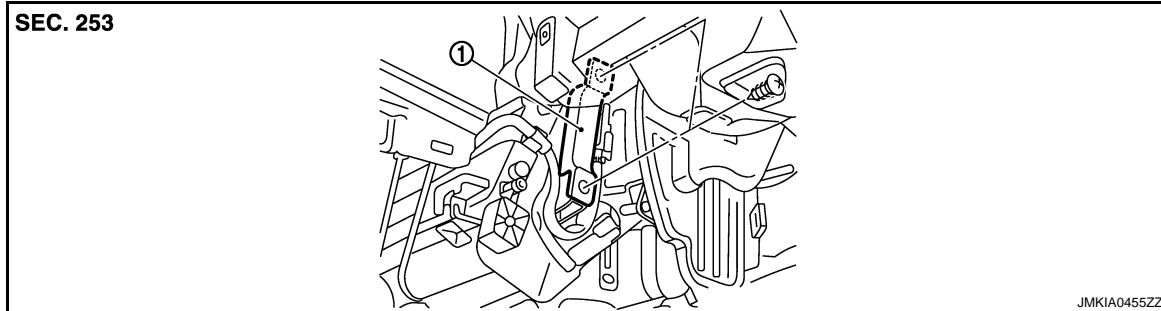
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Exploded View

INFOID:000000001183810



1. Inside key antenna (instrument center)

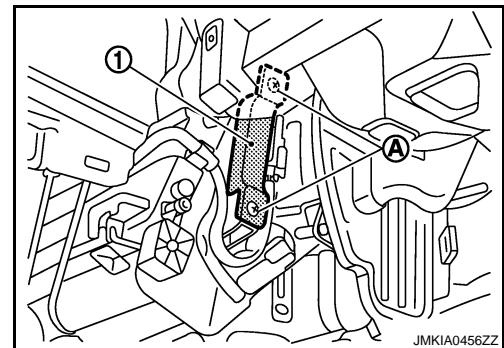
Refer to [DLK-271, "INSTRUMENT CENTER : Removal and Installation"](#).

INSTRUMENT CENTER : Removal and Installation

INFOID:000000001183811

REMOVAL

1. Remove the glove box and instrument lower cover RH. Refer to [IP-11, "Exploded View"](#) and [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).



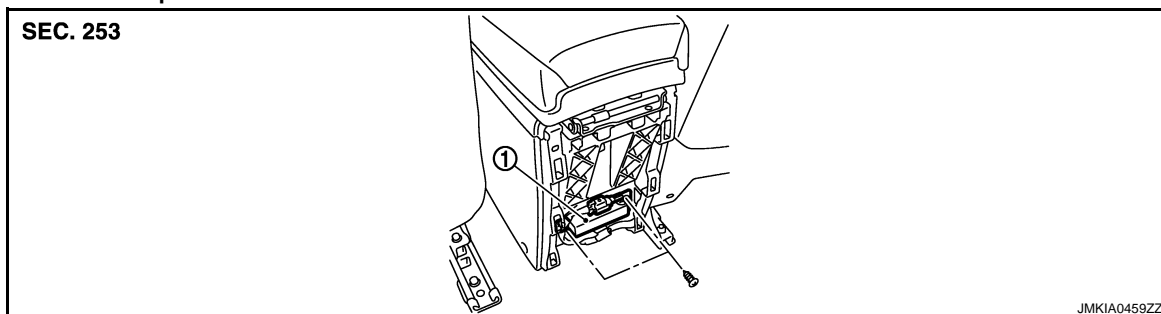
INSTALLATION

Install in the reverse order of removal.

CONSOLE

CONSOLE : Exploded View

INFOID:000000001183812



1. Inside key antenna (console)

Refer to [DLK-271, "CONSOLE : Removal and Installation"](#).

CONSOLE : Removal and Installation

INFOID:000000001183813

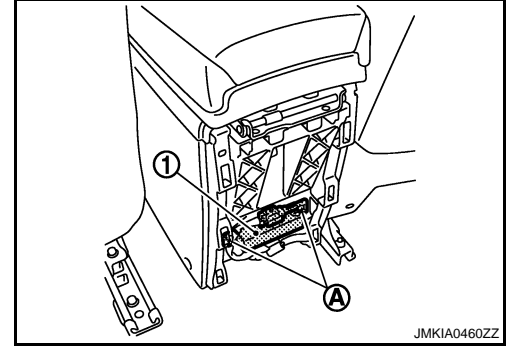
REMOVAL

INSIDE KEY ANTENNA

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

1. Remove the console rear finisher. Refer to [IP-18. "Exploded View"](#) and [IP-18. "Removal and Installation"](#).
2. Remove the inside key antenna (console) mounting screw (A), and then remove inside key antenna (console) (1).

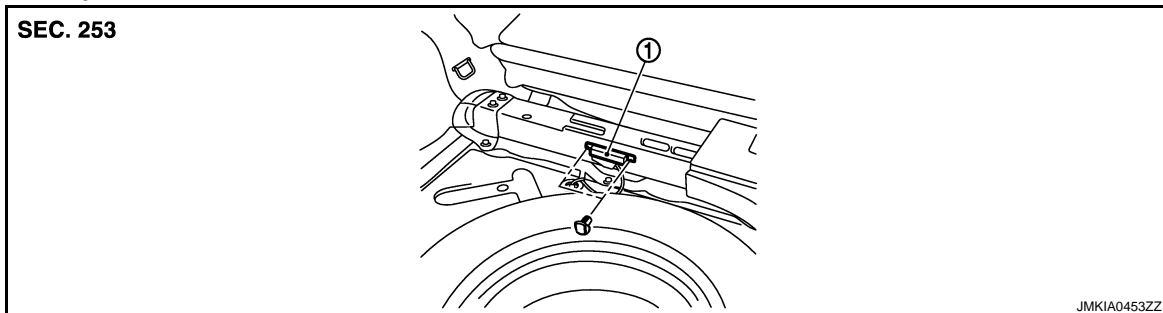


INSTALLATION

Install in the reverse order of removal.

REAR

REAR : Exploded View



1. Inside key antenna (rear seat)

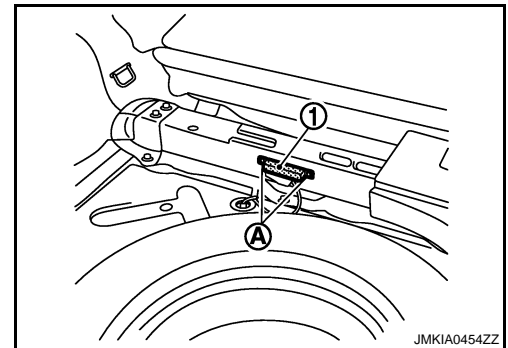
Refer to [DLK-272. "REAR : Removal and Installation"](#).

REAR : Removal and Installation

INFOID:000000001183815

REMOVAL

1. Remove the luggage floor spacer (LH). Refer to [INT-24. "Exploded View"](#) and [INT-24. "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

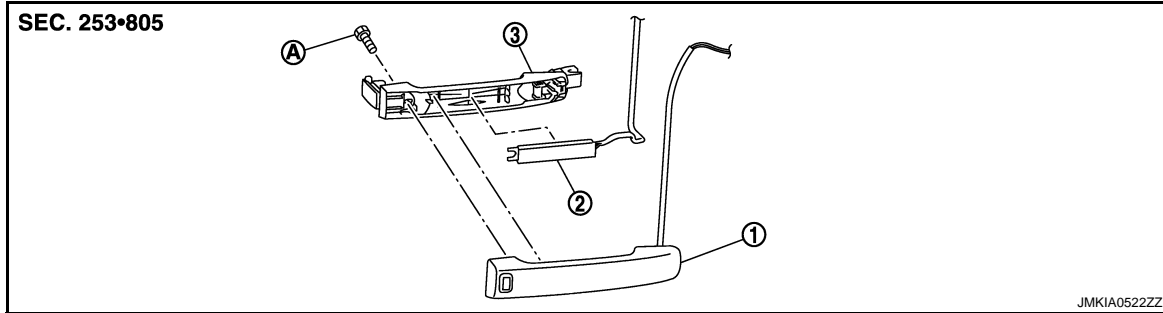
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Exploded View



1. Outside handle grip
 2. Outside key antenna
 3. Outside handle bracket
- A. Bolt

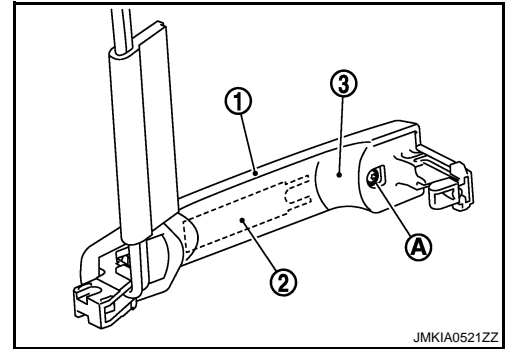
Refer to [DLK-273, "DRIVER SIDE : Removal and Installation"](#).

DRIVER SIDE : Removal and Installation

INFOID:000000001183817

REMOVAL

1. Remove the outside handle. Refer to [DLK-258, "OUTSIDE HANDLE : Removal and Installation"](#).
2. Remove the bolt (A) from outside handle grip (1).
3. Remove the outside key antenna (2) from outside handle bracket (3).

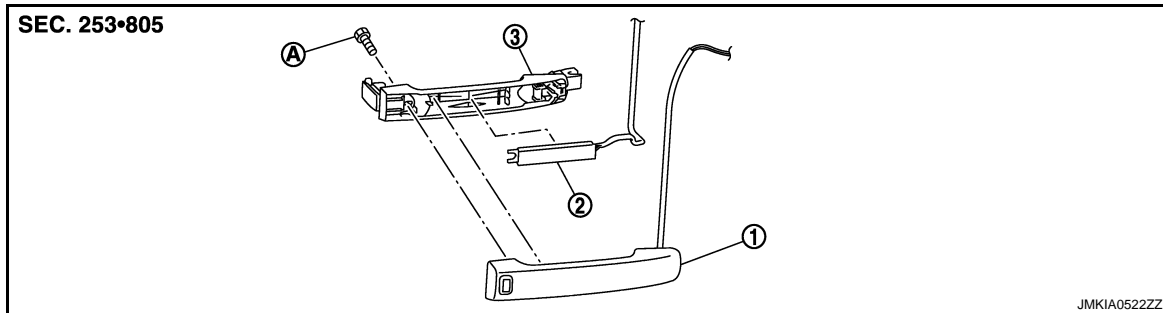


INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Exploded View



1. Outside handle grip
 2. Outside key antenna
 3. Outside handle bracket
- A. Bolt

Refer to [DLK-273, "PASSENGER SIDE : Removal and Installation"](#).

PASSENGER SIDE : Removal and Installation

INFOID:000000001183819

REMOVAL

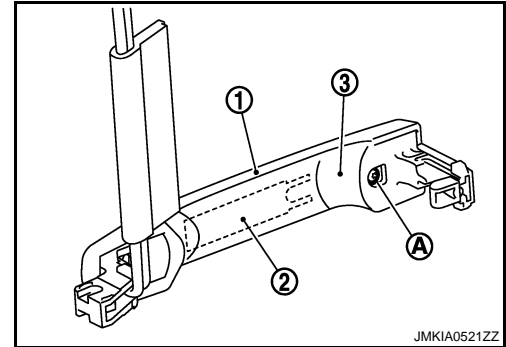
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OUTSIDE KEY ANTENNA

[WITH I-KEY, WITHOUT SUPER LOCK]

< ON-VEHICLE REPAIR >

1. Remove the outside handle. Refer to [DLK-258, "OUTSIDE HANDLE : Removal and Installation"](#).
2. Remove the bolt (A) from outside handle grip (1).
3. Remove the outside key antenna (2) from outside handle bracket (3).



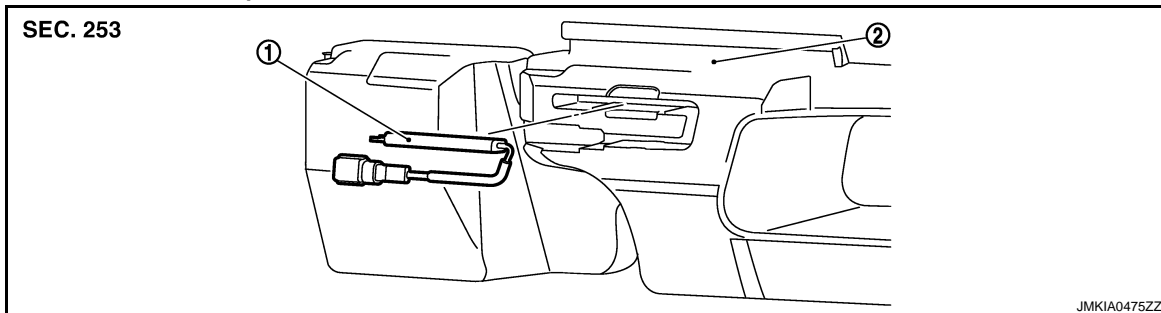
INSTALLATION

Install in the reverse order of removal.

REAR BUMPER

REAR BUMPER : Exploded View

INFOID:000000001183820



1. Outside key antenna (rear bumper)
2. Rear bumper energy absorber

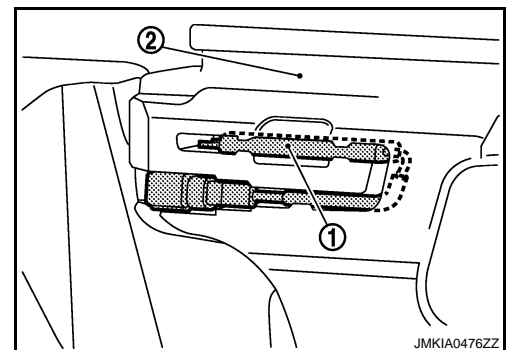
Refer to [DLK-274, "REAR BUMPER : Removal and Installation"](#).

REAR BUMPER : Removal and Installation

INFOID:000000001183821

REMOVAL

1. Remove the rear bumper. Refer to [EXT-14, "Exploded View"](#) and [EXT-15, "Removal and Installation"](#).
2. Remove the outside key antenna (rear bumper) (1) from rear bumper energy absorber (2).



INSTALLATION

Install in the reverse order of removal.

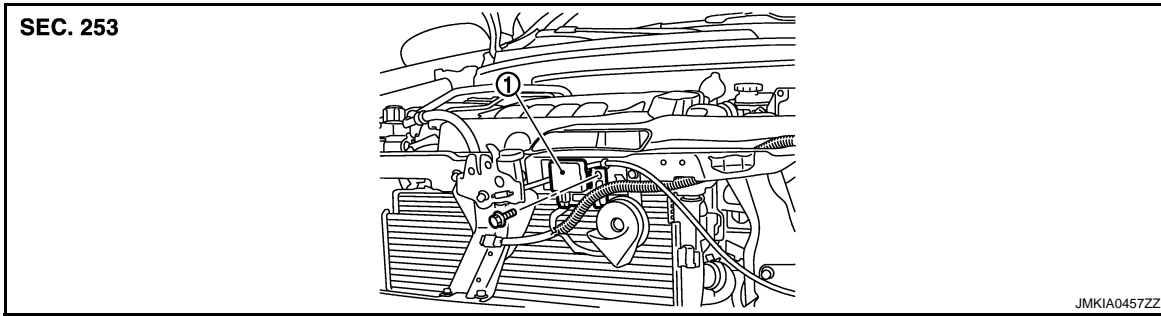
INTELLIGENT KEY WARNING BUZZER

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

INTELLIGENT KEY WARNING BUZZER

Exploded View



1. Intelligent Key warning buzzer

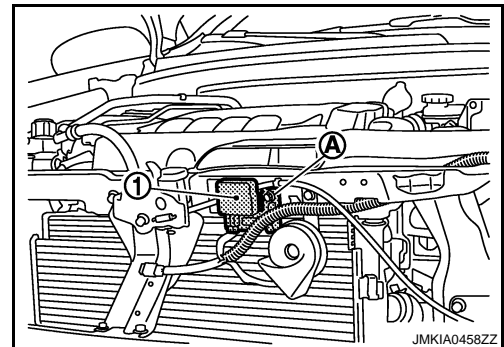
Refer to [DLK-275. "Removal and Installation"](#).

Removal and Installation

INFOID:000000001183823

REMOVAL

1. Remove the front bumper. Refer to [EXT-11. "Exploded View"](#) and [EXT-11. "Removal and Installation"](#).
2. Remove the Intelligent Key warning buzzer mounting bolt (A), and then remove the Intelligent Key warning buzzer (1).



INSTALLATION

Install in the reverse order of removal.

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DLK

BACK DOOR REQUEST SWITCH

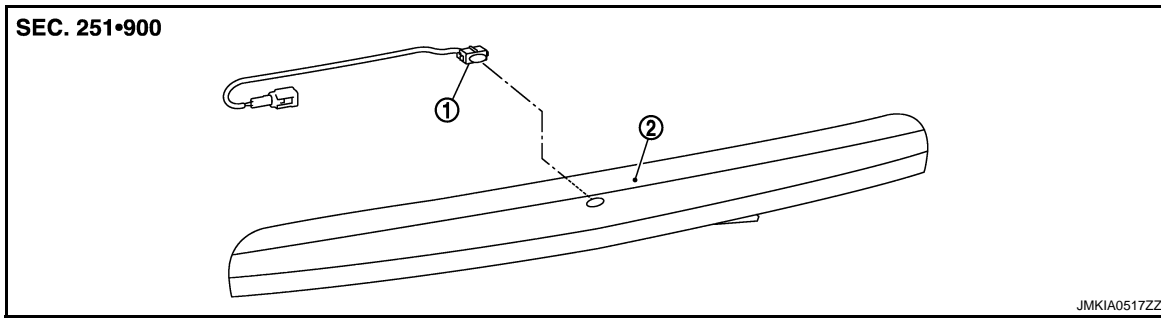
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR REQUEST SWITCH

Exploded View

INFOID:000000001183824



1. Back door request switch
2. Back door finisher

Refer to [DLK-276, "Removal and Installation"](#).

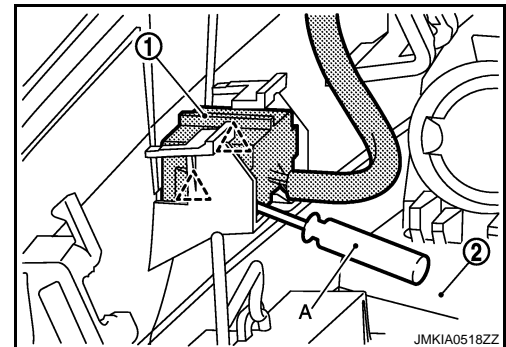
Removal and Installation

INFOID:000000001183825

REMOVAL

1. Remove the back door finisher.
Refer to [EXT-31, "Exploded View"](#) and [EXT-31, "Removal and Installation"](#).
2. Remove the back door request switch (1) from back door finisher (2) using flat-bladed screw driver (A) etc.

 : Pawl



INSTALLATION

Install in the reverse order of removal.

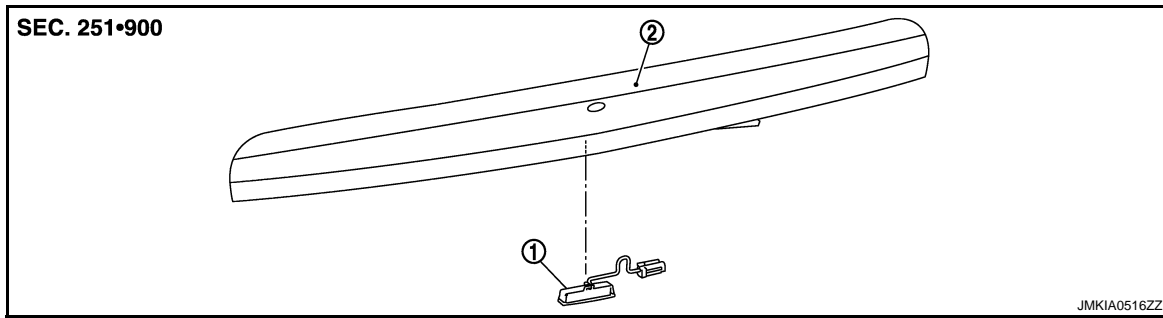
BACK DOOR OPENER SWITCH

< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

BACK DOOR OPENER SWITCH

Exploded View



1. Back door opener switch
2. Back door finisher

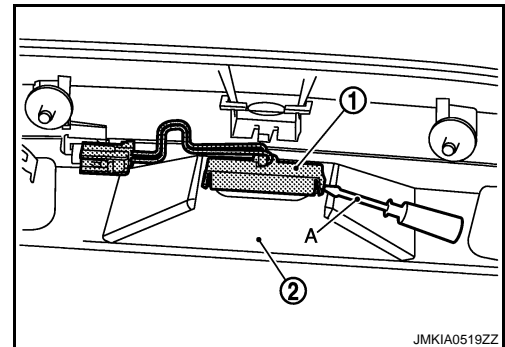
Refer to [DLK-277, "Removal and Installation"](#).

Removal and Installation

INFOID:000000001183827

REMOVAL

1. Remove the back door finisher.
Refer to [EXT-31, "Exploded View"](#) and [EXT-31, "Removal and Installation"](#).
2. Remove the back door opener switch (1) from back door finisher (2) using flat-bladed screw driver (A) etc.



INSTALLATION

Install in the reverse order of removal.

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DOOR LOCK AND UNLOCK SWITCH

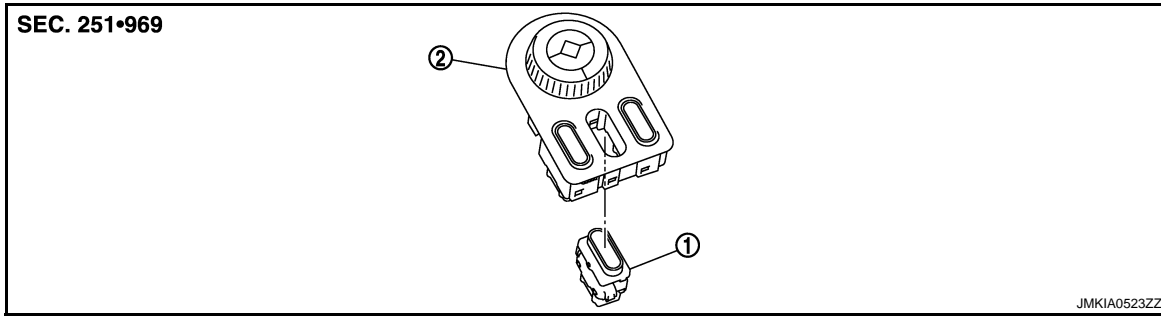
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH

Exploded View

INFOID:000000001183828



1. Door lock and unlock switch
2. Center console switch panel

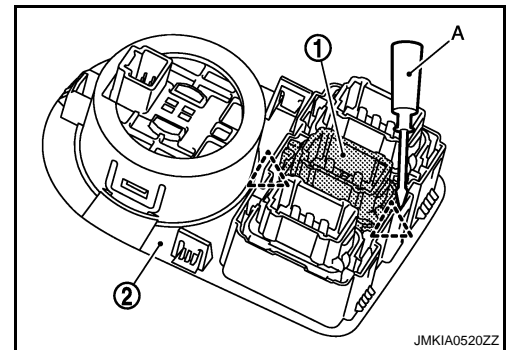
Refer to [DLK-278. "Removal and Installation"](#).

Removal and Installation

INFOID:000000001183829

REMOVAL

1. Remove the center console switch panel. Refer to [IP-18. "Exploded View"](#) and [IP-18. "Removal and Installation"](#).
2. Remove the door lock and unlock switch (1) from center console switch panel (2) using flat-bladed screwdriver (A), etc.



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:000000001183830

Refer to [DLK-279, "Removal and Installation"](#).

Removal and Installation

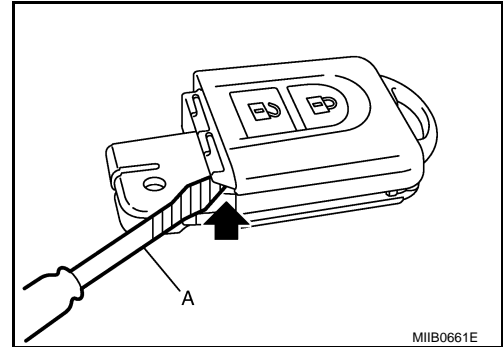
INFOID:000000001183831

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:

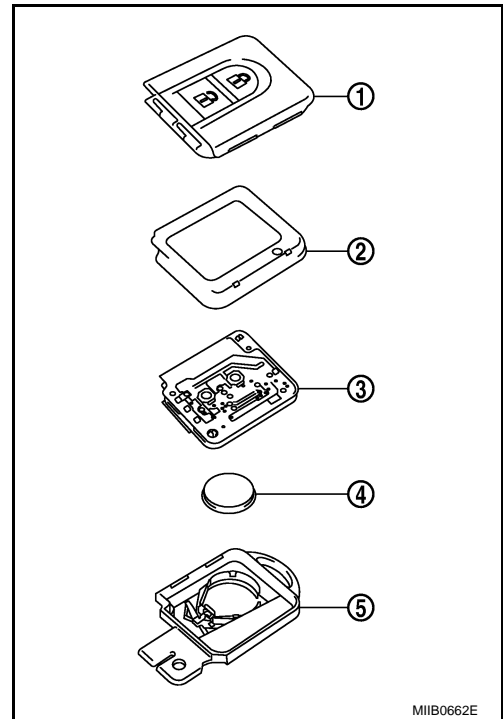
When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.

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-134, "Component Function Check"](#).



INSTALLATION

Install in the reverse order of removal.

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INTELLIGENT KEY UNIT

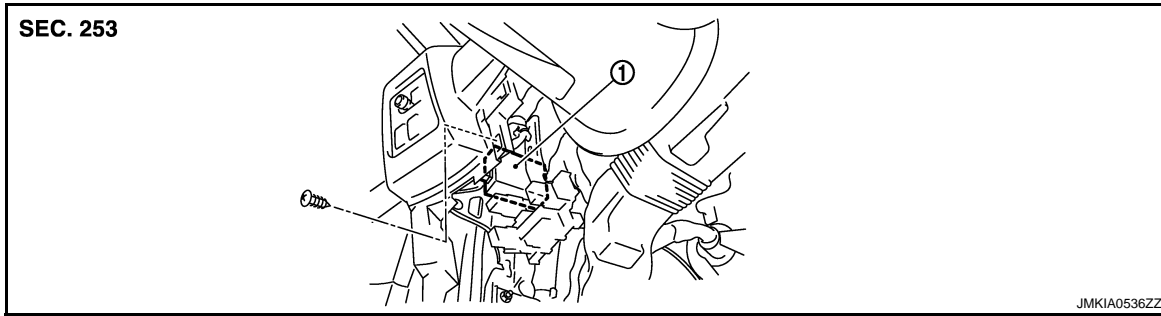
< ON-VEHICLE REPAIR >

[WITH I-KEY, WITHOUT SUPER LOCK]

INTELLIGENT KEY UNIT

Exploded View

INFOID:000000001183832



1. Intelligent Key unit
M40

Refer to [DLK-280. "Removal and Installation"](#).

Removal and Installation

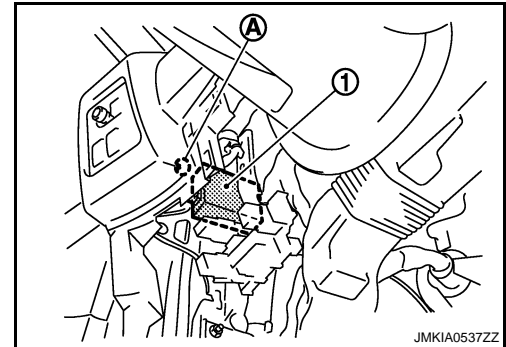
INFOID:000000001183833

REMOVAL

1. Remove lower instrument panel (driver side) and mirror switch finisher. Refer to [IP-11, "Exploded View"](#) and [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-23, "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]

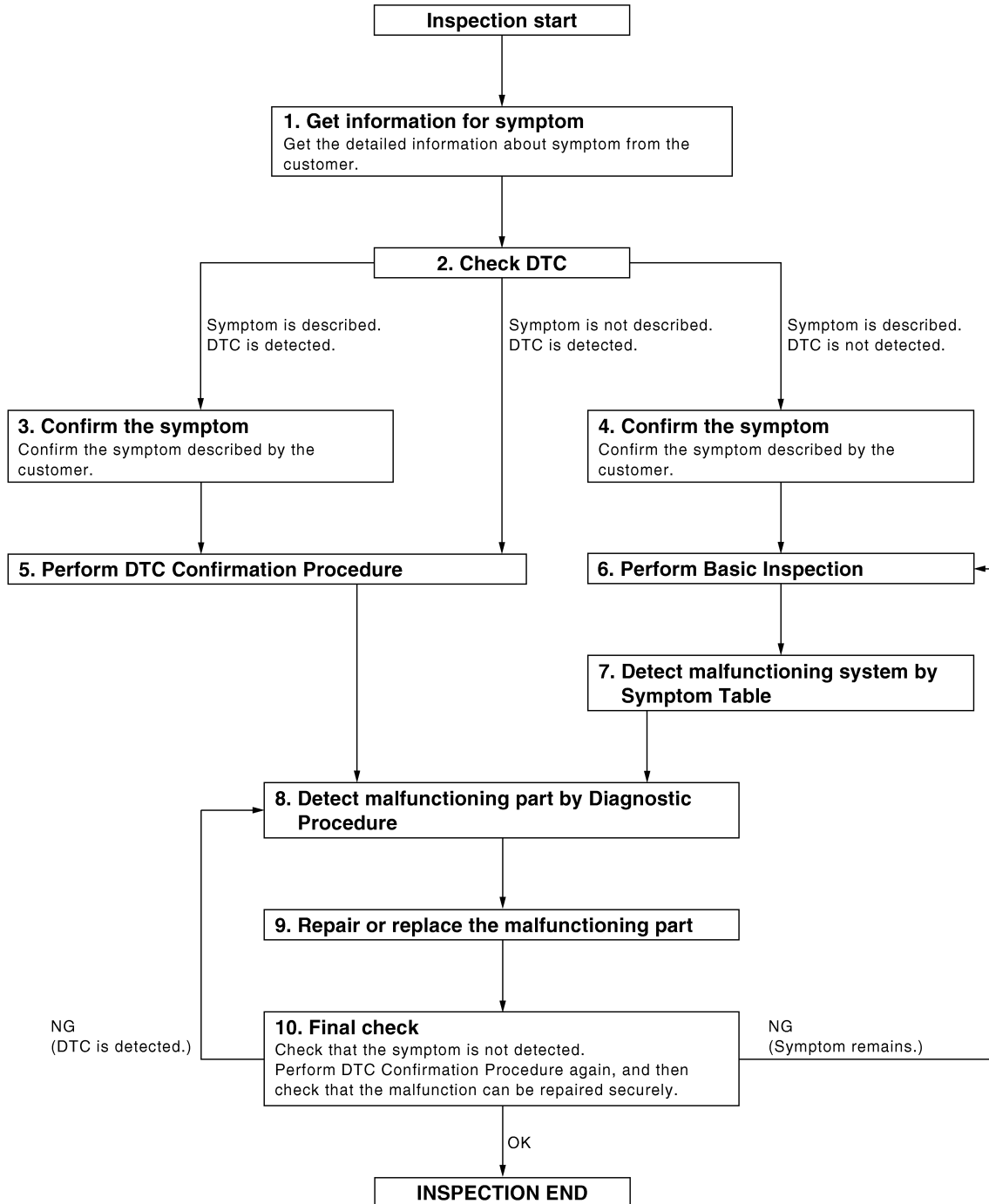
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000001183834

OVERALL SEQUENCE



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DETAILED FLOW

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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-431, "DTC Inspection Priority Chart"](#) (Intelligent Key unit), [DLK-470, "DTC Inspection Priority Chart"](#) (BCM) and determine trouble diagnosis order.

Is DTC detected?

- YES >> GO TO 8.
- NO >> Refer to [GI-39, "Intermittent Incident"](#).

6.PERFORM BASIC INSPECTION

Perform Basic Inspection. Refer to [DLK-489, "Basic Inspection"](#).

>> GO TO 7.

7.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

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

>> GO TO 8.

8.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

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

>> GO TO 9.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITH I-KEY & SUPER LOCK]

9. 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.

>> GO TO 10.

10. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely.

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

Does the symptom reappear?

YES (DTC is detected)>>GO TO 8.

YES (Symptom remains)>>GO TO 6.

NO >> **INSPECTION END**

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DLK

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:000000001183835

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:000000001183836

Refer to the CONSULT-III Operation Manual-NATS.

FUNCTION DIAGNOSIS

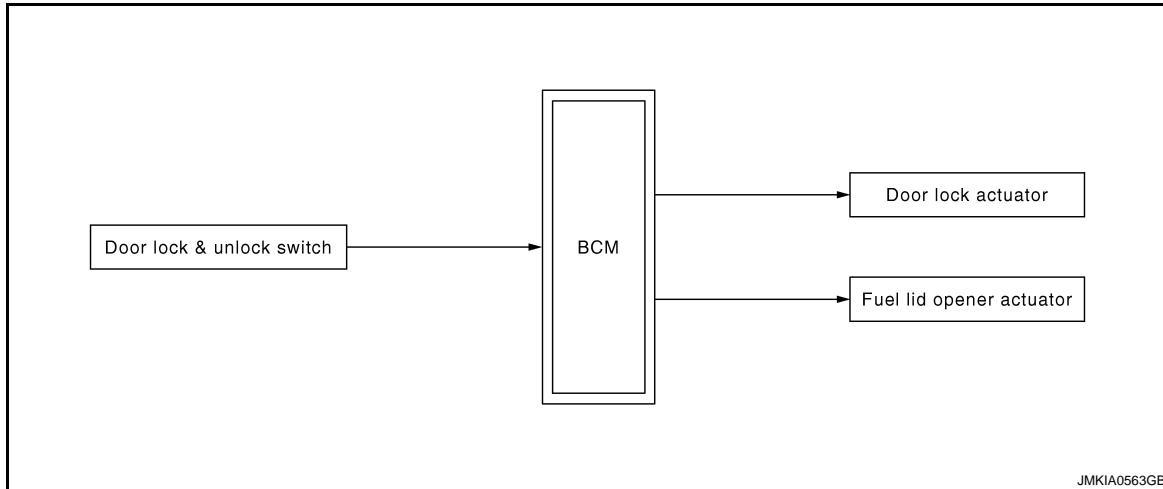
DOOR LOCK FUNCTION

DOOR LOCK AND UNLOCK SWITCH

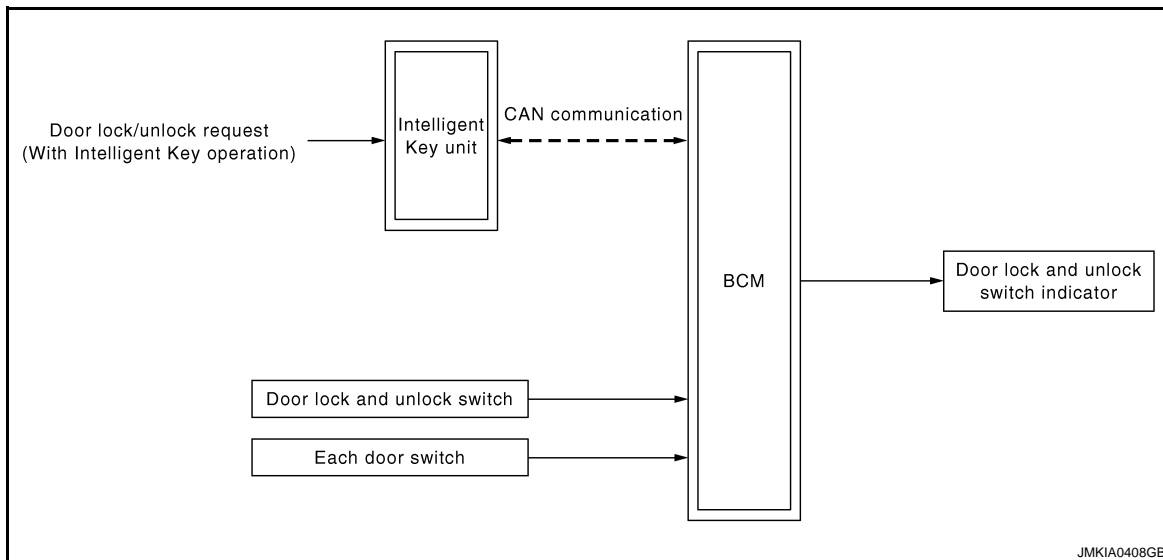
DOOR LOCK AND UNLOCK SWITCH : System Diagram

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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:000000001183838

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.

1 Minute Timer

A timer to turn OFF the indicator 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:

1 minuite timer condition is satisfied while 30 minutes timer is active, 30 minutes timer is not change to 1 minutes.

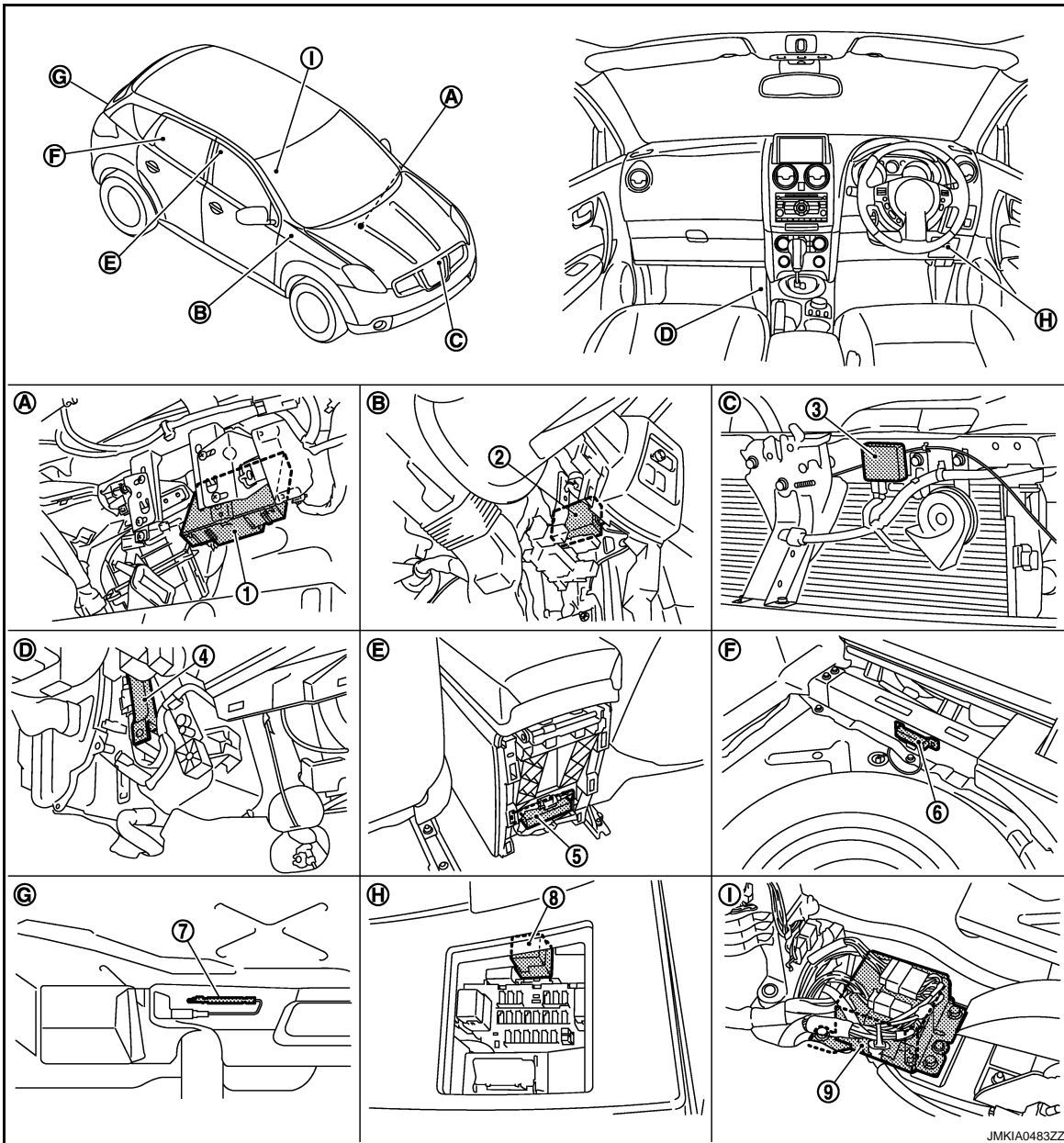
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH : Component Parts Location

INFOID:000000001183839



- | | | |
|--|---|--|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console removed |

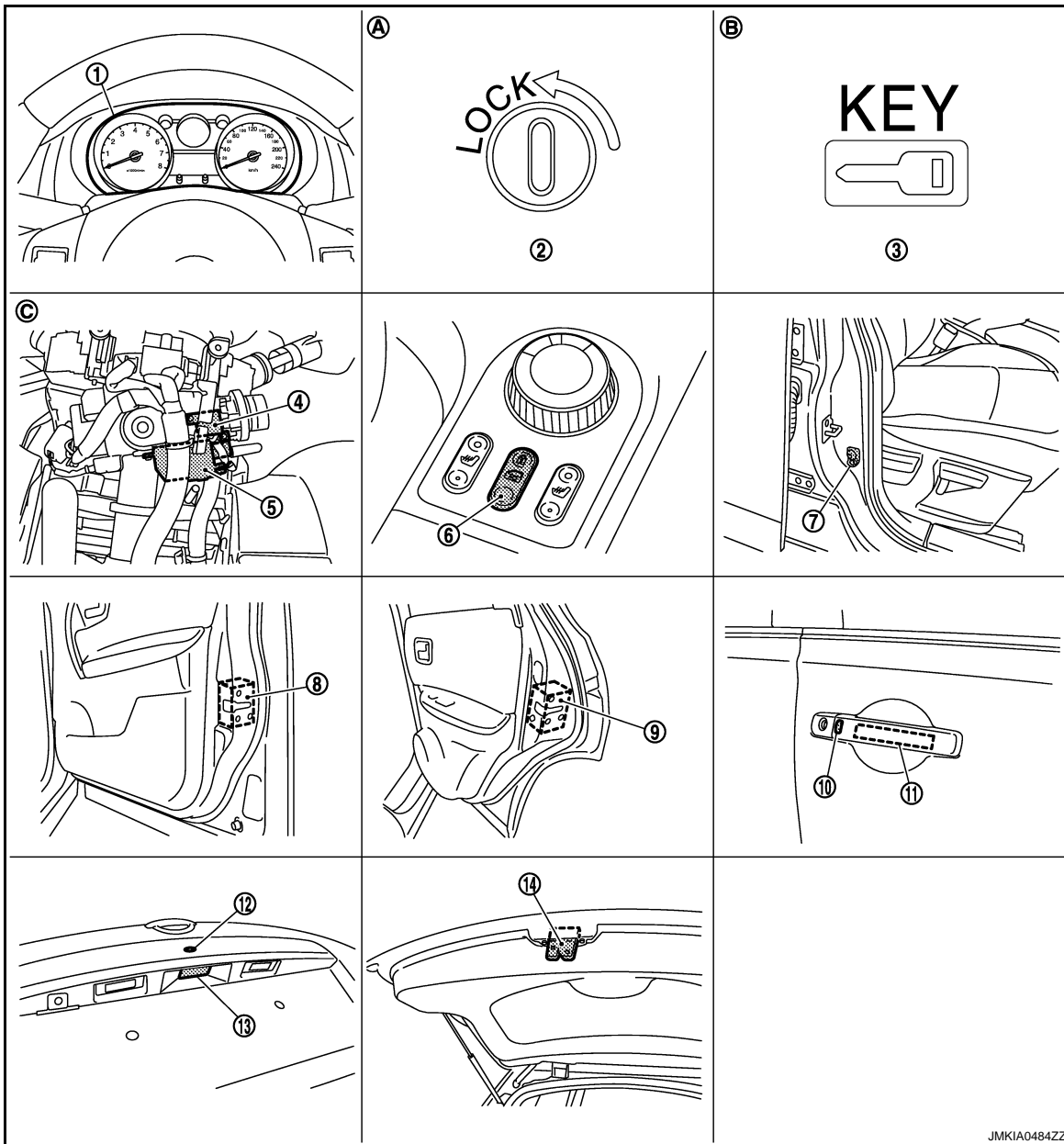
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DOOR LOCK FUNCTION

< 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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D29 | 9. Rear door lock actuator RH
D95 |
| 10. Front door request switch (driver side)
D30 | 11. Outside key antenna (driver side)
D31 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover re-
moved |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH : Component Description

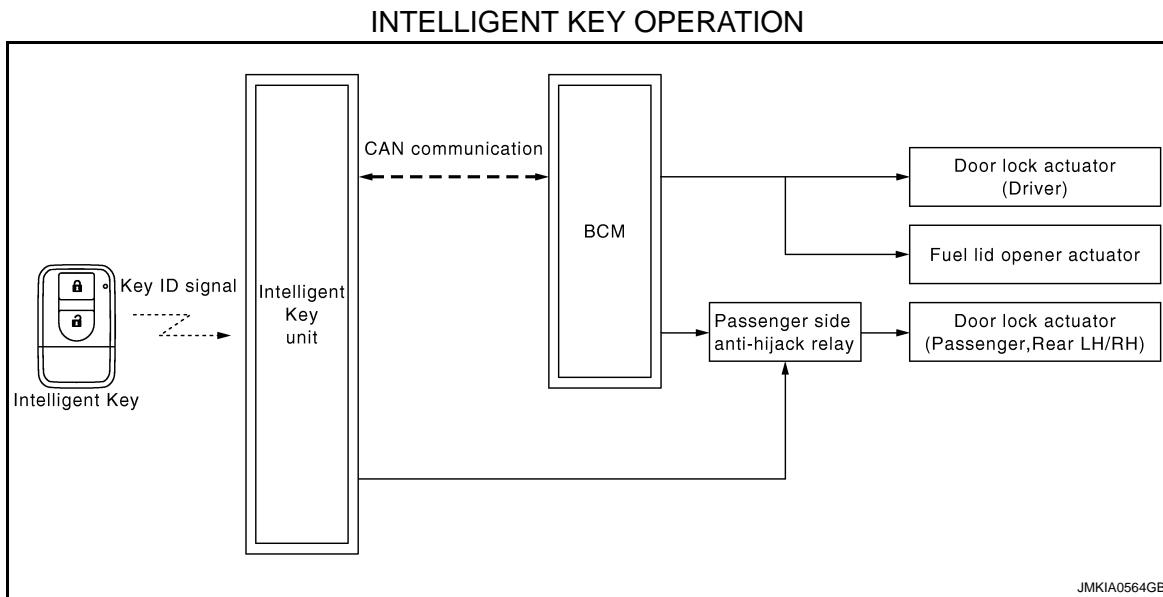
INFOID:000000001183840

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. Door lock actuator locks and unlocks each door.

INTELLIGENT KEY

INTELLIGENT KEY : System Diagram

INFOID:000000001183841



INTELLIGENT KEY : System Description

INFOID:000000001183842

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 ON or OFF* with CONSULT-III. For the setting information, refer to [DLK-327, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

*: The factory setting

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 is OFF or LOCK position. 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 is OFF or LOCK position

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

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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

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.

SUPER LOCK CONTROL WITH ANTI-HIJACK MODE

- Super lock provides a higher anti-theft performance than a conventional power door lock system. The super lock system is controlled by BCM.
- When door lock is unlocked, pressing LOCK button on Intelligent Key once will lock and super lock set all doors. When all doors are set super lock, pressing UNLOCK button on Intelligent Key driver side door will unlock (and super lock release) driver side door and super lock release all other doors. Pressing UNLOCK button on Intelligent Key for 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-327, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

*: The factory setting

SUPER LOCK CONTROL WITHOUT ANTI-HIJACK MODE

When door lock is unlocked, pressing LOCK button on Intelligent Key once will lock and super lock set all doors. When all doors are set to super lock, pressing UNLOCK button on Intelligent Key will unlock all doors and super lock release 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-327, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

*: The factory setting

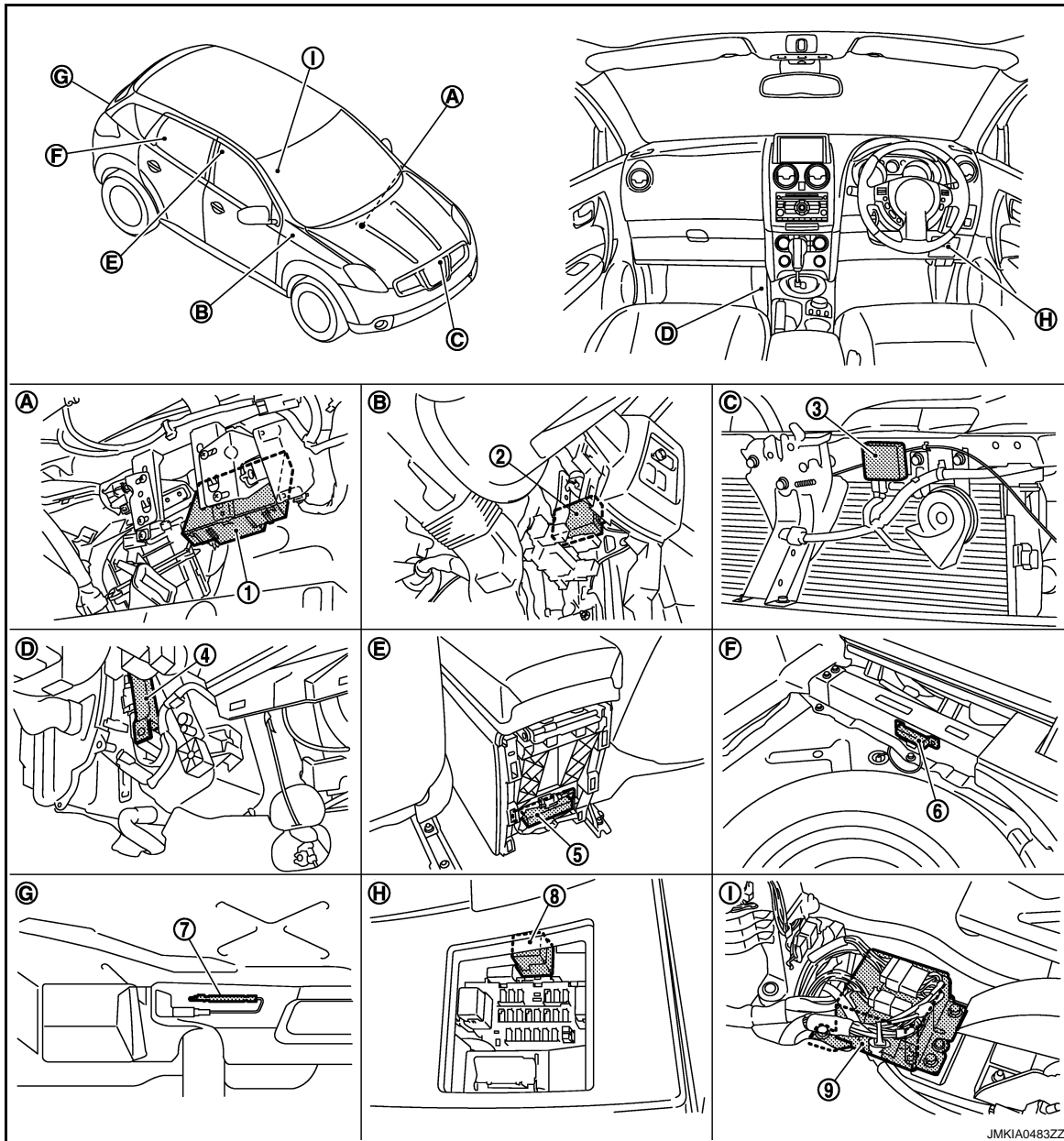
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY : Component Parts Location

INFOID:000000001544699

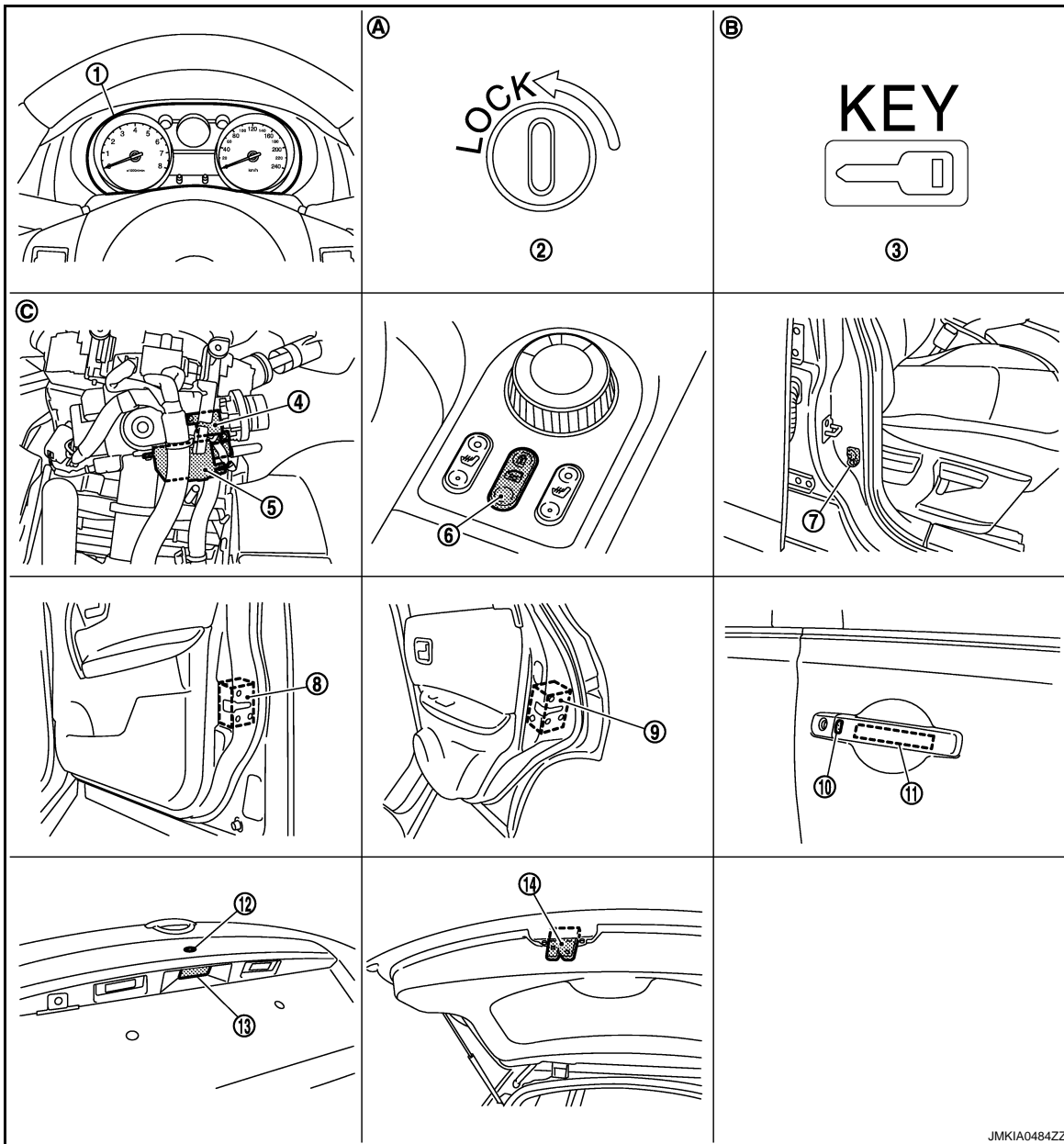


- | | | |
|--|---|--|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console removed |

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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D29 | 9. Rear door lock actuator RH
D95 |
| 10. Front door request switch (driver side)
D30 | 11. Outside key antenna (driver side)
D31 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover re-
moved |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY : Component Description

INFOID:000000001183844

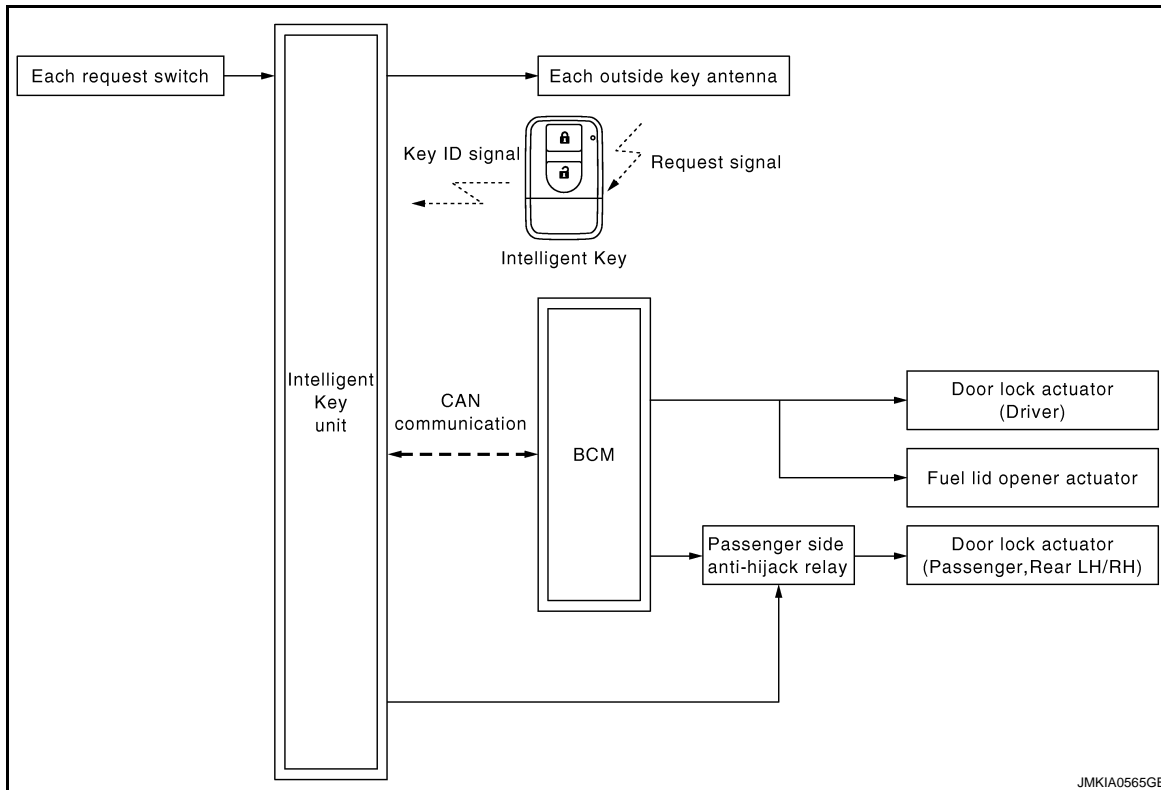
Item	Function
Intelligent Key unit	Controls the door lock/unlock operation with BCM.
BCM	Controls the door lock/unlock operation with Intelligent Key unit.
Door switch	Detects door state (open or close).
Key switch	Detects mechanical key is inserted into ignition key cylinder.
Outside key antenna	Detects 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 REQUEST SWITCH : System Diagram

INFOID:000000001183845

DOOR REQUEST SWITCH OPERATION



DOOR REQUEST SWITCH : System Description

INFOID:000000001183846

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 ON or OFF* with CONSULT-III. For the setting information, refer to [DLK-327, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

*: The factory setting

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

CAUTION:

The driver should always carry the Intelligent Key

OPERATION CONDITION

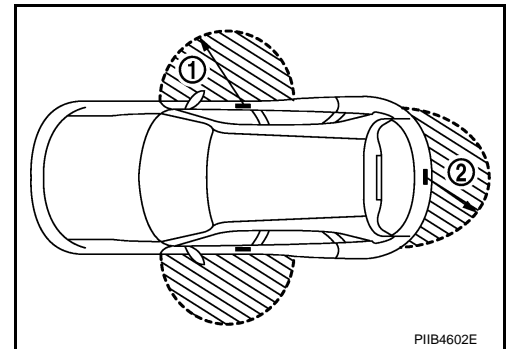
If the following conditions are not satisfied, door lock and unlock operation is not performed even if the request switch is operated.

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• 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/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 (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 CONTROL WITH ANTI-HIJACK MODE

- 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 door is unlocked, pressing door request switch (driver side or passenger side) once will lock all doors and set super lock simultaneously. When super lock is set, all doors cannot be opened from inside.
When super lock is set, pressing the door request switch once will unlock operated door and super lock is released except operated door. Pressing the door request switch 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 and set super lock simultaneously. When super lock is set, all doors cannot be opened from inside.
When super lock is set, pressing door request switch (back door) will unlock all doors and release super lock simultaneously 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-327, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

*: The factory setting

SUPER LOCK CONTROL WITHOUT ANTI-HIJACK MODE

When door is unlocked, pressing door request switch (driver, passenger or back door) will lock all doors and set super lock simultaneously. When super lock is set, all doors can not be opened from inside.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

When super lock is set, pressing door request switch (driver side, passenger side or back door) will unlock. Back door only and back door can be opened with back door opener switch. Pressing back door switch a second time with in 5 seconds will unlock all doors.

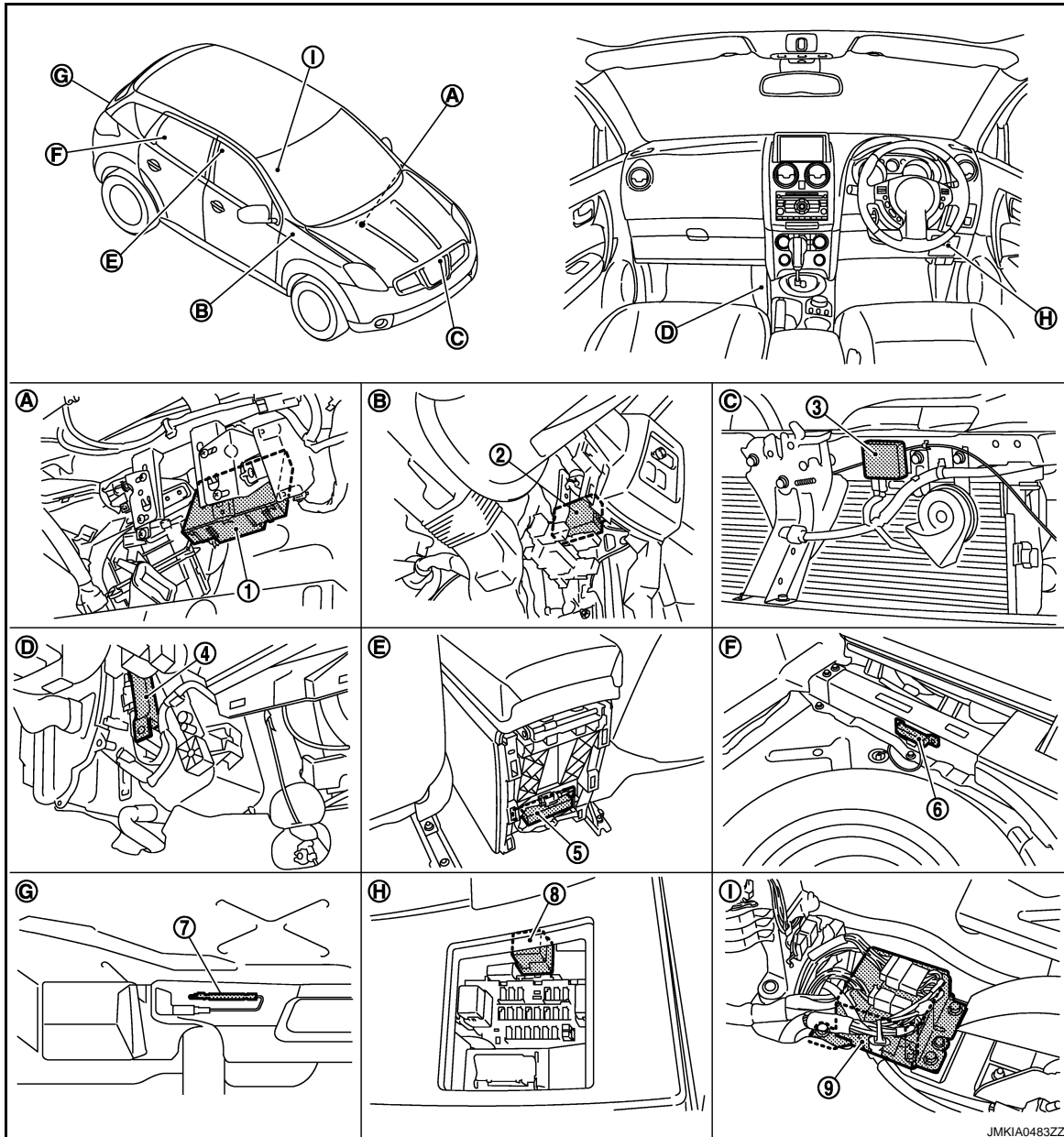
NOTE:

Anti-hijack mode can be set to ON or OFF* with CONSULT-III. For the setting information, refer to [DLK-327, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

*: The factory setting

DOOR REQUEST SWITCH : Component Parts Location

INFOID:000000001542940



- | | | |
|--|--|--|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 |

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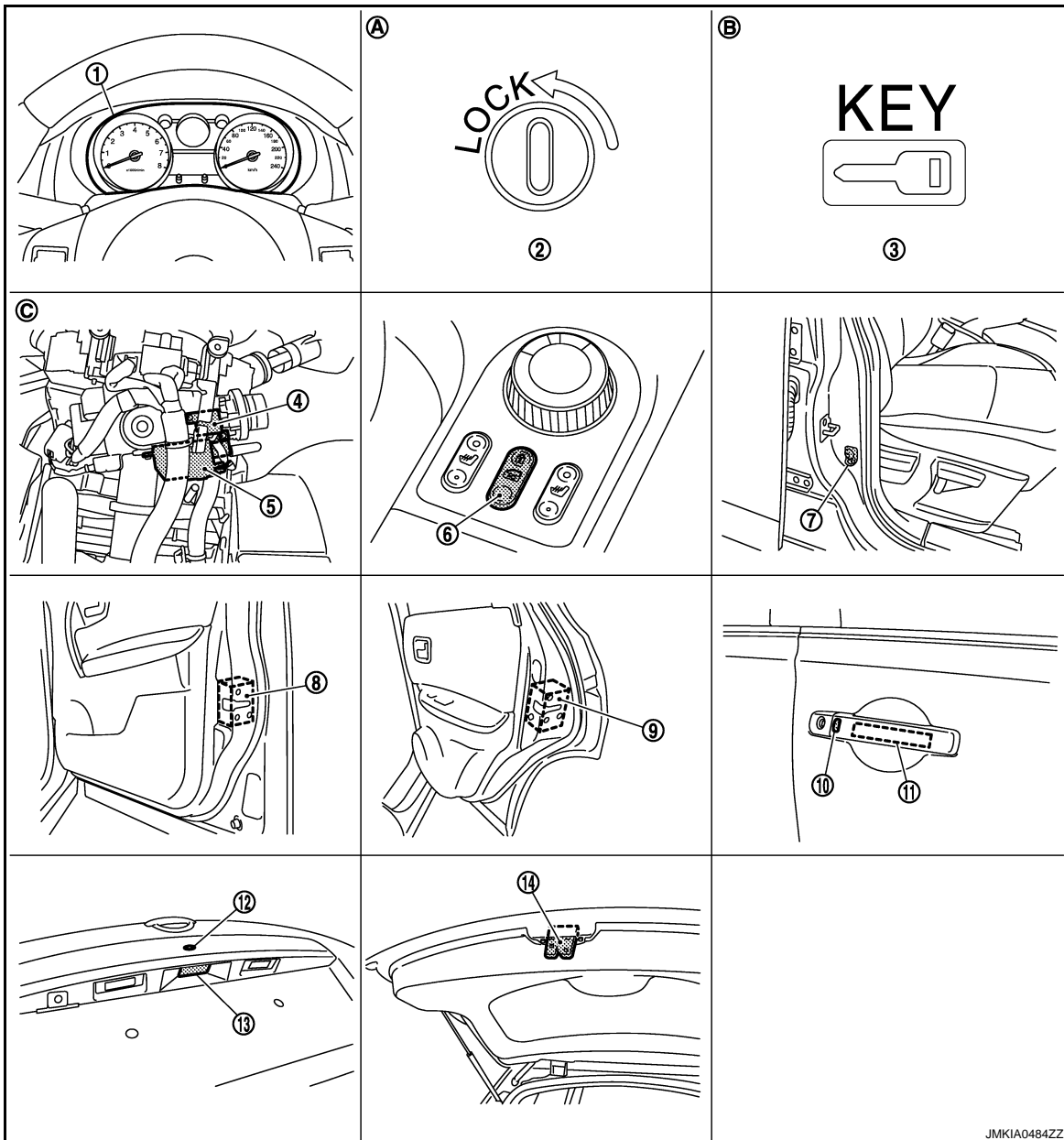
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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

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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 | I. 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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D29 | 9. Rear door lock actuator RH
D95 |
| 10. Front door request switch (driver side)
D30 | 11. Outside key antenna (driver side)
D31 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover re-
moved |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR REQUEST SWITCH : Component Description

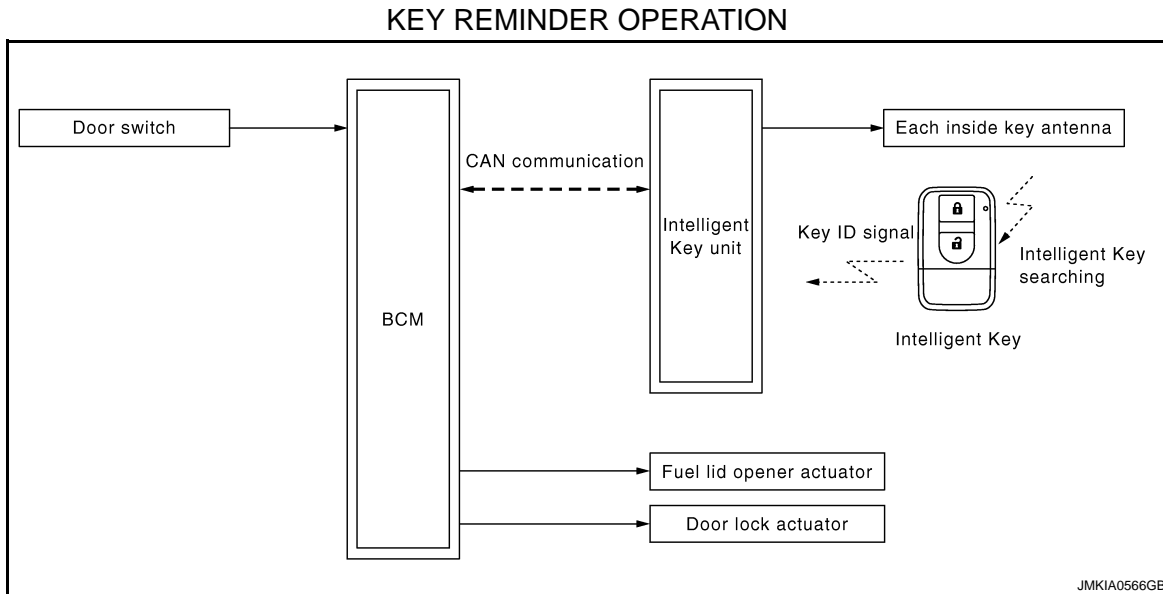
INFOID:000000001183848

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:000000001183849



KEY REMINDER : System Description

INFOID:000000001183850

KEY REMINDER OPERATION

Key reminder have the following 2 functions.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

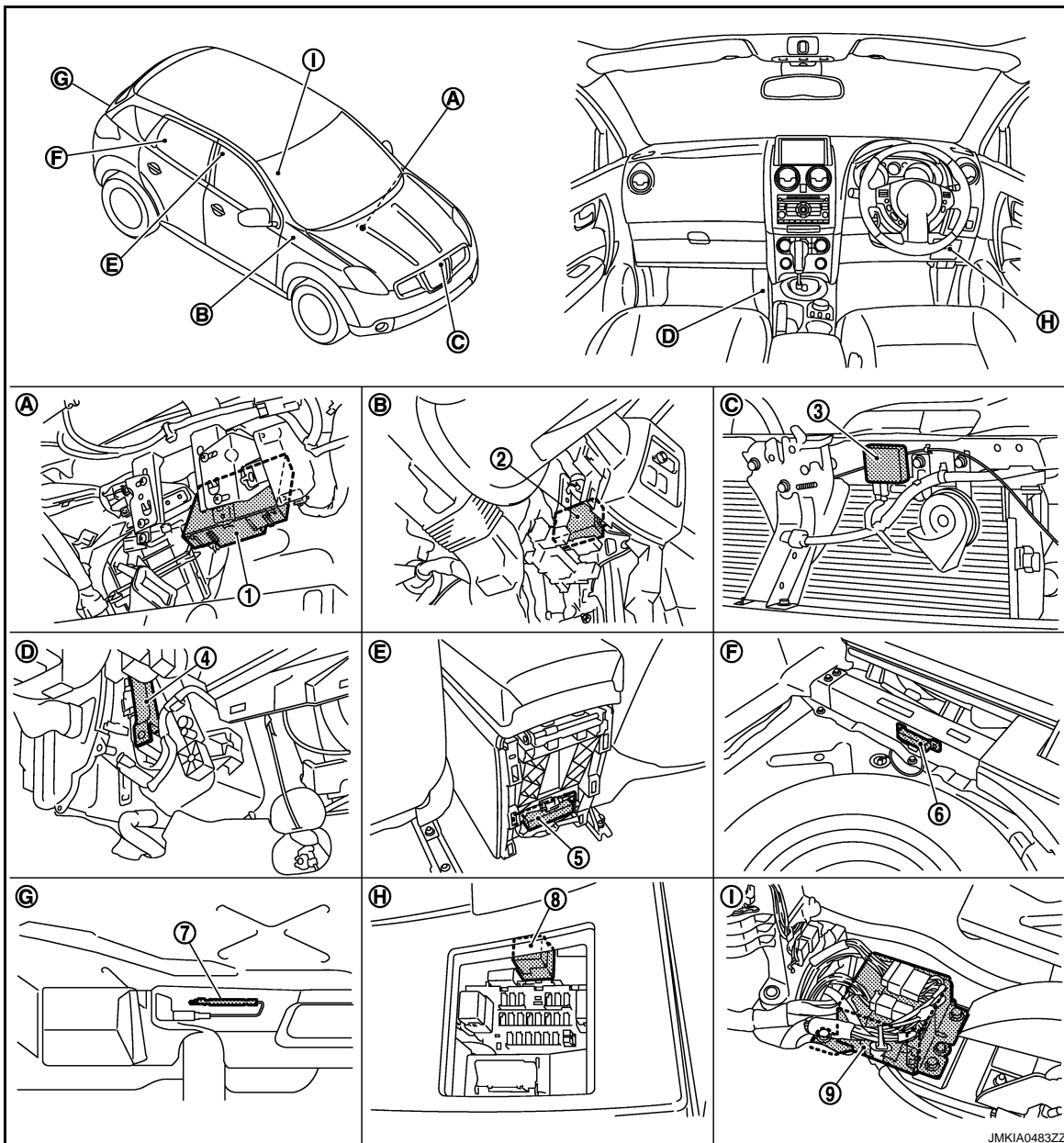
Operation	Operation condition	Operation
Driver door close	Right after driver side door is closed under the following conditions <ul style="list-style-type: none"> • Door lock operation • Driver side door is opened • Driver side door is in unlock state. 	All doors unlock
Any door open to all door close	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:000000001544701



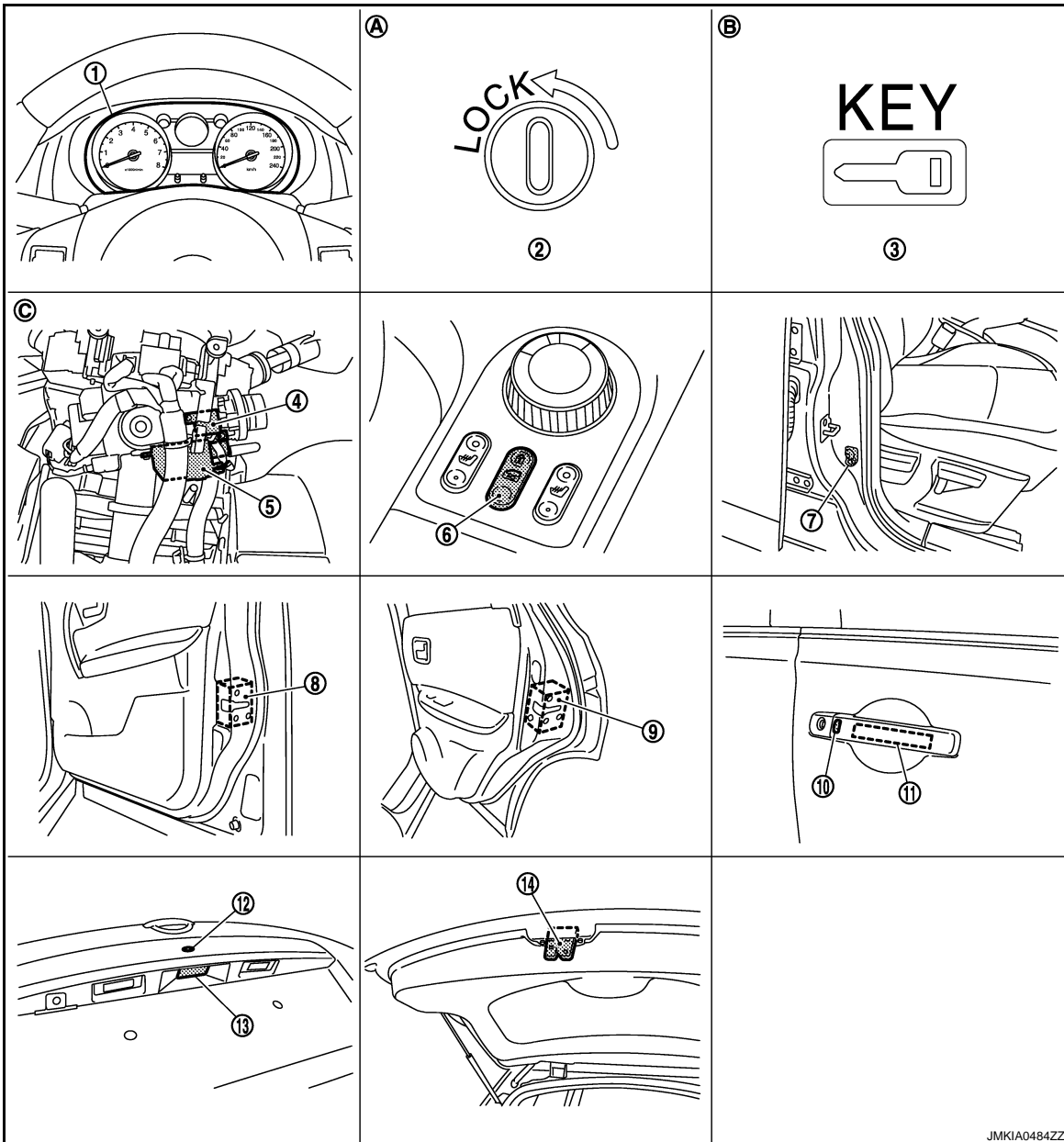
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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

- | | | | |
|--|---|--|---|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 | A |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 | B |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. Air bag diagnosis sensor unit
M59 | C |
| A. Over the glove box | B. Over the instrument lower panel (driver side) | C. View with front bumper removed | D |
| D. View with lower instrument cover removed | E. View with center console rear finisher removed | F. View with luggage floor spacer (LH) removed | E |
| G. View with rear bumper fascia removed | H. View with fuse box lid removed | I. View with center console removed | F |



- | | | |
|---|--|---------------------------------------|
| 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. Door lock and unlock switch
M89 |

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DOOR LOCK FUNCTION

[WITH I-KEY & SUPER LOCK]

< FUNCTION DIAGNOSIS >

- | | | |
|--|--|--|
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D29 | 9. Rear door lock actuator RH
D95 |
| 10. Front door request switch (driver side)
D30 | 11. Outside key antenna (driver side)
D31 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover removed |

KEY REMINDER : Component Description

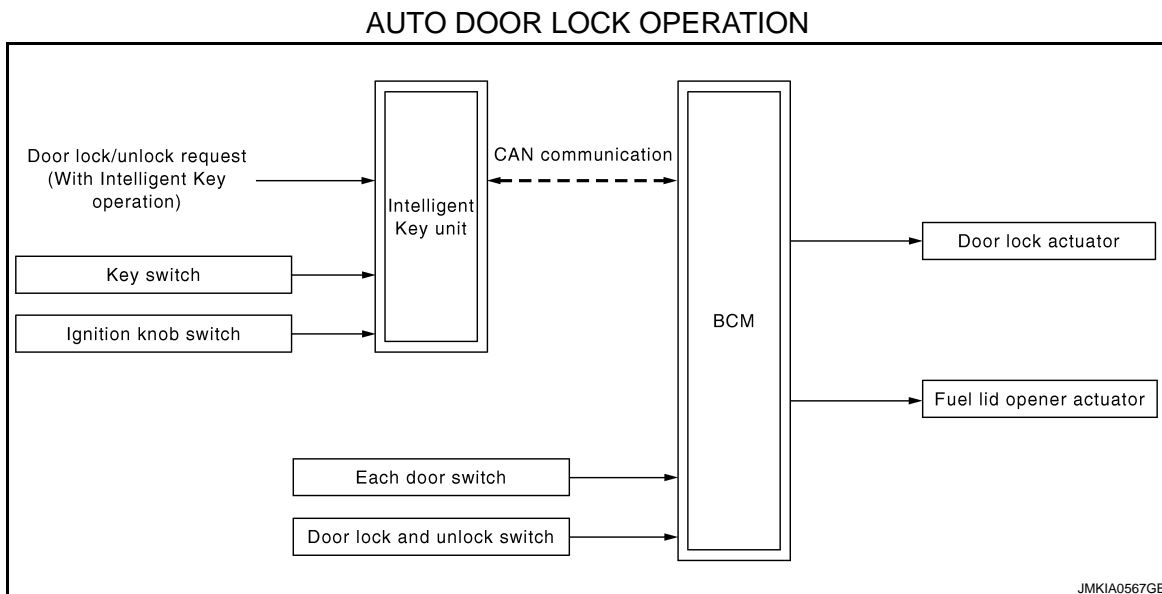
INFOID:000000001183852

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:000000001183853



AUTO DOOR LOCK : System Description

INFOID:000000001183854

AUTO RELOCK OPERATION

When all door is locked then doors are unlocked with Intelligent Key, door request switch or Intelligent Key unit does not receive the following signal within 2 minutes^{*1}, 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-327, "CONSULT-III Function \(INTELLIGENT KEY\)"](#).

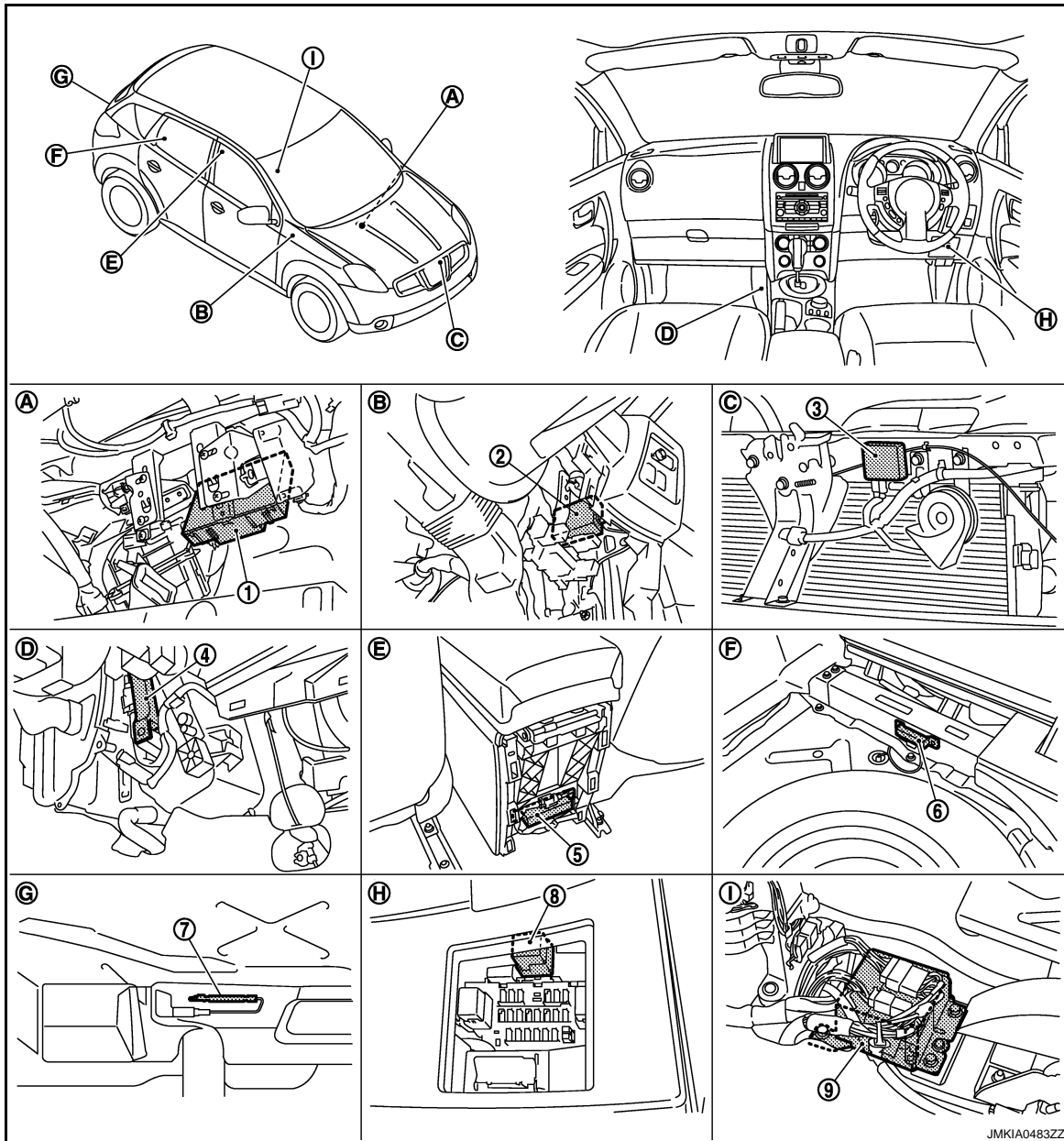
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

AUTO DOOR LOCK : Component Parts Location

INFOID:000000001542942

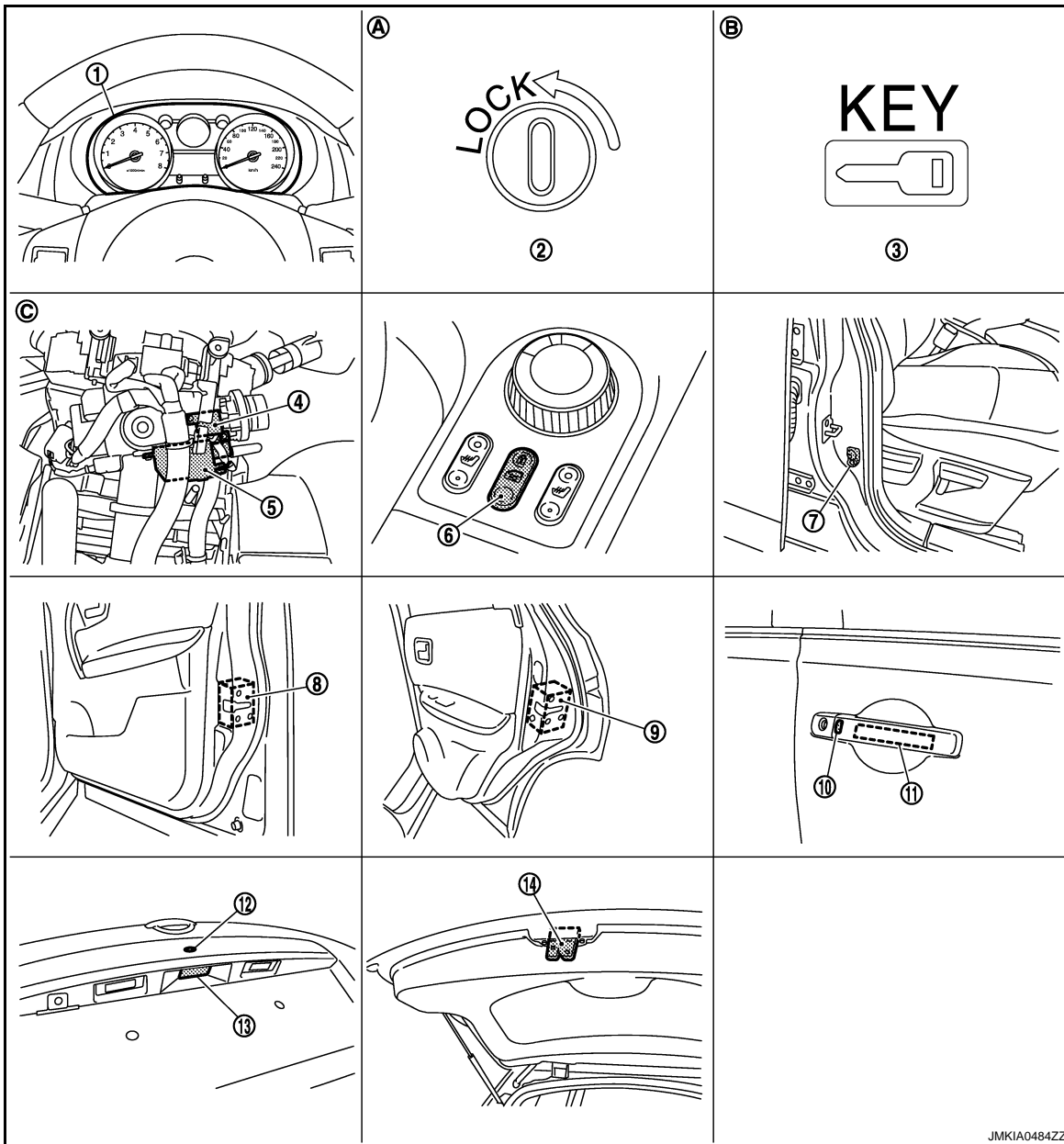


- | | | |
|--|---|--|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console removed |

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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D29 | 9. Rear door lock actuator RH
D95 |
| 10. Front door request switch (driver side)
D30 | 11. Outside key antenna (driver side)
D31 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover re-
moved |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

AUTO DOOR LOCK : Component Description

INFOID:000000001183856

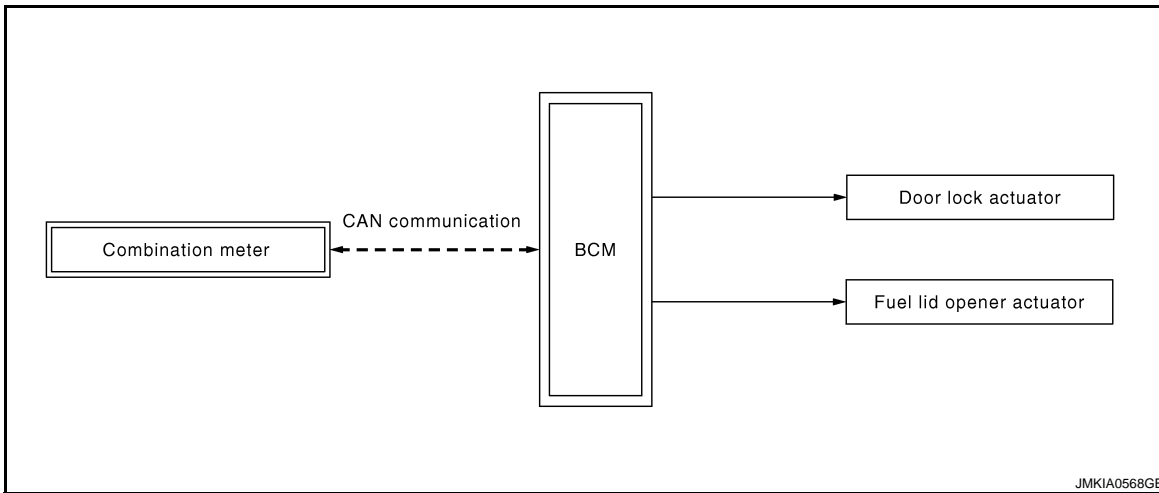
Item	Function
Intelligent Key unit	Controls the door lock function with BCM.
BCM	Controls the door lock function with Intelligent Key unit.
Door switch	Detects door state (open or close).
Key switch	Detects mechanical key is inserted into ignition key cylinder.
Ignition knob switch	Detects ignition knob 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:000000001183857

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION



VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description

INFOID:000000001183858

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION

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

CHANGE SETTING PROCEDURE

Vehicle speed sensing auto door lock function can be enabled/disabled with door lock and unlock switch.

1. Turn ignition switch ON.
2. Press and hold door lock/unlock switch (LOCK) for 5 seconds within 2 seconds after turn ignition switch ON.
3. Buzzer sounds for 1 second.

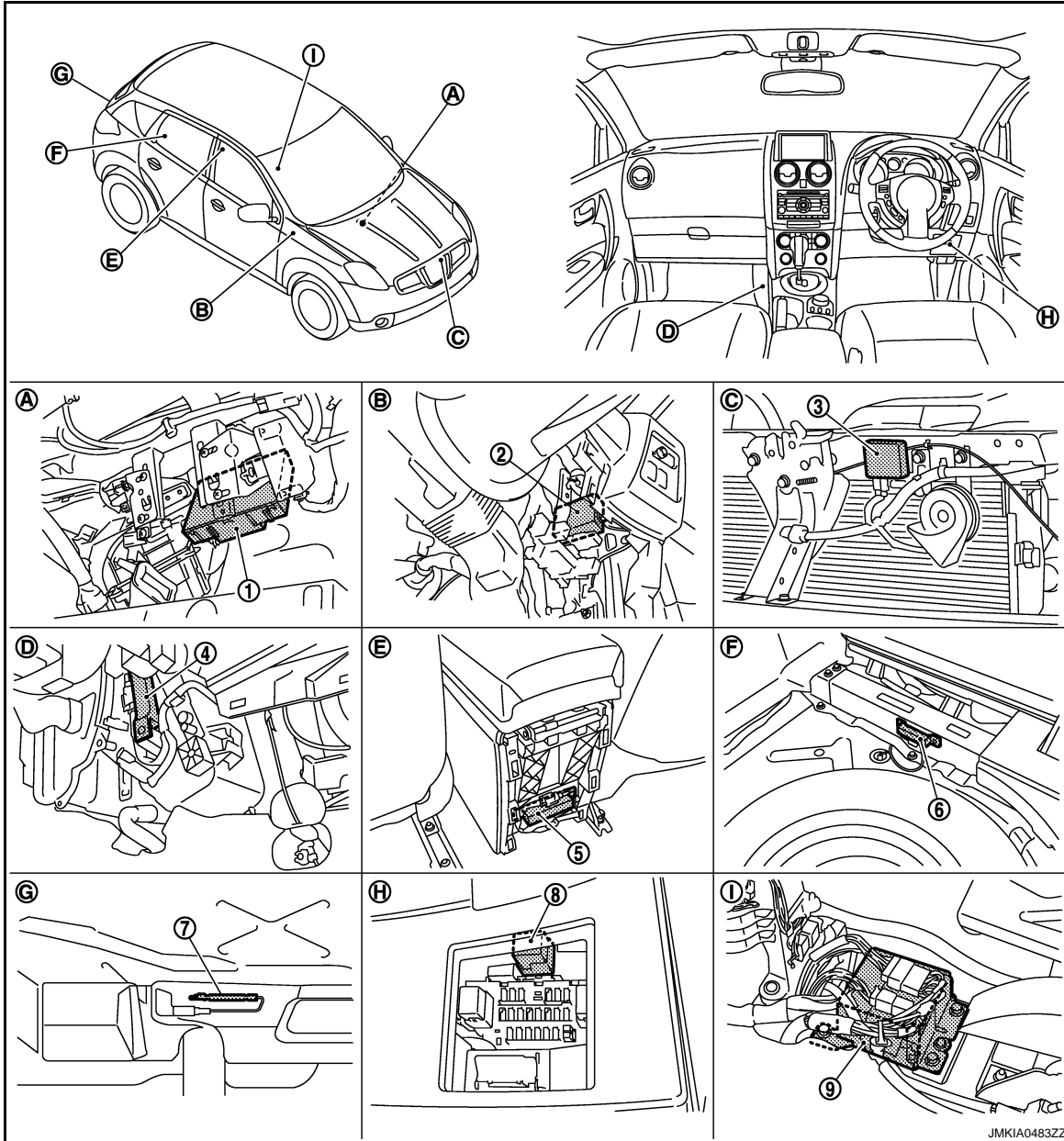
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Parts Location

INFOID:000000001544702

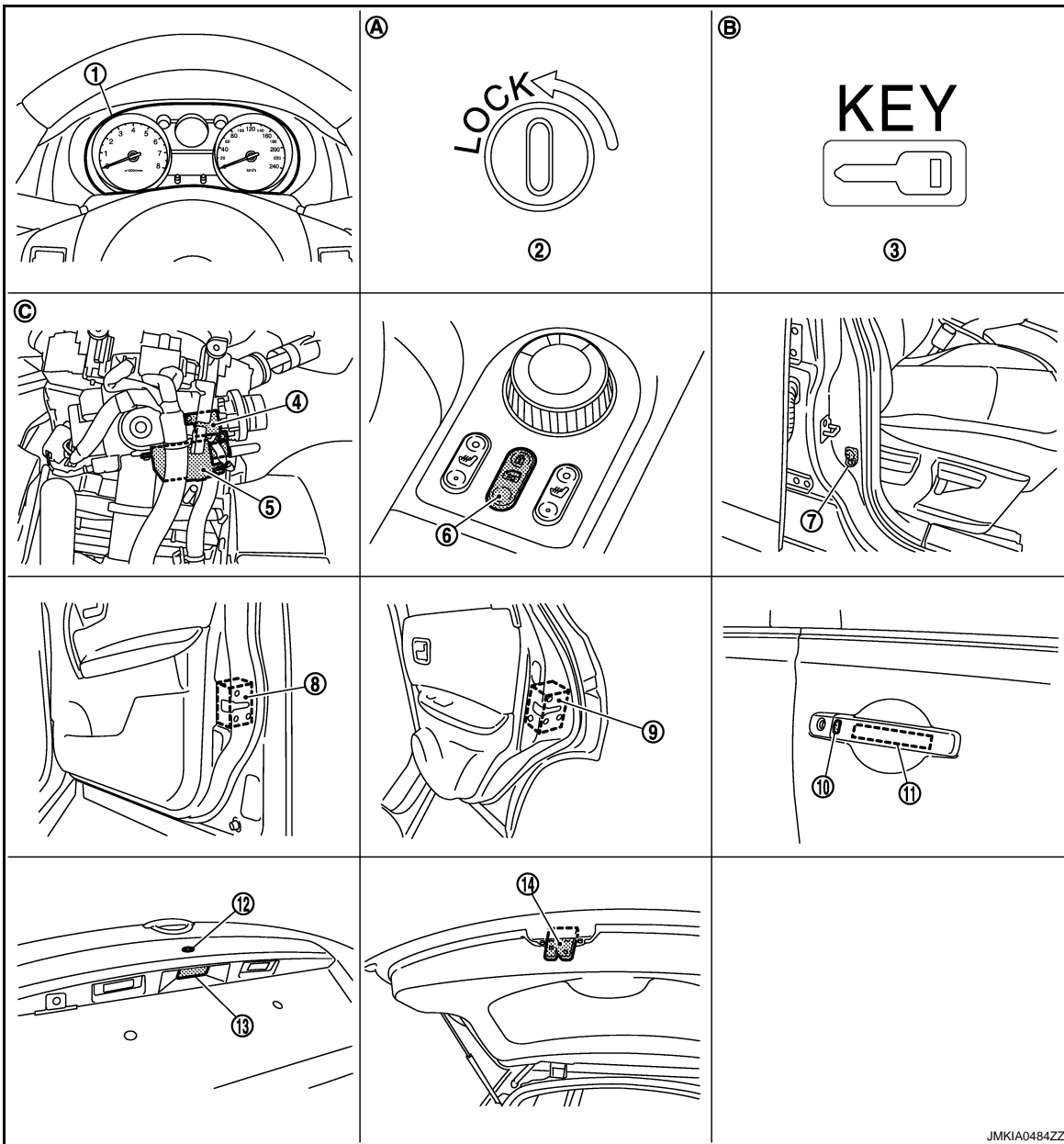


- | | | |
|--|---|--|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. 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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D29 | 9. Rear door lock actuator RH
D95 |
| 10. Front door request switch (driver side)
D30 | 11. Outside key antenna (driver side)
D31 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover 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:000000001183860

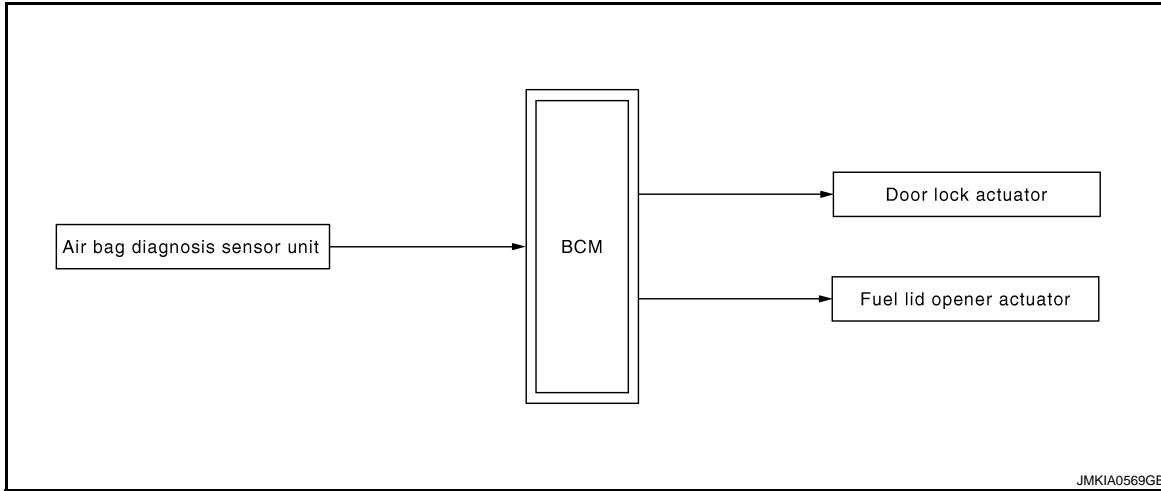
Item	Function
BCM	Controls the door lock function.
Combination meter	Transmits vehicle speed signal to BCM via CAN communication.
Door lock actuator	Receives door lock and unlock signal from BCM and lock and unlock each door.

AIR BAG INTERLOCK UNLOCK

AIR BAG INTERLOCK UNLOCK : System Diagram

INFOID:000000001183861

AIR BAG INTERLOCK UNLOCK OPERATION



AIR BAG INTERLOCK UNLOCK : System Description

INFOID:000000001183862

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.

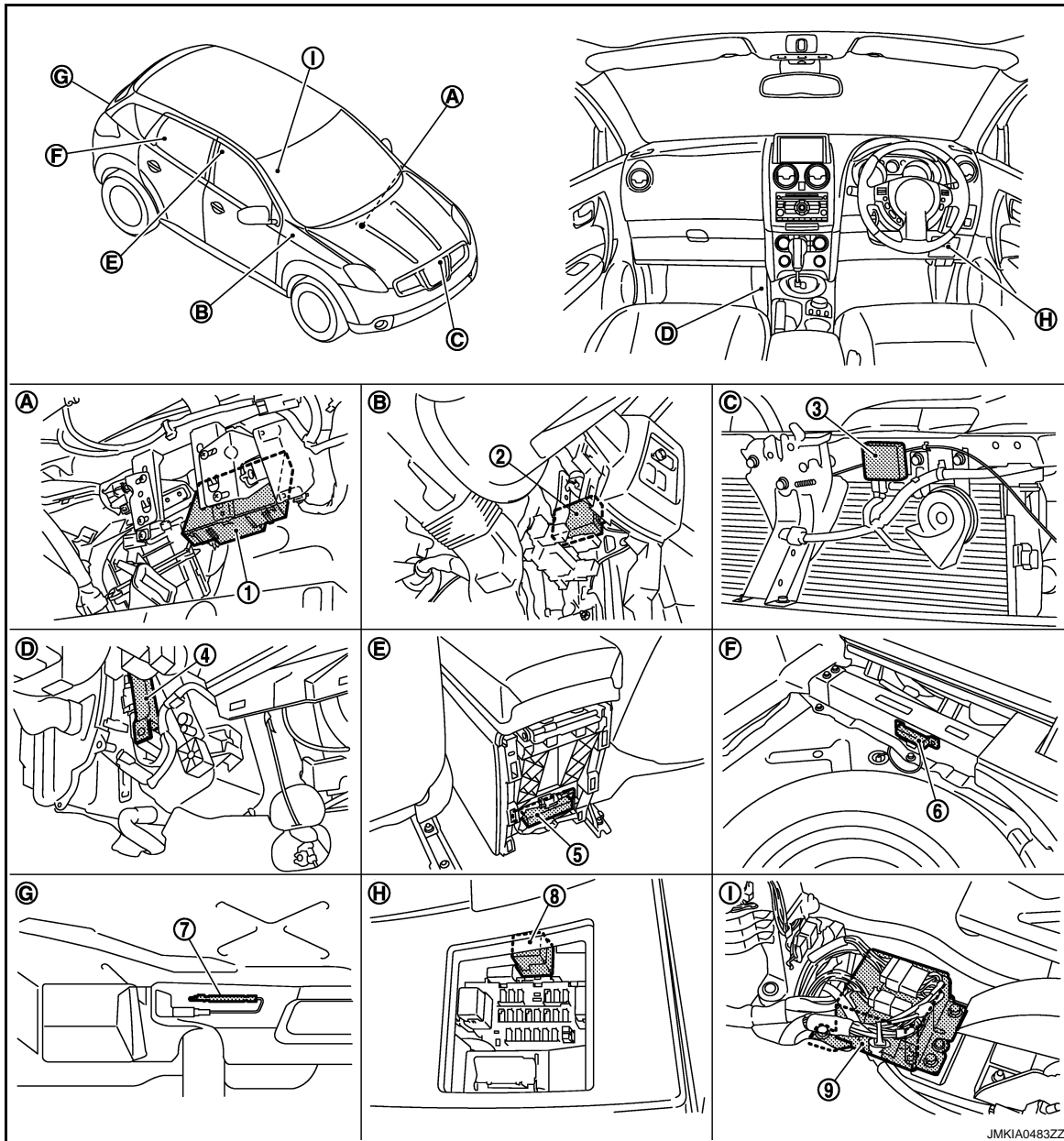
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

AIR BAG INTERLOCK UNLOCK : Component Parts Location

INFOID:000000001544703

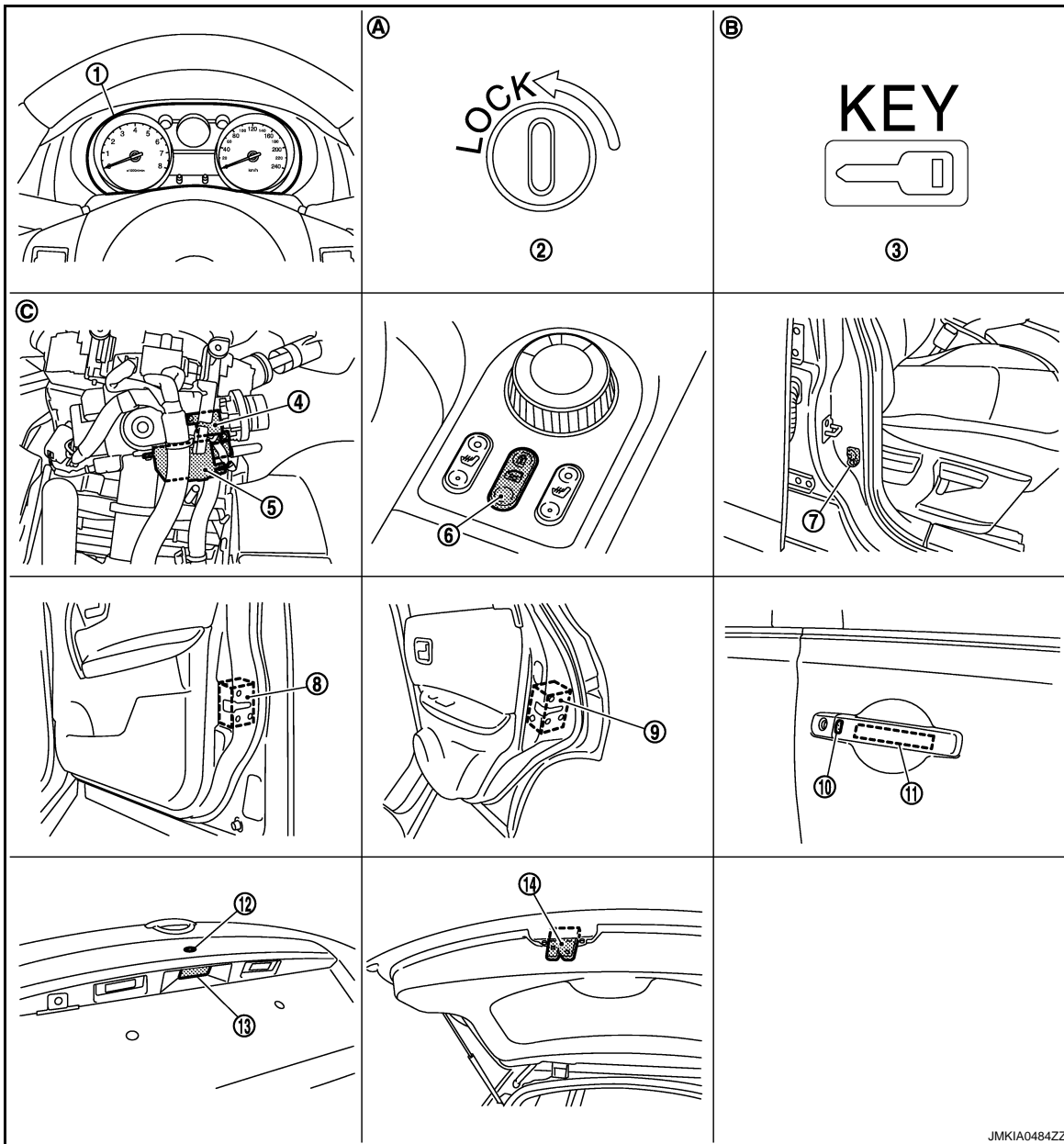


- | | | |
|--|---|--|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console removed |

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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D29 | 9. Rear door lock actuator RH
D95 |
| 10. Front door request switch (driver side)
D30 | 11. Outside key antenna (driver side)
D31 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover re-
moved |

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

AIR BAG INTERLOCK UNLOCK : Component Description

INFOID:000000001183864

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]

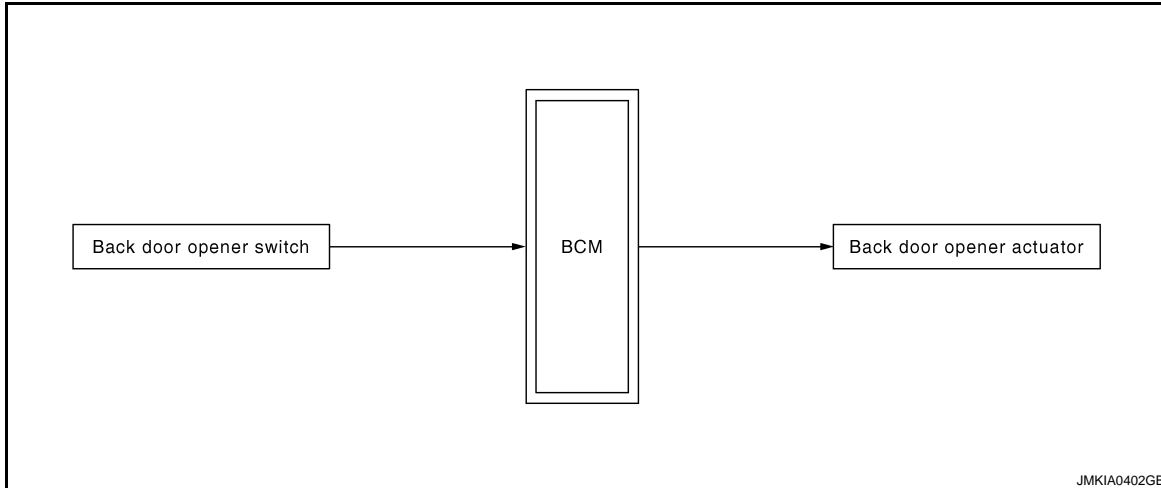
BACK DOOR OPENER FUNCTION

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : System Diagram

INFOID:000000001183865

BACK DOOR OPENER OPERATION



BACK DOOR OPENER SWITCH : System Description

INFOID:000000001183866

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.

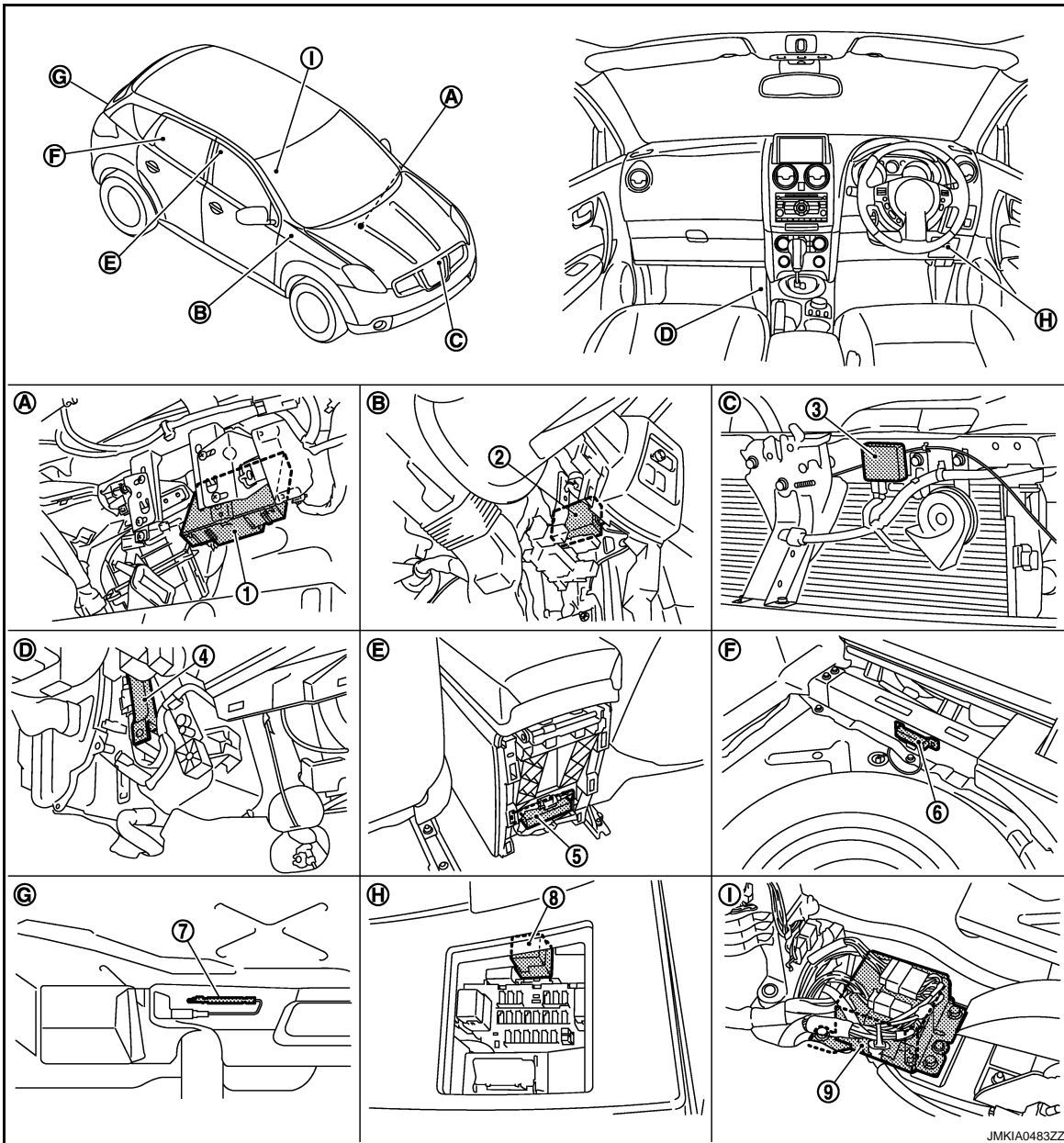
BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH : Component Parts Location

INFOID:000000001544628



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|--|---|--|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console removed |

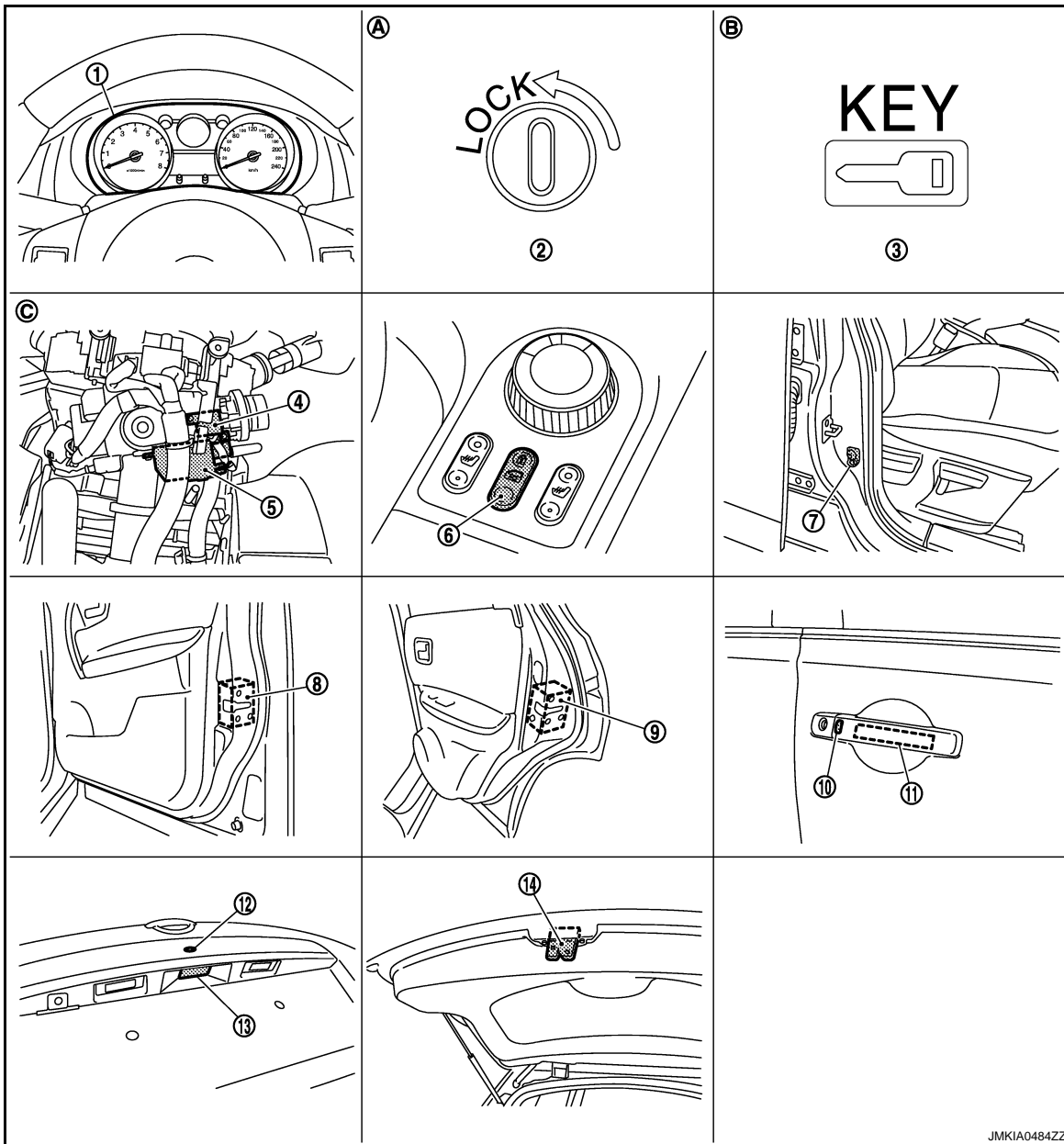
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BACK DOOR OPENER FUNCTION

< 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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D29 | 9. Rear door lock actuator RH
D95 |
| 10. Front door request switch (driver side)
D30 | 11. Outside key antenna (driver side)
D31 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover re-
moved |

BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH : Component Description

INFOID:000000001183868

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 >

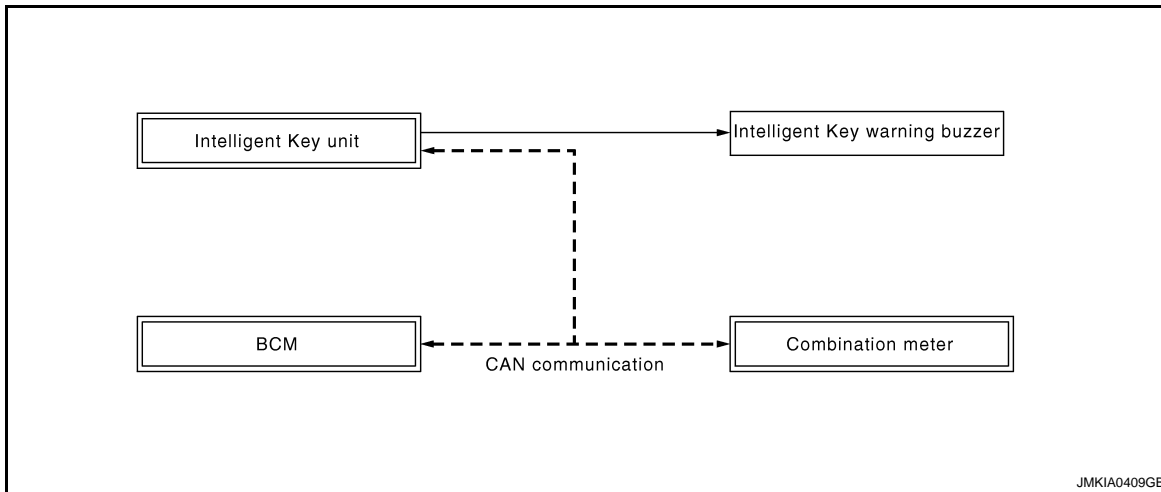
[WITH I-KEY & SUPER LOCK]

WARNING FUNCTION

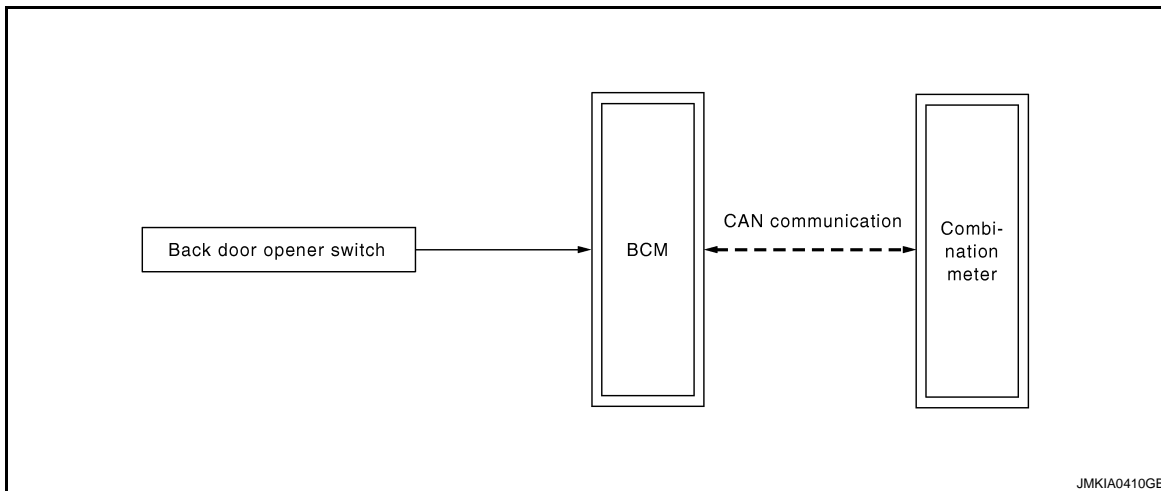
System Diagram

INFOID:000000001183869

INTELLIGENT KEY WARNING OPERATION



BACK DOOR OPEN WARNING OPERATION



System Description

INFOID:000000001183870

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. • 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. • 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. • Ignition switch is between ACC and OFF position or ignition knob is pressed in while ignition switch is in LOCK position. • 1 second 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. • 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. • 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. • 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 (pipipipi...)	—

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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 pressed (lock operation) under the following conditions. <ul style="list-style-type: none"> • Door switch: ON (Any door is open). • Ignition switch is in ACC 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 pressed (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)	—	—

*: The factory setting for this function is OFF.

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 pressed 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 pressed. (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.

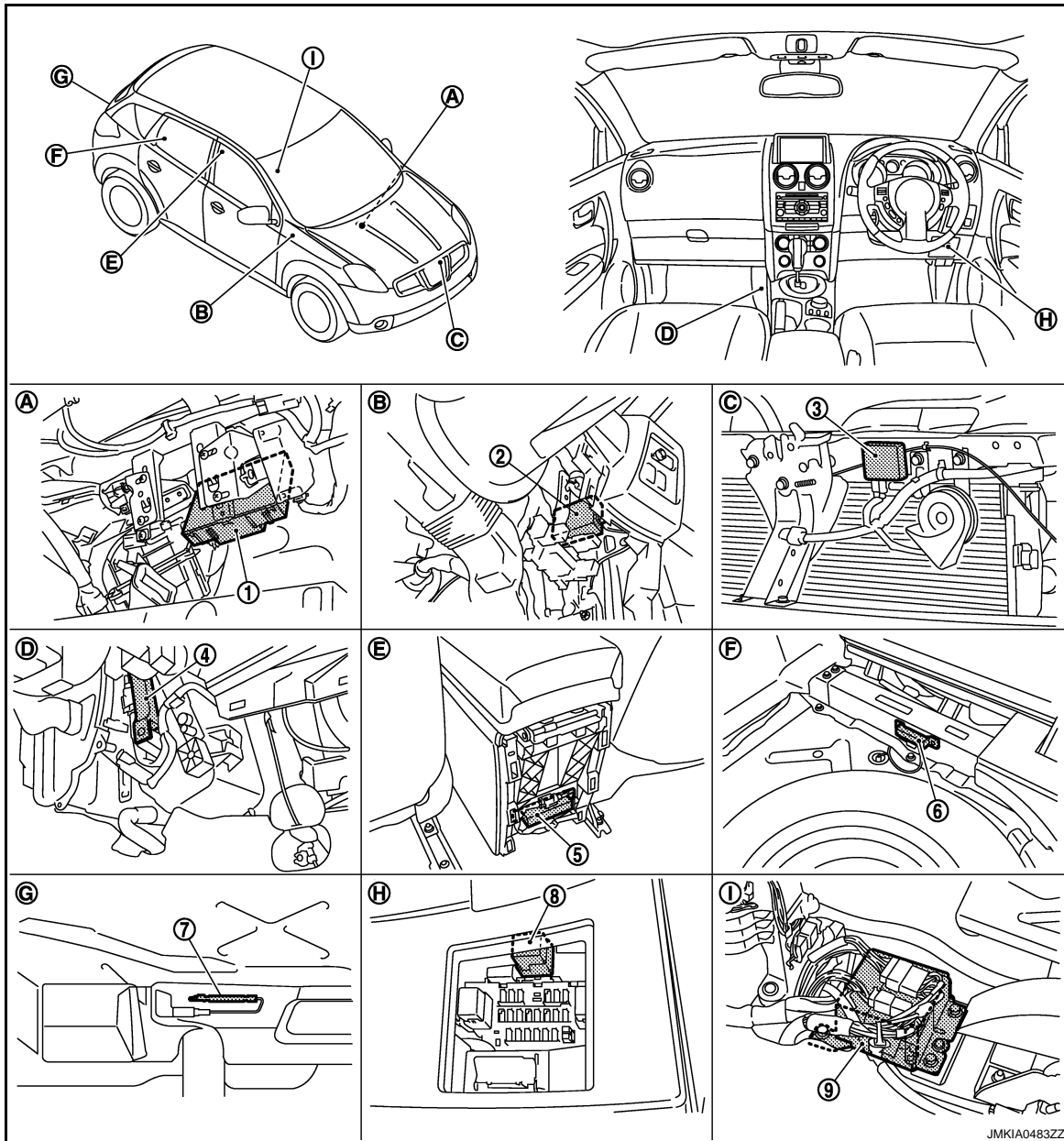
WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Component Parts Location

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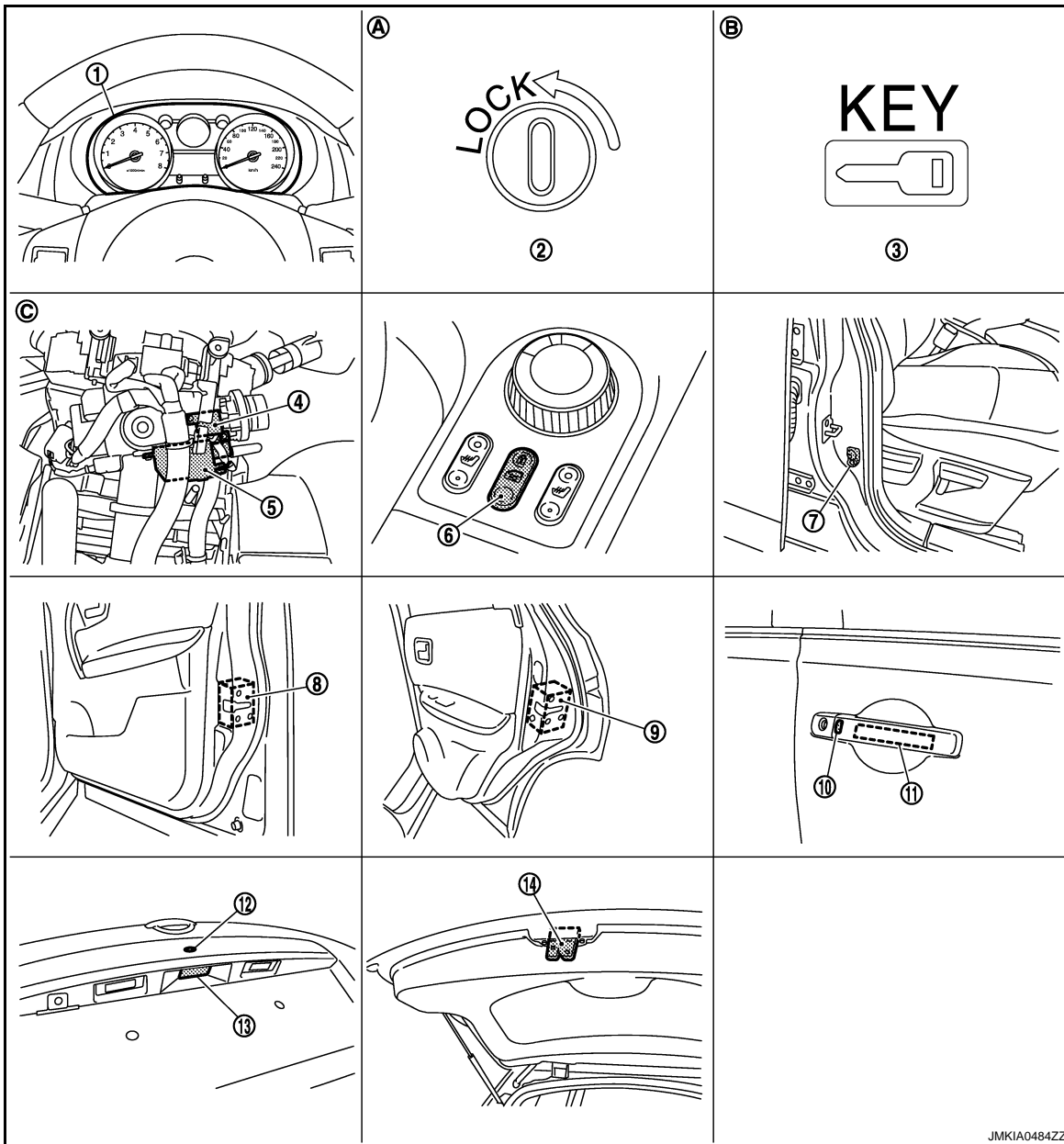


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|--|---|--|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console removed |

WARNING 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. Door lock and unlock switch
M89 |
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D29 | 9. Rear door lock actuator RH
D95 |
| 10. Front door request switch (driver side)
D30 | 11. Outside key antenna (driver side)
D31 | 12. Back door request switch
D187 |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover re-
moved |

WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Component Description

INFOID:000000001183872

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

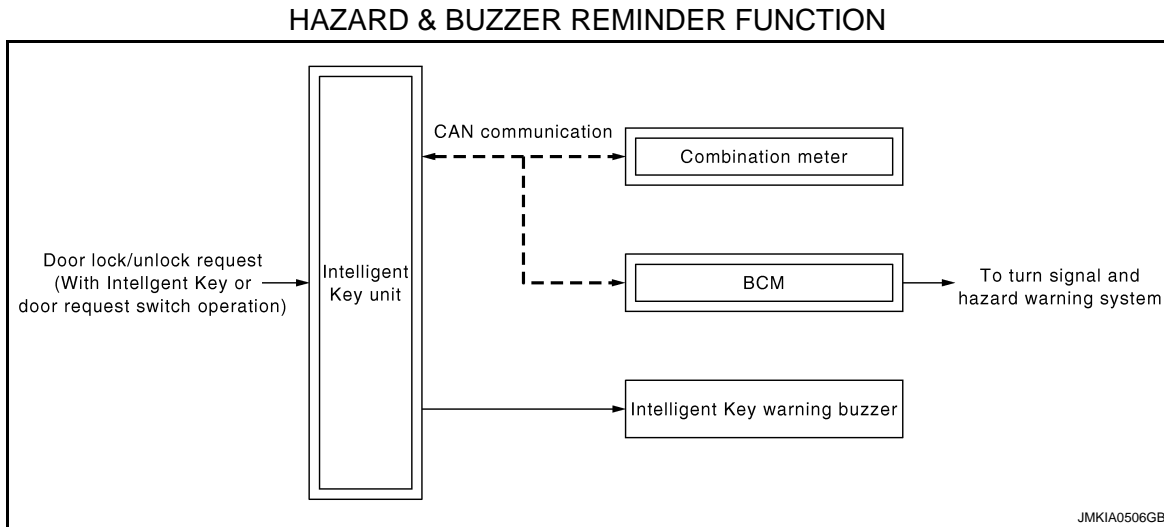
< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

HAZARD AND BUZZER REMINDER FUNCTION

System Diagram

INFOID:000000001183873



System Description

INFOID:000000001183874

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-327. "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

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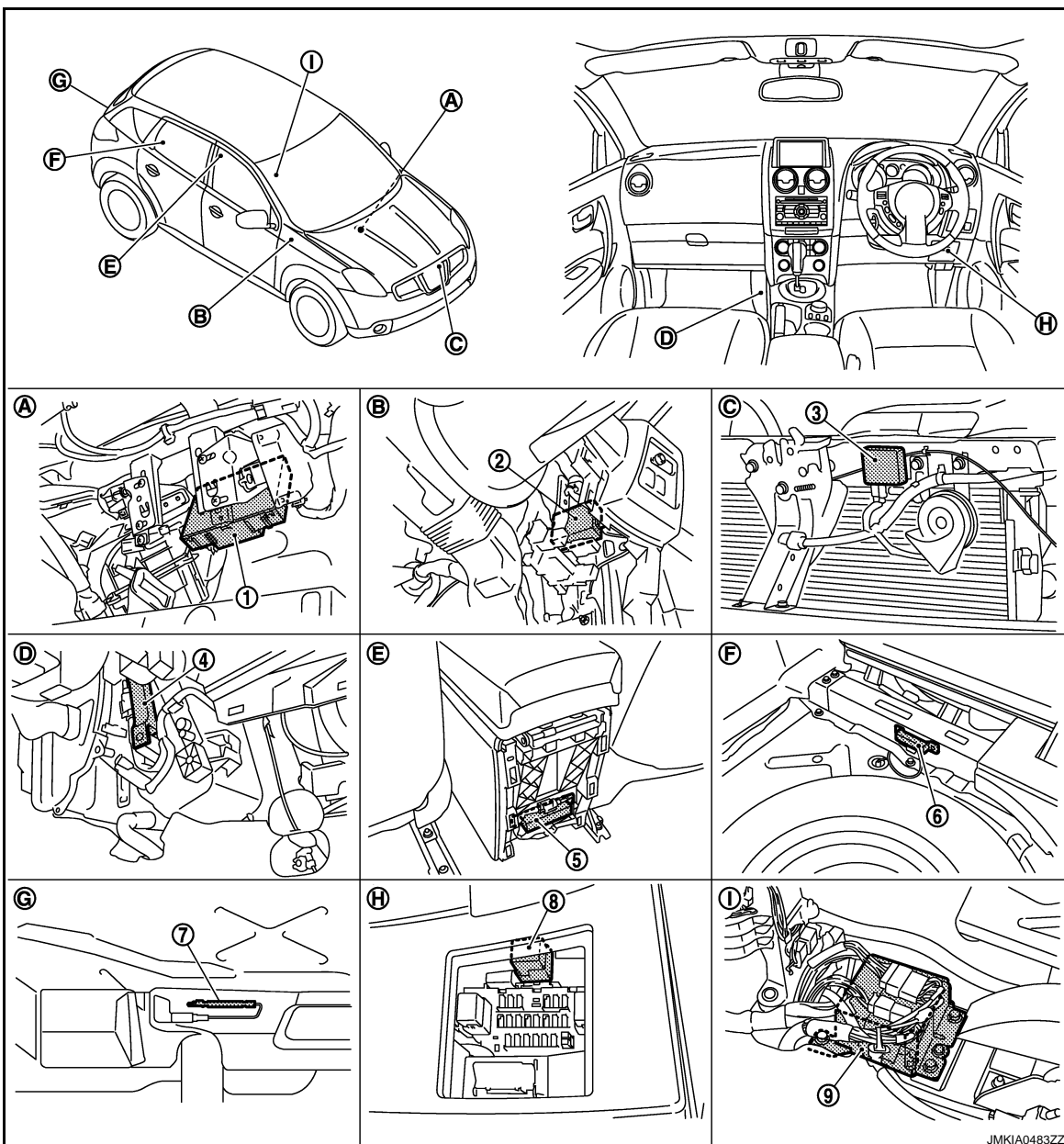
[WITH I-KEY & SUPER LOCK]

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	—

*: The factory setting for these functions are OFF.

Component Parts Location

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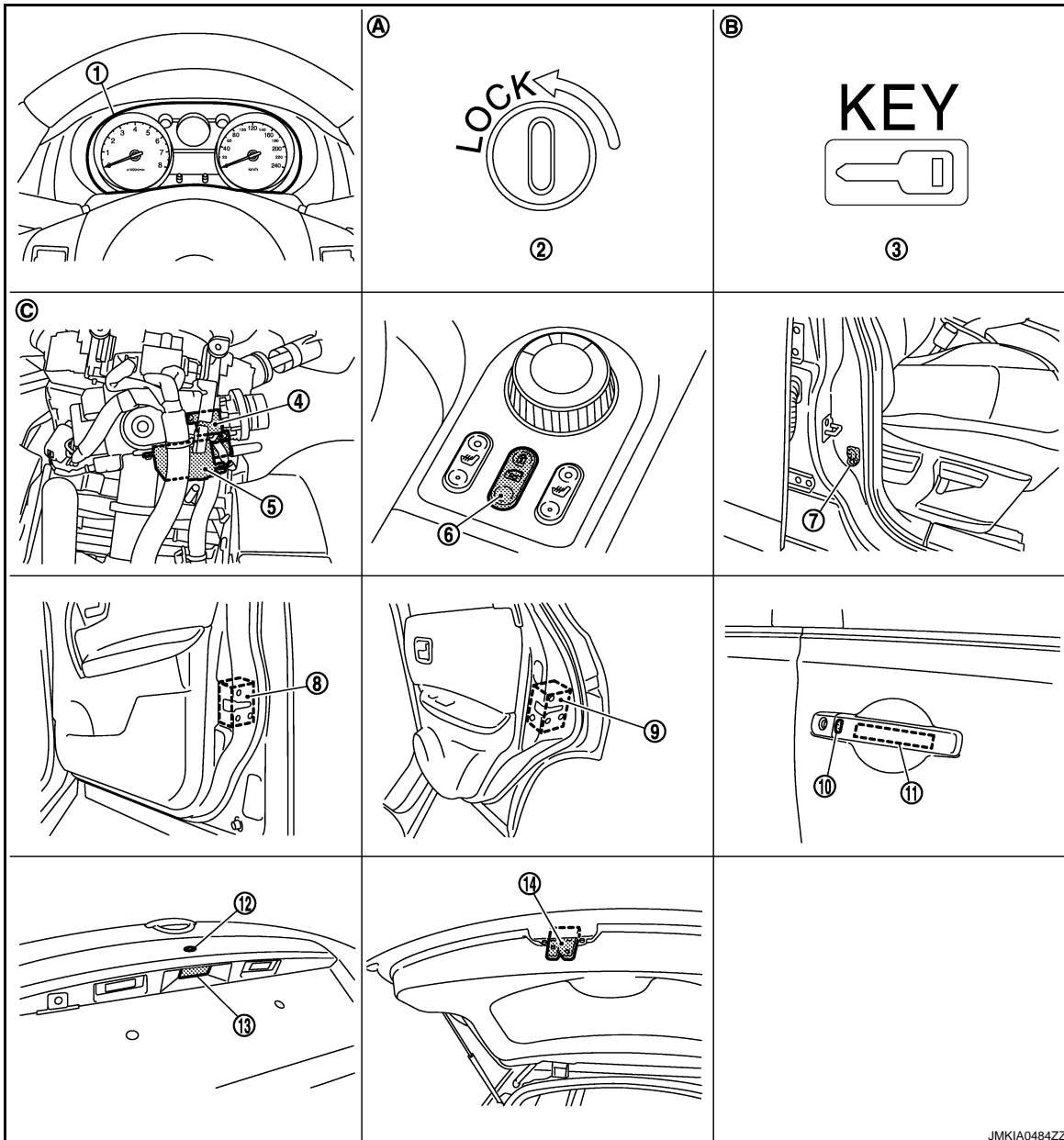
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HAZARD AND BUZZER REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

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|--|---|--|
| 1. BCM
M65, M66, M67 | 2. Intelligent Key unit
M40 | 3. Intelligent Key warning buzzer
E25 |
| 4. Inside key antenna (instrument center)
M70 | 5. Inside key antenna (center console)
M61 | 6. Inside key antenna (rear seat)
B45 |
| 7. Outside key antenna (rear bumper)
B81 | 8. Passenger side anti-hijack relay
M90 | 9. 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 | I. View with center console removed |



JMKIA0484ZZ

- | | | |
|---|--|---------------------------------------|
| 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. Door lock and unlock switch
M89 |

HAZARD AND BUZZER REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

- | | | | |
|--|--|---|---|
| 7. Front door switch (driver side)
B34 | 8. Front door lock actuator (driver side)
D29 | 9. Rear door lock actuator RH
D95 | A |
| 10. Front door request switch (driver side)
D30 | 11. Outside key antenna (driver side)
D31 | 12. Back door request switch
D187 | B |
| 13. Back door opener switch
D186 | 14. Back door lock assembly
D152 | | C |
| A. On the combination meter | B. On the combination meter | C. View with steering column cover re-
moved | D |

Component Description

INFOID:000000001183876

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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DLK

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:000000001559348

APPLICATION ITEM

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

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to BCS-62. "DTC Index" .
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	<ul style="list-style-type: none"> Enables to read and save the vehicle specification. Enables to write the vehicle specification when replacing 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	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	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 system	PTC HEATER		×	×

DOOR LOCK

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

INFOID:000000001559375

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

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 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

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

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY) INFOID:000000001559376

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:000000001559377

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:000000001559379

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 when there is intelligent key in the passenger compartment 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-320 .	
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

*: The factory setting

SELF-DIAG RESULT

Refer to [DLK-431, "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) flashes.</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 M/T model.

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U1000 CAN COMM CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000001183882

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-28, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001183883

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:000000001183884

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 >

[WITH I-KEY & SUPER LOCK]

U1010 CONTROL UNIT (CAN)

Description

INFOID:000000001183885

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-28, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001183886

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:000000001183887

1. REPLACE INTELLIGENT KEY UNIT

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

>> Replace Intelligent Key unit.

Special Repair Requirement

INFOID:000000001183888

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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B2552 INTELLIGENT KEY

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

B2552 INTELLIGENT KEY

Description

INFOID:000000001183889

Intelligent key unit performs engine start operation and steering lock control by crosschecking ID with the Intelligent key.

DTC Logic

INFOID:000000001183890

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2552	INTELLIGENT KEY UNIT	Malfunction is detected inside Intelligent key unit.	<ul style="list-style-type: none">Intelligent Key unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self diagnostic result" with CONSULT-III.

Is DTC detected?

- YES >> Refer to [DLK-332, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000001183891

1. REPLACE INTELLIGENT KEY UNIT

1. Replace Intelligent Key unit.
2. Perform initialization with CONSULT-III. Re-register all mechanical keys. Refer to "CONSULT-III Operation Manual NATS".
3. Start the engine.

Does the engine start?

- YES >> INSPECTION END
NO >> Perform "DTC confirmation procedure". Refer to [DLK-332, "DTC Logic"](#).

Special Repair Requirement

INFOID:000000001183892

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 >

[WITH I-KEY & SUPER LOCK]

POWER SUPPLY AND GROUND CIRCUIT

INTELLIGENT KEY UNIT

INTELLIGENT KEY UNIT : Diagnosis Procedure

INFOID:000000001183893

1.CHECK FUSE AND FUSIBLE LINK

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
11	Battery power supply	9 (10A)
6	Ignition power supply	4 (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. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit connector.
3. Turn ignition switch ON.
4. Check voltage between Intelligent Key unit harness connector and ground.

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

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:000000001183894

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	9 (10A)
57		J (40A)

Is the fuse fusing?

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POWER SUPPLY AND GROUND CIRCUIT

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

- 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		Voltage (Approx.)
(+)	(-)	
BCM		Ground
Connector	Terminal	
M66	41	
M67	57	Battery voltage

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		Existed

Does continuity exist?

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

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH

Description

INFOID:000000001183895

Transmits door lock/unlock operation to BCM.

Component Function Check

INFOID:000000001183896

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?

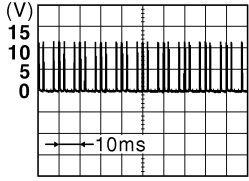
- YES >> Door lock and unlock switch is OK.
- NO >> Refer to [DLK-335. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183897

1. CHECK DOOR LOCK AND UNLOCK INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect door lock and unlock switch connector.
3. Check signal between door lock and unlock switch harness connector and ground with oscilloscope.

Terminal (+)		Terminal (-)	Signal (Reference value)
Door lock and unlock switch connector	Terminal		
M89	1	Ground	 <p style="text-align: right;">JPMAI0154GB</p>
	6		

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	7	M89	6	Exists
	9		1	

4. Check continuity between BCM connector and ground.

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DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BCM connector	Terminal	Ground	Continuity	
M65	7			Does not exist
	9			

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.

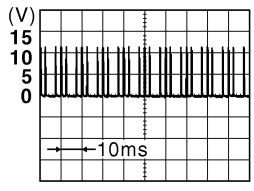
Door lock and unlock switch connector	Terminal	Ground	Continuity
M89	5		

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 signal between BCM harness connector and ground with oscilloscope.

Terminal		Signal (Reference value)
(+)	(-)	
BCM connector	Terminal	
M65	7	
	9	
	Ground	JPMAI0154GB

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> Replace BCM. Refer to [BCS-65, "Exploded View"](#).

5. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch
 Refer to [DLK-336, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> Replace door lock and unlock switch. Refer to [DLK-278, "Exploded View"](#).

Component Inspection

INFOID:000000001183898

1. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Door lock and unlock switch	Terminal		Condition	Continuity
M89	6	5	LOCK	Exists
	1		UNLOCK	

Is the inspection result normal?

- YES >> Door lock and unlock switch is OK.
 NO >> Replace door lock and unlock switch. Refer to [DLK-278, "Exploded View"](#).

DOOR LOCK AND UNLOCK SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH INDICATOR

Description

INFOID:000000001183899

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:000000001183900

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-337, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183901

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	4		

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2. CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and door lock and unlock switch 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	24	M89	4	Exists

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	24		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

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DLK

DOOR LOCK AND UNLOCK SWITCH INDICATOR

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

Check continuity between door lock and unlock switch harness connector and ground.

Door lock and unlock switch connector	Terminal	Ground	Continuity
M89	5		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BCM OUTPUT SIGNAL

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

Terminal		Condition	Voltage (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	24	Door lock operation is accomplished	Battery voltage
		Any door is OPEN	0

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> Replace BCM. Refer to [BCS-65. "Exploded View"](#).

5. CHECK DOOR LOCK AND UNLOCK SWITCH INDICATOR

Check door lock and unlock switch

Refer to [DLK-338. "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> Replace door lock and unlock switch. Refer to [DLK-278. "Exploded View"](#).

Component Inspection

INFOID:000000001183902

1. CHECK DOOR LOCK AND UNLOCK SWITCH INDICATOR

Check continuity door lock and unlock switch.

Door lock and unlock switch	Terminal		Continuity
	(+)	(-)	
M89	5	4	Exists
	4	5	Does not exist

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Replace door lock and unlock switch. Refer to [DLK-278. "Exploded View"](#).

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001183903

Transmits lock/unlock operation to Intelligent Key unit.

DRIVER SIDE : Component Function Check

INFOID:000000001183904

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-343. "BACK DOOR : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001183905

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 5.

NO >> GO TO 2.

2.CHECK FRONT DOOR REQUEST SWITCH CIRCUIT

1. Disconnect intelligent key unit.
2. Check continuity between Intelligent Key unit harness connector and door request switch harness connector.

Intelligent Key unit connector	Terminal	Door request switch connector	Terminal	Continuity
M40	5	D30	1	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 front outside handle.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

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DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Check continuity between door request switch harness connector and ground.

Door request switch connector	Terminal	Ground	Continuity
D30	2		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace front outside handle 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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 6.

5.CHECK DOOR REQUEST SWITCH

Check door request switch.

Refer to [DLK-344, "BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace malfunctioning front outside handle. Refer to [DLK-258, "OUTSIDE HANDLE : Removal and Installation"](#).

6.REPLACE INTELLIGENT KEY UNIT

Replace Intelligent Key unit.

Refer to [DLK-548, "Exploded View"](#).

NOTE:

Perform the system initialization when replacing Intelligent Key unit.

Refer to [DLK-284, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:000000001183906

1.CHECK DOOR REQUEST SWITCH

Check door request switch.

Terminal		Door request switch condition	Continuity
Door request switch			
1	2	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

YES >> Door request switch is OK.

NO >> Replace malfunctioning front outside handle. Refer to [DLK-258, "OUTSIDE HANDLE : Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001183907

Transmits lock/unlock operation to Intelligent Key unit.

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

PASSENGER SIDE : Component Function Check

INFOID:000000001183908

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-341, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001183909

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 5.

NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect intelligent key unit.
2. Check continuity between Intelligent Key unit harness connector and door request switch harness connector.

Intelligent Key unit connector	Terminal	Door request switch connector	Terminal	Continuity
M40	25	D69	1	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 front outside handle.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between front door request switch harness connector and ground.

Door request switch connector	Terminal	Ground	Continuity
D69	2		Exists

Is the inspection result normal?

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DOOR REQUEST SWITCH

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

- YES >> GO TO 4.
NO >> Repair or replace front outside handle 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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> GO TO 6.

5. CHECK DOOR REQUEST SWITCH

Check door request switch.

Refer to [DLK-342, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> Replace malfunctioning front outside handle. Refer to [DLK-258, "OUTSIDE HANDLE : Removal and Installation"](#).

6. REPLACE INTELLIGENT KEY UNIT

Replace Intelligent Key unit.

Refer to [DLK-548, "Exploded View"](#).

NOTE:

Perform the system initialization when replacing Intelligent Key unit.

Refer to [DLK-284, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:000000001183910

1. CHECK DOOR REQUEST SWITCH

Check door request switch.

Terminal		Door request switch condition	Continuity
Door request switch			
1	2	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door request switch is OK.
NO >> Replace malfunctioning front outside handle. Refer to [DLK-258, "OUTSIDE HANDLE : Removal and Installation"](#).

BACK DOOR

BACK DOOR : Description

INFOID:000000001183911

Transmits lock/unlock operation to Intelligent Key unit.

BACK DOOR : Component Function Check

INFOID:000000001183912

1. CHECK FUNCTION

With CONSULT-III

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

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

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-343. "BACK DOOR : Diagnosis Procedure"](#).

BACK DOOR : Diagnosis Procedure

INFOID:000000001183913

1.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect Intelligent Key unit.
2. Check continuity between Intelligent Key unit harness connector and door request switch harness connector.

Intelligent Key unit connector	Terminal	Door request switch connector	Terminal	Continuity
M40	29	D187	1	Exists

3. 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 request switch.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between front door request switch harness connector and ground.

Door request switch connector	Terminal	Ground	Continuity
D187	2		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace back door 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.

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DLK

DOOR REQUEST SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

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

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
NO >> GO TO 6.

5. CHECK DOOR REQUEST SWITCH

Check door request switch.

Refer to [DLK-344. "BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
NO >> Replace back door request switch. Refer to [DLK-276. "Exploded View"](#).

6. REPLACE INTELLIGENT KEY UNIT

Replace Intelligent Key unit.

Refer to [DLK-548. "Exploded View"](#).

NOTE:

Perform the system initialization when replacing Intelligent Key unit.

Refer to [DLK-23. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

>> INSPECTION END

BACK DOOR : Component Inspection

INFOID:000000001183914

1. CHECK DOOR REQUEST SWITCH

Check door request switch.

Terminal		Door request switch condition	Continuity
Door request switch			
1	2	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door request switch is OK.
NO >> Replace back door request switch. Refer to [DLK-276. "Exploded View"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DOOR SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001183915

Detects door open/closed condition.

DRIVER SIDE : Component Function Check

INFOID:000000001183916

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 >> Door switch is OK.

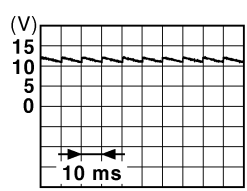
NO >> Refer to [DLK-345. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001183917

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	26	OPEN	0
		CLOSE	 <p style="text-align: right;">JPMA0011GB</p>

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	26	B34	1	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	26		Does not exist

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DLK

DOOR SWITCH

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

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

3.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-346, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

DRIVER SIDE : Component Inspection

INFOID:000000001183918

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001183919

Detects door open/closed condition.

PASSENGER SIDE : Component Function Check

INFOID:000000001183920

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 >> Door switch is OK.
NO >> Refer to [DLK-346, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001183921

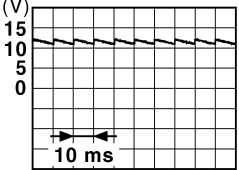
1.CHECK DOOR SWITCH INPUT SIGNAL

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

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal	(-)	
M65	27	Ground	0
		Ground	

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Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and door switch harness connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	27	B27	1	Exists

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	27		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 door switch.

Refer to [DLK-347, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000001183922

1.CHECK DOOR SWITCH

- Turn ignition switch OFF.
- Disconnect door switch connector.
- Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
 NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

REAR LH

REAR LH : Description

INFOID:000000001183923

Detects door open/closed condition.

REAR LH : Component Function Check

INFOID:000000001183924

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 >> Door switch is OK.

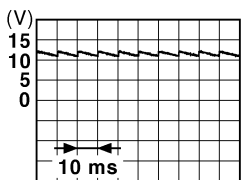
NO >> Refer to [DLK-348, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001183925

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			
M65		25	Ground	OPEN
M65	25	Ground	CLOSE	

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Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

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

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	25	B71	1	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	25		Does not exist

Is the inspection result normal?

DOOR SWITCH

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

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

3.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-349, "REAR LH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

REAR LH : Component Inspection

INFOID:000000001183926

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

REAR RH

REAR RH : Description

INFOID:000000001183927

Detects door open/close condition.

REAR RH : Component Function Check

INFOID:000000001183928

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 >> Door switch is OK.
NO >> Refer to [DLK-349, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001183929

1.CHECK DOOR SWITCH INPUT SIGNAL

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

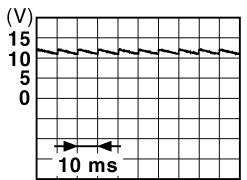
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DLK

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal		
M65	29	OPEN	0
		CLOSE	

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Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	29	B53	1	Exists

3. 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 between BCM and door switch.

3.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-350, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

REAR RH : Component Inspection

INFOID:000000001183930

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
 NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR

BACK DOOR : Description

INFOID:000000001183931

Detects back door open/close condition.

BACK DOOR : Component Function Check

INFOID:000000001183932

1. CHECK FUNCTION

With CONSULT-III

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

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

Is the inspection result normal?

- YES >> Back door lock assembly (door switch) is OK.
NO >> Refer to [DLK-351, "BACK DOOR : Diagnosis Procedure"](#).

BACK DOOR : Diagnosis Procedure

INFOID:000000001183933

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

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

Terminals		Back door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	28	Ground	0
			Battery voltage

Is the inspection result normal?

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

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

- Disconnect BCM connector.
- 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	28	D152	4	Exists

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
			Does not exist
M65	28		

Is the inspection result normal?

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

3. CHECK BACK DOOR LOCK ASSEMBLY GROUND CIRCUIT

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

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DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Back door lock assembly (door switch) connector	Terminal	Ground	Continuity
D152	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		
M65	28	Ground	Battery voltage

Is the inspection result normal?

- YES >> GO TO 5.
 NO >> Replace BCM. Refer to [BCS-65, "Exploded View"](#).

5.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

Check back door lock assembly (door switch).
 Refer to [DLK-352, "BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> Replace back door lock assembly (door switch). Refer to [DLK-266, "DOOR LOCK : Removal and Installation"](#).

BACK DOOR : Component Inspection

INFOID:000000001183934

1.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

1. Turn ignition switch OFF.
2. Disconnect back door lock assembly (door switch) connector.
3. Check back door lock assembly (door switch).

Terminal		Trunk condition	Continuity
Back door lock assembly (door switch)			
4	3	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 (door switch). Refer to [DLK-535, "DOOR LOCK : Removal and Installation"](#).

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

KEY SWITCH

Description

INFOID:000000001183935

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:000000001183936

1.CHECK KEY SWITCH INPUT SIGNAL

Check "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-353, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183937

1.CHECK KEY SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit 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

4. Check voltage between BCM harness connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	36	Ground	Battery voltage
		Insert mechanical key into key cylinder	0

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 2.

2.CHECK KEY SWITCH POWER SUPPLY CIRCUIT

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

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

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

BCM connector	Terminal	Ignition knob switch and key lock solenoid connector	Terminal	Continuity
M65	36	M25	1	Exists

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

Ignition knob 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-354, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace key switch.

Component Inspection

INFOID:000000001183938

COMPONENT INSPECTION

1.CHECK KEY SWITCH

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

Terminal		Condition	Continuity
Ignition knob switch and key lock solenoid connector			
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.

IGNITION KNOB SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

IGNITION KNOB SWITCH

Description

INFOID:000000001183939

Ignition knob switch detects that ignition knob is pressed, and then transmits the signal to Intelligent Key unit. Then Intelligent Key unit transmits the information to BCM via CAN.

Component Function Check

INFOID:000000001183940

1.CHECK IGNITION KNOB SWITCH INPUT SIGNAL

Check "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 [SEC-59, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183941

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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> GO TO 2.

2.CHECK IGNITION KNOB SWITCH POWER SUPPLY CIRCUIT

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

Terminals			Voltage (V) (Approx.)
(+)		(-)	
Ignition knob 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 and key lock solenoid harness connector.

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IGNITION KNOB SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

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

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

Ignition knob 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 [SEC-60, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace key cylinder assembly.

Component Inspection

INFOID:000000001183942

1.CHECK IGNITION KNOB SWITCH

1. Turn ignition switch OFF.
2. Disconnect ignition knob switch and key lock solenoid connector.
3. Check continuity between ignition knob switch and key lock solenoid terminals under the following conditions.

Ignition knob switch and key lock solenoid		Condition	Continuity
Connector	Terminal		
M25	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 is OK.

NO >> Key cylinder assembly.

DOOR LOCK ACTUATOR

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001183943

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:000000001183944

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 >> Door lock actuator is OK.

NO >> Refer to [DLK-357, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001183945

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 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	Door lock actuator connector	Terminal	Continuity
M67	56	D9	3	Exists
	60		2	

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		
	60		

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 3.

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

3. CHECK DOOR LOCK ACTUATOR CIRCUIT 2

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

BCM connector	Terminal	Anti-hijack relay connector	Terminal	Continuity
M67	56	M90	4	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 ANTI-HIJACK RELAY

Check continuity of anti-hijack relay.

Anti-hijack relay connector	Terminal		Continuity
M90	4	3	Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace anti-hijack relay.

5. CHECK DOOR LOCK ACTUATOR CIRCUIT 3

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

Anti-hijack relay connector	Terminal	Door lock actuator connector	Terminal	Continuity
M90	3	D9	3	Exists

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

Anti-hijack relay connector	Terminal	Ground	Continuity
M90	3		Does not exist

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace harness.

6. CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-358, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

DRIVER SIDE : Component Inspection

INFOID:000000001183946

1. CHECK FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)

Check the actuator operation by connecting the battery voltage to front door lock actuator (driver side).

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Front door lock actuator (driver side)	Terminal		Door lock actuator condition
	(+)	(-)	
D9	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

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

NO >> Replace front door lock actuator (driver side). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

DRIVER SIDE : Special Repair Requirement

INFOID:000000001183947

Refer to [PWC-4, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001183948

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000001183949

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 >> Door lock actuator is OK.

NO >> Refer to [DLK-366, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001183950

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

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

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

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	56	D48	3	Exists
	54		2	

4. 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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Repair or replace harness.

3.CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-359, "PASSENGER SIDE : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000001183951

1.CHECK FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)

Check the actuator operation by connecting the battery voltage directly to front door lock actuator (passenger side).

Front door lock actuator (passenger side) connector	Terminal		Door lock actuator condition
	(+)	(-)	
D48	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

- YES >> Front door lock actuator (passenger side) is OK.
- NO >> Replace front door lock actuator (passenger side). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR LH

REAR LH : Description

INFOID:000000001183952

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:000000001183953

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 >> Door lock actuator is OK.

DOOR LOCK ACTUATOR

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

NO >> Refer to [DLK-361, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001183954

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 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	Door lock actuator connector	Terminal	Continuity
M67	56	D85	3	Exists
	54		2	

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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> GO TO 3.

3. CHECK DOOR LOCK ACTUATOR CIRCUIT 2

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

BCM connector	Terminal	Anti-hijack relay connector	Terminal	Continuity
M67	56	M90	4	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56	Ground	Does not exist

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace harness.

4. CHECK ANTI-HIJACK RELAY

Check continuity anti-hijack relay.

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Anti-hijack relay connector	Terminal		Continuity
M90	4	3	Exists

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace anti-hijack relay.

5.CHECK DOOR LOCK ACTUATOR CIRCUIT 3

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

Anti-hijack relay connector	Terminal	Door lock actuator connector	Terminal	Continuity
M90	3	D85	3	Exists

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

Anti-hijack relay connector	Terminal	Ground	Continuity
M90	3		Does not exist

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace harness.

6.CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-362, "REAR LH : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR LH : Component Inspection

INFOID:000000001183955

1.CHECK REAR DOOR LOCK ACTUATOR (LH)

Check the actuator operation by connecting the battery voltage directly to rear door lock actuator (LH).

Rear door lock actuator (LH)	Terminal		Door lock actuator condition
	(+)	(-)	
D85	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

YES >> Rear door lock actuator (LH) is OK.

NO >> Replace rear door lock actuator (LH). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR RH

REAR RH : Description

INFOID:000000001183956

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:000000001183957

1.CHECK FUNCTION

 With CONSULT-III

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

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

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 >> Door lock actuator is OK.

NO >> Refer to [DLK-363, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001183958

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.)
(+)	Terminal			
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 6.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect BCM 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	Door lock actuator connector	Terminal	Continuity
M67	56	D105	3	Exists
	54		2	

4. 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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 3.

3. CHECK DOOR LOCK ACTUATOR CIRCUIT 2

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

BCM connector	Terminal	Anti-hijack relay connector	Terminal	Continuity
M67	56	M90	4	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56	Ground	Does not exist

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DOOR LOCK ACTUATOR

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace harness.

4.CHECK ANTI-HIJACK RELAY

Check continuity anti-hijack relay.

Anti-hijack relay connector	Terminal		Continuity
	4	3	
M90	4	3	Exists

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Replace anti-hijack relay.

5.CHECK DOOR LOCK ACTUATOR CIRCUIT 3

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

Anti-hijack relay connector	Terminal	Door lock actuator connector	Terminal	Continuity
M90	3	D105	3	Exists

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

Anti-hijack relay connector	Terminal	Ground	Continuity
M90	3		Does not exist

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> Repair or replace harness.

6.CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-364, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR RH : Component Inspection

INFOID:000000001183959

1.CHECK REAR DOOR LOCK ACTUATOR (RH)

Check the actuator operation by connecting the battery voltage directly to rear door lock actuator (RH).

Rear door lock actuator (RH)	Terminal		Door lock actuator condition
	(+)	(-)	
D105	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

- YES >> Rear door lock actuator (RH) is OK.
NO >> Replace rear door lock actuator (RH). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SUPER LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001183960

The super lock system is controlled by BCM.

DRIVER SIDE : Component Function Check

INFOID:000000001183961

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 >> Door lock actuator (super lock actuator) is OK.

NO >> Refer to [DLK-365, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001183962

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Ground	0 → Battery voltage → 0
M67	60		
	59	UNLOCK (RELEASE)	
		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 front door lock actuator (driver side) connector.
- Check continuity between BCM harness connector and front door lock actuator (driver side) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	59	D29	1	Exists
	60		2	

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	59	Ground	Does not exist
	60		

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace harness.

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SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

3.CHECK SUPER LOCK ACTUATOR

Check super lock actuator.

Refer to [DLK-366, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#). After that, [DLK-366, "DRIVER SIDE : Special Repair Requirement"](#).

DRIVER SIDE : Component Inspection

INFOID:000000001183963

1.CHECK SUPER LOCK ACTUATOR

Check the actuator operation by connecting the battery voltage to super lock actuator.

Door lock actuator (super lock actuator) connector	Terminal		Actuator condition
	(+)	(-)	
D29	1	2	LOCK (SET)
	2	1	UNLOCK (RELEASE)

Is the inspection result normal?

YES >> Door lock actuator (super lock actuator) is OK.

NO >> Replace door lock actuator (super lock actuator). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#). After that, Refer to [DLK-366, "DRIVER SIDE : Special Repair Requirement"](#).

DRIVER SIDE : Special Repair Requirement

INFOID:000000001183964

Perform initialization procedure. Refer to [PWC-4, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001183965

The super lock system is controlled by BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000001183966

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 >> Door lock actuator (super lock actuator) is OK.

NO >> Refer to [DLK-366, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001183967

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

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

- Turn ignition switch OFF.
- Disconnect BCM and front door lock actuator (passenger side) connector.
- Check continuity between BCM harness connector and front door lock actuator (passenger side) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	59	D68	1	Exists
	54		2	

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	59	Ground	Does not exist
	54		

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 3.

3. CHECK SUPER LOCK ACTUATOR

Check super lock actuator.

Refer to [DLK-367, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000001183968

1. CHECK SUPER LOCK ACTUATOR

Check the actuator operation by connecting the battery voltage to super lock actuator.

Door lock actuator (super lock actuator) connector	Terminal		Actuator condition
	(+)	(-)	
D68	1	2	LOCK (SET)
	2	1	UNLOCK (RELEASE)

Is the inspection result normal?

YES >> Door lock actuator (super lock actuator) is OK.

NO >> Replace door lock actuator (super lock actuator). Refer to [DLK-254, "DOOR LOCK : Exploded View"](#) and [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR LH

SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

REAR LH : Description

INFOID:000000001183969

The super lock system is controlled by BCM.

REAR LH : Component Function Check

INFOID:000000001183970

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 >> Door lock actuator (super lock actuator) is OK.
 NO >> Refer to [DLK-368, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001183971

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness 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

- Turn ignition switch OFF.
- Disconnect BCM and rear door lock actuator (LH) connector.
- Check continuity between BCM harness connector and rear door lock actuator (LH) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	59	D115	1	Exists
	54		2	

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	59		
	54		

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> GO TO 3.

3.CHECK SUPER LOCK ACTUATOR

Check super lock actuator.

Refer to [DLK-369, "REAR LH : Component Inspection"](#).

Is the inspection result normal?

SUPER LOCK ACTUATOR

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR LH : Component Inspection

INFOID:000000001183972

1.CHECK SUPER LOCK ACTUATOR

Check the actuator operation by connecting the battery voltage to super lock actuator.

Door lock actuator (super lock actuator) connector	Terminal		Actuator condition
	(+)	(-)	
D115	1	2	LOCK (SET)
	2	1	UNLOCK (RELEASE)

Is the inspection result normal?

- YES >> Door lock actuator (super lock actuator) is OK.
NO >> Replace door lock actuator (super lock actuator). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR RH

REAR RH : Description

INFOID:000000001183973

The super lock system is controlled by BCM.

REAR RH : Component Function Check

INFOID:000000001183974

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 >> Door lock actuator (super lock actuator) is OK.
NO >> Refer to [DLK-369, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001183975

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Ground	0 → Battery voltage → 0
	M67		
	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 harness connector and rear door lock actuator (RH) harness connector.

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SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	59	D95	1	Exists
	54		2	

4. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	59	Ground	Does not exist
	54		

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 3.

3.CHECK SUPER LOCK ACTUATOR

Check super lock actuator.

Refer to [DLK-370, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR RH : Component Inspection

INFOID:000000001183976

1.CHECK SUPER LOCK ACTUATOR

Check the actuator operate by connecting the battery voltage to super lock actuator.

Door lock actuator (super lock actuator) connector	Terminal		Actuator condition
	(+)	(-)	
D95	1	2	LOCK (SET)
	2	1	UNLOCK (RELEASE)

Is the inspection result normal?

YES >> Door lock actuator (super lock actuator) is OK.

NO >> Replace door lock actuator (super lock actuator). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

BACK DOOR OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER ACTUATOR

Description

INFOID:000000001183977

Opens the back door with the signal from BCM.

Component Function Check

INFOID:000000001183978

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 lock opener actuator operation

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-371, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183979

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 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	D152	2	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
D152	1		Exists

Is the inspection result normal?

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BACK DOOR OPENER ACTUATOR

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

- YES >> GO TO 4.
- NO >> Repair or replace harness.

4.CHECK BACK DOOR LOCK ASSEMBLY

Check the actuator operation by connecting battery voltage to back door lock assembly.
Refer to [DLK-372, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace back door lock assembly. Refer to [DLK-266, "DOOR LOCK : Removal and Installation"](#).

Component Inspection

INFOID:000000001183980

1.CHECK BACK DOOR LOCK ASSEMBLY

Check the actuator operation by connecting battery voltage to back door lock assembly.

Back door lock assembly connector	Terminal		Back door actuator condition
	(+)	(-)	
D152	2	1	OPEN

Is the inspection result normal?

- YES >> Back door lock assembly (back door lock actuator) is OK.
- NO >> Replace back door lock assembly (back door lock actuator). Refer to [DLK-266, "DOOR LOCK : Removal and Installation"](#).

BACK DOOR OPENER SWITCH

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH

Description

INFOID:000000001183981

Sends the back door opening signal to BCM.

Component Function Check

INFOID:000000001183982

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-373, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001183983

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	12	Pressed	0
		Released	Battery voltage

Is the inspection result normal?

- YES >> GO TO 4.
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 connector.
3. Check continuity between BCM harness connector and back door opener switch harness connector.

BCM connector	Terminal	Back door opener switch connector	Terminal	Continuity
M65	12	D186	1	Exists

4. 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.

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 & SUPER LOCK]

Terminals			Voltage (V) (Approx.)
(+)		(-)	
BCM connector	Terminal		
M65	12	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to [BCS-65, "Exploded View"](#).

4.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

Back door 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.

Refer to [DLK-374, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace back door opener switch. Refer to [DLK-277, "Exploded View"](#).

Component Inspection

INFOID:000000001183984

1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Back door opener switch connector	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 is OK.

NO >> Replace back door opener switch. Refer to [DLK-277, "Exploded View"](#).

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001183985

Intelligent Key detects antenna transmission.

Timing of reply from Intelligent Key to Intelligent Key unit when antenna the Intelligent Key is closest to (inside or outside of the vehicle).

Integrated in front outside handle (driver side).

DRIVER SIDE : Component Function Check

INFOID:000000001183986

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 is OK.

NO >> Refer to [DLK-542, "DRIVER SIDE : Removal and Installation"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001183987

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

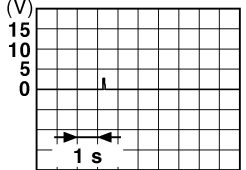
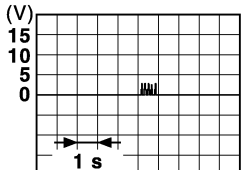
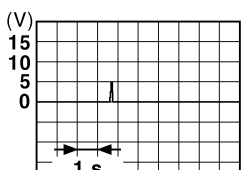
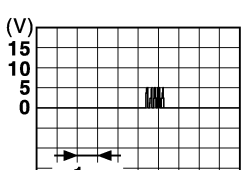
1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

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OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminals			(-)	Condition	Signal (Reference value)	
(+)		Terminal				
Intelligent Key unit connector	Terminal					
M40	Driver side (+)	19	Ground	Request switch is pushed	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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and front outside handle connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna connector	Terminal	Continuity
M40	19	D31	1	Existed
	20		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	19		
	20		

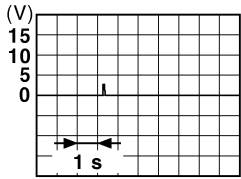
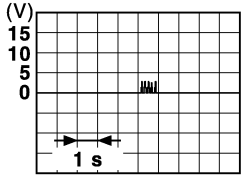
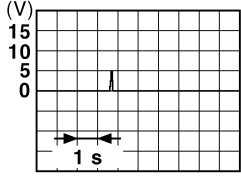
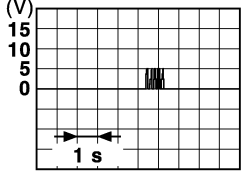
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna.

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 pushed	When Intelligent Key is in the antenna detection area.  <small>JMKIA0397ZZ</small>
				When Intelligent Key is not in the antenna detection area.  <small>JMKIA0514ZZ</small>
	Driver side (-)	20	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 (driver side). Refer to [DLK-273, "DRIVER SIDE : Exploded View"](#).

NO >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

PASSENGER SIDE

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

PASSENGER SIDE : Description

INFOID:000000001183988

Intelligent Key detects antenna transmission.

Timing of reply from Intelligent Key to Intelligent Key unit when antenna the Intelligent Key is closest to (inside or outside of the vehicle).

Integrated in front outside handle (passenger side).

PASSENGER SIDE : Component Function Check

INFOID:000000001183989

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 is OK.

NO >> Refer to [DLK-542. "PASSENGER SIDE : Removal and Installation"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001183990

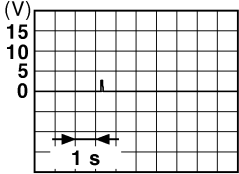
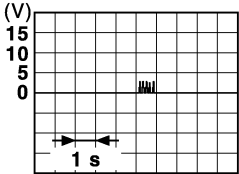
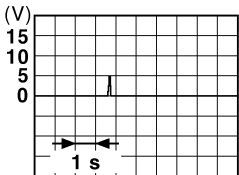
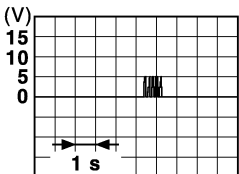
1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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	Passenger side (+)	37	Ground	Request switch is pushed	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>		
	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 >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
- NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and front outside handle connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna connector	Terminal	Continuity
M40	37	D70	1	Existed
	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 & SUPER LOCK]

Intelligent Key unit connector	Terminal	Ground	Continuity
M40	37		Not existed
	38		

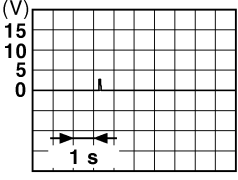
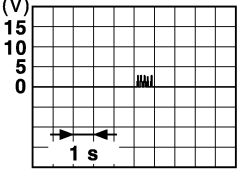
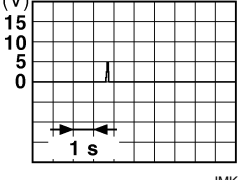
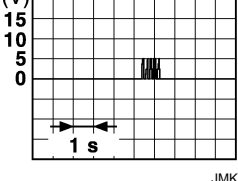
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna.

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)		
(+)	Terminal					
Intelligent Key unit connector	Terminal	(-)				
M40	Passenger side (+)	37	Door request switch is pushed	Ground	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>
	Passenger side (-)	38			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>

Is the inspection result normal?

YES >> Replace outside key antenna (passenger side). Refer to [DLK-542. "PASSENGER SIDE : Removal and Installation"](#) (passenger side).

NO >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

REAR BUMPER

OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

REAR BUMPER : Description

INFOID:000000001183991

Intelligent Key detects antenna transmission.

Timing of reply from Intelligent Key to Intelligent Key unit when antenna the Intelligent Key is closest to (inside or outside of the vehicle).

Installed in rear bumper.

REAR BUMPER : Component Function Check

INFOID:000000001183992

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 is OK.

NO >> Refer to [DLK-381. "REAR BUMPER : Diagnosis Procedure"](#).

REAR BUMPER : Diagnosis Procedure

INFOID:000000001183993

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

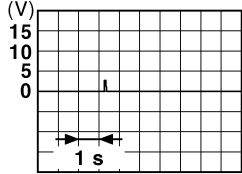
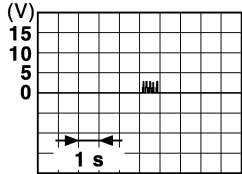
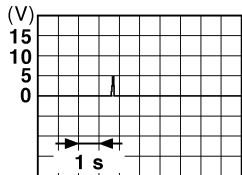
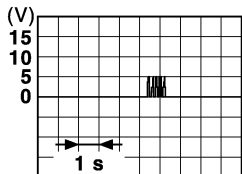
1. Turn ignition switch OFF.
2. Check signal between Intelligent Key unit harness connector and ground with oscilloscope.

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OUTSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & 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 detection 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 detection area.	 <p style="text-align: right; font-size: small;">JMKIA0515ZZ</p>	

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect Intelligent Key unit connector and front outside handle connector.
2. Check continuity between Intelligent Key unit harness connector and outside key antenna harness connector.

Intelligent Key unit connector	Terminal	Outside key antenna connector	Terminal	Continuity
M40	17	B81 (rear bumper)	1	Exists
	18		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	17		
	18		

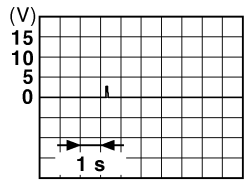
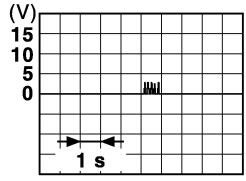
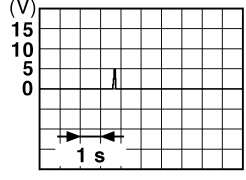
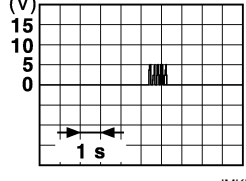
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between Intelligent Key unit and outside key antenna.

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	Rear bumper (+)	Ground	Door request switch is pressed	When Intelligent Key is in the antenna detection area.  <small>JMKIA0397ZZ</small>	
			Door request switch is pressed	When Intelligent Key is not in the antenna detection area.  <small>JMKIA0514ZZ</small>	
	Rear bumper (-)		17	Door request switch is pressed	When Intelligent Key is in the antenna detection area.  <small>JMKIA0395ZZ</small>
			18	Door request switch is pressed	When Intelligent Key is not in the antenna detection area.  <small>JMKIA0515ZZ</small>

Is the inspection result normal?

YES >> Replace outside key antenna (rear bumper). Refer to [DLK-274, "REAR BUMPER : Exploded View"](#).

NO >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

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INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Description

INFOID:000000001183994

Detects whether Intelligent Key is inside the vehicle.

INSTRUMENT CENTER : Component Function Check

INFOID:000000001183995

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 is OK.

NO >> Refer to [DLK-384, "INSTRUMENT CENTER : Diagnosis Procedure"](#).

INSTRUMENT CENTER : Diagnosis Procedure

INFOID:000000001183996

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 detection area.		
				34	When Intelligent Key is in the antenna de- tection 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 >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
 NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

Intelligent Key unit connector	Terminal	Inside key antenna connector	Terminal	Continuity
M40	33	M70 (instrument center)	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	Ground	Does not exist
	34		

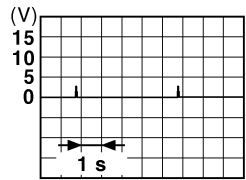
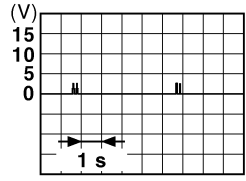
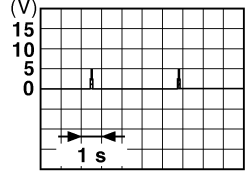
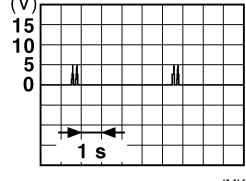
Is the inspection result normal?

YES >> GO TO 3.

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

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 connector.
3. Check signal between Intelligent Key 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. 
				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 (instrument center). Refer to [DLK-271. "INSTRUMENT CENTER : Exploded View"](#).

NO >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

CONSOLE

CONSOLE : Description

INFOID:000000001183997

Detects whether Intelligent Key is inside the vehicle.

CONSOLE : Component Function Check

INFOID:000000001183998

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 is OK.
NO >> Refer to [DLK-387. "CONSOLE : Diagnosis Procedure"](#).

CONSOLE : Diagnosis Procedure

INFOID:000000001183999

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.

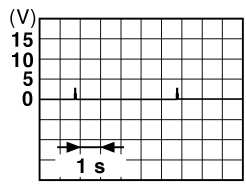
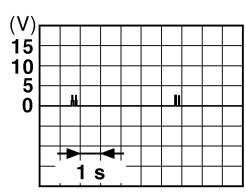
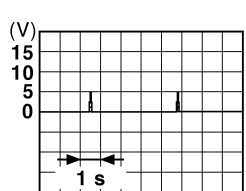
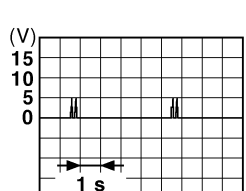
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INSIDE KEY ANTENNA

< 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 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>
	Console (-)	16		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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

Intelligent Key unit connector	Terminal	Inside key antenna connector	Terminal	Continuity
M40	15	M61 (console)	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		

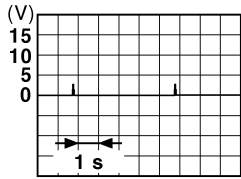
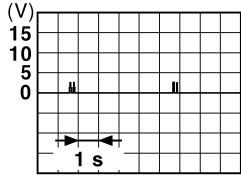
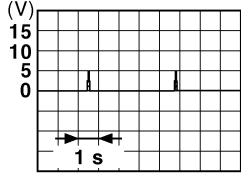
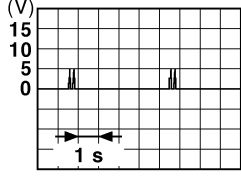
Is the inspection result normal?

YES >> GO TO 3.

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

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 connector.
3. Check signal between Intelligent Key harness connector and ground with oscilloscope.

Terminal		(-)	Condition	Signal (Reference value)
(+)				
Intelligent Key unit connector	Terminal			
M40	Console (+)	15	<ul style="list-style-type: none"> All doors are closed Ignition knob switch is pressed 	When Intelligent Key is in the antenna detection area.  <small>JMKIA0393ZZ</small>
				When Intelligent Key is not in the antenna detection area.  <small>JMKIA0391ZZ</small>
	Console (-)	16		When Intelligent Key is in the antenna detection area.  <small>JMKIA0392ZZ</small>
				When Intelligent Key is not in the antenna detection area.  <small>JMKIA0390ZZ</small>

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to [DLK-271, "CONSOLE : Exploded View"](#) (console).

NO >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

REAR SEAT

INSIDE KEY ANTENNA

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

REAR SEAT : Description

INFOID:000000001184000

Detects whether Intelligent Key is inside the vehicle.

REAR SEAT : Component Function Check

INFOID:000000001184001

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 is OK.
NO >> Refer to [DLK-390, "REAR SEAT : Diagnosis Procedure"](#).

REAR SEAT : Diagnosis Procedure

INFOID:000000001184002

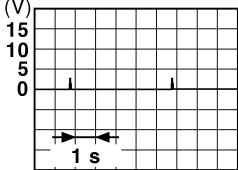
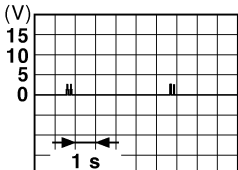
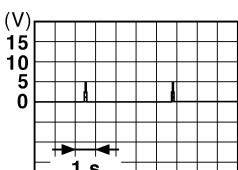
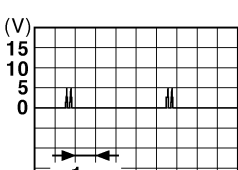
1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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.	 <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>

- All doors are closed
- Ignition knob switch is pressed

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
 NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

Intelligent Key unit connector	Terminal	Inside key antenna connector	Terminal	Continuity
M40	13	B45 (rear seat)	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		Does not exist
	14		

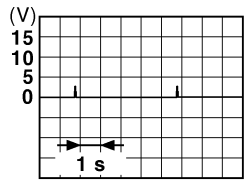
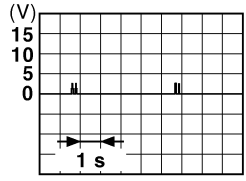
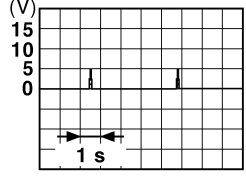
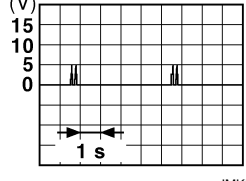
Is the inspection result normal?

YES >> GO TO 3.

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

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 connector.
3. Check signal between Intelligent Key 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.  <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-272, "REAR : Exploded View"](#) (rear seat).

NO >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

ANTI-HIJACK RELAY

[WITH I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

ANTI-HIJACK RELAY PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001184003

Receives anti-hijack signal from Intelligent Key unit.

PASSENGER SIDE : Component Function Check

INFOID:000000001184004

1.CHECK FUNCTION

1. All doors are locked using Intelligent Key or door request switch. (Super lock system condition: Set)
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-393. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001184005

1.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL 1

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 >> Check condition of harness and connector. If NG, repair or replace harness.

2.CHECK INTELLIGENT KEY UNIT INPUT SIGNAL 2

1. 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 & 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 >> Check condition of harness and connector. If NG, repair or replace harness.

5. CHECK ANTI-HIJACK RELAY

Check anti-hijack relay.

Refer to [DLK-394, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace anti-hijack relay. Refer to [DLK-287, "DOOR LOCK AND UNLOCK SWITCH : Component Parts Location"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000001184006

1. CHECK ANTI-HIJACK RELAY

1. Turn ignition switch OFF.
2. Disconnect passenger side anti-hijack relay connector.
3. Check continuity passenger side anti-hijack relay terminals 3 and 4.

Passenger side anti-hijack relay connector	Terminal		Condition	Continuity
M90	3	4	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-287, "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:000000001184007

Answers back and warns about an inappropriate operation.

Component Function Check

INFOID:000000001184008

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-395, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184009

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	Sounding	0
		Not sounding	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

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 & 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-396. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-275. "Exploded View"](#).

5.REPLACE INTELLIGENT KEY UNIT

Replace Intelligent Key unit.

Refer to [DLK-548. "Exploded View"](#).

NOTE:

Perform the system initialization when replacing Intelligent Key unit.

Refer to [DLK-23. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

>> INSPECTION END

Component Inspection

INFOID:000000001184010

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. GO TO 2.

NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-275. "Exploded View"](#).

2.REPLACE INTELLIGENT KEY UNIT

Replace Intelligent Key unit.

Refer to [DLK-548. "Exploded View"](#).

NOTE:

Perform the system initialization when replacing Intelligent Key unit.

Refer to [DLK-23. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

>> INSPECTION END

BUZZER (COMBINATION METER)

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BUZZER (COMBINATION METER)

Description

INFOID:000000001184011

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:000000001184012

1. CHECK FUNCTION

With CONSULT-III

Check the operation with "INSIDE BUZZER" in the 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-397, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184013

1. CHECK BUZZER (COMBINATION METER) CIRCUIT

Refer to [WCS-21, "Component Function Check"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace buzzer (combination meter) circuit.

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KEY WARNING LAMP

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

KEY WARNING LAMP

Description

INFOID:000000001184014

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:000000001184015

1.CHECK FUNCTION

With CONSULT-III

Check the operation with "INDICATOR" in "Active Test" 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-398, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184016

1.CHECK KEY WARNING LAMP CIRCUIT

Refer to [WCS-21, "Component Function Check"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace key warning lamp circuit.

LOCK WARNING LAMP

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

LOCK WARNING LAMP

Description

INFOID:000000001184017

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:000000001184018

1.CHECK FUNCTION

With CONSULT-III

Check the operation with "INDICATOR" in "Active Test" 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-399, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184019

1.CHECK LOCK WARNING LAMP CIRCUIT

Refer to [WCS-21, "Component Function Check"](#).

Is the inspection result normal?

- Yes >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- No >> Repair or replace lock warning lamp circuit.

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HAZARD WARNING LAMPS

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

HAZARD WARNING LAMPS

Description

INFOID:000000001184020

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

Component Function Check

INFOID:000000001184021

1.CHECK FUNCTION

With CONSULT-III

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

Is the inspection result normal?

- YES >> Hazard warning lamp circuit is OK.
- NO >> Refer to [DLK-400, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184022

1.CHECK HAZARD SWITCH CIRCUIT

Check hazard switch circuit.

Refer to [EXL-75, "Component Function Check"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Repair or replace hazard warning switch circuit.

VEHICLE SPEED SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

VEHICLE SPEED SIGNAL CIRCUIT

Description

INFOID:000000001184023

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

Component Function Check

INFOID:000000001184024

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-401, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184025

1.CHECK VEHICLE SPEED SIGNAL CIRCUIT

Check "VEHICLE SPEED" in "Data Monitor" with CONSULT-III.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace vehicle speed signal circuit.

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INTELLIGENT KEY BATTERY

< COMPONENT DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY BATTERY

Description

INFOID:000000001184026

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

- Door lock and unlock
- Engine start

Remote control entry function is available when operating the button.

Component Function Check

INFOID:000000001184027

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-402, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184028

1. CHECK INTELLIGENT KEY BATTERY

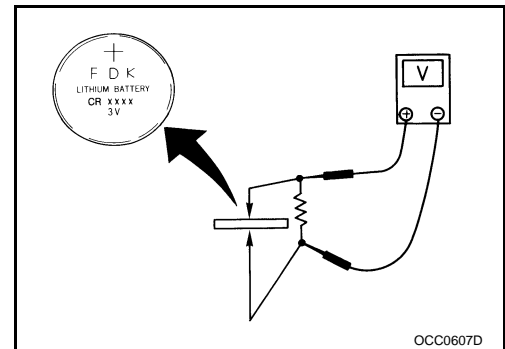
Check by connecting a resistance (approximately 300 Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

YES >> Replace Intelligent Key.

NO >> Replace Intelligent Key battery. Refer to [DLK-547, "Exploded View"](#).



INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

ECU DIAGNOSIS

INTELLIGENT KEY UNIT

Reference Value

INFOID:000000001559819

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status	
PUSH SW	Ignition knob	Release	OFF
		Press	ON
KEY 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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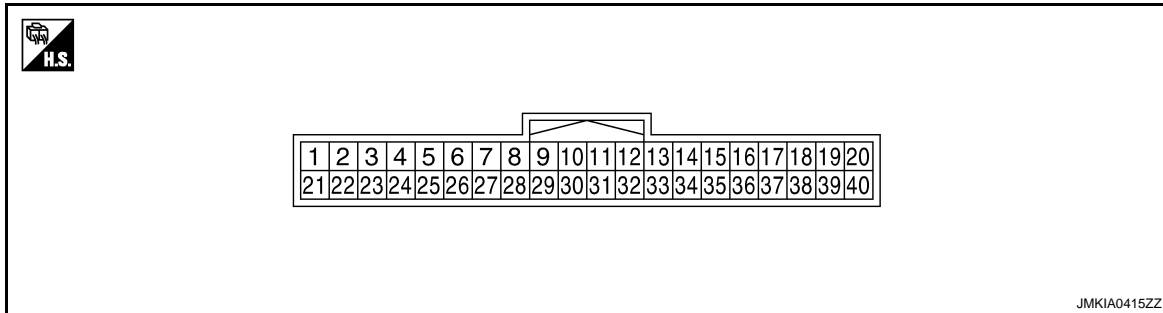
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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

TERMINAL LAYOUT



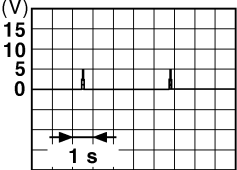
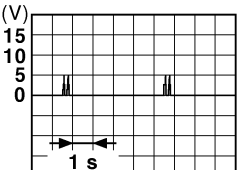
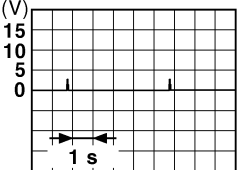
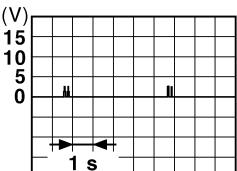
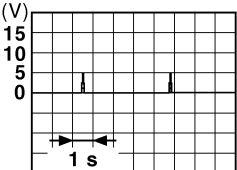
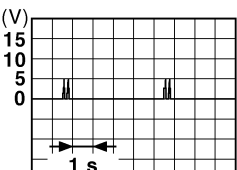
PHYSICAL VALUES

Terminal No.		Wire color	Description		Condition	Value [V] (Approx.)
+	-		Signal name	Input/Output		
1	Ground	LG	Steering lock unit power supply	Output	Ignition switch	OFF or ACC: 5 ON: 0
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
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 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>When Intelligent Key is in the antenna detection area</p> <p style="text-align: right;"><small>JMKIA0393ZZ</small></p>
						<p>When Intelligent Key is not in the antenna detection area</p> <p style="text-align: right;"><small>JMKIA0391ZZ</small></p>

INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[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.	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>
15	Ground	SB	Inside key antenna (+) (console)	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>
16	Ground	BR	Inside key antenna (-) (console)	Output	Ignition knob is pressed.	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>

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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		
17	Ground	SB	Outside key antenna (+) (rear bumper)	Output	When the back door request switch is operated with ignition switch OFF	<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 the back door request switch is operated with ignition switch OFF	<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 the front door request switch (driver side) is operated with ignition switch OFF	<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

< 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 Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA0395ZZ</p>	
					When the front door request switch (driver side) is operated with ignition switch OFF	<p style="text-align: right; font-size: small;">JMKIA0515ZZ</p>	
22*1	Ground	W	Key lock solenoid	Output	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	
27	Ground	L	Ignition knob switch	Input	Ignition knob switch OFF	When ignition knob switch is pressed	Battery voltage
					When ignition knob switch is released	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	<p style="text-align: right; font-size: small;">JMKIA0433ZZ</p>	

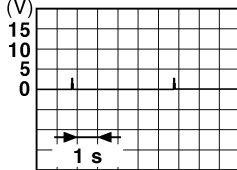
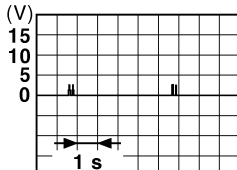
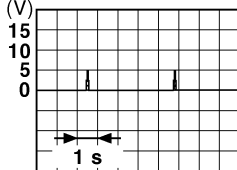
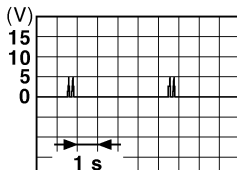
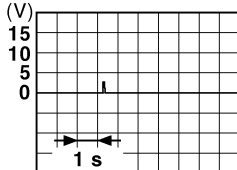
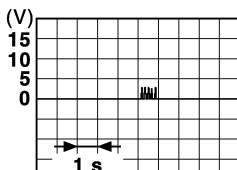
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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

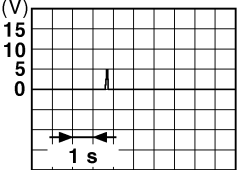
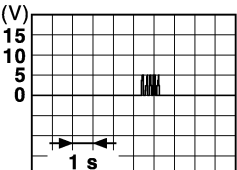
[WITH I-KEY & SUPER LOCK]

Terminal No.		Wire color	Description		Condition	Value [V] (Approx.)
+	-		Signal name	Input/ Output		
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

< 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	 <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>
40	Ground	Y	Passenger side anti-hijack relay	Input	Press front door request switch (passenger side)	Battery voltage → 0 → Battery voltage
					Other than above	Battery voltage

*1: Only for M/T model.

*2: Key interlock operation is only for M/T model for operation condition, refer to [SEC-10, "System Description"](#).

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INTELLIGENT KEY UNIT

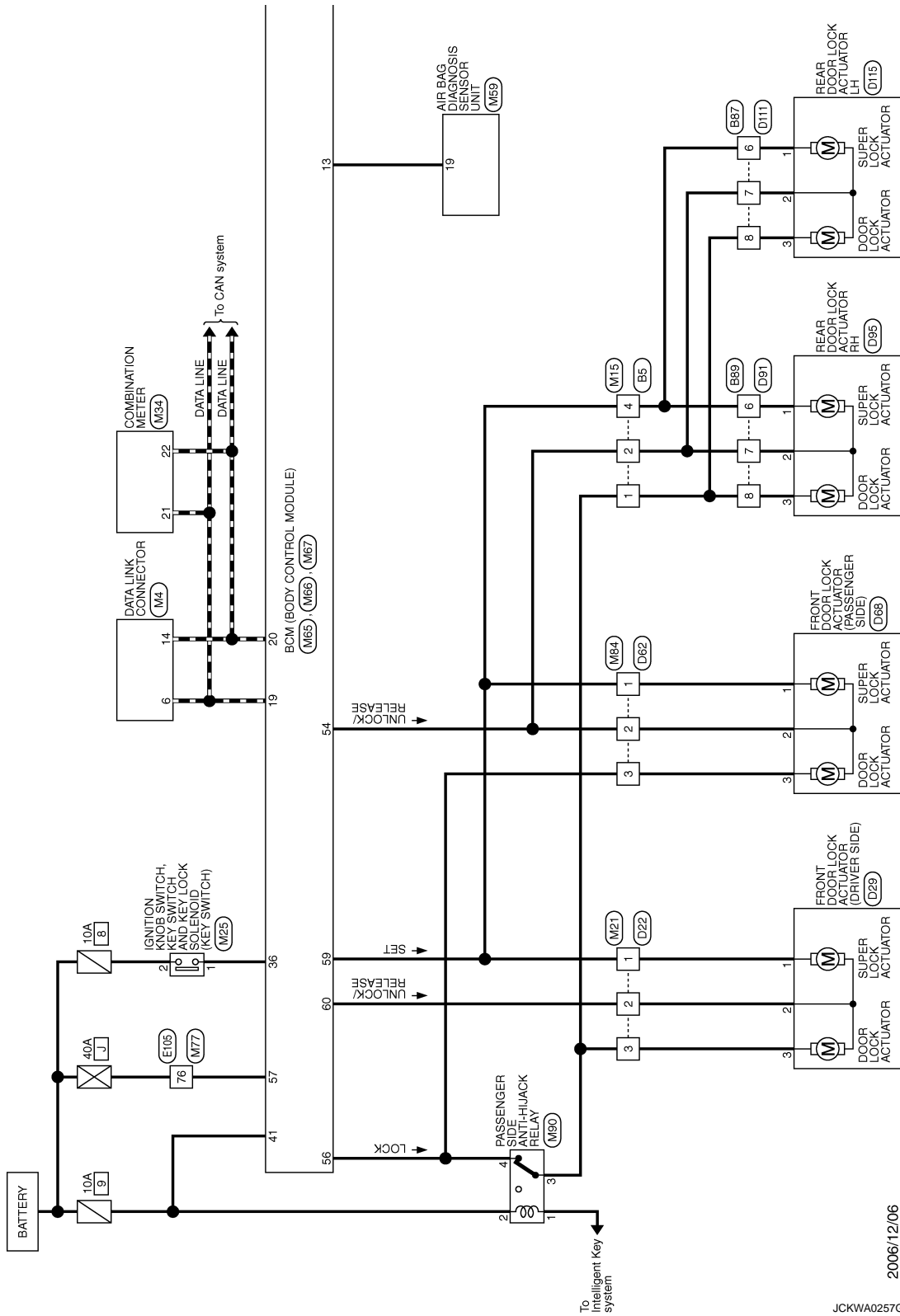
[WITH I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - SUPER LOCK CONTROL SYSTEM -

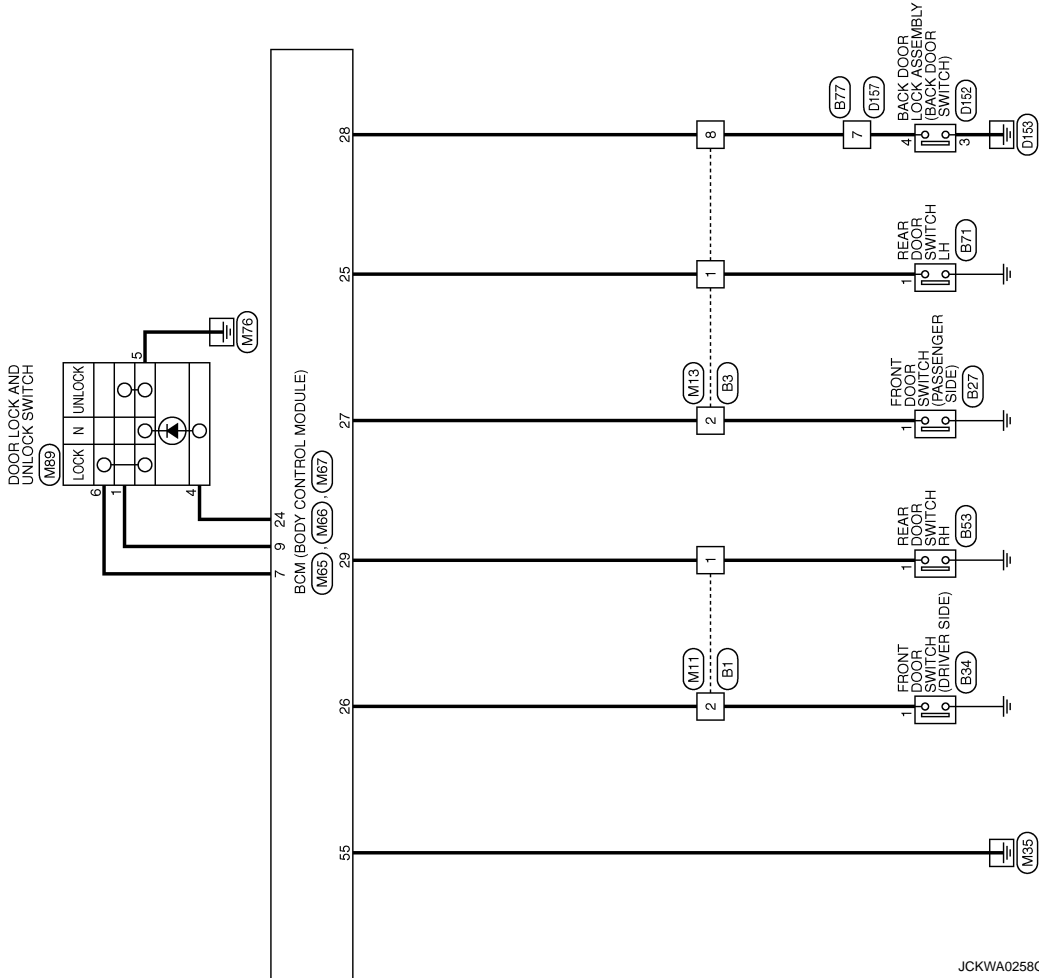
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SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)



2006/12/06

JCKWA0257GE



JCKWA0258GE

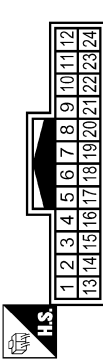
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

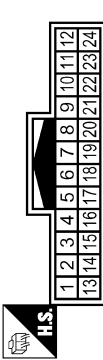
SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



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

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



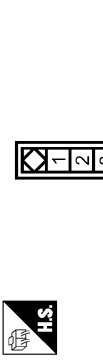
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2	BR	
8	G	-[RHD models]

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	NS30MW-GS



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	
2	O	
4	BR	

Connector No.	B7
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



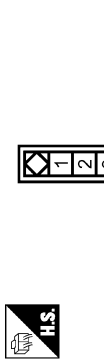
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	

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



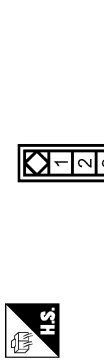
Terminal No.	Color of Wire	Signal Name [Specification]
1	R/W	

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



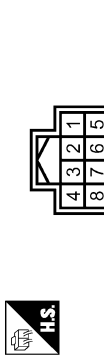
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	

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



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	

JCKWA0259GE

INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



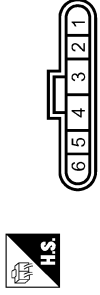
Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Connector No.	D29
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA0FB-FHA2



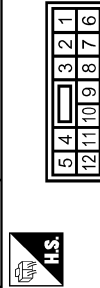
Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

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

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

Connector No.	D32
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



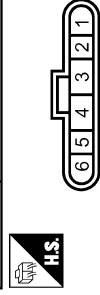
Connector No.	D58
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA0FB-FHA2



Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA0FB-FHA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	Y	-[With Intelligent Key]

Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	Y	-[With Intelligent Key]

Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

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

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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NS09FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	D115
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA04FE-FHA2



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

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CH1CH 49309 EV 4M9



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



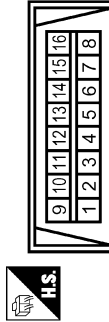
Terminal No.	Color of Wire	Signal Name [Specification]
7	G	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH08MW-NS16-TM4



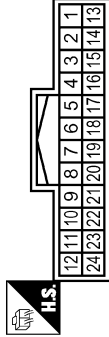
Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	-

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



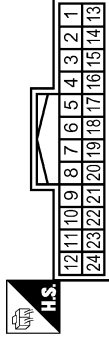
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



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

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	BR	- [RHD models]
8	G	-

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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

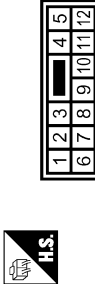
SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



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

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



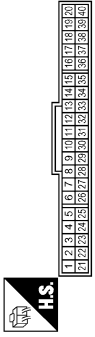
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	GR	-
3	SB	-

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK06MGY



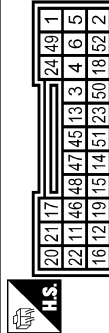
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



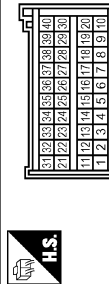
Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M59
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TK38FY-EX-SC



Terminal No.	Color of Wire	Signal Name [Specification]
18	R	UNLOCK

Connector No.	M55
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAB40FB



Terminal No.	Color of Wire	Signal Name [Specification]
7	P	LOCK/UNLOCK SW (LOCK)
9	BR	LOCK/UNLOCK SW (UNLOCK)
13	R	SHOCK DETECT SIG
18	L	CAN-H
20	P	CAN-L
24	GR	DOOR LOCK STATUS IND
25	GR	DOOR SW (FL)
26	R	DOOR SW (DR)
27	BR	DOOR SW (AS)
28	G	DOOR SW (BACK)
29	LG	DOOR SW (RR)

36	V	KEY SW
----	---	--------

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FC121PC122S1017



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

JCKWA0262GE

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]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 211PC063S0017



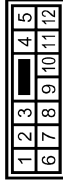
Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER)
55	B	GND(POWER)
56	Y	DOOR LOCK OUTPUT (ALL) [With Intelligent Key]
57	Y	BAT(F/L)
58	BR	SUPER LOCK SET OUTPUT
60	GR	UNLOCK (DR)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH807W-NS16-TM4



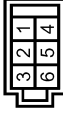
Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	---

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	NS12MM-GS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	---
2	O	---
3	Y	--[With Intelligent Key]

Connector No.	M89
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	7703197674



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	---
4	GR	---
5	B	---
6	P	---

Connector No.	M80
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS38FB-M2



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

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INTELLIGENT KEY UNIT

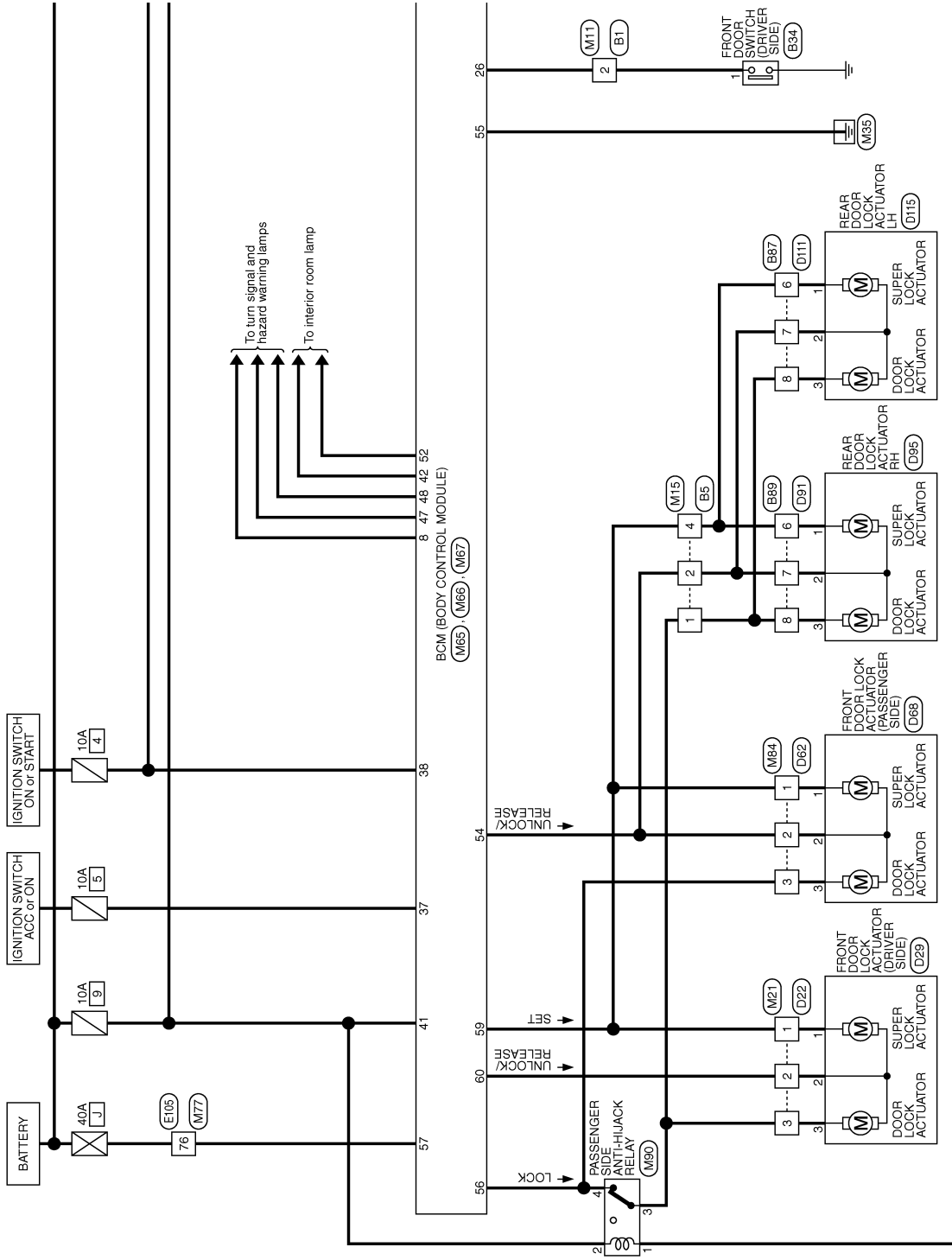
[WITH I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - INTELLIGENT KEY CONTROL SYSTEM -

INFOID:000000001184031

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)



2006/12/08

JCKWA0281GE

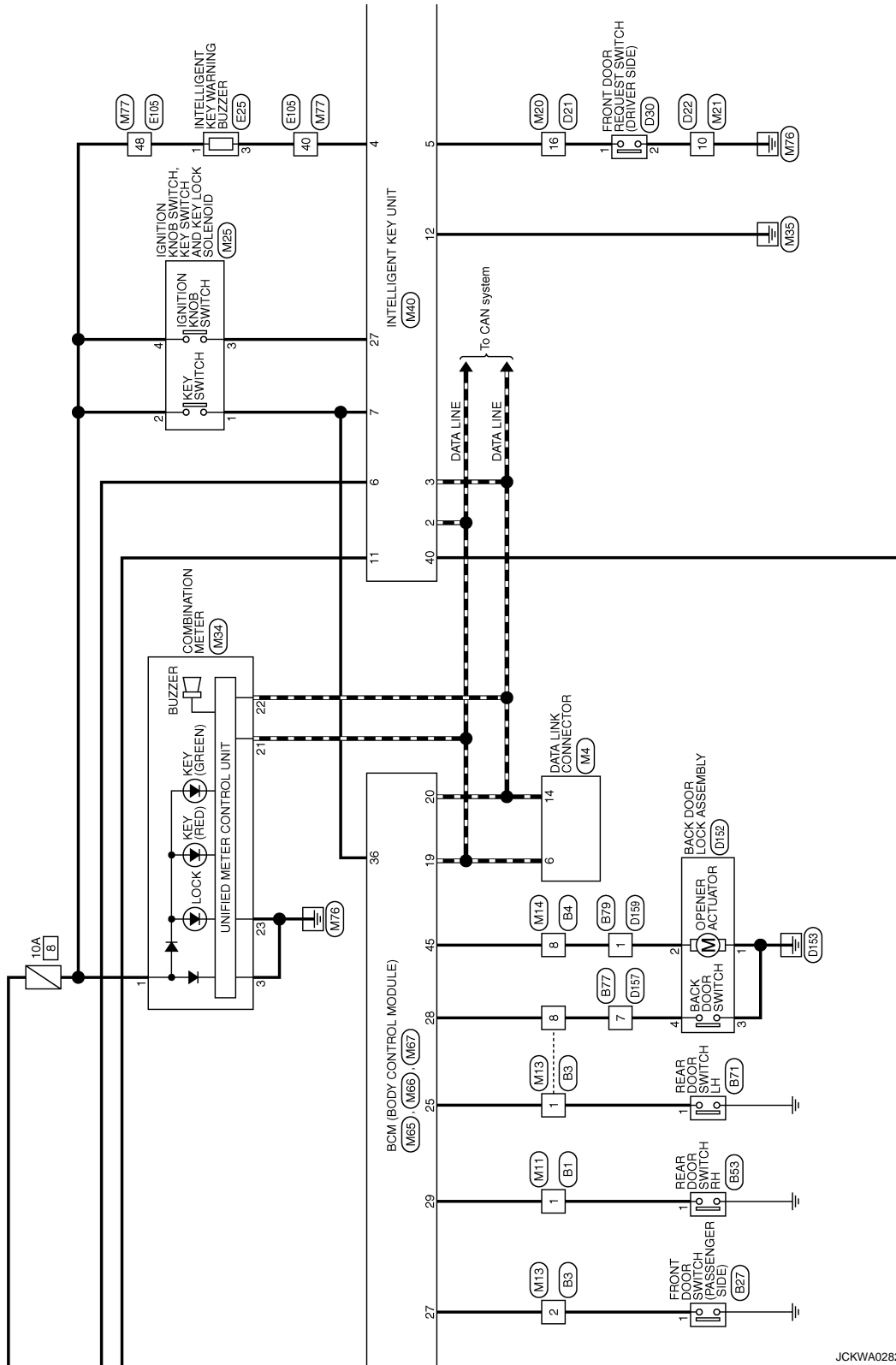
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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

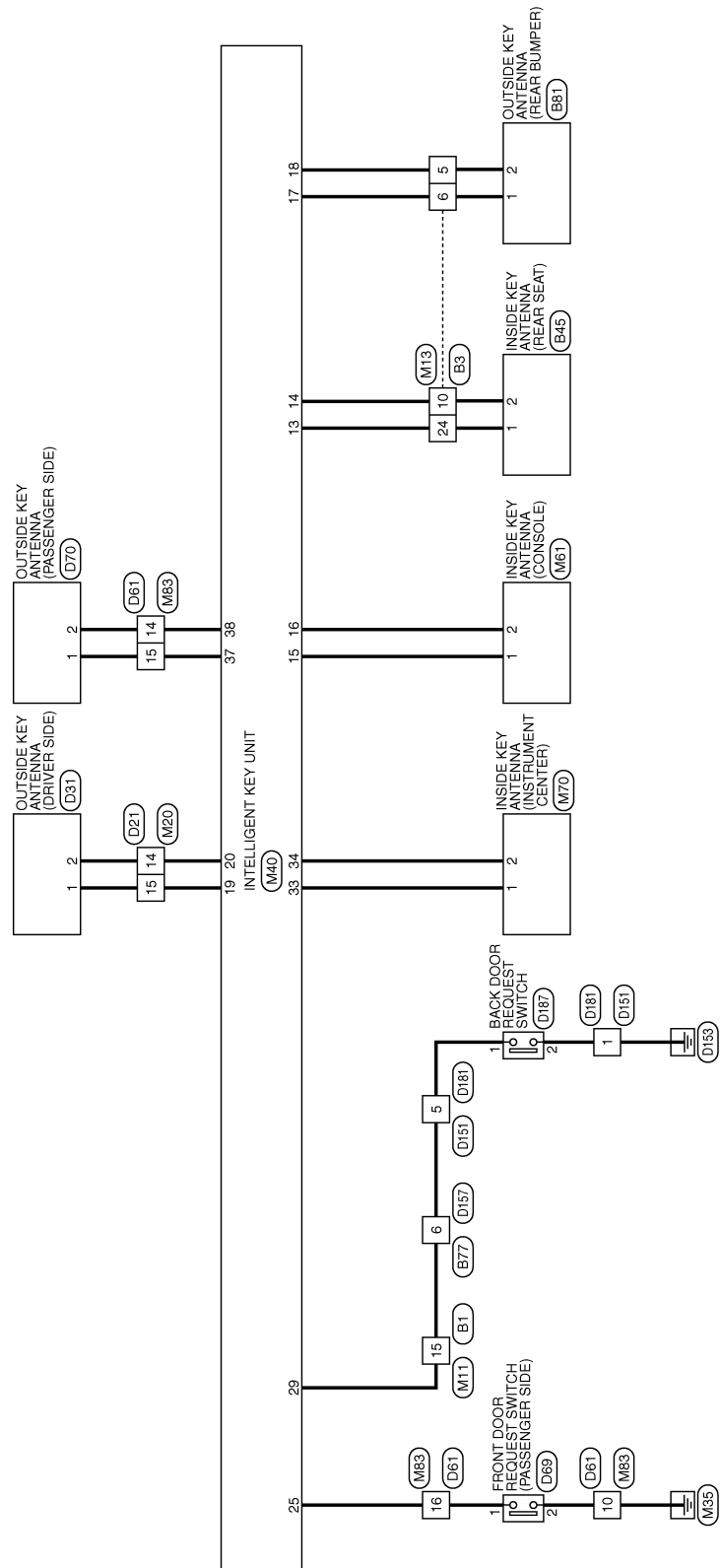


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INTELLIGENT KEY UNIT

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[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)

<table border="1"> <tr><td>Connector No.</td><td>B1</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH24MW</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>LG</td><td>-</td></tr> <tr><td>2</td><td>R/W</td><td>[RHD models]</td></tr> <tr><td>15</td><td>GR</td><td>-</td></tr> </table>	Connector No.	B1	Connector Name	WIRE TO WIRE	Connector Type	TH24MW	Terminal No.	Color of Wire	Signal Name [Specification]	1	LG	-	2	R/W	[RHD models]	15	GR	-	<table border="1"> <tr><td>Connector No.</td><td>B3</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH24MW</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>GR</td><td>-</td></tr> <tr><td>2</td><td>R/W</td><td>[LHD models]</td></tr> <tr><td>5</td><td>V</td><td>-</td></tr> <tr><td>6</td><td>SB</td><td>-</td></tr> <tr><td>8</td><td>G</td><td>-</td></tr> <tr><td>10</td><td>W/R</td><td>-</td></tr> <tr><td>24</td><td>Y</td><td>-</td></tr> </table>	Connector No.	B3	Connector Name	WIRE TO WIRE	Connector Type	TH24MW	Terminal No.	Color of Wire	Signal Name [Specification]	1	GR	-	2	R/W	[LHD models]	5	V	-	6	SB	-	8	G	-	10	W/R	-	24	Y	-	<table border="1"> <tr><td>Connector No.</td><td>B4</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS03MW-CS</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>8</td><td>GR</td><td>-</td></tr> </table>	Connector No.	B4	Connector Name	WIRE TO WIRE	Connector Type	NS03MW-CS	Terminal No.	Color of Wire	Signal Name [Specification]	8	GR	-	<table border="1"> <tr><td>Connector No.</td><td>B5</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS03MW-CS</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>SB</td><td>-</td></tr> <tr><td>2</td><td>O</td><td>-</td></tr> <tr><td>4</td><td>BR</td><td>-</td></tr> </table>	Connector No.	B5	Connector Name	WIRE TO WIRE	Connector Type	NS03MW-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	SB	-	2	O	-	4	BR	-
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<table border="1"> <tr><td>Connector No.</td><td>B27</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SWITCH (PASSENGER SIDE)</td></tr> <tr><td>Connector Type</td><td>A03FW</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>BR</td><td>-</td></tr> </table>	Connector No.	B27	Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)	Connector Type	A03FW	Terminal No.	Color of Wire	Signal Name [Specification]	1	BR	-	<table border="1"> <tr><td>Connector No.</td><td>B34</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SWITCH (DRIVER SIDE)</td></tr> <tr><td>Connector Type</td><td>A03FW</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>R/W</td><td>-</td></tr> </table>	Connector No.	B34	Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)	Connector Type	A03FW	Terminal No.	Color of Wire	Signal Name [Specification]	1	R/W	-	<table border="1"> <tr><td>Connector No.</td><td>B45</td></tr> <tr><td>Connector Name</td><td>INSIDE KEY ANTENNA (REAR SEAT)</td></tr> <tr><td>Connector Type</td><td>RK02FGY</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>Y</td><td>-</td></tr> <tr><td>2</td><td>W/R</td><td>-</td></tr> </table>	Connector No.	B45	Connector Name	INSIDE KEY ANTENNA (REAR SEAT)	Connector Type	RK02FGY	Terminal No.	Color of Wire	Signal Name [Specification]	1	Y	-	2	W/R	-	<table border="1"> <tr><td>Connector No.</td><td>B53</td></tr> <tr><td>Connector Name</td><td>REAR DOOR SWITCH RH</td></tr> <tr><td>Connector Type</td><td>A03FW</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>LG</td><td>-</td></tr> </table>	Connector No.	B53	Connector Name	REAR DOOR SWITCH RH	Connector Type	A03FW	Terminal No.	Color of Wire	Signal Name [Specification]	1	LG	-																											
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Connector No.	B45																																																																																
Connector Name	INSIDE KEY ANTENNA (REAR SEAT)																																																																																
Connector Type	RK02FGY																																																																																
Terminal No.	Color of Wire	Signal Name [Specification]																																																																															
1	Y	-																																																																															
2	W/R	-																																																																															
Connector No.	B53																																																																																
Connector Name	REAR DOOR SWITCH RH																																																																																
Connector Type	A03FW																																																																																
Terminal No.	Color of Wire	Signal Name [Specification]																																																																															
1	LG	-																																																																															

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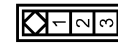
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

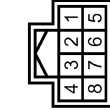
INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

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



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	GR	-
7	GR	-
8	G	-

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC



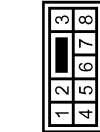
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	GR	-

Connector No.	B81
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY



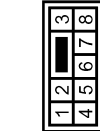
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	V	-

Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



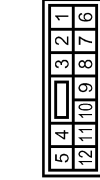
Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TK16FW



Terminal No.	Color of Wire	Signal Name [Specification]
14	BR/W	-
15	L/Y	-
16	P	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



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

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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	D29
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA04FB-FHA2



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

Connector No.	D30
Connector Name	FRONT DOOR REQUEST SWITCH (DRIVER SIDE)
Connector Type	RK02ML-B



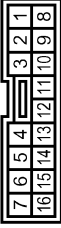
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	B	-

Connector No.	D31
Connector Name	OUTSIDE KEY ANTENNA (DRIVER SIDE)
Connector Type	RK02MGY



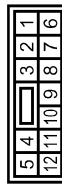
Terminal No.	Color of Wire	Signal Name [Specification]
1	L/Y	-
2	BR/W	-

Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	TK16FW



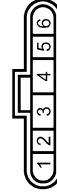
Terminal No.	Color of Wire	Signal Name [Specification]
10	B	-
14	O	-
15	L	-
16	B/R	-

Connector No.	D62
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	Y	-[With Intelligent Key]

Connector No.	D68
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	Y	-[With Intelligent Key]

Connector No.	D69
Connector Name	FRONT DOOR REQUEST SWITCH (PASSENGER SIDE)
Connector Type	RK02ML-B



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

Connector No.	D70
Connector Name	OUTSIDE KEY ANTENNA (PASSENGER SIDE)
Connector Type	RK02MGY



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

INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	D91
Connector Name	WIRE TO WIRE
Connector Type	NSDBFW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	D95
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA04FB-FHA2



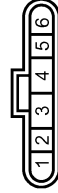
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	SB	-

Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NSDBFW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	D115
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA04FB-FHA2



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

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
5	GR	-

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CINCH 48309 EV 4M8



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
6	GR	-
7	G	-

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	MD2MW-LC



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

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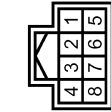
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
5	GR	-

Connector No.	D187
Connector Name	BACK DOOR REQUEST SWITCH
Connector Type	RK02FGY



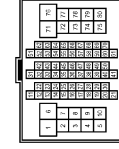
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	B	-

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



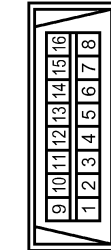
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	LG/B	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



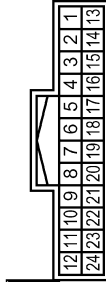
Terminal No.	Color of Wire	Signal Name [Specification]
40	LG/B	-
48	Y	-
76	Y	-

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



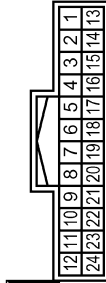
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



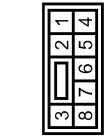
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R	- [RHD models]
15	GR	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	BR	- [RHD models]
5	V	-
6	SB	-
8	G	-
10	W	-
24	Y	-

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



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

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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Type	NS09FW-CS



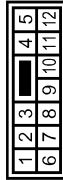
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	O	-
4	BR	-

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TK18MW



Terminal No.	Color of Wire	Signal Name [Specification]
14	BR	-
15	L	-
16	P	-

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



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

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK09MGY



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

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB4QFW



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	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	TH4QFW



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	CAN-H
3	P	CAN-L
4	LG	BUZZER
5	P	REQUEST SW (DR)
6	W	IGN SW
7	V	KEY SW
11	V	BATT+
12	B	GND
13	Y	REAR SEAT (+)
14	W	REAR SEAT (-)
15	SB	CONSOLE (+)

16	BR	CONSOLE (-)
17	SB	REAR BUMPER (+)
18	V	REAR BUMPER (-)
19	L	DRIVER DOOR (+)
20	BR	DRIVER DOOR (-)
25	BR	REQUEST SW (AS)
27	L	KNOB SW
28	GR	REQUEST SW (BD)
33	O	INSTRUMENT (+)
34	G	INSTRUMENT (-)
37	L	PASSENGER DOOR (+)
38	O	PASSENGER DOOR (-)
40	Y	AS ANTI-HIJACK

Connector No.	M61
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	BR	-

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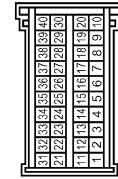
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

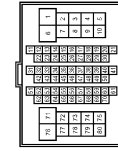
INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	M65
Connector Name	SCM BODY CONTROL MODULE
Connector Type	AA84CFB



Terminal No.	Color of Wire	Signal Name [Specification]
8	LG	HAZARD SW
19	L	CAN-H
20	P	CAN-L
25	GR	DOOR SW (RL)
26	R	DOOR SW (DR)
27	BR	DOOR SW (AS)
28	G	DOOR SW (BACK)
28	LG	DOOR SW (FR)
36	V	KEY SW
37	R	ACC SW
38	W	IGN SW

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH83FW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
40	LG	-
48	Y	-
76	Y	-

Connector No.	M66
Connector Name	SCM BODY CONTROL MODULE
Connector Type	FC121PG12S1017



Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BAT(F)USE
42	V	ROOM LAMP POWER SUPPLY
45	GR	BACK DOOR OPENER
47	G/Y	FLASHER OUTPUT (LEFT)
48	G/B	FLASHER OUTPUT (RIGHT)
52	R	ROOM LAMP OUTPUT

Connector No.	M83
Connector Name	WIRE TO WIRE
Connector Type	TK (BMW)



Terminal No.	Color of Wire	Signal Name [Specification]
10	B	-
14	O	-
15	L	-
16	BR	-

Connector No.	M67
Connector Name	SCM BODY CONTROL MODULE
Connector Type	FC121PG08S30017



Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER)
55	B	GND(POWER)
56	Y	DOOR LOCK OUTPUT (ALL) [With Intelligent Key]
57	Y	BAT(F)L
59	BR	SUPER LOCK SET OUTPUT
60	GR	UNLOCK (DR)

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



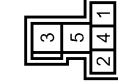
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	Y	- [With Intelligent Key]

Connector No.	M70
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FGY



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

Connector No.	M90
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS03FB-MZ



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

INTELLIGENT KEY UNIT

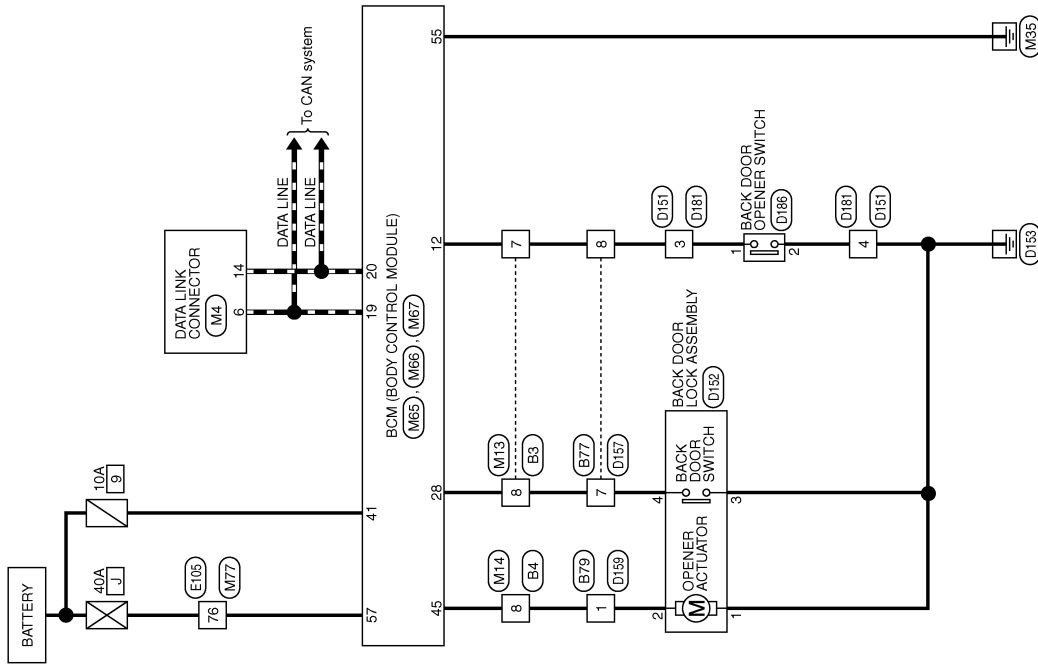
[WITH I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

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BACK DOOR OPENER SYSTEM



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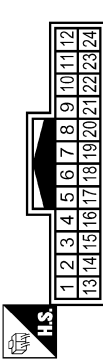
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



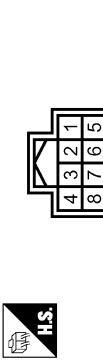
Terminal No.	Color of Wire	Signal Name [Specification]
7	P	
8	G	

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	
8	P	

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC



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

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
3	P	
4	B	

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CINCH 49309 EV 4M9



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	
8	P	

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC



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

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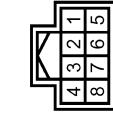
INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SYSTEM

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



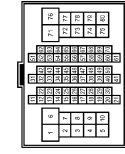
Terminal No.	Color of Wire	Signal Name [Specification]
3	P	
4	B	

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	RK02MGY



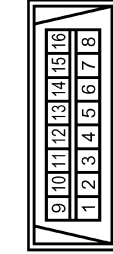
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	
2	B	

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MVF-NS16-TM4



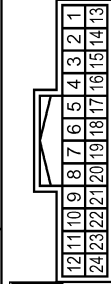
Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	

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



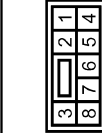
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
14	P	

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	P	
8	G	

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



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

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	JAN60FB



Terminal No.	Color of Wire	Signal Name [Specification]
12	P	TRUNK/BACK DOOR OPEN SW
19	L	CAN-H
20	P	CAN-L
28	G	DOOR SW (BACK)

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FC1211PC122S1017



Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BAT(FUSE)
45	GR	BACK DOOR OPENER

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INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SYSTEM

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 211PC083S0017



Terminal No.	Color of Wire	Signal Name [Specification]
55	B	GND(POWER)
57	Y	BAT(+/L)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH807W-NS16-TM4



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

JCKWA0298GE

INTELLIGENT KEY UNIT

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Fail Safe

INFOID:000000001559821

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:000000001559821

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:000000001559822

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 SEC-33
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: NATS MALFUNCTION	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-55

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000001559399

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	
ACC ON SW	Ignition switch OFF	Off	
	Ignition switch ACC or ON	On	
AIR COND SW	A/C switch OFF	Off	
	A/C switch ON	On	
AUT LIGHT SYS	Outside of the room is bright	Off	
	Outside of the room is dark	On	
AUTO LIGHT SW	Lighting switch OFF	Off	
	Lighting switch AUTO	On	
AUTO RELOCK	Auto lock function does not operate	Off	
	Auto lock function is operating	On	
BACK DOOR SW	Back door closed	Off	
	Back door opened	On	
BATTERY VOLT NOTE: Diesel engine models only	Ignition switch ON	Approximately the same as power supply voltage	
BRAKE SW	Brake pedal is not depressed	Off	
	Brake pedal is depressed	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-AS	Passenger door closed	Off	
	Passenger door opened	On	
DOOR SW-DR	Driver door closed	Off	
	Driver door opened	On	
DOOR SW-RL	Rear LH door closed	Off	
	Rear LH door opened	On	
DOOR SW-RR	Rear RH door closed	Off	
	Rear RH door opened	On	
ELEC PWR CUT NOTE: Diesel engine models only	Engine running	Fan switch ON (when engine coolant is cool) NOTE: Depending on the ambient temperature, battery voltage, etc.	Off
		The current status maintained with the signal from ECM received.	FREEZ
		<ul style="list-style-type: none"> Fan switch OFF Fan switch ON after engine warming UP NOTE: Depending on the engine coolant temperature, ambient temperature, battery voltage, etc.	INHBT

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Monitor Item	Condition	Value/Status
ENG COOLNT T NOTE: Diesel engine models only	Engine running	Approximately the same as water temperature gauge reading
ENGINE RPM NOTE: Diesel engine models only	Engine running	Approximately the same as tachometer reading
ENGINE RUN	Engine stopped	Off
	Engine running	On
ENGINE STATUS NOTE: Diesel engine models only	Engine stopped	STOP
	While the engine stalls	STALL
	Engine running	RUN
	At engine cranking	CRA
FAN ON SIG	Fan switch OFF	Off
	Fan switch ON	On
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER LOW	Front wiper switch OFF	Off
	Front wiper switch LO	On
FR WIPER HI	Front wiper switch OFF	Off
	Front wiper switch HI	On
FR WIPER INT	Front wiper switch OFF	Off
	Front wiper switch INT	On
FR WIPER STOP	Any position other than front wiper stop position	Off
	Front wiper stop position	On
GLS BREAK SEN	The vehicle without glass break sensor	On
	The vehicle with glass break sensor	Off
HAZARD SW	When hazard switch is not pressed	Off
	When hazard switch is pressed	On
HD LIGHT TIME	—	Displays a setting time of the follow me home function set by the work support
HEAD LAMP SW 1	Lighting switch OFF	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Lighting switch OFF	Off
	Lighting switch 2ND	On
HI BEAM SW	Lighting switch OFF	Off
	Lighting switch HI	On
HOOD SW	Close the hood NOTE: Vehicles without theft warning system are OFF-fixed	Off
	Open the hood	On
H/L WASH SW	NOTE: The item is indicated, but not monitored	Off

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Monitor Item	Condition	Value/Status
IGN ON SW	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
IGN SW CAN	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
I-KEY LOCK	LOCK button of Intelligent Key is not pressed	Off
	LOCK button of Intelligent Key is pressed	On
I-KEY UNLOCK	UNLOCK button of Intelligent Key is not pressed	Off
	UNLOCK button of Intelligent Key is pressed	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
	Mechanical key is inserted to key cylinder	On
KEYLESS LOCK	LOCK button of key fob is not pressed	Off
	LOCK button of key fob is pressed	On
KEY LESS PANIC	NOTE: The item is indicated, but not monitored	Off
KEYLESS UNLOCK	UNLOCK button of key fob is not pressed	Off
	UNLOCK button of key fob is pressed	On
LIT-SEN FAIL	Light & rain sensor is in normal condition	OK
	Light & rain sensor is with internal error	NOT OK
MEMORY 1	Key fob ID code is not registered in "Memory 1"	Off
	Key fob ID code is registered in "Memory 1"	On
MEMORY 2	Key fob ID code is not registered in "Memory 2"	Off
	Key fob ID code is registered in "Memory 2"	On
MEMORY 3	Key fob ID code is not registered in "Memory 3"	Off
	Key fob ID code is registered in "Memory 3"	On
MEMORY 4	Key fob ID code is not registered in "Memory 4"	Off
	Key fob ID code is registered in "Memory 4"	On
MEMORY 5	Key fob ID code is not registered in "Memory 5"	Off
	Key fob ID code is registered in "Memory 5"	On
OIL PRESS SW	<ul style="list-style-type: none"> • Ignition switch OFF or ACC • Engine running 	Off
	Ignition switch ON	On
OUT SIDE TEMP NOTE: Diesel engine models	Ignition switch ON	Approximately the same as outside air temperature
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
REVERSE SW CAN	Except selector lever R position	Off
	Selector lever R position	On
PUSH SW	Return to ignition switch to LOCK position	Off
	Press ignition switch	On
REAR DEF SW	Rear window defogger switch OFF	Off
	Rear window defogger switch ON	On
RR FOG SW	Rear fog lamp switch OFF	Off
	Rear fog lamp switch ON	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Monitor Item	Condition	Value/Status	
RR WASHER SW	Rear washer switch OFF	Off	A
	Rear washer switch ON	On	
RR WIPER INT	Rear wiper switch OFF	Off	B
	Rear wiper switch INT	On	
RR WIPER ON	Rear wiper switch OFF	Off	C
	Rear wiper switch ON	On	
RR WIPER STOP	Rear wiper stop position	Off	D
	Other than rear wiper stop position	On	
SHOCK SENSOR	Ignition switch ON	NOMAL	E
	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	
TAIL LAMP SW	Lighting switch OFF	Off	F
	Lighting switch 1ST	On	
TRNK OPNR SW	When back door opener switch is not pressed	Off	G
	When back door opener switch is pressed	On	
TURN SIGNAL L	Turn signal switch OFF	Off	H
	Turn signal switch LH	On	
TURN SIGNAL R	Turn signal switch OFF	Off	I
	Turn signal switch RH	On	
UNLOCK SHOCK	Other than the following	Off	J
	During the unlock operation interlocked with air bag	On	
VEHICLE SPEED	While driving	Equivalent to speedometer reading	

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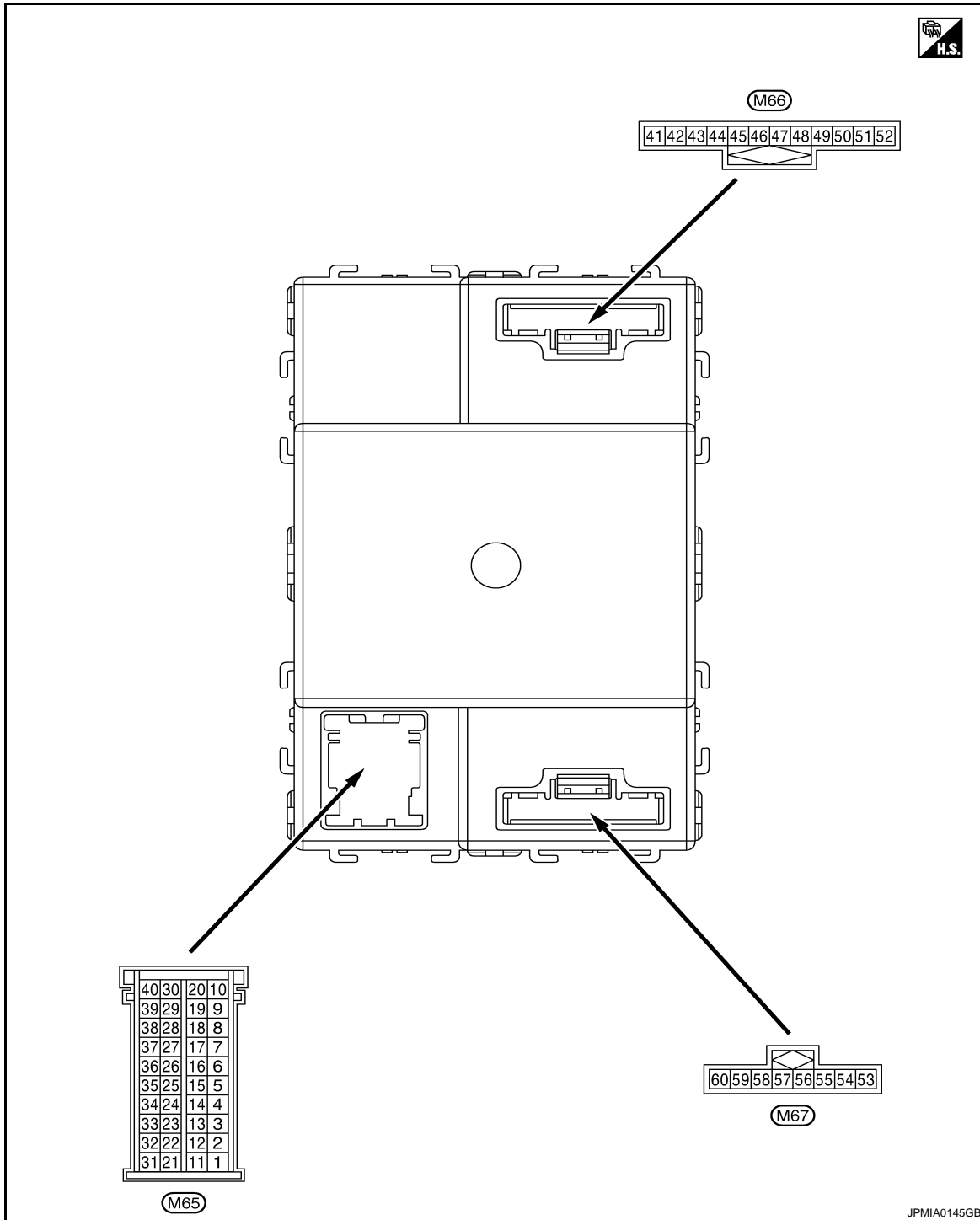
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

TERMINAL LAYOUT



PHYSICAL VALUES

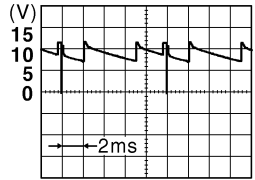
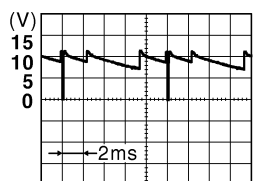
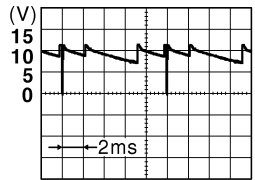
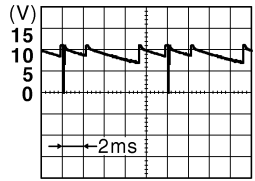
CAUTION:

- 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-27, "COMB SW : CONSULT-III Function \(BCM - COMB SW\)"](#).
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to [BCS-10, "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 (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)	
					Rear wiper switch INT (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 	
2 (Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Lighting switch 2ND	
					Lighting switch PASS	
					Front fog lamp switch ON	
					Turn signal switch LH	
3 (LG)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Lighting switch AUTO	
					Rear fog lamp switch OFF	
					Front wiper switch MIST	
					Front wiper switch INT	
					Front wiper switch LO	
4 (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)	
					Rear wiper switch ON (Wiper intermittent dial 4)	
					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 	9.1 V					

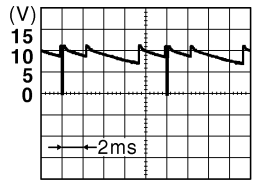
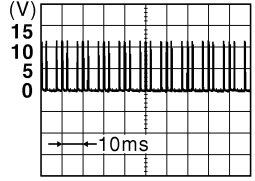
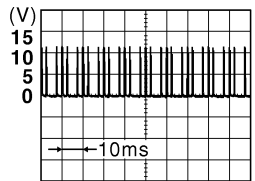
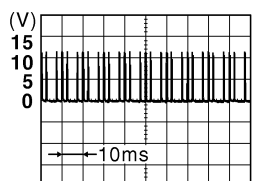
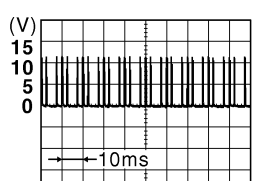
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BCM (BODY CONTROL MODULE)

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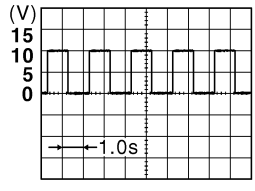
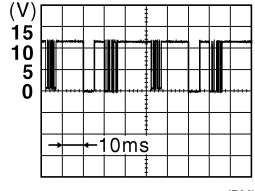
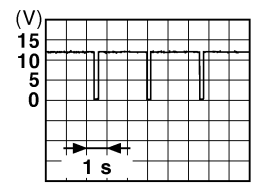
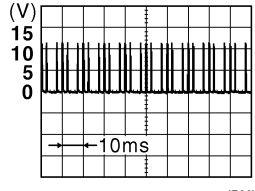
[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
5 (W)	Ground	Combination switch OUTPUT 5	Output	All switch OFF	0 V
				Lighting switch 1ST	 <p style="text-align: right; font-size: small;">JPMIA0164GB</p>
				Lighting switch 2ND	
				Lighting switch HI	
				Turn signal switch RH	
7 (P)	Ground	Door lock/unlock switch (Lock)	Input	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
				Pressed to the lock side	0 V
8 (LG)	Ground	Hazard switch	Input	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
				Pressed	0 V
9 (BR)	Ground	Door lock/unlock switch (Unlock)	Input	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
				Pressed to the unlock side	0 V
12 (P)	Ground	Back door opener switch	Input	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
				Pressed	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
13 (R)	Ground	Shock detect sensor	Input	Ignition switch OFF or ACC		0 V
				Ignition switch ON		 <p style="text-align: center;">6.0 V</p>
14 (L/R)	Ground	A/C switch	Input	A/C switch	Not pressed	Battery voltage
					Pressed	0 V
15 (LG/B)	Ground	Fan switch	Input	Fan switch	Not pressed	Battery voltage
					Pressed	0 V
16 (GR)	Ground	Alarm link	Output	—		—
17 (BR)	Ground	Light & rain sensor serial link	Input/ Output	Ignition switch OFF or ACC		Battery voltage
				Ignition switch ON		 <p style="text-align: center;">8.7 V</p>
18 (SB)	Ground	Security indicator	Output	Security indica- tor	ON	0 V
					Blinking	 <p style="text-align: center;">10.3 V</p>
					OFF	Battery voltage
19 (L)	—	CAN-H	Input/ Output	—		—
20 (P)	—	CAN-L	Input/ Output	—		—
21 (SB)	Ground	Rear window defog- ger switch	Input	Rear window defogger switch	Not pressed	 <p style="text-align: center;">1.1 V</p>
					While pressing	0 V

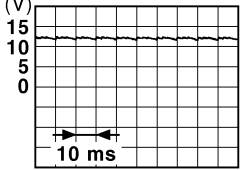
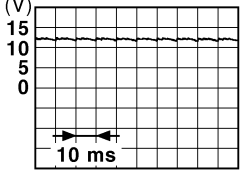
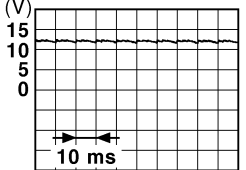
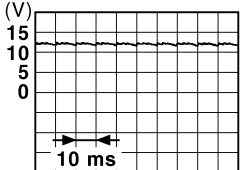
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BCM (BODY CONTROL MODULE)

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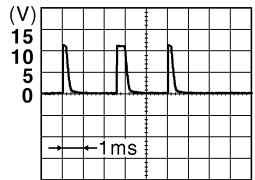
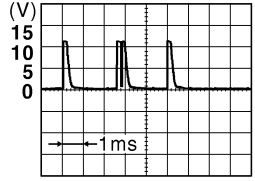
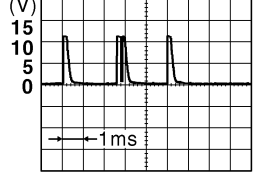
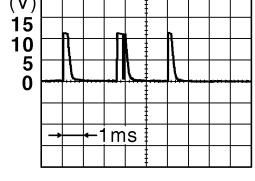
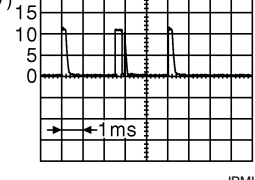
[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
24 (GR)	Ground	Door lock status indicator	Output	Door lock status indicator	ON	Battery voltage
					OFF	0 V
25 (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>
					ON (When rear door LH opened)	0 V
26 (R)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	 <p style="text-align: right; font-size: small;">PKID0924E</p>
					ON (When driver door opened)	0 V
27 (BR)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	 <p style="text-align: right; font-size: small;">PKID0924E</p>
					ON (When passenger door opened)	0 V
28 (G)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	Battery voltage
					ON (When back door opened)	0 V
29 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	 <p style="text-align: right; font-size: small;">PKID0924E</p>
					ON (When rear door RH opened)	0 V
30 (SB)	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			
31 (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>

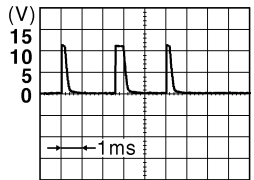
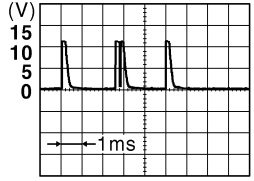
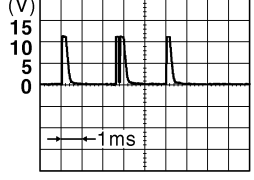
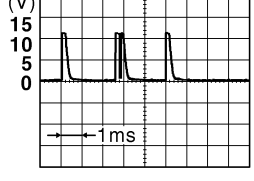
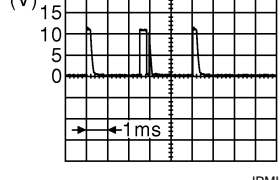
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BCM (BODY CONTROL MODULE)

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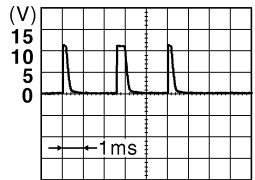
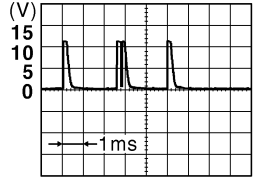
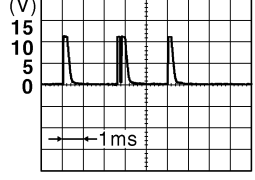
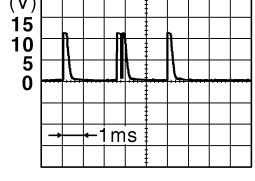
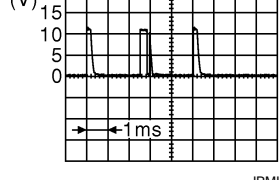
[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
32 (G)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	 <p style="text-align: right; margin-right: 50px;">1.4 V</p>
					Lighting switch PASS	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Lighting switch 2ND	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Front wiper switch INT	 <p style="text-align: right; margin-right: 50px;">1.3 V</p>
					Front wiper switch HI	 <p style="text-align: right; margin-right: 50px;">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			
33 (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 LH	 <p style="text-align: right;">1.3 V <small>JPMIA0167GB</small></p>
					Turn signal switch RH	 <p style="text-align: right;">1.3 V <small>JPMIA0166GB</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>

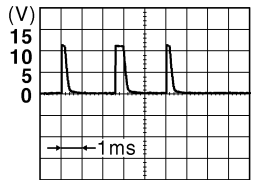
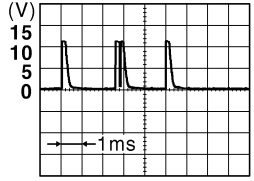
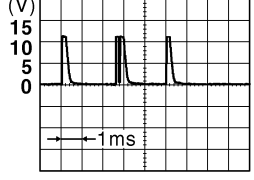
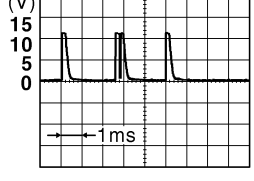
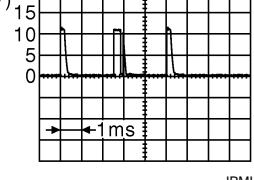
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BCM (BODY CONTROL MODULE)

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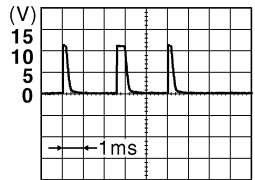
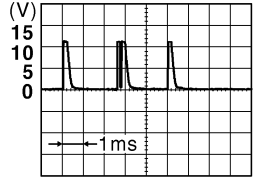
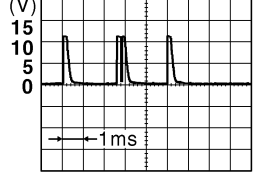
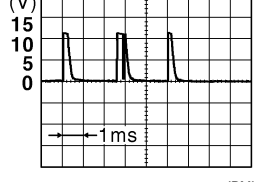
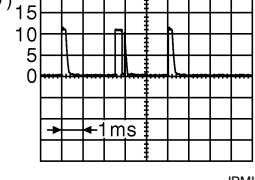
[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
34 (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 AUTO (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0167GB</p> <p style="text-align: center;">1.3 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>
					Rear wiper INT (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0167GB</p> <p style="text-align: center;">1.3 V</p>
					Any of the condition below with all switch OFF	 <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			
35 (L)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <small>JPMIA0165GB</small> 1.4 V
					Lighting switch HI (Wiper intermittent dial 4)	 <small>JPMIA0166GB</small> 1.3 V
					Lighting switch 2ND (Wiper intermittent dial 4)	 <small>JPMIA0167GB</small> 1.3 V
					Rear wiper switch ON	 <small>JPMIA0169GB</small> 1.3 V
					Any of the condition below with all switch OFF	 <small>JPMIA0196GB</small> 1.3 V
36 (V)	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder	Battery voltage	
				Remove mechanical key from ignition key cylinder	0 V	
37 (R)	Ground	ACC power supply	Input	Ignition switch OFF	0 V	
				Ignition switch ACC or ON	Battery voltage	
38 (W)	Ground	Ignition power supply	Input	Ignition switch OFF or ACC	0 V	
				Ignition switch ON	Battery voltage	

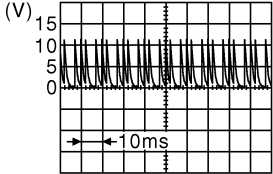
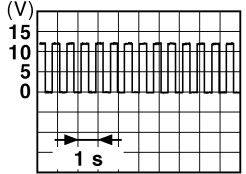
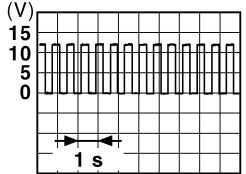
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
39 (P)	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
40 (LG)	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
41 (V)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
42 (V)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time	0 V
				Any other time after passing the interior room lamp battery saver operation time	Battery voltage
43 (L)	Ground	Rear wiper motor	Output	Rear wiper switch OFF	0 V
				Rear wiper switch ON	Battery voltage
44 (L/W)	Ground	Rear wiper auto stop	Input	Rear wiper stop position	0 V
				Ignition switch ON Any position other than rear wiper stop position	 <p style="text-align: right; font-size: small;">JPMIA0197GB</p>
45 (GR)	Ground	Back door lock actuator	Output	Back door opener switch	Pressed
				Not pressed	Battery voltage (300ms) 0 V
47 (G/Y)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch OFF
				Turn signal switch LH	 <p style="text-align: right; font-size: small;">PKID0926E</p>
48 (G/B)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch OFF
				Turn signal switch RH	 <p style="text-align: right; font-size: small;">PKID0926E</p>
49 (Y)	Ground	Rear fog lamp	Output	Lighting switch 1ST and front fog lamp switch ON	Rear fog lamp switch OFF
				Rear fog lamp switch ON	0 V Battery voltage
51 (R/W)*1 (R)*2	Ground	Stop lamp switch	Input	Depress the brake pedal	Battery voltage
				Release the brake pedal	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			
52 (R)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0 V
53 (L)	Ground	Power window power supply	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
54 (O)	Ground	Door unlock (All)	Output	Door lock/unlock switch	Pressed to the unlock side	Battery voltage
					Pressed to the lock side	0 V
55 (B)	Ground	Ground	—	Ignition switch ON		0 V
56 (Y) ^{*1} (SB) ^{*2}	Ground	Door lock (All)	Output	Door lock/unlock switch	Pressed to the unlock side	0 V
					Pressed to the lock side	Battery voltage
57 (Y)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
58 (P)	Ground	Power window power supply	Output	Ignition switch OFF		Battery voltage
59 (BR)	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		Battery voltage
60 (GR)	Ground	Driver door unlock	Output	Door lock/unlock switch	Pressed to the unlock side	Battery voltage
					Pressed to the lock side	0 V

*1: With Intelligent Key system

*2: Without Intelligent Key system

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BCM (BODY CONTROL MODULE)

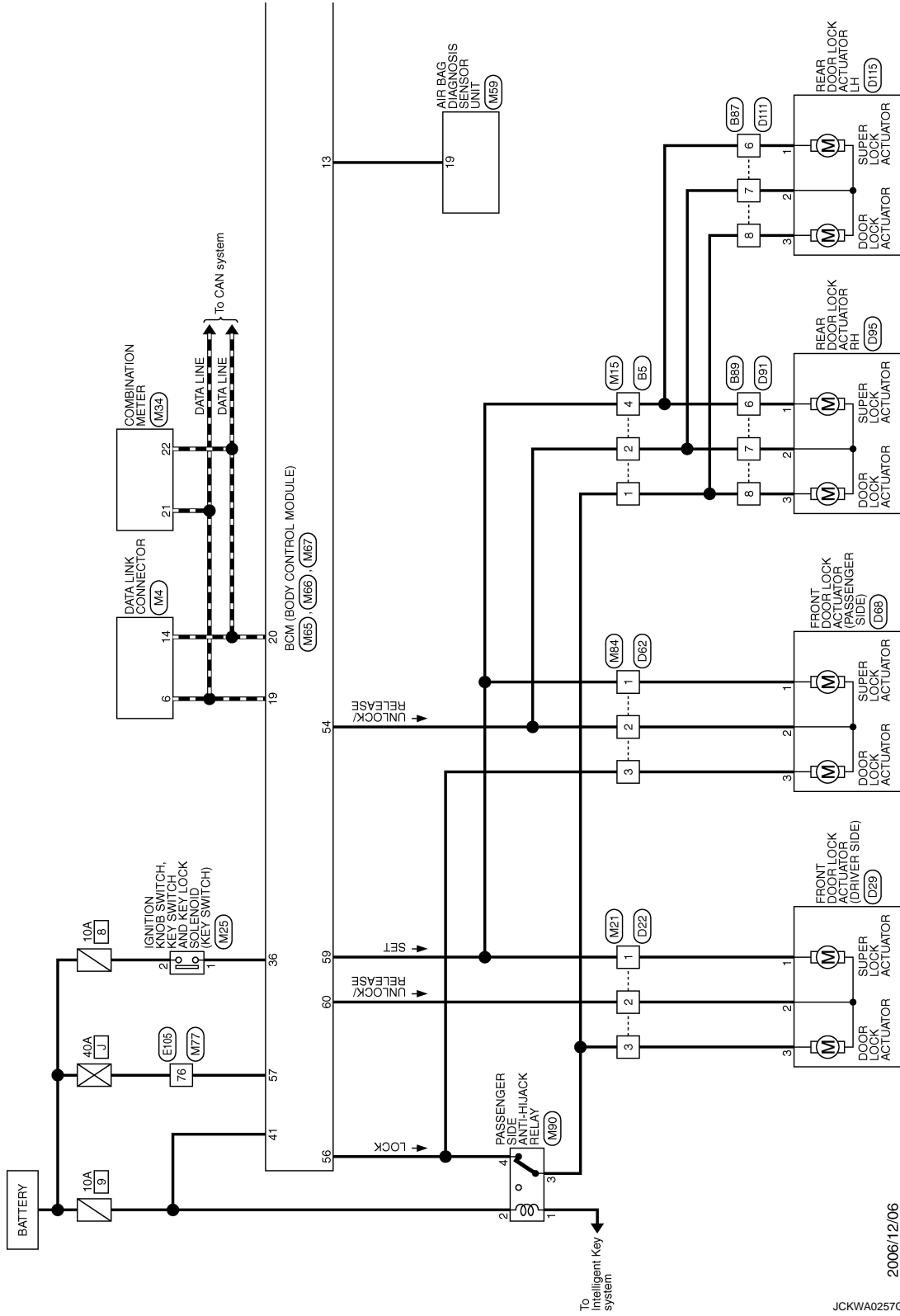
[WITH I-KEY & SUPER LOCK]

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Wiring Diagram - SUPER LOCK CONTROL SYSTEM -

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SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)



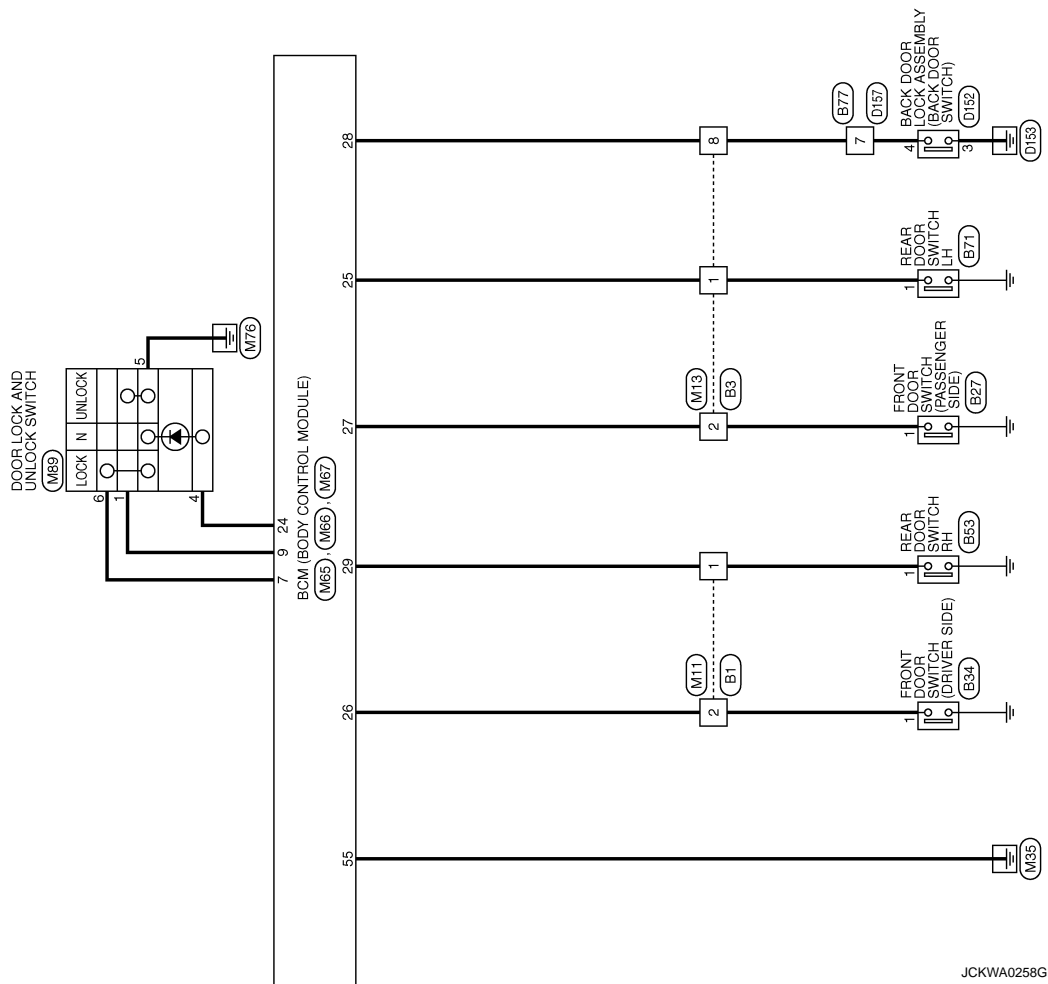
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BCM (BODY CONTROL MODULE)

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[WITH I-KEY & SUPER LOCK]



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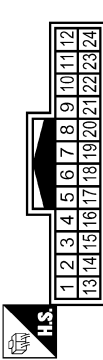
BCM (BODY CONTROL MODULE)

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[WITH I-KEY & SUPER LOCK]

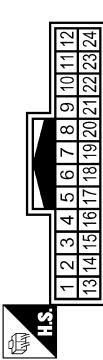
SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



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

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



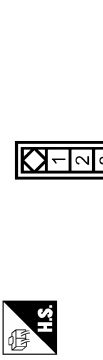
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2	BR	
8	G	-[RHD models]

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	NS30MW-GS



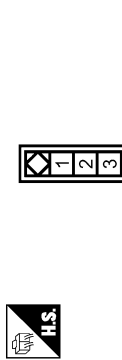
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	
2	O	
4	BR	

Connector No.	B7
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



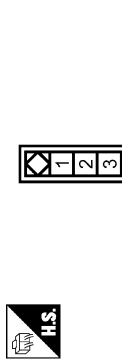
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	

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



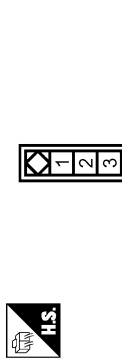
Terminal No.	Color of Wire	Signal Name [Specification]
1	R/W	

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



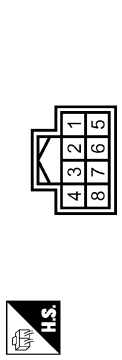
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	

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



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	

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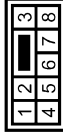
BCM (BODY CONTROL MODULE)

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[WITH I-KEY & SUPER LOCK]

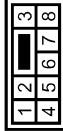
SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



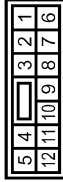
Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



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

Connector No.	D29
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA0FB-FHA2



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

Connector No.	D32
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	Y	-[With Intelligent Key]

Connector No.	D58
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA0FB-FHA2



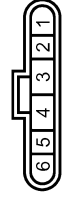
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	Y	-[With Intelligent Key]

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA0FB-FHA2



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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NS98FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	D115
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA04FE-FHA2



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

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CH1CH 49309 EV 4M9



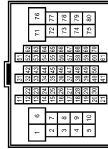
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-
4	G	-

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



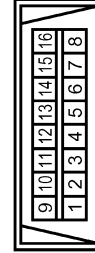
Terminal No.	Color of Wire	Signal Name [Specification]
7	G	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH08MW-NS16-TM4



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

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



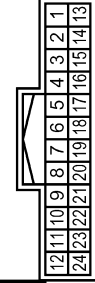
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



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

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	BR	- [RHD models]
8	G	-

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BCM (BODY CONTROL MODULE)

[WITH I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



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

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



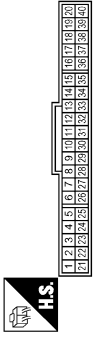
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	GR	-
3	SB	-

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK06MGY



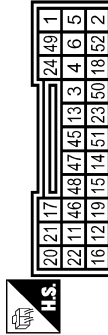
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



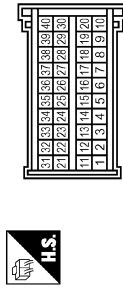
Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M59
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TK38FY-EX-SC



Terminal No.	Color of Wire	Signal Name [Specification]
19	R	UNLOCK

Connector No.	M55
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAB40FB



Terminal No.	Color of Wire	Signal Name [Specification]
7	P	LOCK/UNLOCK SW (LOCK)
9	BR	LOCK/UNLOCK SW (UNLOCK)
13	R	SHOCK DETECT SIG
18	L	CAN-H
20	P	CAN-L
24	GR	DOOR LOCK STATUS IND
25	GR	DOOR SW (FL)
26	R	DOOR SW (DR)
27	BR	DOOR SW (AS)
28	G	DOOR SW (BACK)
29	LG	DOOR SW (RR)

36	V	KEY SW
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Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FC121PC122S1017



Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BATT(FUSE)

A B C D E F G H I J L M N O P

DLK

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

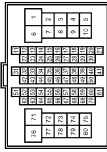
SUPER LOCK SYSTEM (WITH INTELLIGENT KEY)

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 211PC063S0017



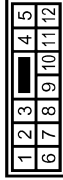
Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER)
55	B	GND(POWER)
56	Y	DOOR LOCK OUTPUT (ALL) [With Intelligent Key]
57	Y	BAT(F/L)
58	BR	SUPER LOCK SET OUTPUT
60	GR	UNLOCK (DR)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH807W-NS16-TM4



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

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	NS12MM-GS



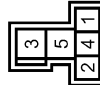
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	—
2	O	—
3	Y	[With Intelligent Key]

Connector No.	M89
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	7703197674



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	—
4	GR	—
5	B	—
6	P	—

Connector No.	M80
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS38FB-M2



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

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BCM (BODY CONTROL MODULE)

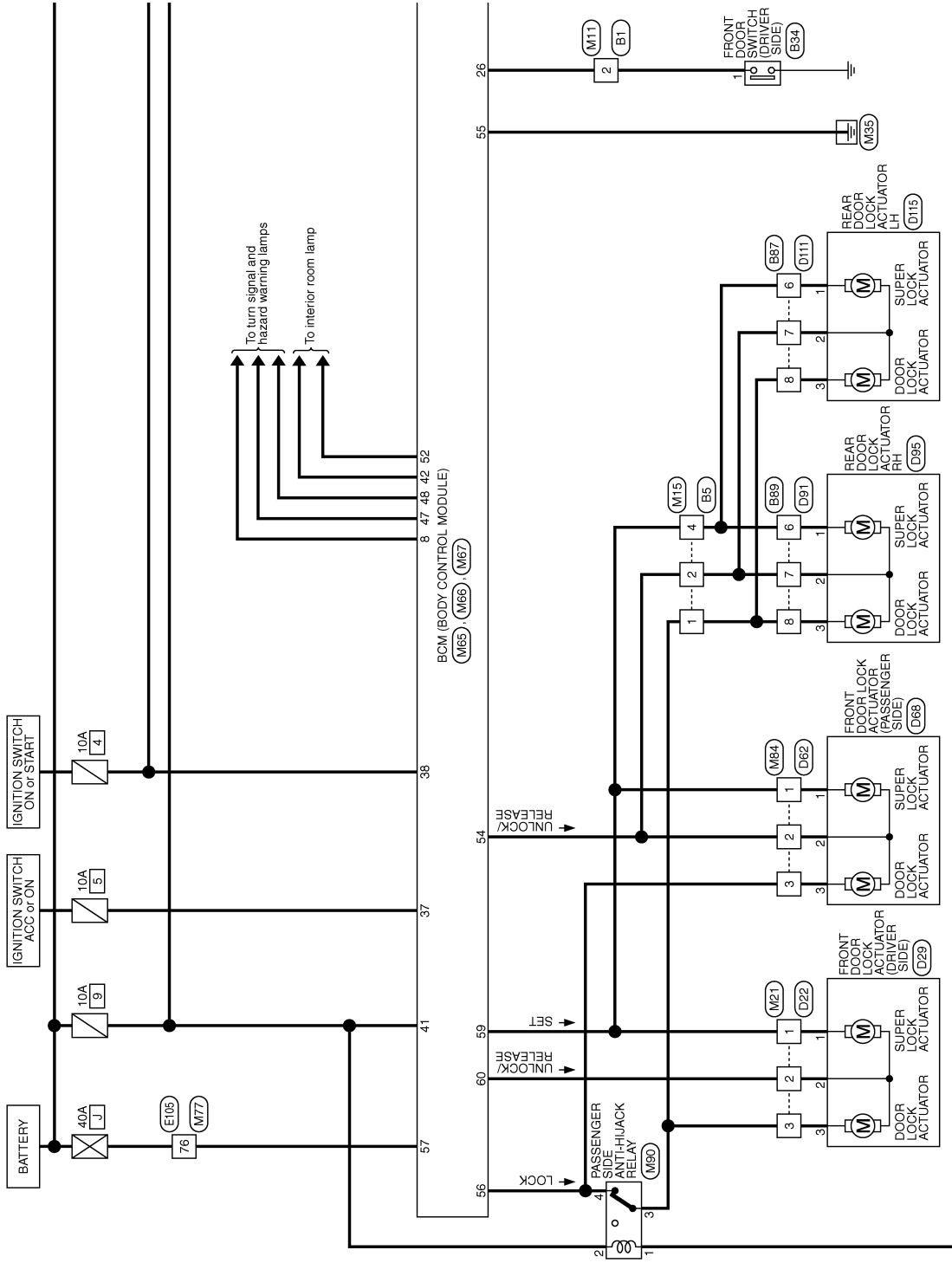
[WITH I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - INTELLIGENT KEY CONTROL SYSTEM -

INFOID:000000001609240

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)



2006/12/08

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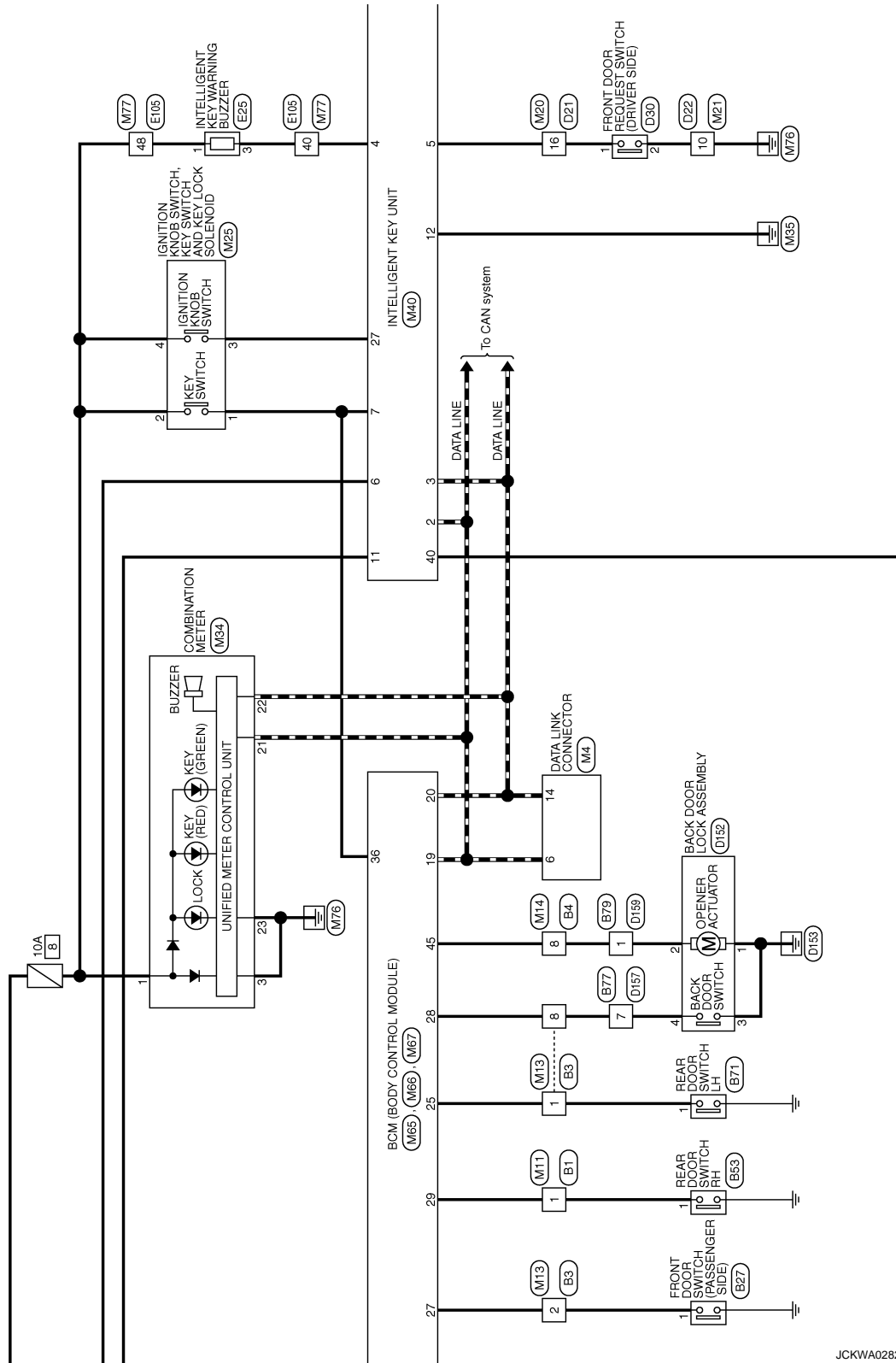
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

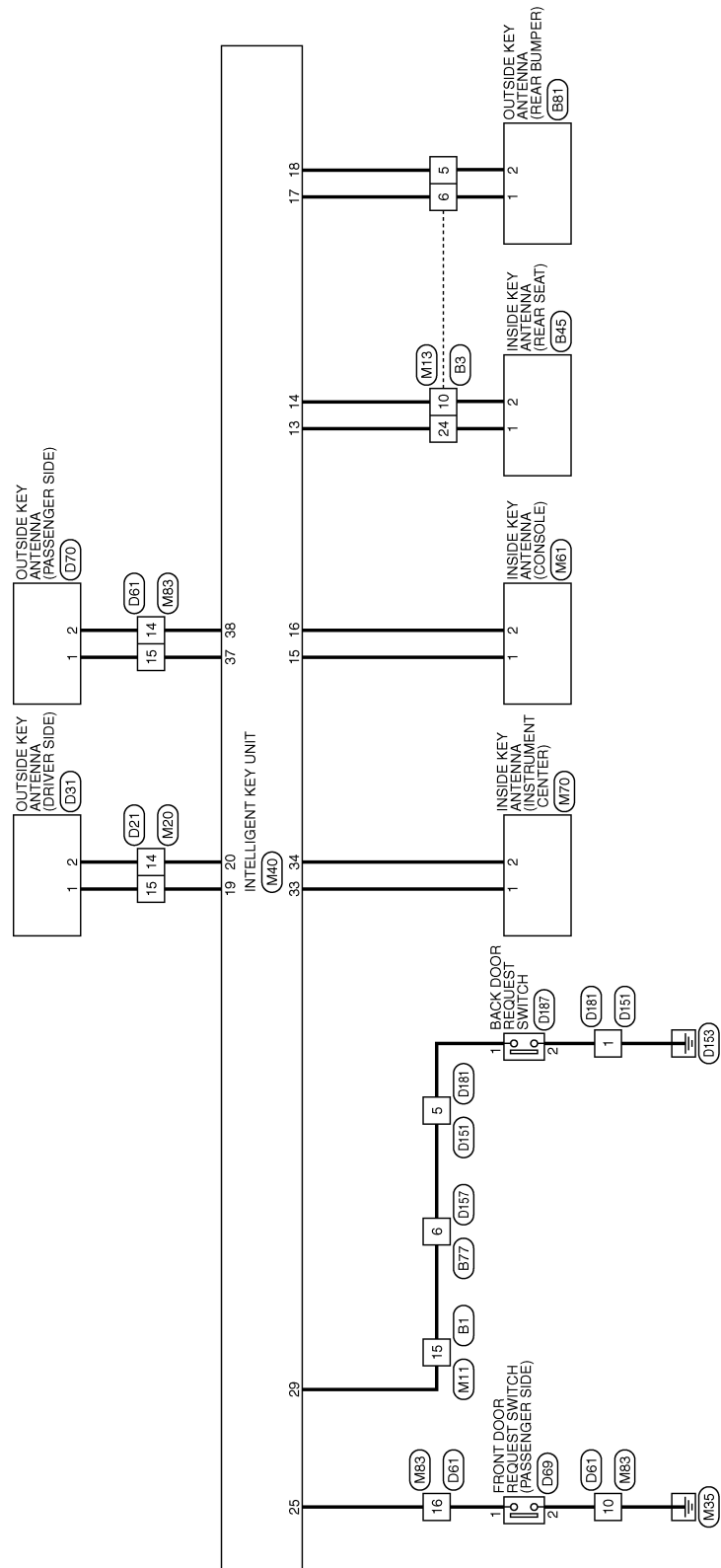


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BCM (BODY CONTROL MODULE)

< 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)

<table border="1"> <tr><td>Connector No.</td><td>B1</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH24MW</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>LG</td><td>-</td></tr> <tr><td>2</td><td>R/W</td><td>[RHD models]</td></tr> <tr><td>15</td><td>GR</td><td>-</td></tr> </table>	Connector No.	B1	Connector Name	WIRE TO WIRE	Connector Type	TH24MW	Terminal No.	Color of Wire	Signal Name [Specification]	1	LG	-	2	R/W	[RHD models]	15	GR	-	<table border="1"> <tr><td>Connector No.</td><td>B3</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>TH24MW</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>GR</td><td>-</td></tr> <tr><td>2</td><td>R/W</td><td>[LHD models]</td></tr> <tr><td>2</td><td>BR</td><td>[RHD models]</td></tr> <tr><td>5</td><td>V</td><td>-</td></tr> <tr><td>6</td><td>SB</td><td>-</td></tr> <tr><td>8</td><td>G</td><td>-</td></tr> <tr><td>10</td><td>W/R</td><td>-</td></tr> <tr><td>24</td><td>Y</td><td>-</td></tr> </table>	Connector No.	B3	Connector Name	WIRE TO WIRE	Connector Type	TH24MW	Terminal No.	Color of Wire	Signal Name [Specification]	1	GR	-	2	R/W	[LHD models]	2	BR	[RHD models]	5	V	-	6	SB	-	8	G	-	10	W/R	-	24	Y	-	<table border="1"> <tr><td>Connector No.</td><td>B4</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS98MW-CS</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>8</td><td>GR</td><td>-</td></tr> </table>	Connector No.	B4	Connector Name	WIRE TO WIRE	Connector Type	NS98MW-CS	Terminal No.	Color of Wire	Signal Name [Specification]	8	GR	-	<table border="1"> <tr><td>Connector No.</td><td>B5</td></tr> <tr><td>Connector Name</td><td>WIRE TO WIRE</td></tr> <tr><td>Connector Type</td><td>NS98MW-CS</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>SB</td><td>-</td></tr> <tr><td>2</td><td>O</td><td>-</td></tr> <tr><td>4</td><td>BR</td><td>-</td></tr> </table>	Connector No.	B5	Connector Name	WIRE TO WIRE	Connector Type	NS98MW-CS	Terminal No.	Color of Wire	Signal Name [Specification]	1	SB	-	2	O	-	4	BR	-
Connector No.	B1																																																																																			
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Terminal No.	Color of Wire	Signal Name [Specification]																																																																																		
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2	R/W	[LHD models]																																																																																		
2	BR	[RHD models]																																																																																		
5	V	-																																																																																		
6	SB	-																																																																																		
8	G	-																																																																																		
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Connector No.	B4																																																																																			
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2	O	-																																																																																		
4	BR	-																																																																																		
<table border="1"> <tr><td>Connector No.</td><td>B27</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SWITCH (PASSENGER SIDE)</td></tr> <tr><td>Connector Type</td><td>A03FW</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>BR</td><td>-</td></tr> </table>	Connector No.	B27	Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)	Connector Type	A03FW	Terminal No.	Color of Wire	Signal Name [Specification]	1	BR	-	<table border="1"> <tr><td>Connector No.</td><td>B34</td></tr> <tr><td>Connector Name</td><td>FRONT DOOR SWITCH (DRIVER SIDE)</td></tr> <tr><td>Connector Type</td><td>A03FW</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>R/W</td><td>-</td></tr> </table>	Connector No.	B34	Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)	Connector Type	A03FW	Terminal No.	Color of Wire	Signal Name [Specification]	1	R/W	-	<table border="1"> <tr><td>Connector No.</td><td>B45</td></tr> <tr><td>Connector Name</td><td>INSIDE KEY ANTENNA (REAR SEAT)</td></tr> <tr><td>Connector Type</td><td>RK02FGY</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>Y</td><td>-</td></tr> <tr><td>2</td><td>W/R</td><td>-</td></tr> </table>	Connector No.	B45	Connector Name	INSIDE KEY ANTENNA (REAR SEAT)	Connector Type	RK02FGY	Terminal No.	Color of Wire	Signal Name [Specification]	1	Y	-	2	W/R	-	<table border="1"> <tr><td>Connector No.</td><td>B53</td></tr> <tr><td>Connector Name</td><td>REAR DOOR SWITCH RH</td></tr> <tr><td>Connector Type</td><td>A03FW</td></tr> </table> <table border="1"> <tr><th>Terminal No.</th><th>Color of Wire</th><th>Signal Name [Specification]</th></tr> <tr><td>1</td><td>LG</td><td>-</td></tr> </table>	Connector No.	B53	Connector Name	REAR DOOR SWITCH RH	Connector Type	A03FW	Terminal No.	Color of Wire	Signal Name [Specification]	1	LG	-																														
Connector No.	B27																																																																																			
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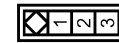
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

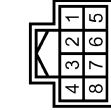
INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

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



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
6	GR	-
7	G	-

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC



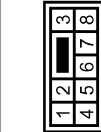
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-

Connector No.	B81
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY



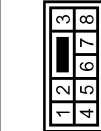
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	V	-

Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



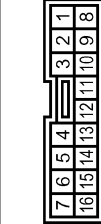
Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



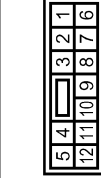
Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TK18FW



Terminal No.	Color of Wire	Signal Name [Specification]
14	BR/W	-
15	L/Y	-
16	P	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



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

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	D29
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA04FB-FHA2



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

Connector No.	D30
Connector Name	FRONT DOOR REQUEST SWITCH (DRIVER SIDE)
Connector Type	RK02ML-B



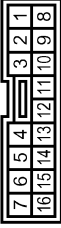
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	B	-

Connector No.	D31
Connector Name	OUTSIDE KEY ANTENNA (DRIVER SIDE)
Connector Type	RK02MGY



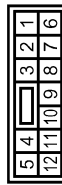
Terminal No.	Color of Wire	Signal Name [Specification]
1	L/Y	-
2	BR/W	-

Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	TK16FW



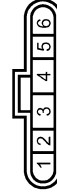
Terminal No.	Color of Wire	Signal Name [Specification]
10	B	-
14	O	-
15	L	-
16	B/R	-

Connector No.	D62
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-GS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	Y	-[With Intelligent Key]

Connector No.	D68
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	Y	-[With Intelligent Key]

Connector No.	D69
Connector Name	FRONT DOOR REQUEST SWITCH (PASSENGER SIDE)
Connector Type	RK02ML-B



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

Connector No.	D70
Connector Name	OUTSIDE KEY ANTENNA (PASSENGER SIDE)
Connector Type	RK02MGY



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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	D91
Connector Name	WIRE TO WIRE
Connector Type	NSDBFW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	D95
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA04FB-FHA2



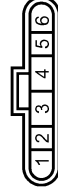
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	SB	-

Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NSDBFW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	D115
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA04FB-FHA2



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

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
5	GR	-

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CINCH 48309 EV 4M8



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
6	GR	-
7	G	-

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	MD2MW-LC



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

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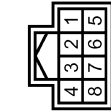
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
5	GR	-

Connector No.	D187
Connector Name	BACK DOOR REQUEST SWITCH
Connector Type	RK02FGY



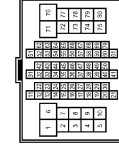
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	B	-

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



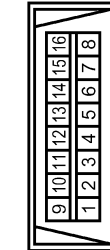
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
3	LG/B	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



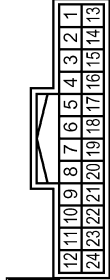
Terminal No.	Color of Wire	Signal Name [Specification]
40	LG/B	-
48	Y	-
76	Y	-

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



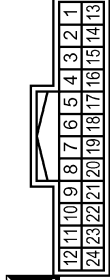
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



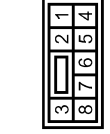
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	R	- [RHD models]
15	GR	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	BR	- [RHD models]
5	V	-
6	SB	-
8	G	-
10	W	-
24	Y	-

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



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

JCKWA0529GE

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



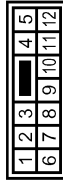
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	O	-
4	BR	-

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TK18MW



Terminal No.	Color of Wire	Signal Name [Specification]
14	BR	-
15	L	-
16	P	-

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



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

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK09MGY



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

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB4QFW



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	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	TH4QFW



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	CAN-H
3	P	CAN-L
4	LG	BUZZER
5	P	REQUEST SW (DR)
6	W	IGN SW
7	V	KEY SW
11	V	BATT+
12	B	GND
13	Y	REAR SEAT (+)
14	W	REAR SEAT (-)
15	SB	CONSOLE (+)

Terminal No.	Color of Wire	Signal Name [Specification]
16	BR	CONSOLE (-)
17	SB	REAR BUMPER (+)
18	V	REAR BUMPER (-)
19	L	DRIVER DOOR (+)
20	BR	DRIVER DOOR (-)
25	BR	REQUEST SW (AS)
27	L	KNOB SW
28	GR	REQUEST SW (BD)
33	O	INSTRUMENT (+)
34	G	INSTRUMENT (-)
37	L	PASSENGER DOOR (+)
38	O	PASSENGER DOOR (-)
40	Y	AS ANTI-HIJACK

Connector No.	M61
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	BR	-

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A B C D E F G H I J L M N O P

DLK

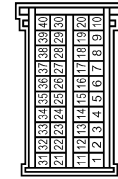
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

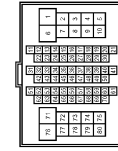
INTELLIGENT KEY SYSTEM (WITH SUPER LOCK SYSTEM)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AA84CFB



Terminal No.	Color of Wire	Signal Name [Specification]
8	LG	HAZARD SW
19	L	CAN-H
20	P	CAN-L
25	GR	DOOR SW (RL)
26	R	DOOR SW (DR)
27	BR	DOOR SW (AS)
28	G	DOOR SW (BACK)
28	LG	DOOR SW (RR)
36	V	KEY SW
37	R	ACC SW
38	W	TGN SW

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH83FW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
40	LG	-
48	Y	-
76	Y	-

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FC121PG12S1017



Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BAT(F)USE
42	V	ROOM LAMP POWER SUPPLY
45	GR	BACK DOOR OPENER
47	G/Y	FLASHER OUTPUT (LEFT)
48	G/B	FLASHER OUTPUT (RIGHT)
52	R	ROOM LAMP OUTPUT

Connector No.	M83
Connector Name	WIRE TO WIRE
Connector Type	TK (BMW)



Terminal No.	Color of Wire	Signal Name [Specification]
10	B	-
14	O	-
15	L	-
16	BR	-

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FC121PG08S30017



Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER)
55	B	GND(POWER)
56	Y	DOOR LOCK OUTPUT (ALL) [With Intelligent Key]
57	Y	BAT(F)L
59	BR	SUPER LOCK SET OUTPUT
60	GR	UNLOCK (DR)

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	Y	- [With Intelligent Key]

Connector No.	M70
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FGY



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

Connector No.	M90
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS03PFB-MZ



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

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BCM (BODY CONTROL MODULE)

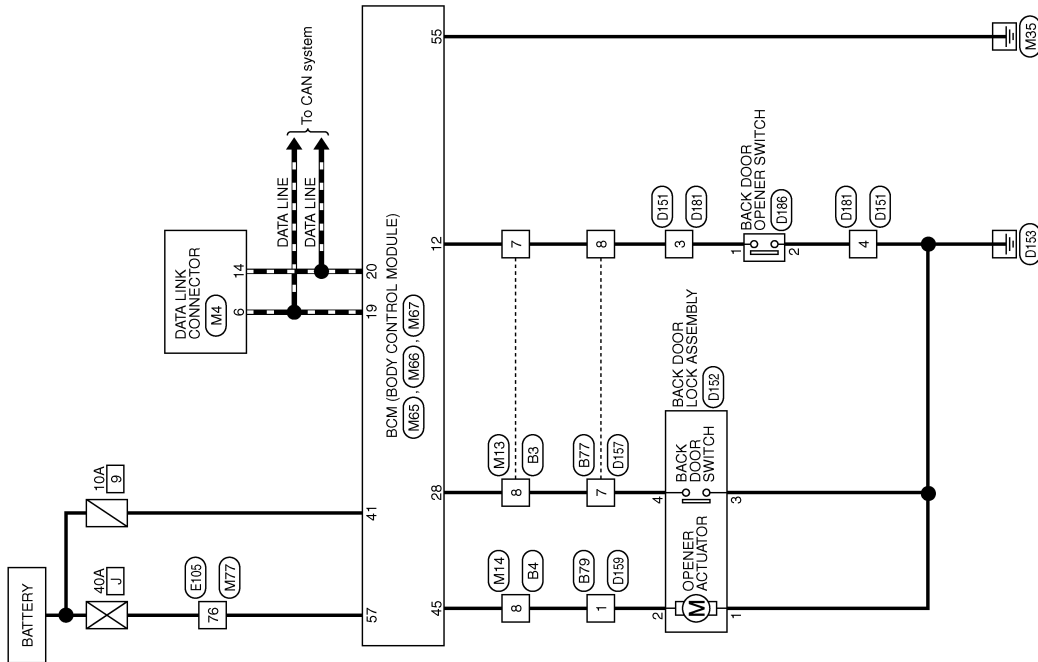
< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

INFOID:000000001609241

BACK DOOR OPENER SYSTEM



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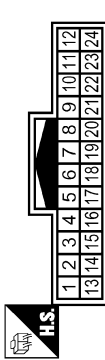
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



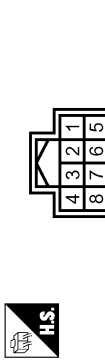
Terminal No.	Color of Wire	Signal Name [Specification]
7	P	
8	G	

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	
8	P	

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC



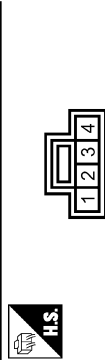
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
3	P	
4	B	

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CINCH 49309 EV 4M9



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	
8	P	

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC



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

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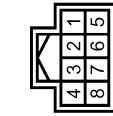
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SYSTEM

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



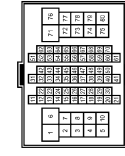
Terminal No.	Color of Wire	Signal Name [Specification]
3	P	
4	B	

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	RK02MGY



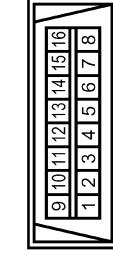
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	
2	B	

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



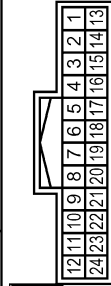
Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	

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



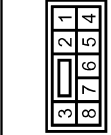
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
14	P	

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



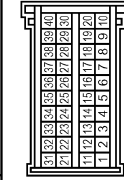
Terminal No.	Color of Wire	Signal Name [Specification]
7	P	
8	G	

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



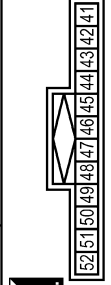
Terminal No.	Color of Wire	Signal Name [Specification]
8	GR	

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	JA840FB



Terminal No.	Color of Wire	Signal Name [Specification]
12	P	TRUNK/BACK DOOR OPEN SW
19	L	CAN-H
20	P	CAN-L
28	G	DOOR SW (BACK)

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FC1211PC12S1017



Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BAT(FUSE)
45	GR	BACK DOOR OPENER

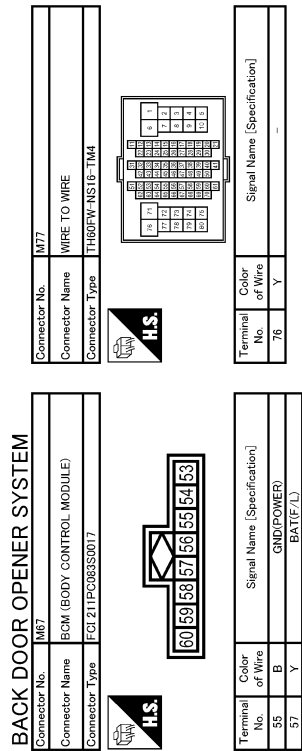
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]



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Fail Safe

Fail-safe index

BCM performs fail-safe control when any DTC listed below is detected.

INFOID:000000001559400

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Display contents of CONSULT	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 CONTROL

BCM detects a rear wiper stopping position according to a rear wiper auto stop signal.

When a rear wiper auto stop signal is in the condition listed below, BCM stops power supply to rear wiper after rear wiper is activated for five seconds.

Ignition switch	Rear wiper switch	Rear wiper auto stop signal
ON	OFF	The rear wiper auto stop signal (stop position) cannot be input for 5 seconds.
	ON	The rear wiper auto stop signal does not change for 5 seconds.

NOTE:

The above operation is repeated when operating the rear wiper switch one minute after the stop of the rear wiper caused by Fail-safe.

TURN SIGNAL LAMP CONTROL

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.

LIGHT & RAIN SENSOR MALFUNCTION DETECTION FUNCTION

BCM controls the following items when LIGHT & RAIN sensor has a malfunction.

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.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

DTC Inspection Priority Chart

INFOID:000000001559401

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

DTC Index

INFOID:000000001559402

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.

CONSULT display	TIME		Fail-safe	Refer to
No DTC is detected. further testing may be required.	—	—	—	—
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-45 Without Intelligent Key system SEC-194
B2191: DIFFERENCE OF KEY	CRNT	PAST	×	<ul style="list-style-type: none"> With Intelligent Key system SEC-47 Without Intelligent Key system SEC-196
B2192: ID DISCORD BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> With Intelligent Key system SEC-48 Without Intelligent Key system SEC-197
B2193: CHAIN OF BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> With Intelligent Key system SEC-50 Without Intelligent Key system SEC-199
B2194: DISCORD BCM-I-KEY	CRNT	PAST	×	SEC-51
B2195: ANTI SCANNING	CRNT	PAST	×	<ul style="list-style-type: none"> With Intelligent Key system SEC-52 Without Intelligent Key system SEC-200
B2196: DONGLE NG	CRNT	PAST	×	<ul style="list-style-type: none"> With Intelligent Key system SEC-53 Without Intelligent Key system SEC-201

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SYMPTOM DIAGNOSIS

DOOR LOCK FUNCTION SYMPTOMS

DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH : Symptom Table

INFOID:000000001184043

DOOR LOCK AND UNLOCK SWITCH OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-281. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

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.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page	
Door lock and unlock function does not operate with door lock and unlock switch.	1. Check BCM power supply and ground circuit.	DLK-333	
	2. Check door lock and unlock switch.	DLK-335	
	3. Check intermittent incident.	GI-39	
Door lock function does not operate with door lock and unlock switch.	1. Check door lock and unlock switch	DLK-335	
	2. Check door switch.	Passenger side	DLK-346
		Rear LH	DLK-348
		Rear RH	DLK-349
		Back door	DLK-351
3. Check intermittent incident.	GI-39		
Specific door lock does not operate properly.	1. Check door lock actuator.	Driver side	DLK-357
		Passenger side	DLK-359
		Rear LH	DLK-360
		Rear RH	DLK-362
	2. Check intermittent incident.	GI-39	
Specific door does not open from inside the vehicle.	1. Check super lock actuator.	Driver side	DLK-365
		Passenger side	DLK-366
		Rear LH	DLK-368
		Rear RH	DLK-369
	2. Check intermittent incident.	GI-39	
Rear LH and RH door lock actuator does not operate.	1. Check passenger side anti-hijack relay.	DLK-393	
	2. Check intermittent incident.	GI-39	
Door lock and unlock switch indicator does not illuminate.	1. Check door lock and unlock switch indicator.	DLK-337	
	2. Check Intermittent Incident.	GI-39	

INTELLIGENT KEY

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DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY : Symptom Table

INFOID:000000001184044

INTELLIGENT KEY OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-281, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

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.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
All of the Intelligent Key functions do not operate.	1. Check Intelligent Key unit power supply and ground circuit.	DLK-333
	2. Check driver side door switch.	DLK-351
	3. Check key switch.	DLK-353
	4. Check ignition knob switch.	DLK-355
	5. Check Intelligent Key battery.	DLK-402
	6. Check intermittent incident.	GI-39
Specific door does not operate properly.	1. Check door lock actuator.	Driver side DLK-357
		Passenger side DLK-359
		Rear LH DLK-360
		Rear RH DLK-362
	2. Check intermittent incident.	GI-39
Anti-hijack function does not operate by Intelligent Key.	1. Check “SELECTIVE UNLOCK FUNCTION” setting in “WORK SUPPORT”.	DLK-327
	2. Check intermittent incident.	GI-39

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH : Symptom Table

INFOID:000000001184045

DOOR REQUEST SWITCH OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-281, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

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.
- Intelligent Keys are not inside vehicle.

Symptom Table

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Symptom	Diagnosis/service procedure	Reference page
Door lock and unlock do not operate by door request switch.	1. Check "LOCK/UNLOCK BY I-KEY" setting in "WORK SUPPORT".	DLK-327
	2. Check intermittent incident.	GI-39
Door lock/unlock does not operate by request switch (driver side).	1. Check door request switch (driver side).	DLK-339
	2. Check outside key antenna (driver side).	DLK-375
	3. Check intermittent incident.	GI-39
Door lock/unlock does not operate by request switch (passenger side).	1. Check door request switch (passenger side).	DLK-341
	2. Check outside key antenna (passenger side).	DLK-378
	3. Check intermittent incident.	GI-39
Door lock/unlock does not operate by request switch (back door).	1. Check door request switch (back door).	DLK-342
	2. Check outside key antenna (rear bumper).	DLK-381
	3. Check intermittent incident.	GI-39
Anti-hijack function does not operate by driver side door request switch (other door lock functions operate).	1. Check "SELECTIVE UNLOCK FUNCTION" setting in "WORK SUPPORT".	DLK-327
	2. Check intermittent incident.	GI-39
Passenger side anti-hijack function does not operate by passenger side door request switch (other door lock functions operate).	1. Check passenger side anti-hijack relay.	DLK-393
	2. Check intermittent incident.	GI-39

KEY REMINDER

KEY REMINDER : Symptom Table

INFOID:000000001184046

KEY REMINDER OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-281, "Work Flow"](#).
- Understand the operation when does it work, refer to [DLK-297, "KEY REMINDER : System Description"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Key reminder operation does not operate properly.	1. Check door switch.	Driver side DLK-345
		Passenger side DLK-346
		Rear LH DLK-348
		Rear RH DLK-349
		Back door DLK-351
	2. Check inside key antenna.	Instrument center DLK-384
		Console DLK-387
		Rear seat DLK-390
	3. Check Intermittent Incident.	GI-39

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

AUTO DOOR LOCK

AUTO DOOR LOCK : Symptom Table

INFOID:000000001184047

AUTO DOOR LOCK OPERATION MALFUNCTION

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-281, "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-300, "AUTO DOOR LOCK : System Description"](#).
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Auto door lock operation does not operate properly.	1. Check "AUTO RELOCK TIMER" setting in "WORK SUPPORT".	DLK-327
	2. Check ignition knob switch.	DLK-355
	3. Check key switch.	DLK-353
	4. Check Intermittent Incident.	GI-39

VEHICLE SPEED SENSING AUTO DOOR LOCK

VEHICLE SPEED SENSING AUTO DOOR LOCK : Symptom Table

INFOID:000000001184048

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-281, "Work Flow"](#).
- Understand the operation when does it work, refer to [DLK-303, "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.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- Request switch operation and door lock and unlock switch operation are normal.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Vehicle speed sensing auto door lock operation does not operate.	1. Check vehicle speed signal.	DLK-401
	2. Check Intermittent Incident.	GI-39

BACK DOOR OPEN FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPEN FUNCTION SYMPTOMS

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : Symptom Table

INFOID:000000001184049

BACK DOOR OPENER FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-281](#). “[Work Flow](#)”.
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Door lock function is normal.
- Vehicle speed is less than 5 km/h (3MPH).
- All doors are unlocked.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Back door opener function does not operate by back door opener switch.	1. Check back door opener switch.	DLK-373
	2. Check vehicle speed signal.	DLK-401
	3. Check back door opener actuator.	DLK-371
	4. Check Intermittent Incident.	GI-39

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WARNING FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

WARNING FUNCTION SYMPTOMS

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Symptom Table

INFOID:000000001184050

BUZZER (COMBINATION METER) OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-281, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following “symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

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-314, "System Description"](#).
- Door lock function is normal.

Symptom Table

Symptom		Diagnosis/service procedure	Reference page
Ignition knob return forgotten warning.does not operate properly.		1. Check buzzer (combination meter).	DLK-397
		2. Check Intermittent Incident.	GI-39
Ignition key warning does not operate properly.		1. Check buzzer (combination meter).	DLK-397
		2. Check Intermittent Incident.	GI-39
OFF position warning does not operate properly.		1. Check buzzer (combination meter).	DLK-397
		2. Check Intermittent Incident.	GI-39
Take away warning does not operate properly.	Take away through window	1. Check buzzer (combination meter).	DLK-397
		2. Check Intermittent Incident.	GI-39

INTELLIGENT KEY WARNING BUZZER

INTELLIGENT KEY WARNING BUZZER : Symptom Table

INFOID:000000001184051

INTELLIGENT KEY WARNING BUZZER OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-281, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following “symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

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-314, "System Description"](#).
- Door lock function is normal.

Symptom Table

Symptom		Diagnosis/service procedure	Reference page
Take away warning does not operate properly.	Any door open to all door close.	1. Check Intelligent Key warning buzzer.	DLK-395
		2. Check Intermittent Incident.	GI-39

WARNING FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Symptom		Diagnosis/service procedure	Reference page
Door lock operation warning chime does not operate properly.	Request switch operation	1. Check Intelligent Key warning buzzer.	DLK-395
		2. Check Intermittent Incident.	GI-39
	Intelligent Key button operation	1. Check Intelligent Key warning buzzer.	DLK-395
		2. Check Intermittent Incident.	GI-39

WARNING LAMP

WARNING LAMP : Symptom Table

INFOID:000000001184052

WARNING LAMP OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to [DLK-281, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

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-314, "System Description"](#).
- Door lock function is normal.

Symptom Table

Symptom		Diagnosis/service procedure	Reference page
OFF position warning does not operate properly.		1. Check LOCK warning lamp. (RED blinking)	DLK-399
		2. Check Intermittent Incident.	GI-39
Take away warning does not operate properly.	Any door open to all door close.	1. Check Key warning lamp. (RED blinking)	DLK-399
		2. Check Intermittent Incident.	GI-39
	Door is open	1. Check Key warning lamp. (RED blinking)	DLK-399
		2. Check Intermittent Incident.	GI-39
	Take away through window	1. Check Key warning lamp. (RED blinking)	DLK-399
		2. Check Intermittent Incident.	GI-39
Intelligent Key low battery warning dose not operate properly.		1. Check "LOW BAT OF KEY FOB WARN" setting in "WARK SUPPORT".	DLK-327
		2. Check Intelligent Key battery.	DLK-402
		3. Check KEY warning lamp. (GREEN blinking)	DLK-398
		4. Check Intermittent Incident.	GI-39

BACK DOOR

BACK DOOR : Symptom Table

INFOID:000000001184053

BACK DOOR OPEN WARNING OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-281, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- Door lock function and back door opener function is normal.

WARNING FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Back door open warning does not operate properly.	1. Check buzzer (combination meter).	DLK-397
	2. Check intermittent incident.	GI-39

HAZARD AND BUZZER REMINDER FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

HAZARD AND BUZZER REMINDER FUNCTION SYMPTOMS

HAZARD WARNING LAMP

HAZARD WARNING LAMP : Symptom Table

INFOID:000000001184055

HAZARD REMINDER OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work flow”. Refer to [DLK-281, "Work Flow"](#).
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- “HAZARD ANSWER BACK” is ON when setting on CONSULT-III.
- Door lock function is normal.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Hazard reminder operation does not operate properly.	1. Check setting of hazard reminder with CONSULT-III.	DLK-327
	2. Check intermittent incident.	GI-39

INTELLIGENT KEY WARNING BUZZER

INTELLIGENT KEY WARNING BUZZER : Symptom Table

INFOID:000000001184054

BUZZER REMINDER OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work flow”. Refer to [DLK-281, "Work Flow"](#).
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

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.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Buzzer reminder operation dose not operate properly.	1. Check setting of buzzer reminder with CONSULT-III.	DLK-327
	2. Check intermittent incident.	GI-39

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

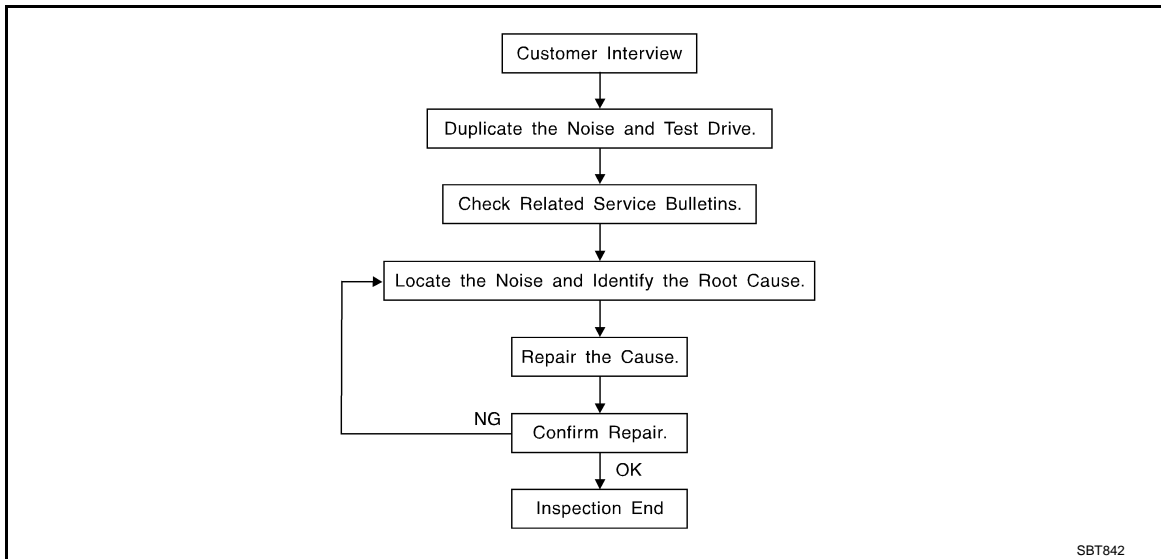
< SYMPTOM DIAGNOSIS >

[WITH I-KEY & SUPER LOCK]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000001184056



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-215, "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-213. "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]

INFOID:000000001184057

Inspection Procedure

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 & 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 & SUPER LOCK]

Diagnostic Worksheet

INFOID:000000001184058



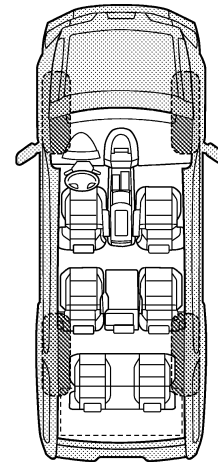
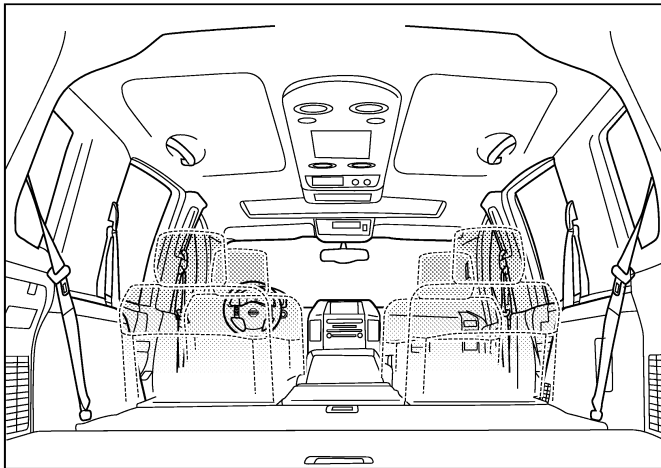
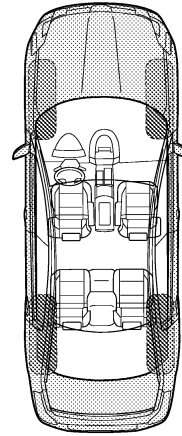
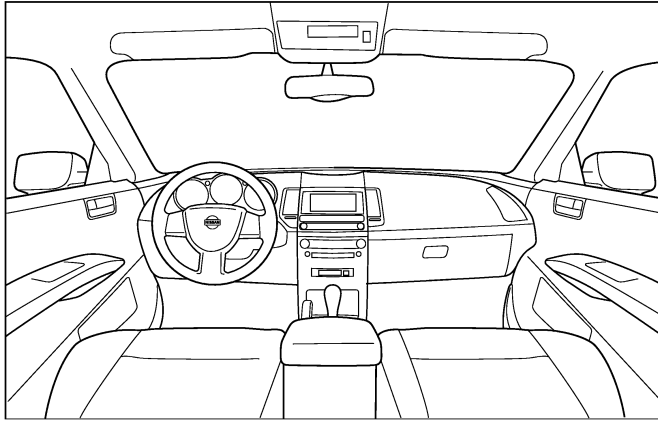
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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

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< PRECAUTION >

PRECAUTION

PRECAUTIONS

Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000001184059

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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

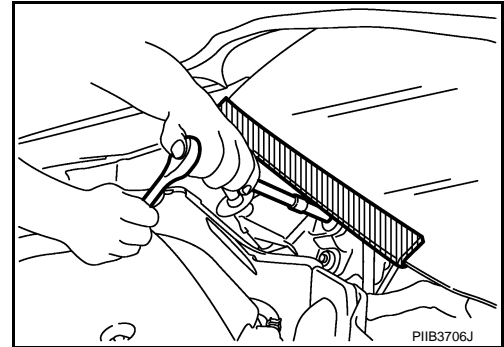
WARNING:

- 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 section.
- 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.

Procedure without Cowl Top Cover

INFOID:000000001184060

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



Steering Wheel Rotation after Battery Disconnect

INFOID:000000001184061

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit. If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, 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. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)

PRECAUTIONS

[WITH I-KEY & SUPER LOCK]

< PRECAUTION >

3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

Work

INFOID:000000001184062

- 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 >

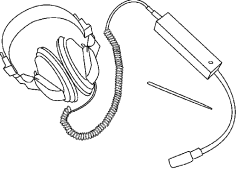
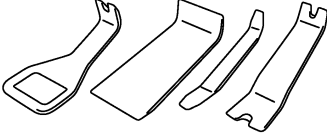

[WITH I-KEY & SUPER LOCK]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000001184063

Tool name	Description
<p>Engine ear</p>  <p>SIA0995E</p>	<p>Locating the noise</p>
<p>Remover tool</p>  <p>PIIB7923J</p>	<p>Remove the clips, pawls, and metal clips</p>
<p>Power tool</p>  <p>PIIB1407E</p>	

ON-VEHICLE MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

INFOID:000000001184064

BASIC INSPECTION

1. CHECK POWER DOOR LOCK AND UNLOCK SWITCH OPERATION

Check door lock and unlock operation by operating door lock and unlock switch.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-471, "DOOR LOCK AND UNLOCK SWITCH : Symptom Table"](#).

2. CHECK INTELLIGENT KEY OPERATION

Check door lock and unlock operation by operating the Intelligent Key remote control button.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to [DLK-472, "INTELLIGENT KEY : Symptom Table"](#).

3. CHECK DOOR REQUEST SWITCH OPERATION

Check door lock and unlock operation by operating door request switch.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Refer to [DLK-472, "DOOR REQUEST SWITCH : Symptom Table"](#).

4. CHECK KEY REMINDER OPERATION

Check key reminder operation. Refer to [DLK-297, "KEY REMINDER : System Description"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Refer to [DLK-473, "KEY REMINDER : Symptom Table"](#).

5. CHECK AUTO DOOR LOCK OPERATION

Check auto door lock operation. Refer to [DLK-300, "AUTO DOOR LOCK : System Description"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Refer to [DLK-474, "AUTO DOOR LOCK : Symptom Table"](#).

6. CHECK VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION

Check vehicle speed sensing auto door lock operation. Refer to [DLK-303, "VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Refer to [DLK-474, "VEHICLE SPEED SENSING AUTO DOOR LOCK : Symptom Table"](#).

7. CHECK BACK DOOR OPENER OPERATION

Check back door opener operation by operating the back door opener switch.

Is the inspection result normal?

YES >> GO TO 8.

NO >> Refer to [DLK-475, "BACK DOOR OPENER SWITCH : Symptom Table"](#).

8. CHECK WARNING FUNCTION

Check warning function. Refer to [DLK-314, "System Description"](#).

Is the inspection result normal?

YES >> GO TO 9.

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PRE-INSPECTION FOR DIAGNOSTIC

< ON-VEHICLE MAINTENANCE >

[WITH I-KEY & SUPER LOCK]

-
- NO [Buzzer (combination meter)]>> Refer to [DLK-476, "BUZZER \(COMBINATION METER\) : Symptom Table"](#).
- NO (Intelligent Key warning buzzer)>> Refer to [DLK-476, "INTELLIGENT KEY WARNING BUZZER : Symptom Table"](#).
- NO (Warning lamp)>> Refer to [DLK-477, "WARNING LAMP : Symptom Table"](#).
- NO (Back door open warning)>> Refer to [DLK-477, "BACK DOOR : Symptom Table"](#).

9.CHECK HAZARD AND BUZZER REMINDER FUNCTION

Check hazard and buzzer reminder function by Intelligent Key or request switch. Refer to [DLK-320, "System Description"](#).

Is the inspection result normal?

YES >> GO TO 10.

NO (Hazard warning lamp)>> Refer to [DLK-479, "INTELLIGENT KEY WARNING BUZZER : Symptom Table"](#).

NO (Intelligent Key warning buzzer)>> Refer to [DLK-479, "HAZARD WARNING LAMP : Symptom Table"](#).

10.CHECK OUT

CHECK OUT.

>> INSPECTION END

HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

ON-VEHICLE REPAIR

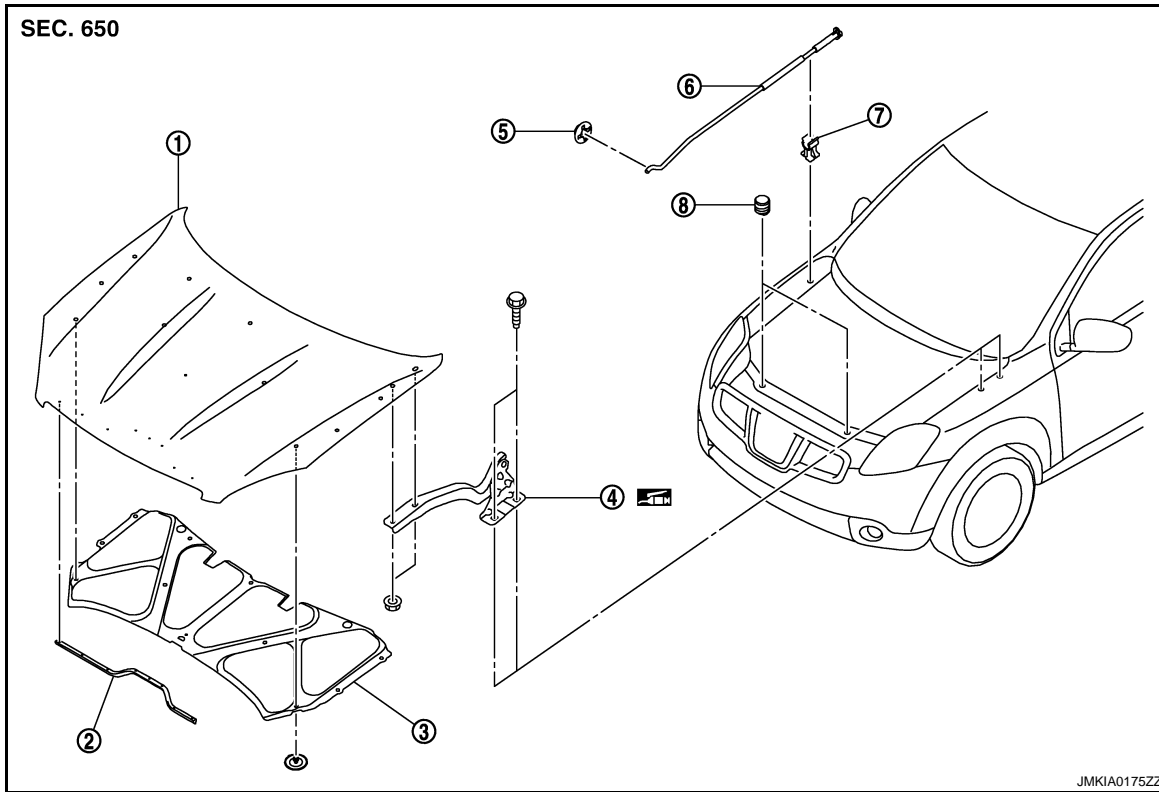
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000001538422

REMOVAL



- | | | |
|------------------|------------------------|---------------------|
| 1. Hood assembly | 2. Hood sealing rubber | 3. Hood insulator |
| 4. Hood hinge | 5. Grommet | 6. Hood support rod |
| 7. Clamp | 8. Hood bumper rubber | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

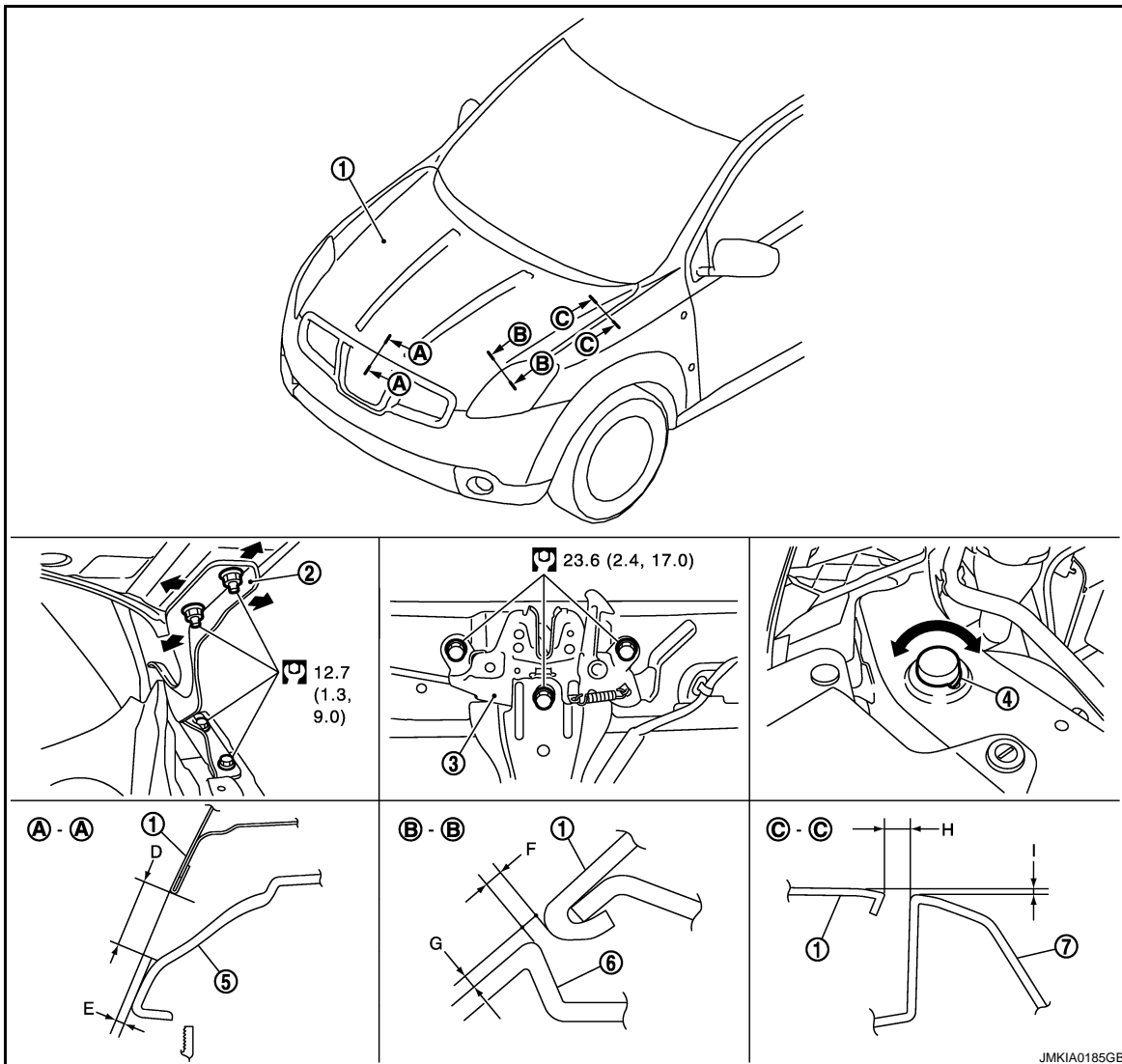
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HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]



- | | | |
|-----------------------|-----------------|---------------------------|
| 1. Hood assembly | 2. Hood hinge | 3. Hood lock assembly |
| 4. Hood bumper rubber | 5. Front grille | 6. Front combination lamp |
| 7. Front fender | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:000000001538423

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 hinge mounting nuts on the hood to remove the hood assembly.

CAUTION:

Perform work with 2 workers, because of its heavy weight.

3. Remove the following parts after removing the hood assembly.
 - Hood insulator
 - Hood sealing rubber

INSTALLATION

Install in the reverse order of removal.

CAUTION:

HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

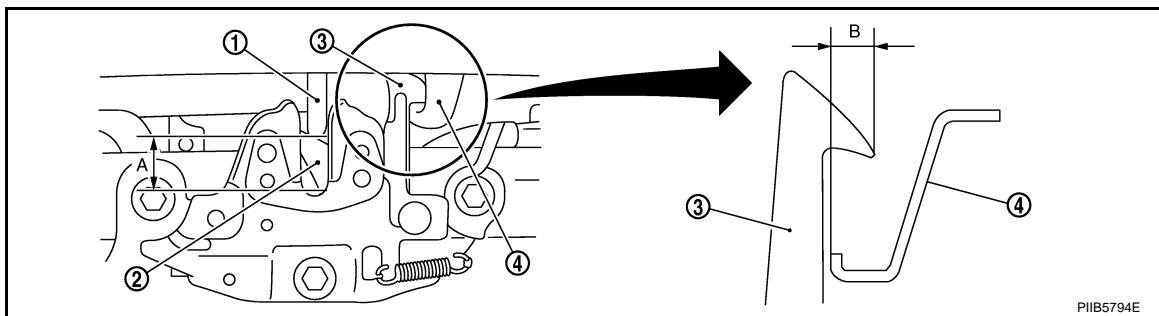
- Perform work with 2 workers, because of its heavy weight.
- Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installing, perform hood fitting adjustment. Refer to [DLK-827. "HOOD ASSEMBLY : Adjustment"](#).

HOOD ASSEMBLY : Adjustment

INFOID:000000001538424

Portion			Standard	Right/left Clearance (MAX)
Hood – Front bumper	A – A	D	Clearance 5.2 – 9.2 mm (0.205 – 0.362 in)	2.0 mm (0.079 in)
		E	Surface height - 0.2 – 3.8 mm (- 0.008 – 0.150 in)	2.0 mm (0.079 in)
Hood – Front combination lamp	B – B	F	Clearance 3.7 – 7.7 mm (0.140 – 0.303 in)	2.0 mm (0.079 in)
		G	Surface height - 2.3 – 2.3 mm (- 0.091 – 0.091 in)	2.3 mm (0.091 in)
Hood – Front fender	C – C	H	Clearance 3.9 – 5.9 mm (0.154 – 0.232 in)	1.5 mm (0.059 in)
		I	Surface height - 1.0 – 1.0 mm (- 0.039 – 0.039 in)	1.5 mm (0.059 in)

1. 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.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the hood lock and adjust the height by rotating the bumper rubber until the hood becomes 1 to 1.5 mm (0.039 to 0.059 in) lower than the fender.
4. 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.
5. Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately. 200 mm (7.874 in) height or by pressing the hood lightly [approximately. 29 N (3 kg)].



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)

6. After adjustment tighten lock bolts to the specified torque.

HOOD HINGE

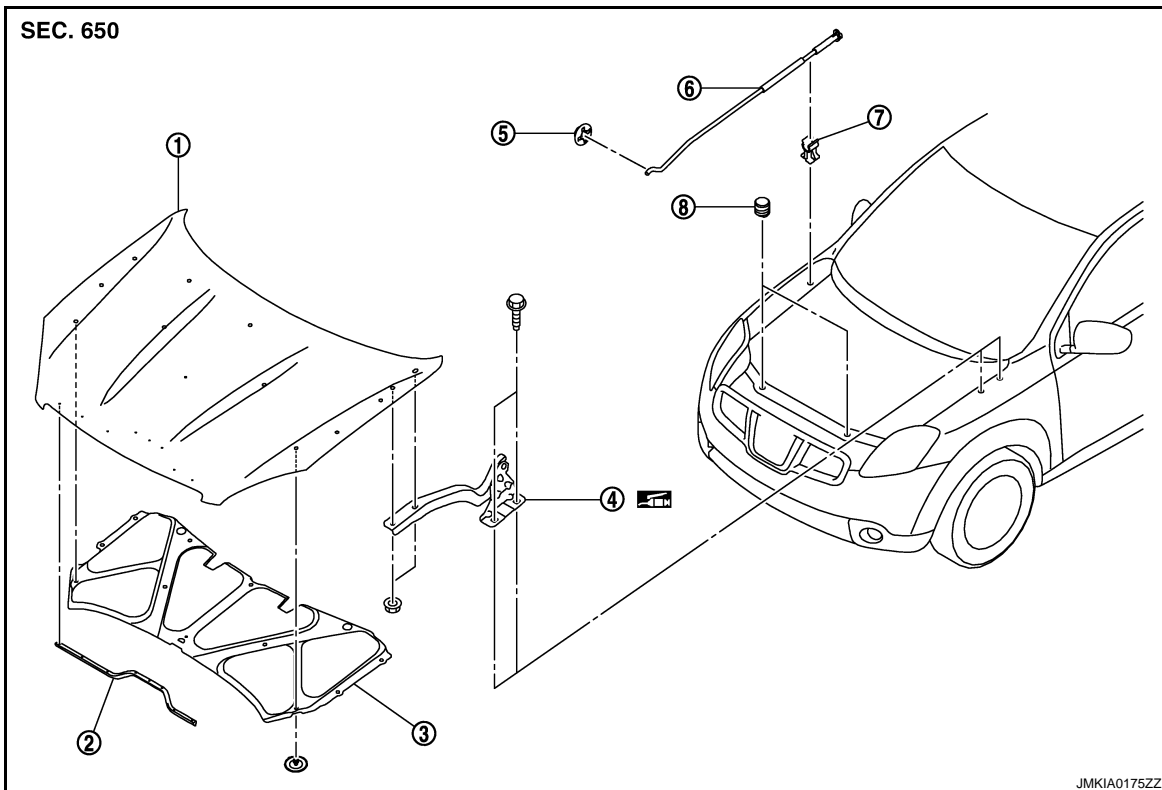
HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

HOOD HINGE : Exploded View

INFOID:000000001538425



- | | | |
|------------------|------------------------|---------------------|
| 1. Hood assembly | 2. Hood sealing rubber | 3. Hood insulator |
| 4. Hood hinge | 5. Grommet | 6. Hood support rod |
| 7. Clamp | 8. Hood bumper rubber | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD HINGE : Removal and Installation

INFOID:000000001538426

REMOVAL

1. Remove the hood assembly. Refer to [DLK-826. "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove the front fender. Refer to [DLK-835. "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:

- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.
- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installation, perform hood fitting adjustment. Refer to [DLK-827. "HOOD ASSEMBLY : Adjustment"](#).

HOOD SUPPORT ROD

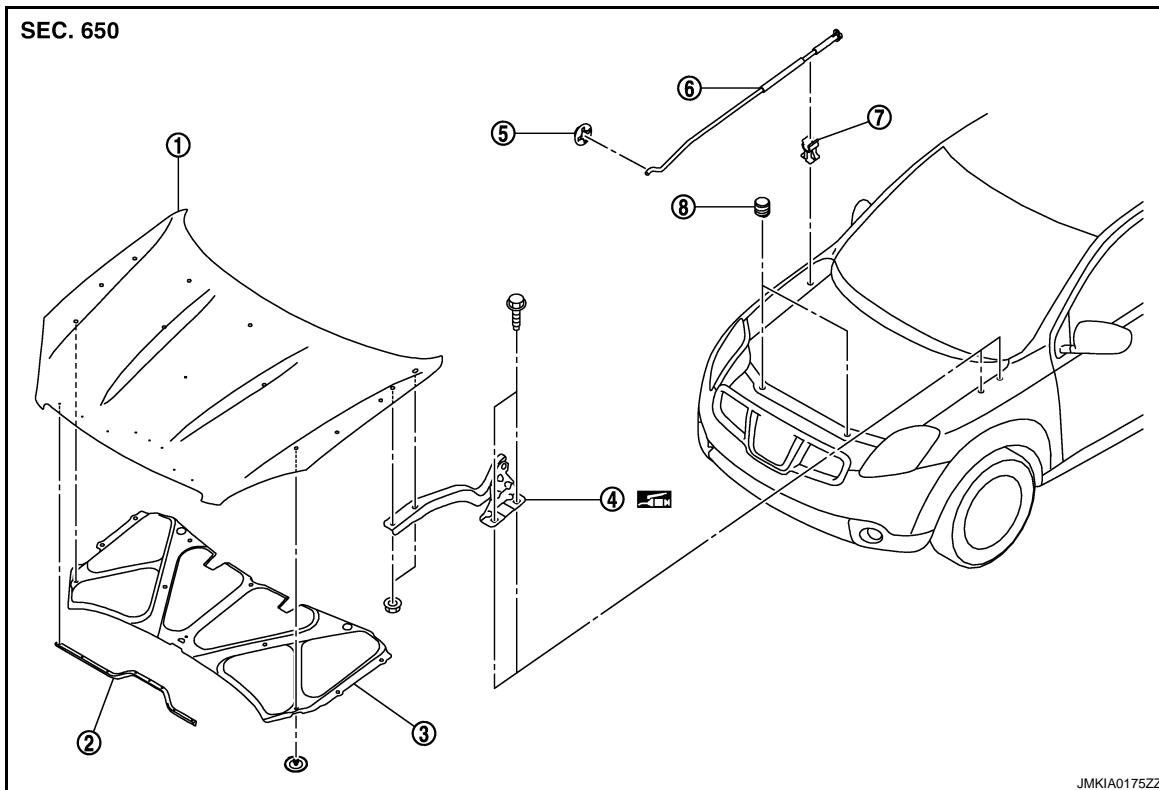
HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

HOOD SUPPORT ROD : Exploded View

INFOID:000000001538427



- | | | |
|------------------|------------------------|---------------------|
| 1. Hood assembly | 2. Hood sealing rubber | 3. Hood insulator |
| 4. Hood hinge | 5. Grommet | 6. Hood support rod |
| 7. Clamp | 8. Hood bumper rubber | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000001538428

DLK

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

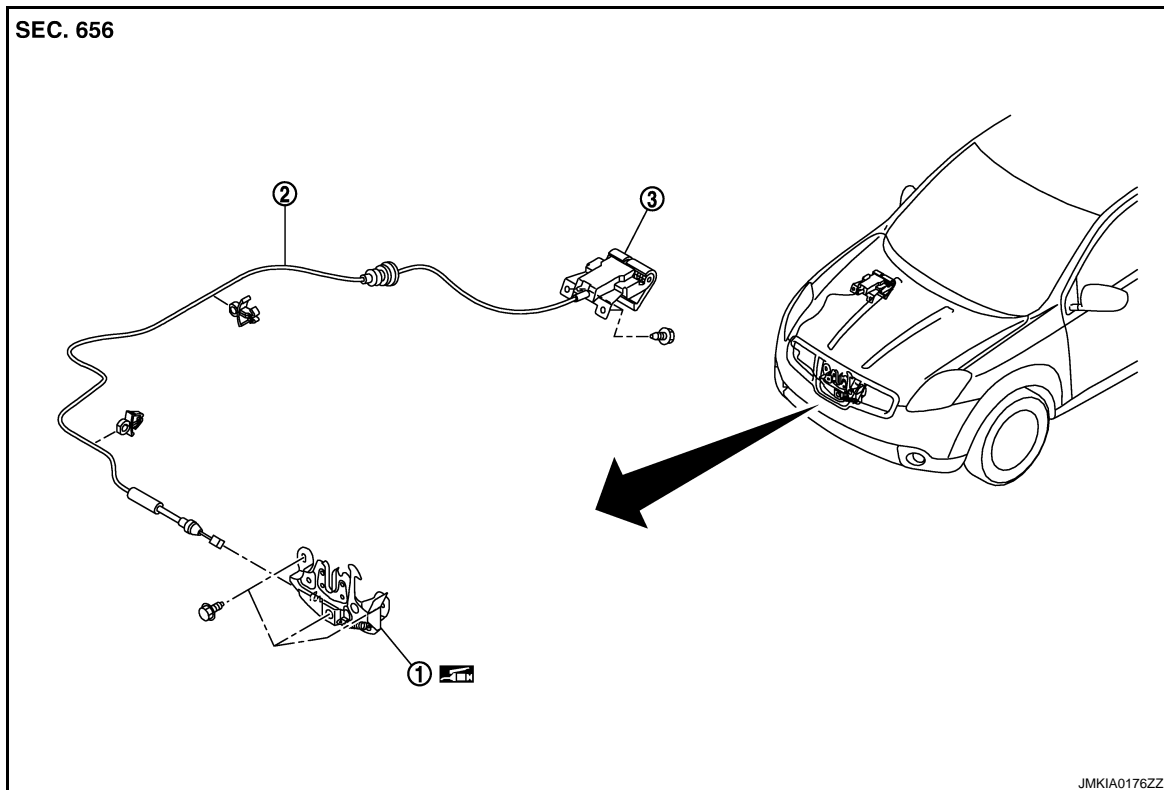
HOOD

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

HOOD LOCK CONTROL : Exploded View

INFOID:000000001538429



1. Hood lock assembly

2. Hood lock control cable

3. Hood lock opener

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD LOCK CONTROL : Removal and Installation

INFOID:000000001538430

REMOVAL

1. Remove the hood lock opener mounting bolts, and then remove the hood lock opener.
2. Remove the front bumper fascia. Refer to [EXT-11, "Removal and Installation"](#).
3. Remove the hood lock mounting bolts, and then remove the hood lock.
4. Remove the fender protector. Refer to [EXT-22, "Removal and Installation"](#).
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:

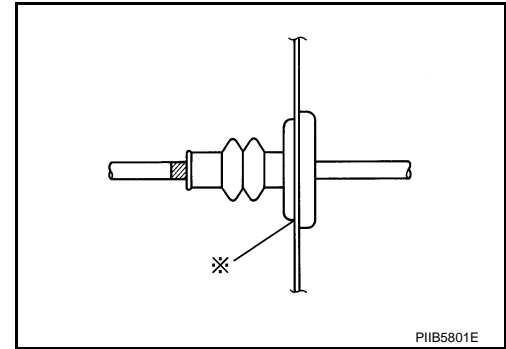
- Do not to bend the cable too much, keeping the radius 100 mm (3.937 in) or more.

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-827, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform the hood lock control inspection. Refer to [DLK-831, "HOOD LOCK CONTROL : Inspection"](#).

HOOD LOCK CONTROL : Inspection

INFOID:000000001538431

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

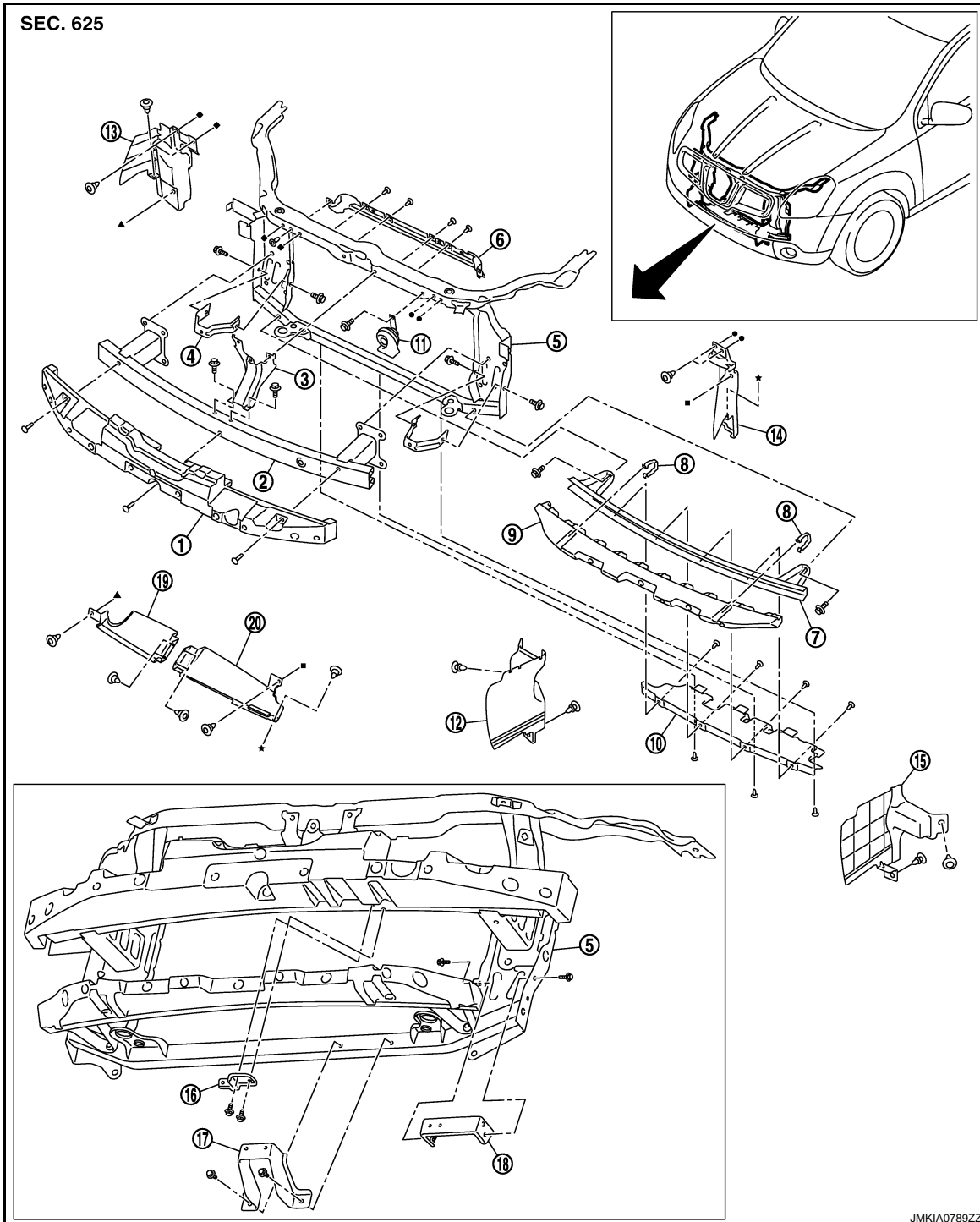
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

RADIATOR CORE SUPPORT

Exploded View

INFOID:000000001538432



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|--|-----------------------------------|-----------------------------------|
| 1. Energy absorber | 2. Bumper reinforcement | 3. Hood lock support stay |
| 4. Intercooler bracket
(with K9K engine models) | 5. Radiator core support assembly | 6. Upper air dam |
| 7. Apron bracket assembly | 8. Fastener | 9. Energy absorber lower |
| 10. Front air guide lower | 11. Horn assembly | 12. Front air guide side lower RH |
| 13. Front air guide side RH | 14. Front air guide side LH | 15. Front air guide side lower LH |

RADIATOR CORE SUPPORT

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

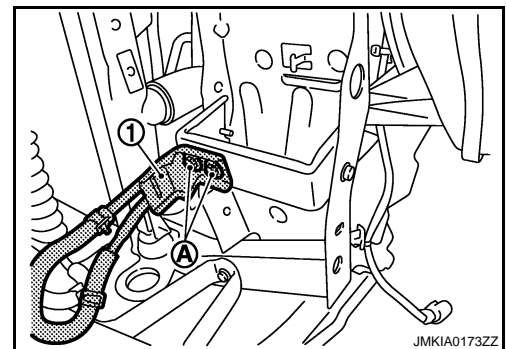
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| 16. Oil cooler bracket upper | 17. Oil cooler bracket lower | 18. Oil cooler bracket side |
| 19. Front air guide RH | 20. Front air guide LH | |

Removal and Installation

INFOID:000000001538433

REMOVAL

1. Remove the front fillet molding. Refer to [EXT-23, "Removal and Installation"](#).
2. Remove the front grille. Refer to [EXT-17, "Removal and Installation"](#).
3. Remove the front bumper fascia and the energy absorber. Refer to [EXT-11, "Removal and Installation"](#).
4. Remove the energy absorber (upper and lower). Refer to [EXT-11, "Removal and Installation"](#).
5. Remove the air cleaner duct. Refer to [EM-28, "Removal and Installation"](#).
6. Remove the all air guides mounting clips, and then remove the all air guides.
7. Remove the front combination lamp (LH/RH). Refer to [EXL-175, "Removal and Installation"](#).
8. Disconnect the hood lock control cable clamp, and then remove the hood lock assembly. Refer to [DLK-830, "HOOD LOCK CONTROL : Removal and Installation"](#).
9. Remove the hood lock stay mounting bolts, and then remove the hood lock stay.
10. Remove the bumper reinforcement. Refer to [EXT-11, "Removal and Installation"](#).
11. Remove the hood switch (with theft warning systems). Refer to [SEC-SEC-166, "Removal and Installation"](#).
12. Remove the crush zone sensor. Refer to [SR-14, "Removal and Installation"](#).
13. Remove the horn. Refer to [HRN-5, "Removal and Installation"](#).
14. Remove the ambient sensor. Refer to [VTL-23, "Removal and Installation"](#).
15. Remove the radiator mounting bracket (LH/RH). Refer to [CO-13, "Removal and Installation"](#).
16. Remove the Intelligent Key warning buzzer (with Intelligent Key systems). Refer to [DLK-275, "Removal and Installation"](#).
17. Remove the charge air cooler assembly (with K9K and M9R engine models). Refer to [EM-267, "Removal and Installation"](#).
18. Remove the A/T fluid cooler assembly and the A/T fluid cooler bracket (with A/T models only). Refer to [TM-563, "FLUID COOLER : Removal and Installation"](#).
19. Remove the A/T fluid cooler pipe bracket (1) mounting bolts (A) (with A/T models only).



20. Remove the washer tank. Refer to [WW-99, "Removal and Installation"](#).

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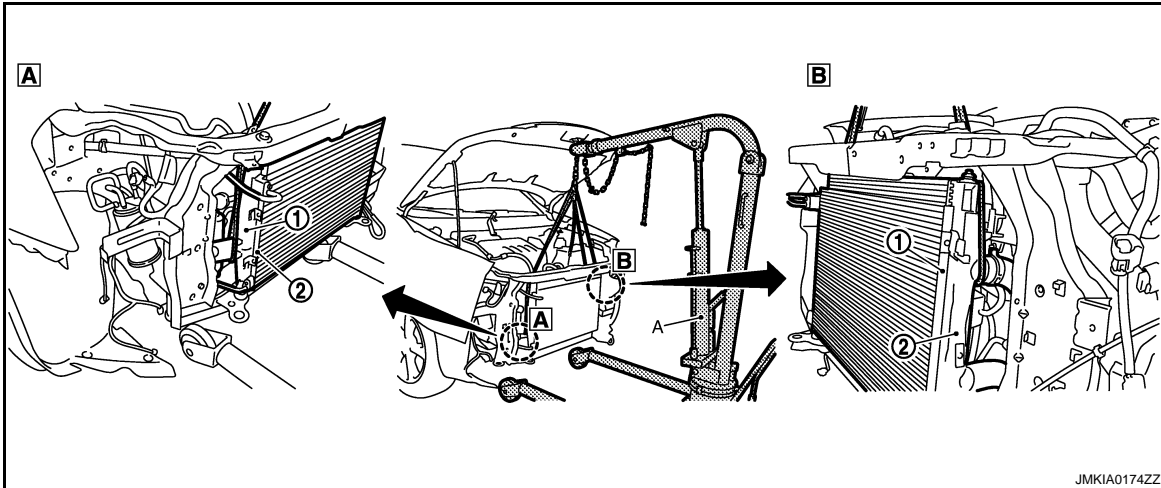
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RADIATOR CORE SUPPORT

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

21. Use the baby crane (A) or another piece of equipment to suspend the radiator (1) and condenser (2).



22. Remove the radiator core support assembly mounting bolts, and draw out the radiator core support assembly to the front of the vehicle.

23. Remove the radiator core support assembly.

24. Remove the following parts after removing the radiator core support assembly.

- Inlet tube bracket (with K9K and M9R engine models)
- Intercooler bracket (with K9K and M9R engine models)
- Apron reinforcement bracket

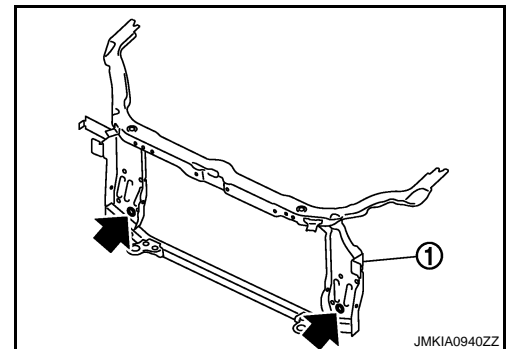
INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, refill the following parts.

- Radiator core support (1) must be aligned to engine side member vertically. Use round pin to locate through both holes.



- A/T fluid. Refer to [TM-530, "Changing"](#).
- Engine coolant. Refer to [CO-9, "Refilling"](#).

FRONT FENDER

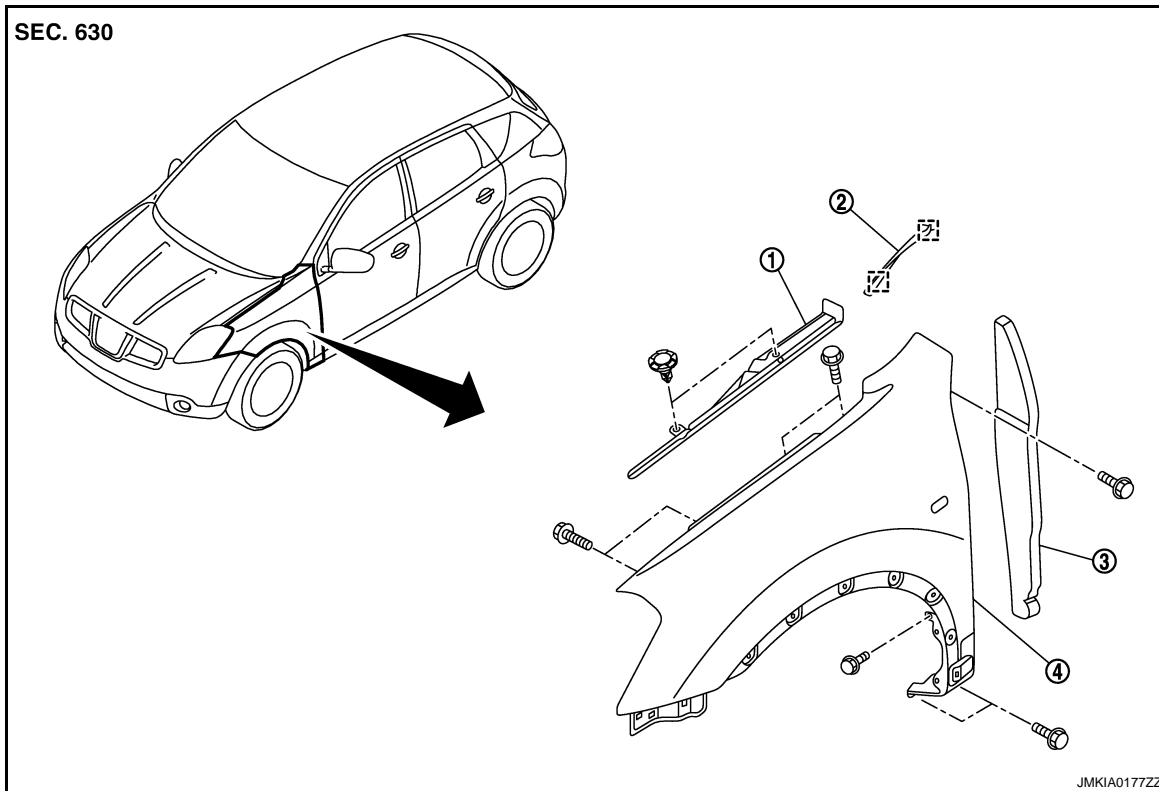
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

FRONT FENDER

Exploded View

INFOID:000000001538434



1. Hood seal assembly (side)
 2. Front fender finisher
 3. Front fender seal
 4. Front fender
- [] : Metal clip

Removal and Installation

INFOID:000000001538435

REMOVAL

1. Remove the outer fender protector. Refer to [EXT-22, "Removal and Installation"](#).
2. Remove the inner fender protector. Refer to [EXT-22, "Removal and Installation"](#).
3. Remove the side turn signal lamp. Refer to [EXL-181, "Removal and Installation"](#).
4. Remove the front bumper fascia. Refer to [EXT-11, "Removal and Installation"](#).
5. Remove the front combination lamp.
 - XENON TYPE: [EXL-175, "Removal and Installation"](#).
 - HALOGEN TYPE: [EXL-329, "Removal and Installation"](#).
6. Remove the mounting clips and remove hoodledge cover.
7. Remove the center mudguard. Refer to [EXT-28, "Removal and Installation"](#).

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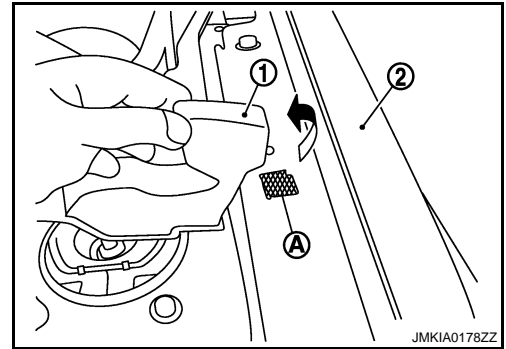
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FRONT FENDER

[WITH I-KEY & SUPER LOCK]

< ON-VEHICLE REPAIR >

8. Peel away the double-faced adhesive tape (A) of the front fender seal (1) from the front fender (2).



9. Remove the mounting bolts and remove the front fender.

CAUTION:

Use a shop cloth to protect the body from being damaged during removal.

10. Remove the following parts after removing the front fender.
- Front fender seal.
 - Bumper side bracket. Refer to [EXT-11, "Exploded View"](#).

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Replace the double-faced adhesive tape on the back of the cowl top cover seal with new tape.
- Do not wash the vehicle within 24 hours after installation so as to keep adhesive.
- After installation, apply the touch-up paint (the body color) onto the head of the front fender mounting bolts.
- After installation, check the front fender adjustment. Refer to [DLK-827, "HOOD ASSEMBLY : Adjustment"](#) and [DLK-839, "DOOR ASSEMBLY : Adjustment"](#).

FRONT DOOR

< ON-VEHICLE REPAIR >

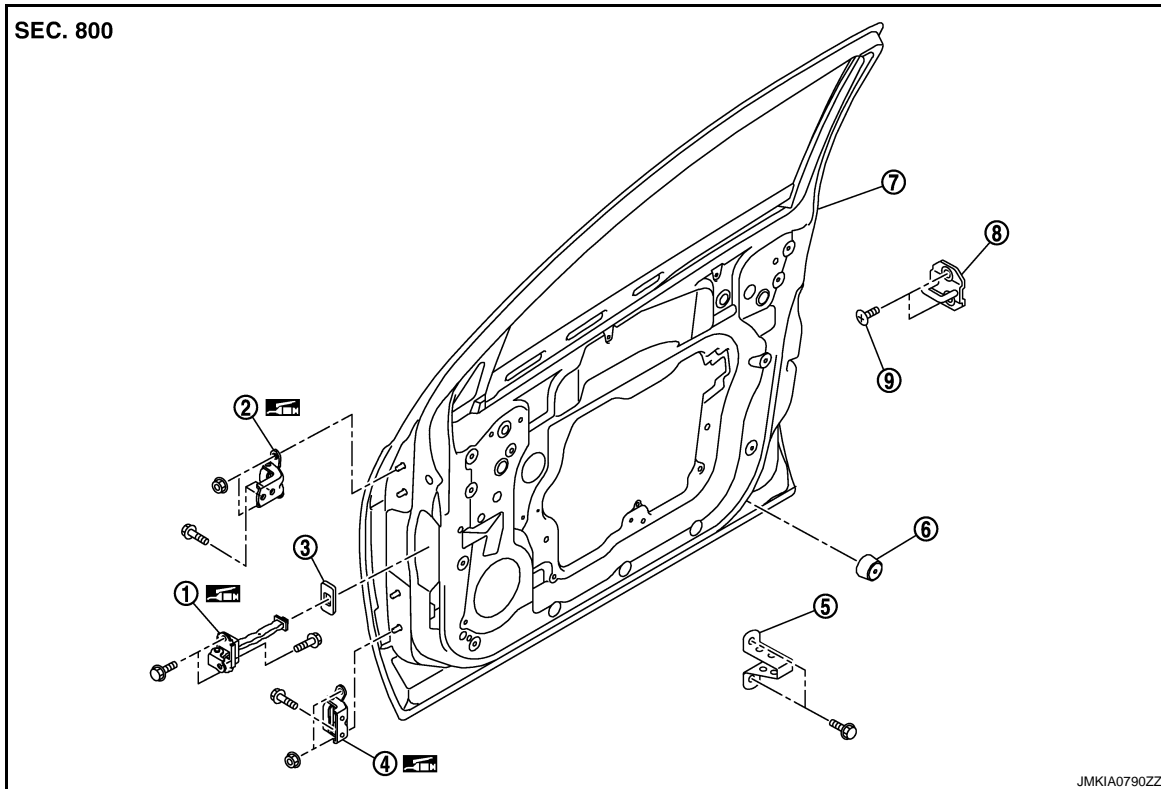
[WITH I-KEY & SUPER LOCK]

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001538436

REMOVAL



- | | | |
|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

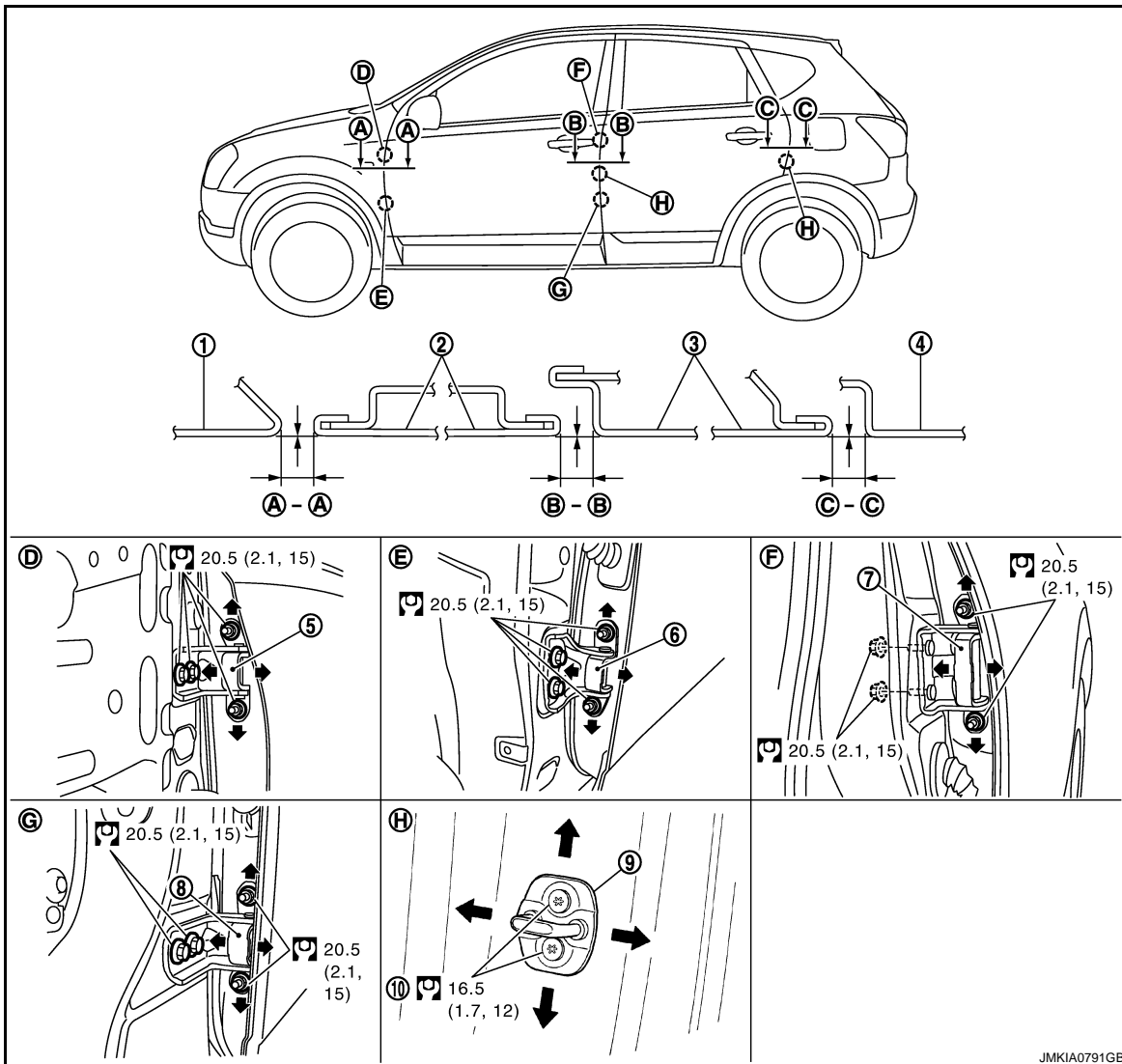
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FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]



- | | | |
|----------------------------|-----------------------------|-----------------------------|
| 1. Front fender | 2. Front door outer | 3. Rear door outer |
| 4. Rear fender | 5. Front door hinge (upper) | 6. Front door hinge (lower) |
| 7. Rear door hinge (upper) | 8. Rear door hinge (lower) | 9. Door striker |
| 10. TORX bolt | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001538437

REMOVAL

1. Remove the mounting bolt 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.

CAUTION:

- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.
- Perform work with 2 workers, because of its heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-839, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- Check the front door open/close operation after installation.

DOOR ASSEMBLY : Adjustment

INFOID:000000001538438

CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

Portion		Clearance	Surface height
Front fender – Front door	A – A	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)
Front door – Rear door	B – B	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)

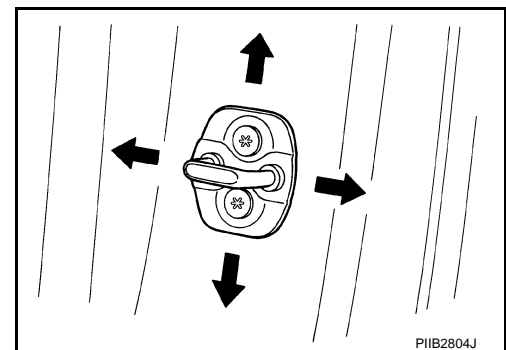
1. Check the clearance and surface height and surface mismatch between the front door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the front fender. Refer to refer to [DLK-835, "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-835, "Removal and Installation"](#).

CAUTION:

After installation, check the front fender adjustment. Refer to [DLK-827, "HOOD ASSEMBLY : Adjustment"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.



DOOR STRIKER

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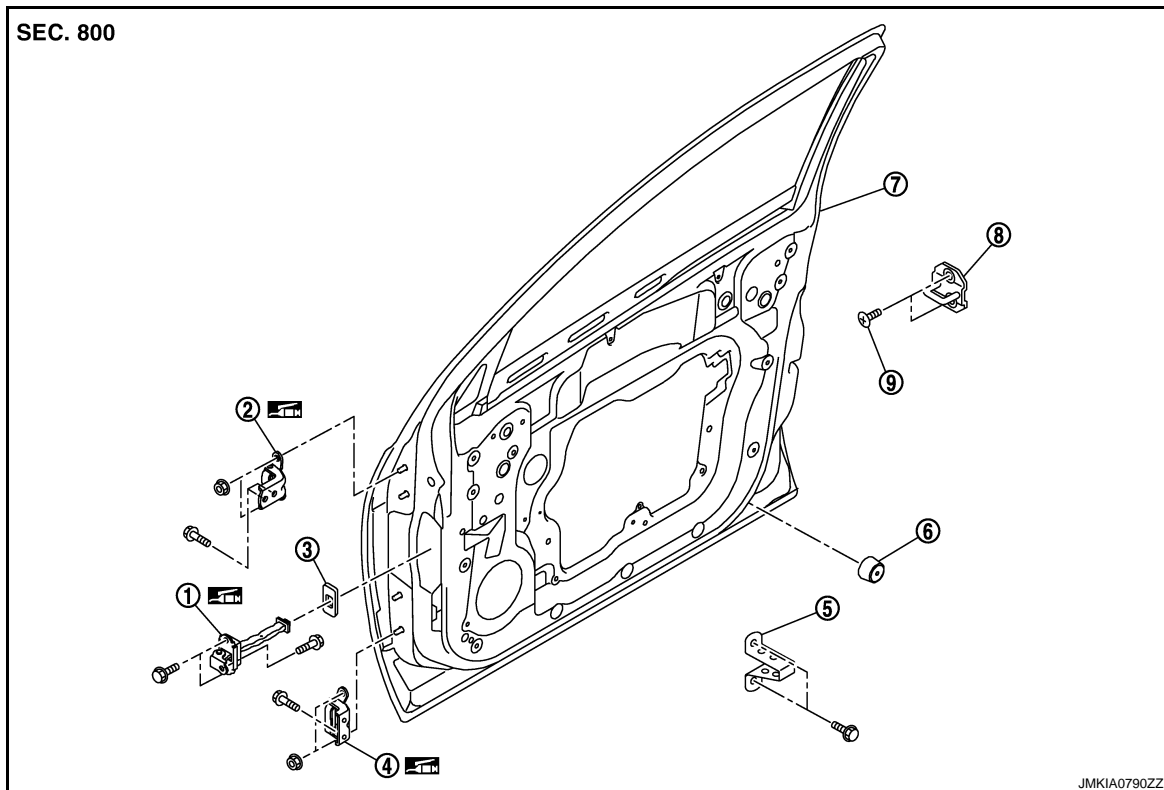
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001538439



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|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001538440

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-839. "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

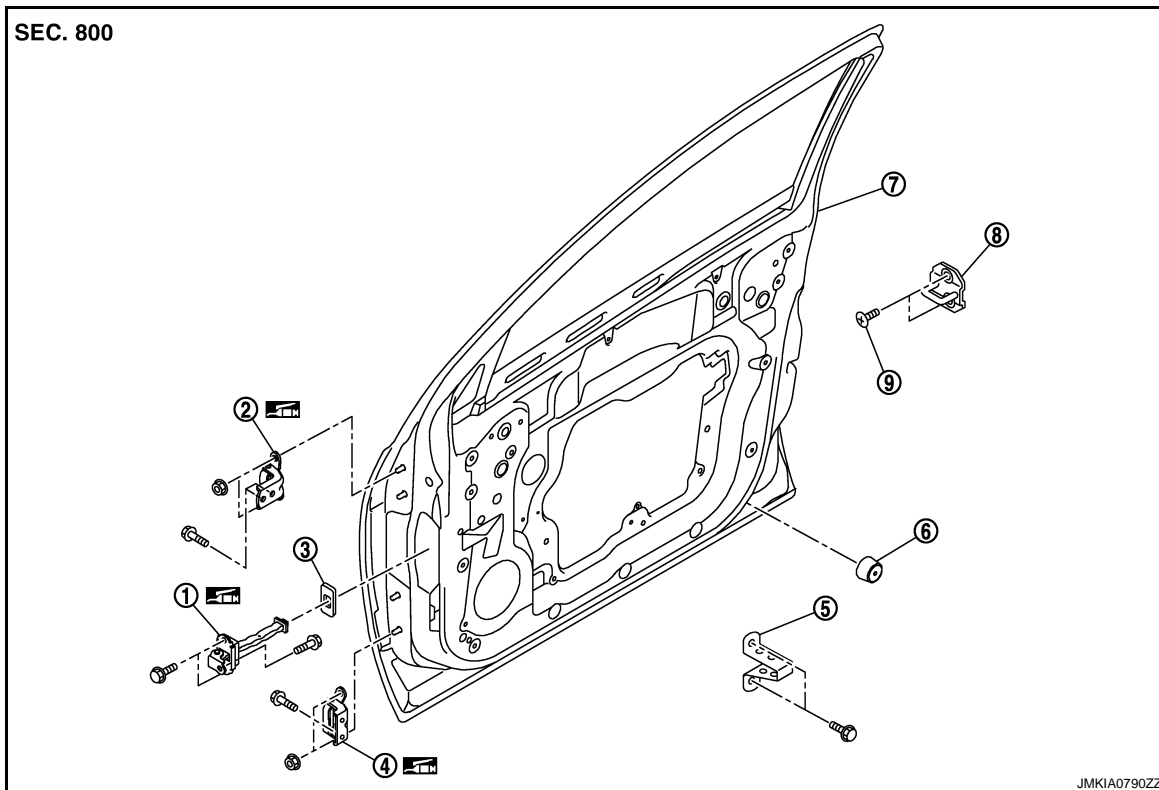
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001538442



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|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001538443

DLK

REMOVAL

1. Remove the front door assembly. Refer to [DLK-838. "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:

- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-839. "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- Check the front door open/close operation after installation.

DOOR CHECK LINK

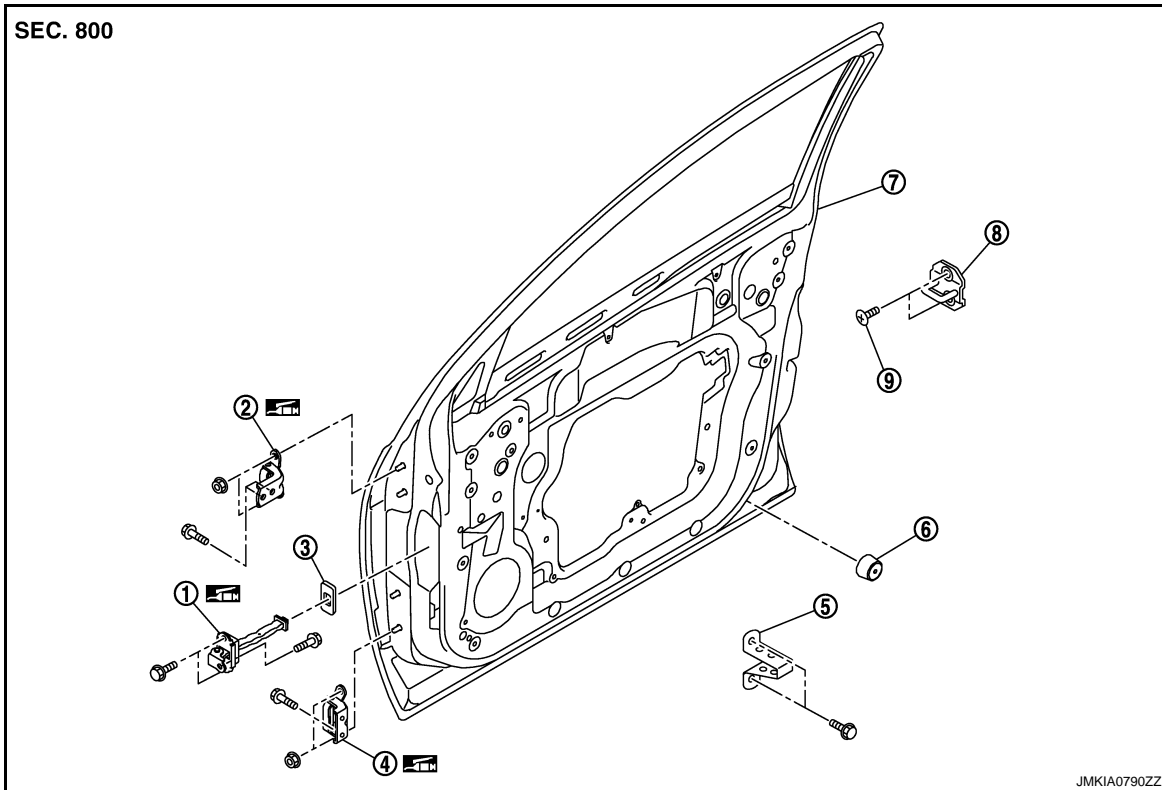
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001538445



- | | | |
|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001538446

REMOVAL

1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the front door speaker. Refer to [AV-36. "Removal and Installation"](#).
3. Remove the mounting bolt of the door check link on the vehicle.
4. Remove the door check link cover, and then remove the door check link mounting bolts.
5. Remove the door check link.

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]

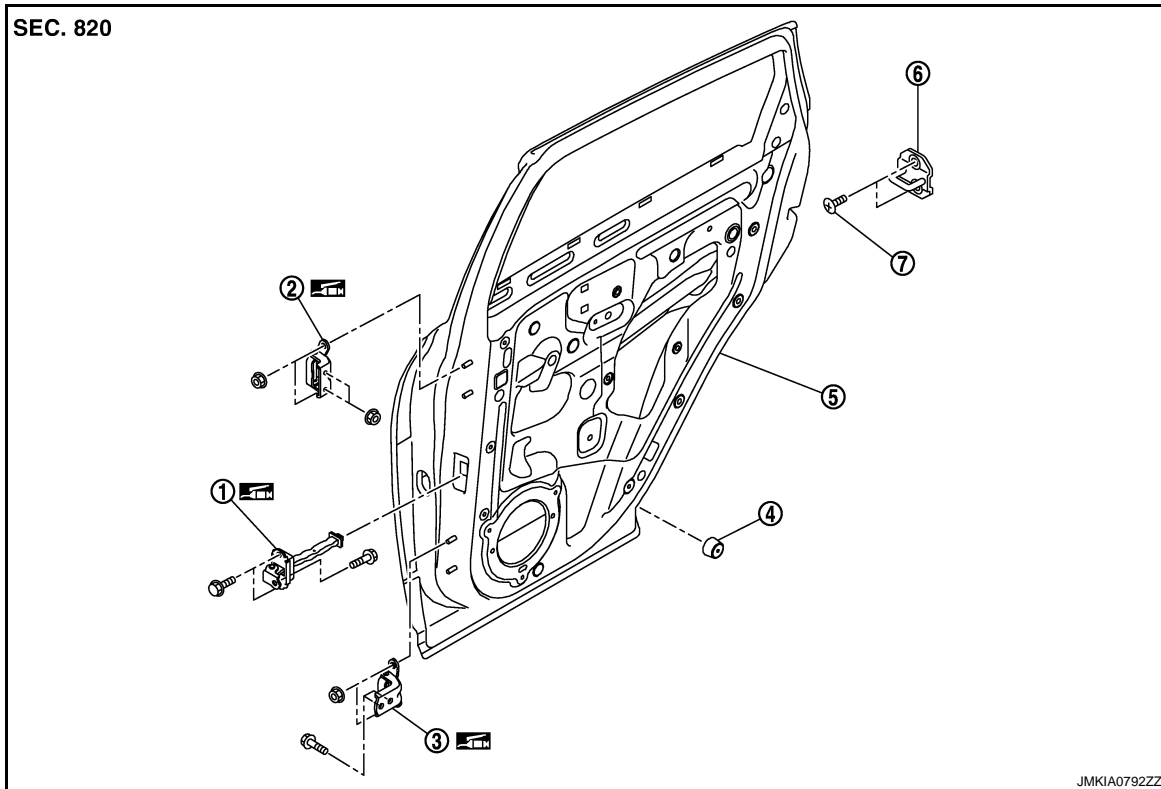
< ON-VEHICLE REPAIR >

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001538447

REMOVAL



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

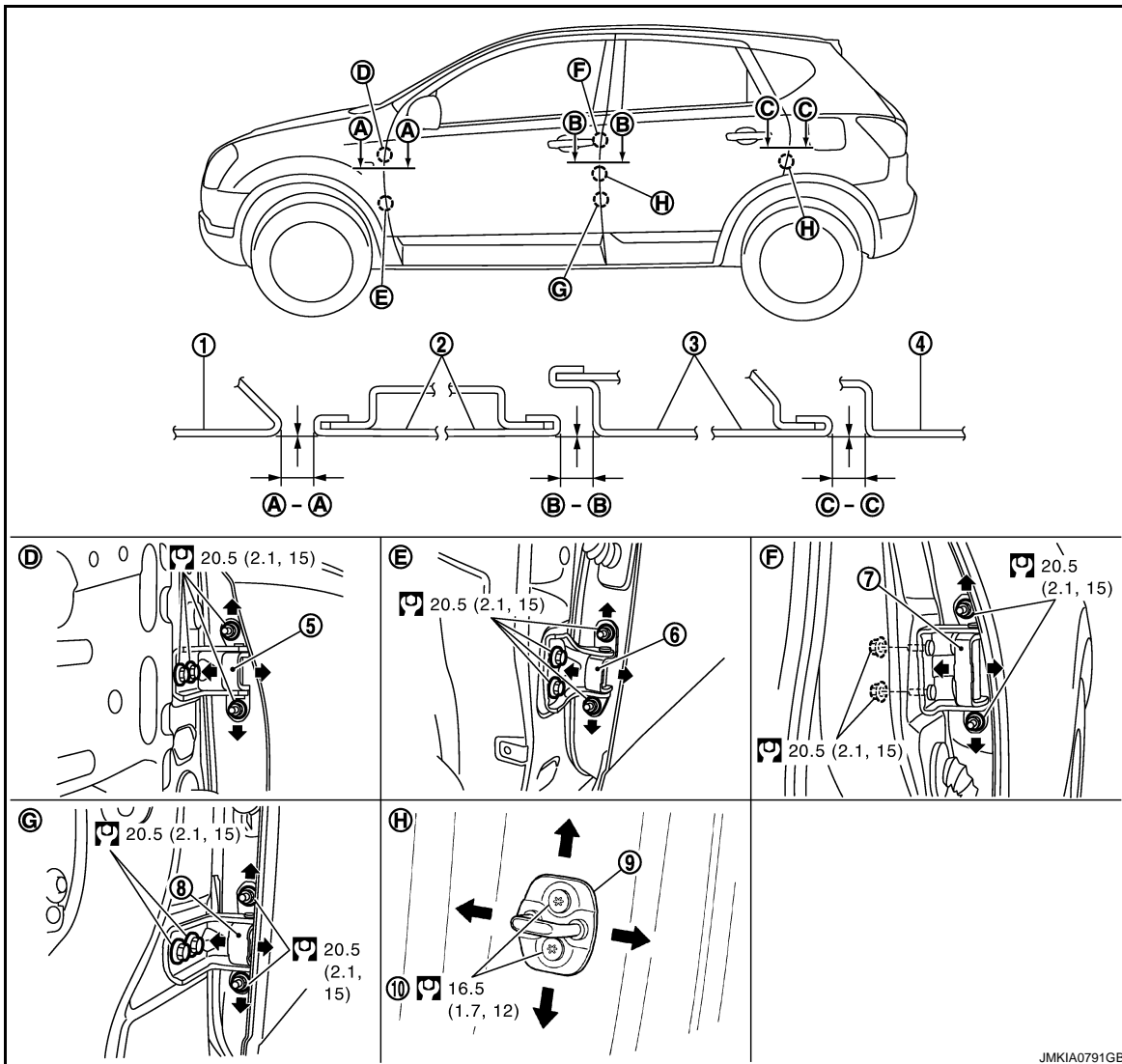
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DLK

REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]



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|----------------------------|-----------------------------|-----------------------------|
| 1. Front fender | 2. Front door outer | 3. Rear door outer |
| 4. Rear fender | 5. Front door hinge (upper) | 6. Front door hinge (lower) |
| 7. Rear door hinge (upper) | 8. Rear door hinge (lower) | 9. Striker |
| 10. TORX bolt | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001538448

REMOVAL

1. Remove the mounting bolt 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.

CAUTION:

- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.
- Perform work with 2 workers, because of it's heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

- When removing and installing the rear door assembly, perform the fitting adjustment. Refer to [DLK-845, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- Check the rear door open/close operation after installation.
- Check the rear door lock/unlock operation after installation.

DOOR ASSEMBLY : Adjustment

INFOID:000000001538449

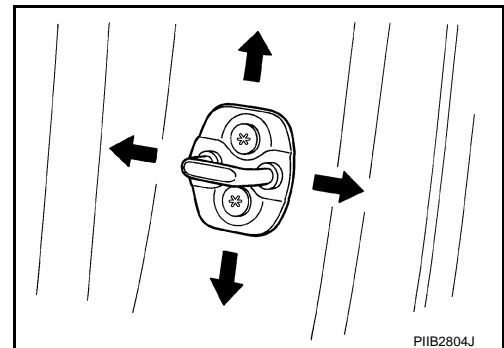
CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

Portion		Clearance	Surface height
Front door – Rear door	B – B	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)
Rear door – Rear fender	C – C	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)

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 upper garnish and center pillar lower garnish. Refer to [INT-14, "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 upper garnish and center pillar lower garnish. Refer to [INT-14, "Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.



DOOR STRIKER

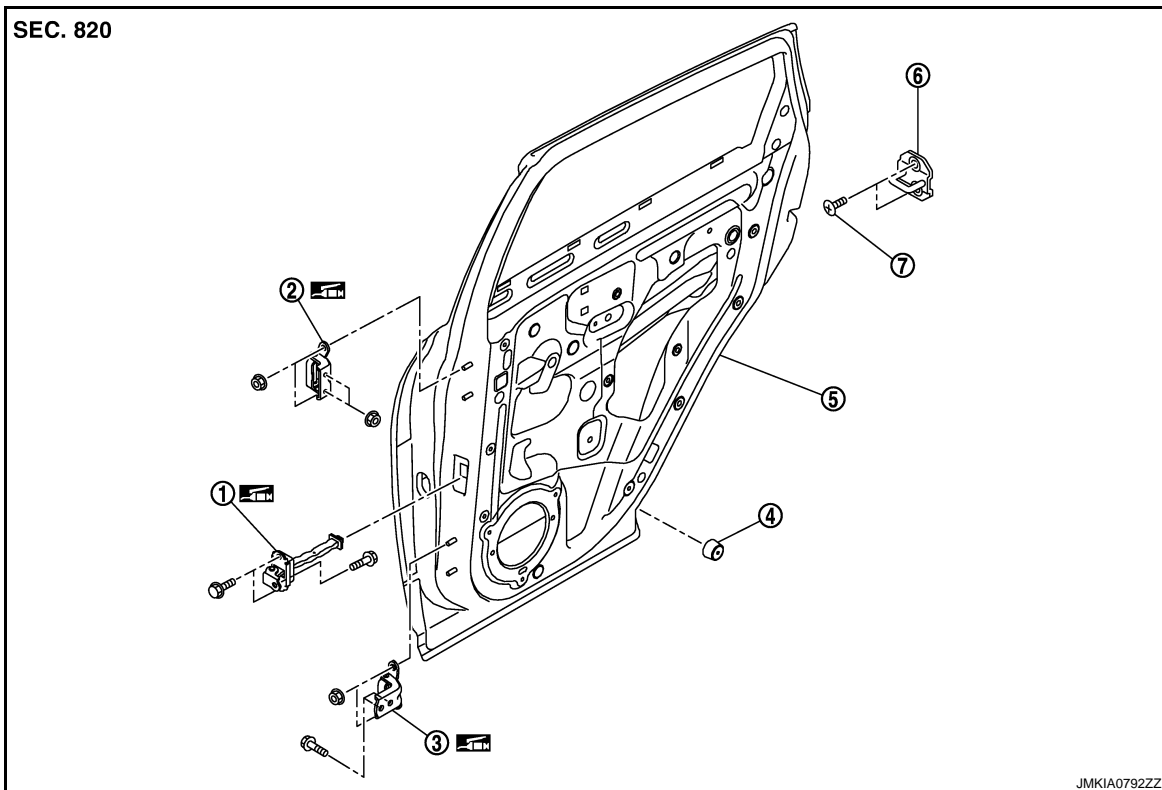
REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001538450



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|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001538451

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-845. "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

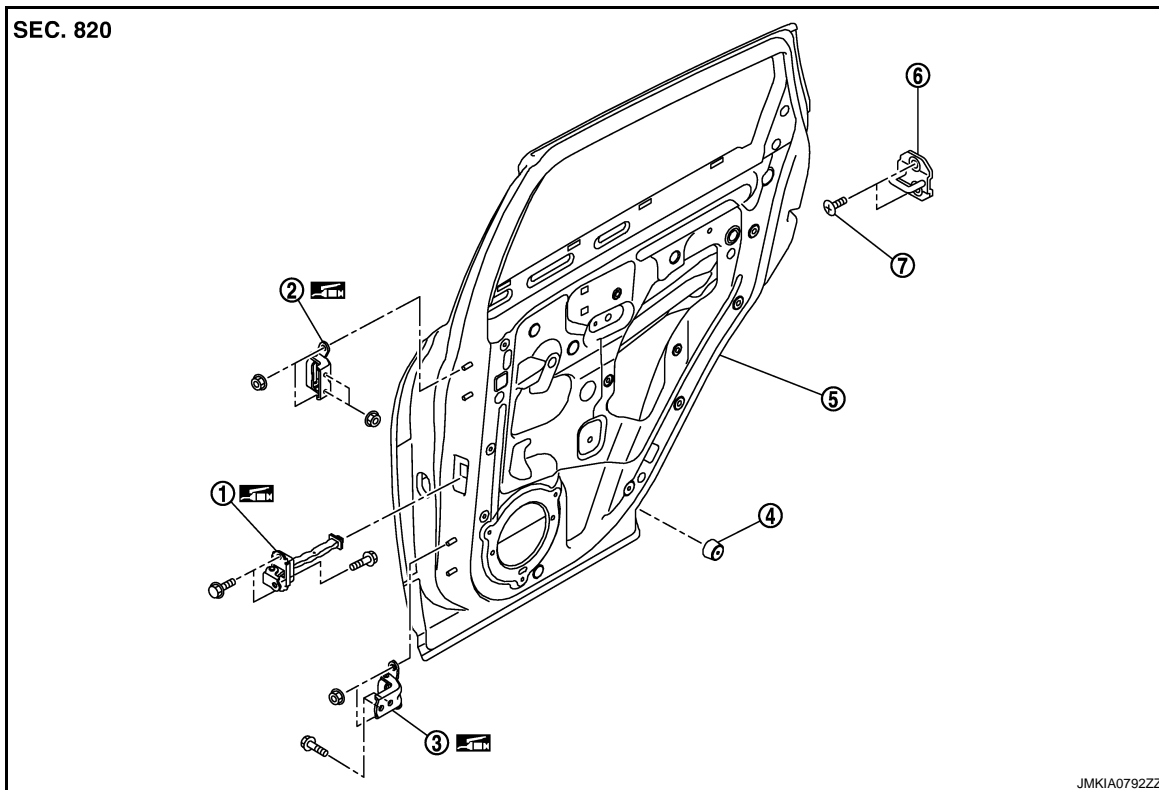
REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001538453



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001538454

DLK

REMOVAL

1. Remove the center pillar lower garnish and the center pillar upper garnish. Refer to [INT-14, "Removal and Installation"](#).
2. Remove the rear door assembly. Refer to [DLK-844, "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:

- When removing and installing the rear door assembly, perform the fitting adjustment. Refer to [DLK-845, "DOOR ASSEMBLY : Adjustment"](#).
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installing, apply the touch-up paint (the body color) onto the head of the hinge mounting nuts.
- Check the rear door open/close operation after installation.

DOOR CHECK LINK

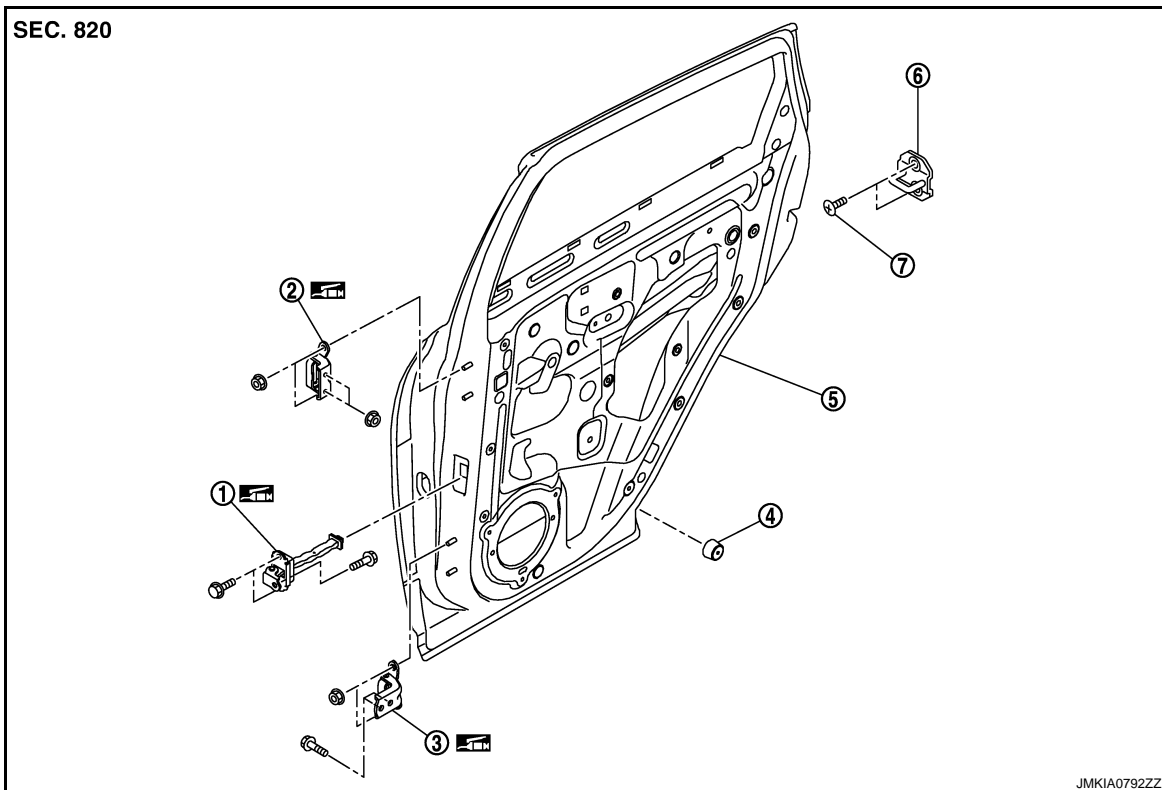
REAR DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001538456



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001538457

REMOVAL

1. Remove the rear door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the rear door sealing screen.
3. Remove the mounting bolt of the check link on the vehicle.
4. Remove the door check link cover, and then remove the door check link mounting bolts.
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]

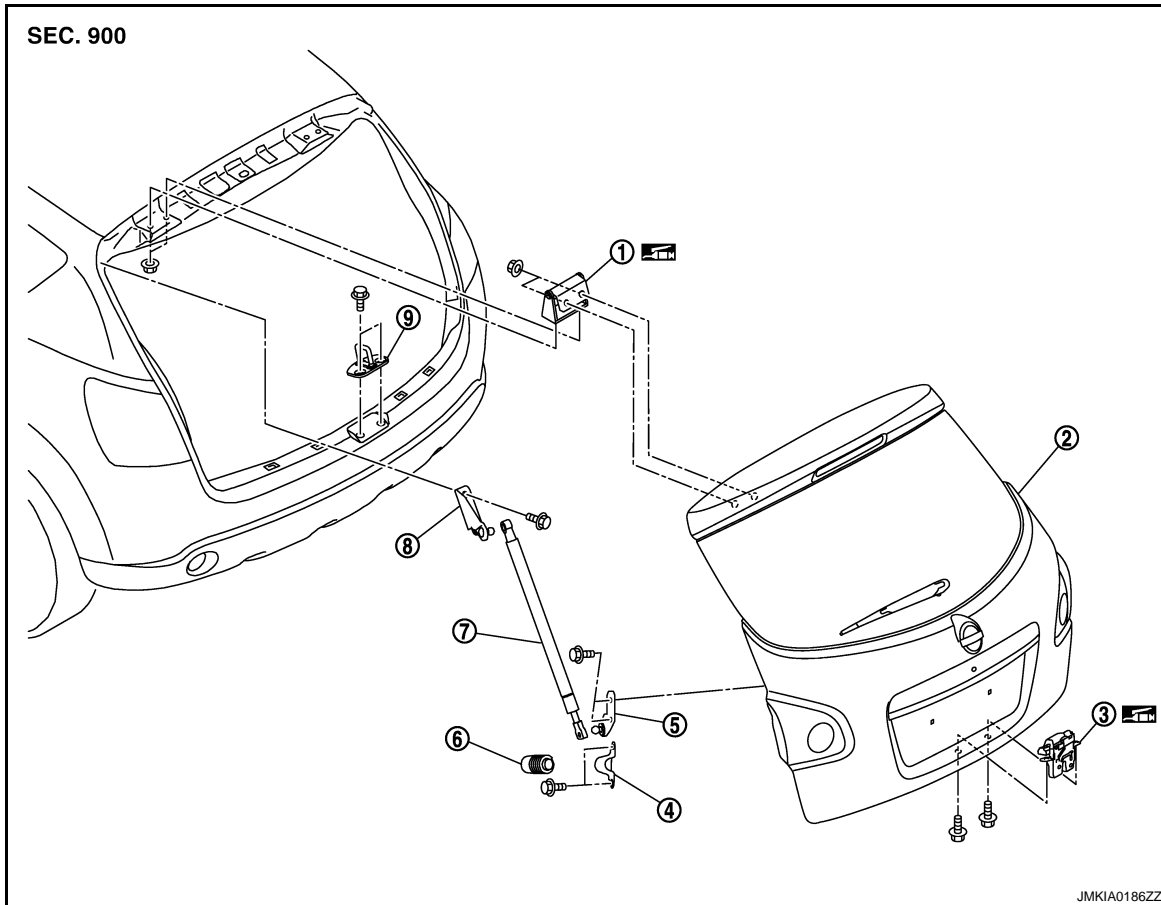
BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:000000001538458

REMOVAL



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|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

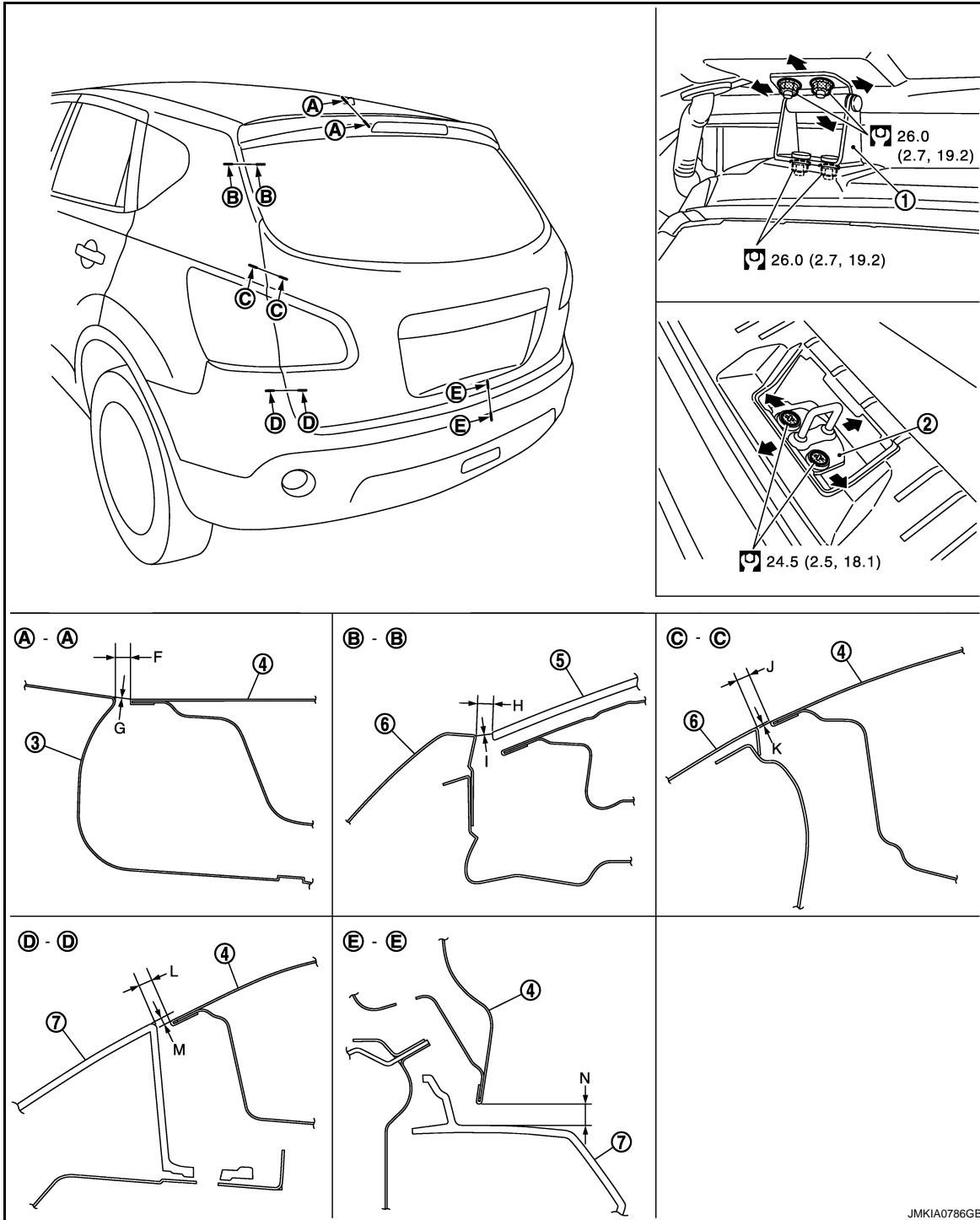
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BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]



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|-----------------------|----------------------|--------------------|
| 1. Back door hinge | 2. Back door striker | 3. Roof panel |
| 4. Back door outer | 5. Back door glass | 6. Body side outer |
| 7. Rear bumper fascia | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000001538459

REMOVAL

1. Remove the back door finisher inner. Refer to [INT-26, "Removal and Installation"](#).
2. Remove the back door window glass. Refer to [GW-17, "Removal and Installation"](#).

NOTE:

DLK-516

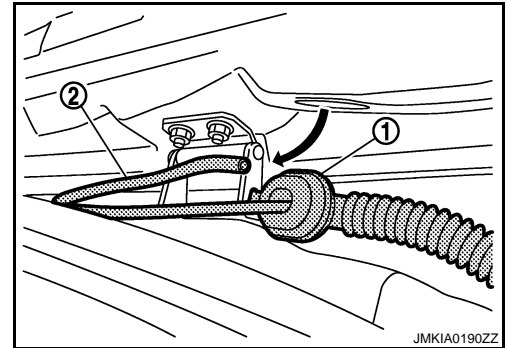
BACK DOOR

[WITH I-KEY & SUPER LOCK]

< ON-VEHICLE REPAIR >

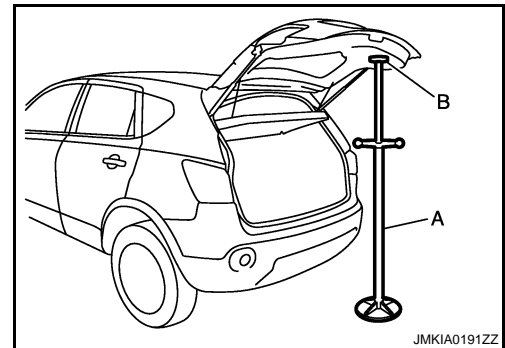
It is necessary to remove back door window glass in order to remove harness, because harness connector interferes with back door window glass pin.

3. Disconnect the connectors in the back door, and then remove the grommet, and pull out the harness.
4. Remove the parcel shelf. Refer to [INT-24. "Removal and Installation"](#).
5. Remove the high-mounted stop lamp. Refer to [EXL-186. "Removal and Installation"](#).
6. Remove the grommet (1), and then pull out the washer tube (2) .

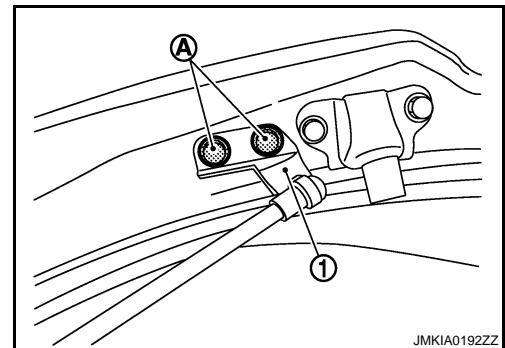


7. Pull the harness out of the back door.
8. Support the back door lock with the proper material to prevent it from falling.

- A : Jack
- B : Shop cloth



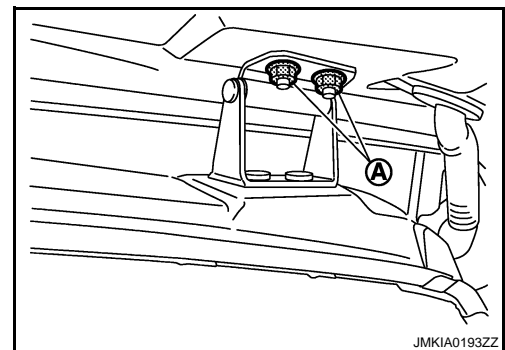
9. Remove the back door stay bracket (1) mounting bolts (A) on the back door.



10. Remove the back door hinge mounting nuts (A) 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:

- Perform work with 2 workers, because of its heavy weight.

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BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

- After installation, perform fitting adjustment. Refer to [DLK-852, "BACK DOOR ASSEMBLY : Adjustment"](#).
- Check the back door open/close operation after installation.
- Check the back door lock/unlock operation after installation.

BACK DOOR ASSEMBLY : Adjustment

INFOID:000000001538460

Portion			Standard	Difference(RH/LH)
Back door panel – Roof panel	A – A	F	Clearance 5.0 – 7.0 mm (0.197 – 0.276 in)	—
		G	Surface height 0.0 – 2.0 mm (0.000 – 0.079 in)	—
Back door glass – Body side outer	B – B	H	Clearance 3.9 – 8.1 mm (0.154 – 0.319 in)	2.1 mm (0.083 in)
		I	Surface height - 1.0 – 3.1 mm (- 0.039 – 0.122 in)	2.0 mm (0.079 in)
Back door panel – Body side outer	C – C	J	Clearance 3.5 – 6.5 mm (0.138 – 0.256 in)	2.0 mm (0.079 in)
		K	Surface height - 1.0 – 1.0 mm (- 0.039 – 0.039 in)	—
Back door panel – Rear bumper fascia	D – D	L	Clearance 4.0 – 8.0 mm (0.157 – 0.315 in)	2.0 mm (0.079 in)
		M	Surface height 0.1 – 4.1 mm (0.004 – 0.161 in)	2.1 mm (0.083 in)
Back door panel – Rear bumper fascia	E – E	N	Clearance 5.8 – 10.2 mm (0.228 – 0.402 in)	—

FITTING ADJUSTMENT

1. 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.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Loosen the bumper rubber.
4. Loosen the back door striker mounting bolts.
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

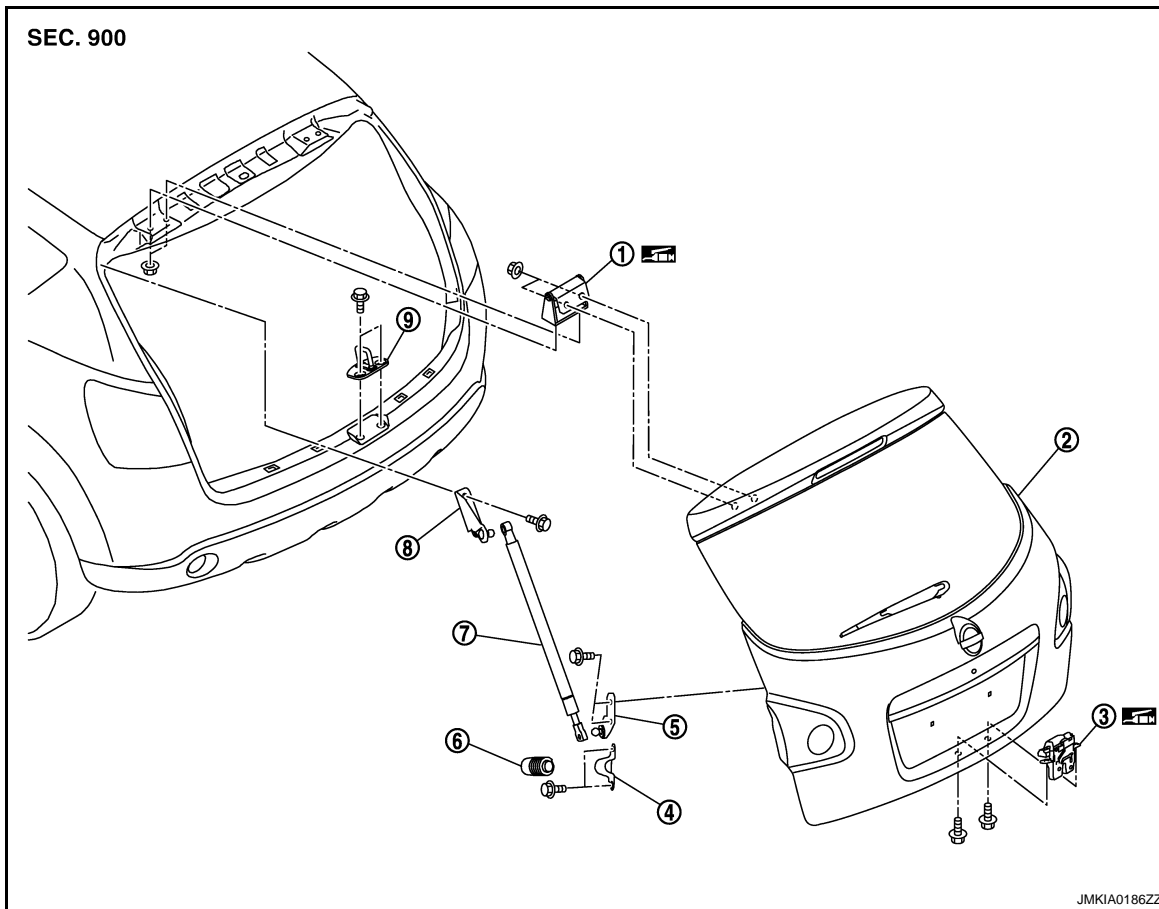
BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

BACK DOOR STRIKER : Exploded View

INFOID:000000001538461



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|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STRIKER : Removal and Installation

INFOID:000000001538462

REMOVAL

1. Remove the luggage rear plate cap. Refer to [INT-24. "Removal and Installation"](#).
2. Remove the mounting bolts, and then remove the back door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- When removing and installing the back door striker, be sure to perform the fitting adjustment. Refer to [DLK-852. "BACK DOOR ASSEMBLY : Adjustment"](#).
- Check the back door open/close operation after installation.

BACK DOOR HINGE

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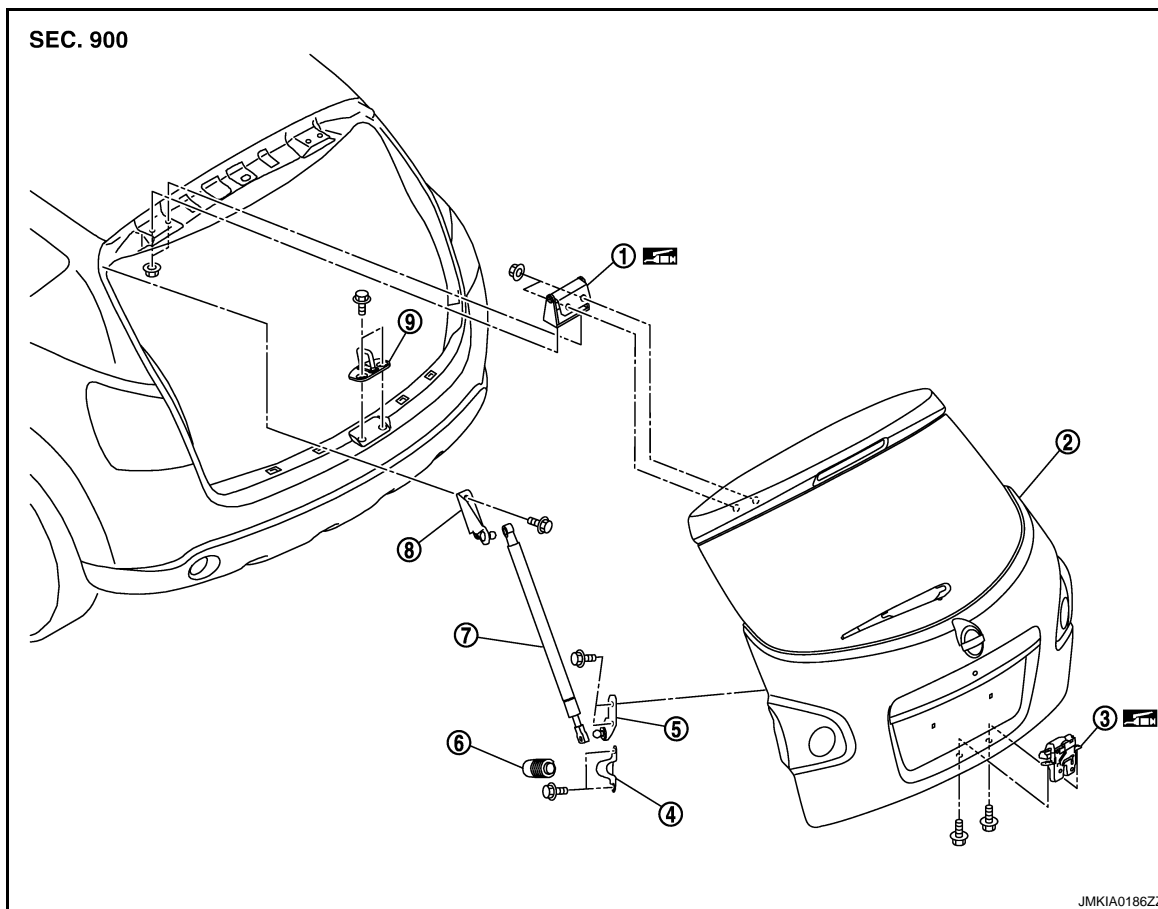
BACK DOOR

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

BACK DOOR HINGE : Exploded View

INFOID:000000001538464



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR HINGE : Removal and Installation

INFOID:000000001538465

REMOVAL

1. Remove the back door assembly. Refer to [DLK-850, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove upper side of the back door weatherstrip. Refer to [DLK-856, "BACK DOOR WEATHER-STRIP : Removal and Installation"](#).
3. Remove rear seat belt cover. Refer to [INT-21, "Removal and Installation"](#).
4. Using remover tool, remove the headlining clip at the rear side of the headlining.
Refer to [INT-20, "Exploded View"](#).
5. Remove the rear side of the headlining.
6. 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:

- When removing and installing the back door assembly, perform the fitting adjustment. Refer to [DLK-852, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting nuts.
- Check the hinge rotating part for poor lubrication. If necessary, apply body grease.

BACK DOOR

< ON-VEHICLE REPAIR >

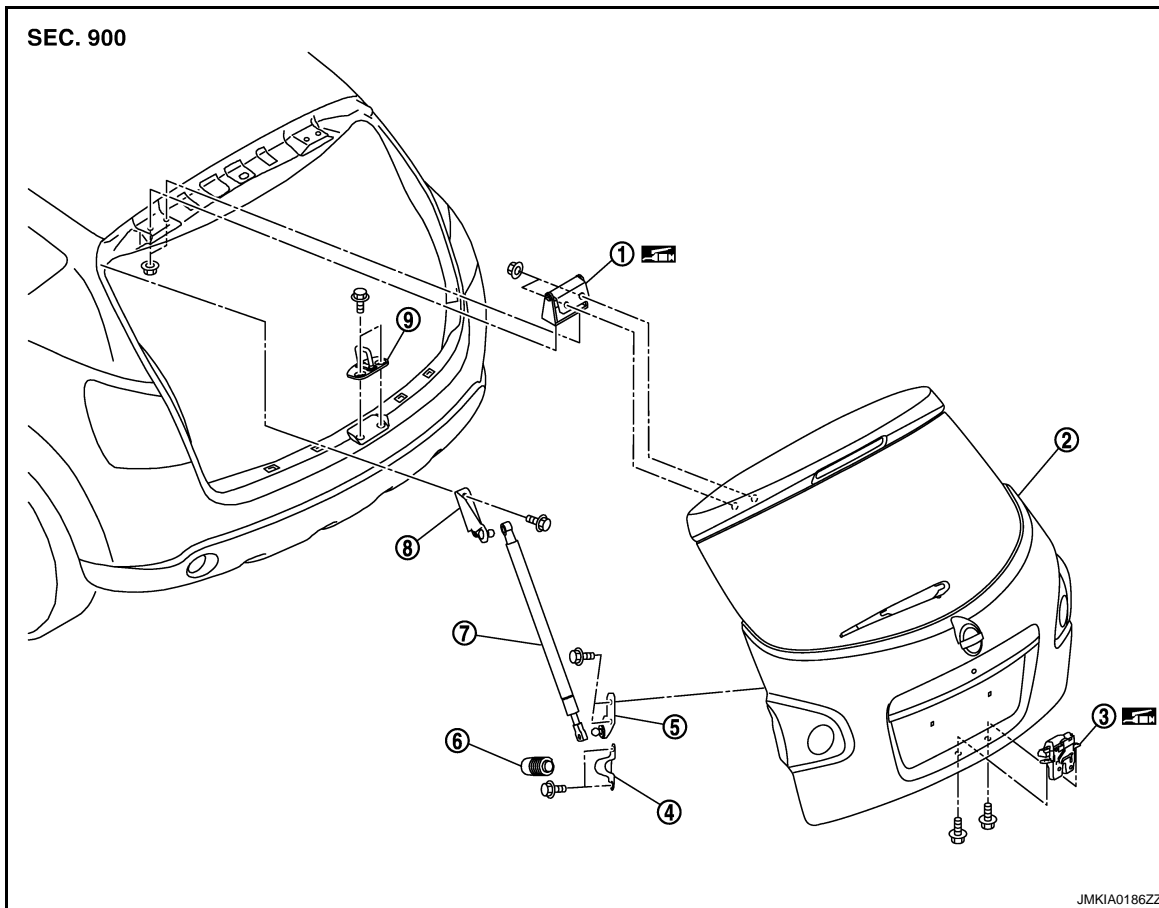
[WITH I-KEY & SUPER LOCK]

- Check the back door open/close operation after installation.

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:000000001538467



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|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STAY : Removal and Installation

INFOID:000000001538468

REMOVAL

1. Remove the mounting bolts, and then remove the back door stay bracket on body side.
2. Remove the stud ball, and then remove the back door stay on back door side.

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:000000001538469

REMOVAL

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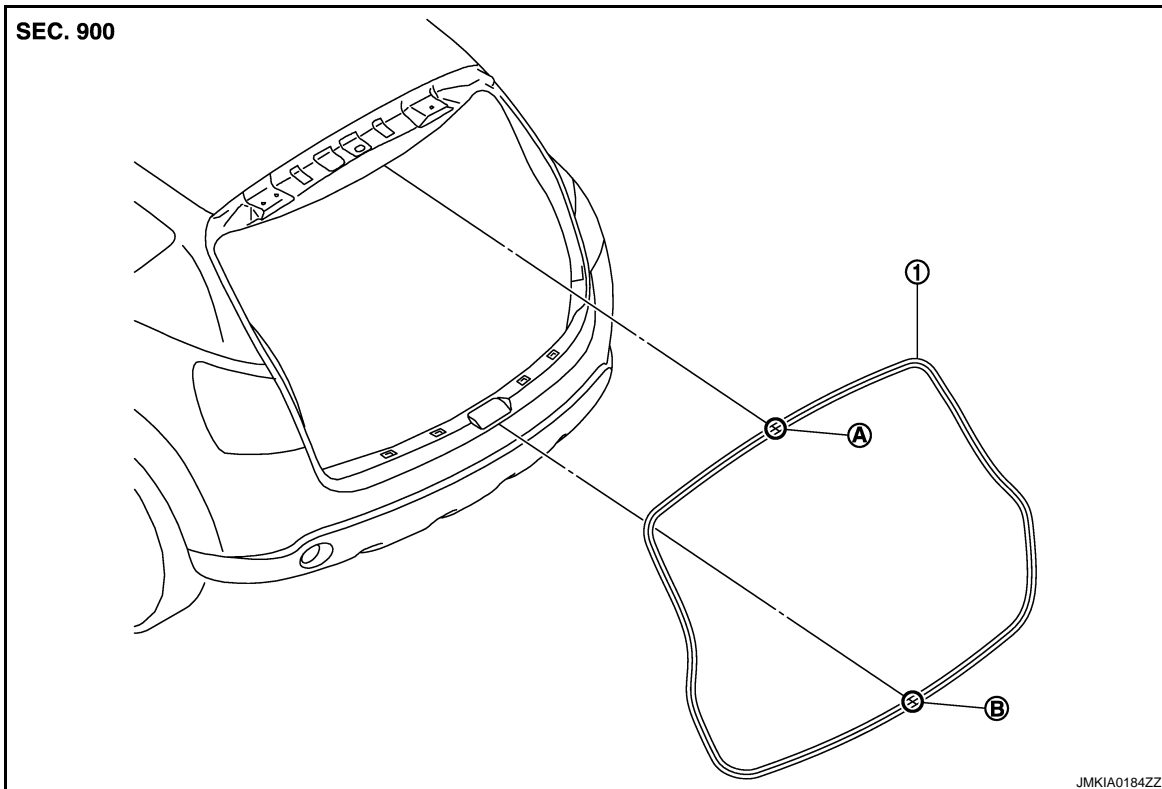
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- 1. Back door weatherstrip
- A. Mark (upper)
- B. Mark (lower)

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000001538470

REMOVAL

Pull up and remove engagement with body from the weatherstrip joint.

CAUTION:

After removal, do not pull strongly on the weather-strip.

INSTALLATION

1. Working from the upper section, align the weatherstrip mark with vehicle center position mark and install the weatherstrip onto the vehicle.
2. For the lower section, align the weatherstrip seam with center of the back door striker.
3. After installation, pull the weatherstrip gently to ensure that there is no loose section.

NOTE:

Make sure that the weatherstrip is fit tightly at each corner and the luggage rear plate.

FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

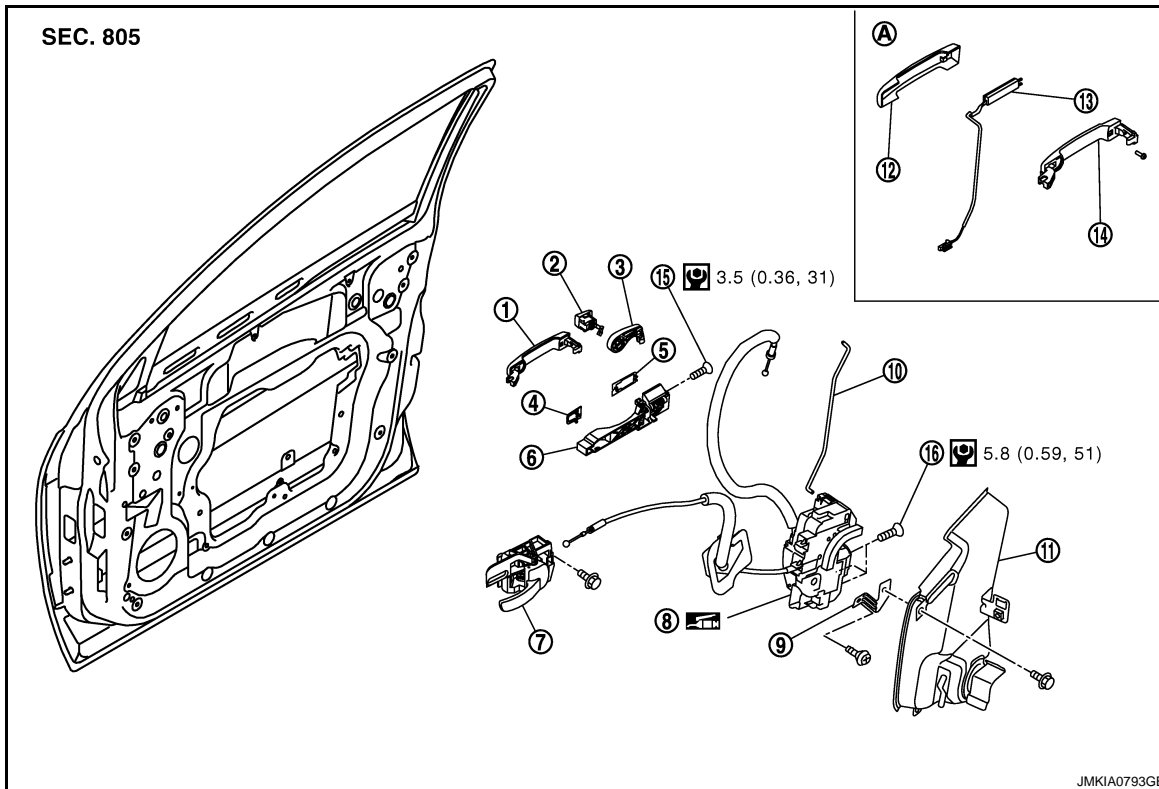
[WITH I-KEY & SUPER LOCK]

FRONT DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001538471



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|--|--|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder | 3. Key cylinder lever |
| 4. Front gasket | 5. Rear gasket | 6. Outside handle bracket |
| 7. Inside handle | 8. Door lock assembly | 9. Key cylinder rod |
| 10. Key rod protector(SUPER LOCK model only) | 11. Key rod protector assembly (SUPER LOCK and RH handle model only) | 12. Outside handle cover |
| 13. Antenna | 14. Outside handle base | 15. TORX bolt |
| 16. TORX bolt | | |

A: Intelligent Key only

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001538472

REMOVAL

1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolt, and then disconnect the inside handle cable.
3. Remove the front door glass. Refer to [GW-19. "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-22. "Removal and Installation"](#).
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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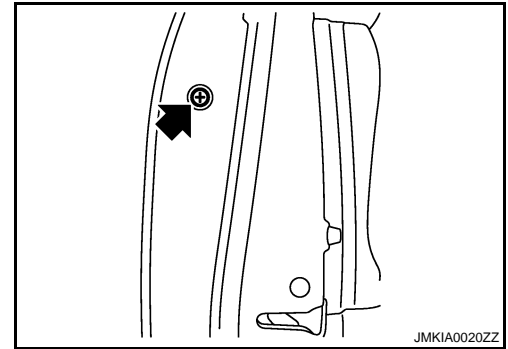
FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

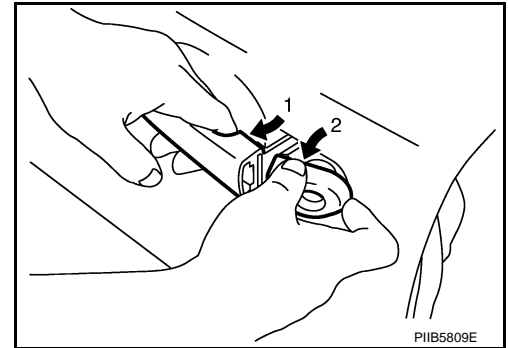
[WITH I-KEY & SUPER LOCK]

6. Remove the door side grommet, and loosen TORX bolt from grommet hole.

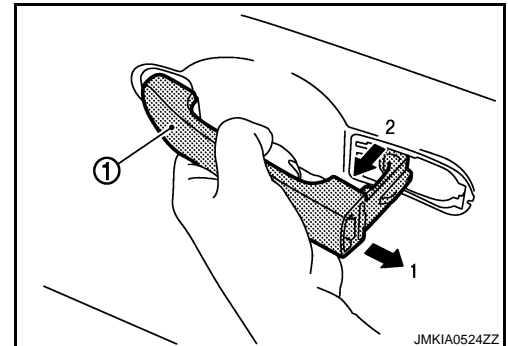
CAUTION:
Do not forcibly remove the bolts.



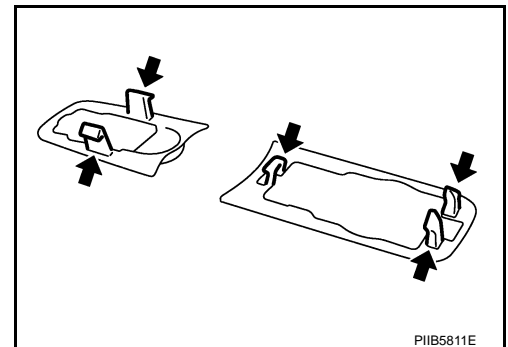
7. Reach in to separate the key cylinder rod connection (on the handle).
8. Disconnect the door key cylinder switch harness connector.
9. Remove the key cylinder lever from the door key cylinder.
10. While pulling the outside handle, remove door key cylinder assembly.



11. Disconnect front door request switch harness connector (models with Intelligent Key system).
12. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



13. Remove the front gasket and the rear gasket.



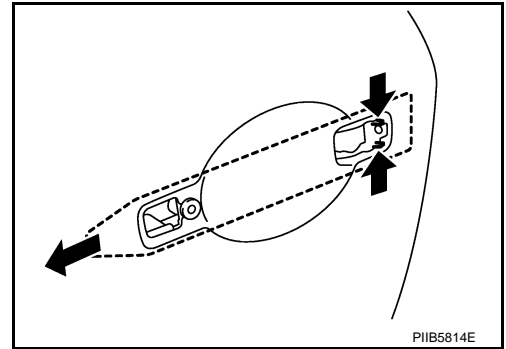
14. Remove the door lock assembly TORX bolts.
15. Disconnect the door lock actuator connector, and then remove the door lock assembly.

FRONT DOOR LOCK

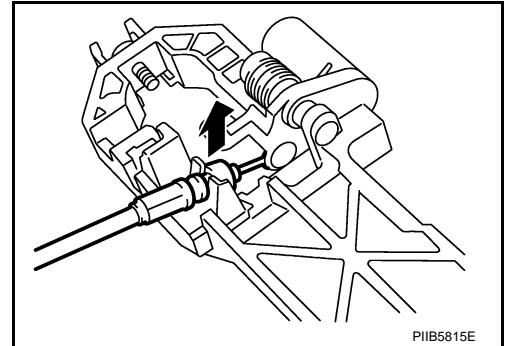
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

16. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



17. Reach in to separate the outside handle cable connection.



INSTALLATION

Install in the reverse order of removal.

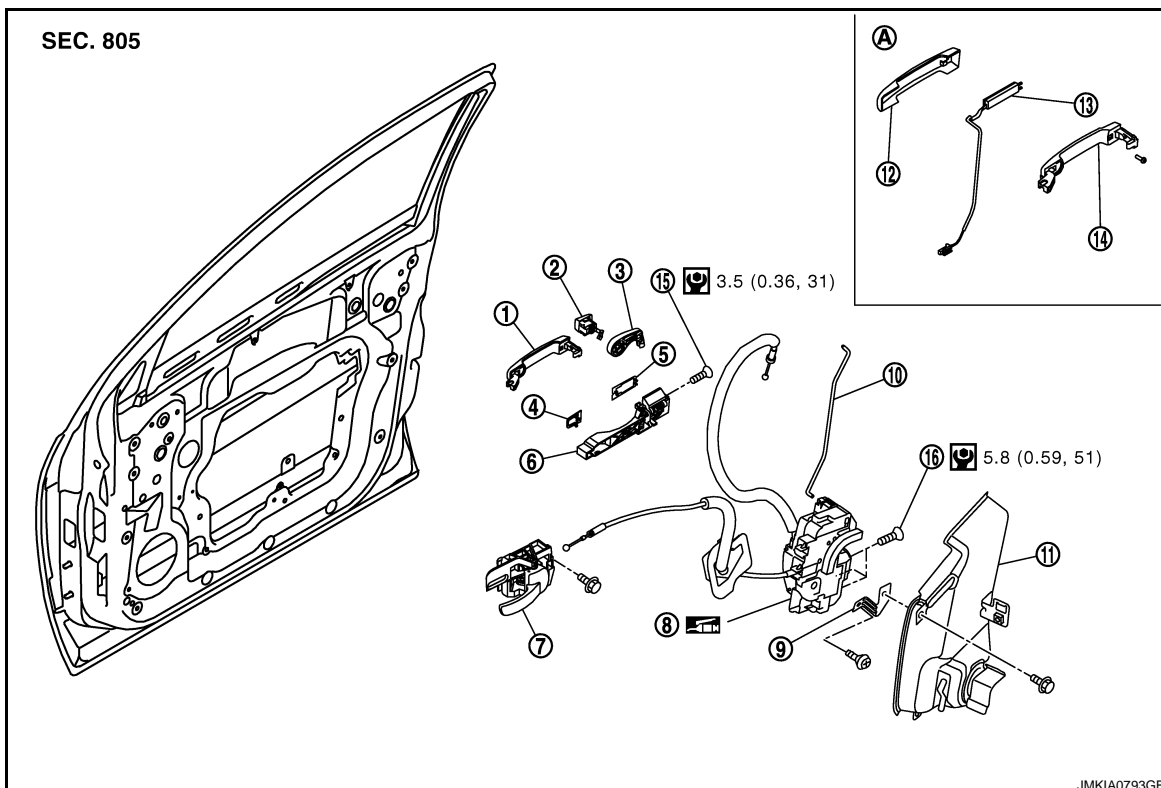
CAUTION:

- 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.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000001538474



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FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

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|--|--|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder | 3. Key cylinder lever |
| 4. Front gasket | 5. Rear gasket | 6. Outside handle bracket |
| 7. Inside handle | 8. Door lock assembly | 9. Key cylinder rod |
| 10. Key rod protector(SUPER LOCK model only) | 11. Key rod protector assembly (SUPER LOCK and RH handle model only) | 12. Outside handle cover |
| 13. Antenna | 14. Outside handle base | 15. TORX bolt |
| 16. TORX bolt | | |

A: Intelligent Key only

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001538475

REMOVAL

1. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolt.
3. Disconnect the inside handle cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

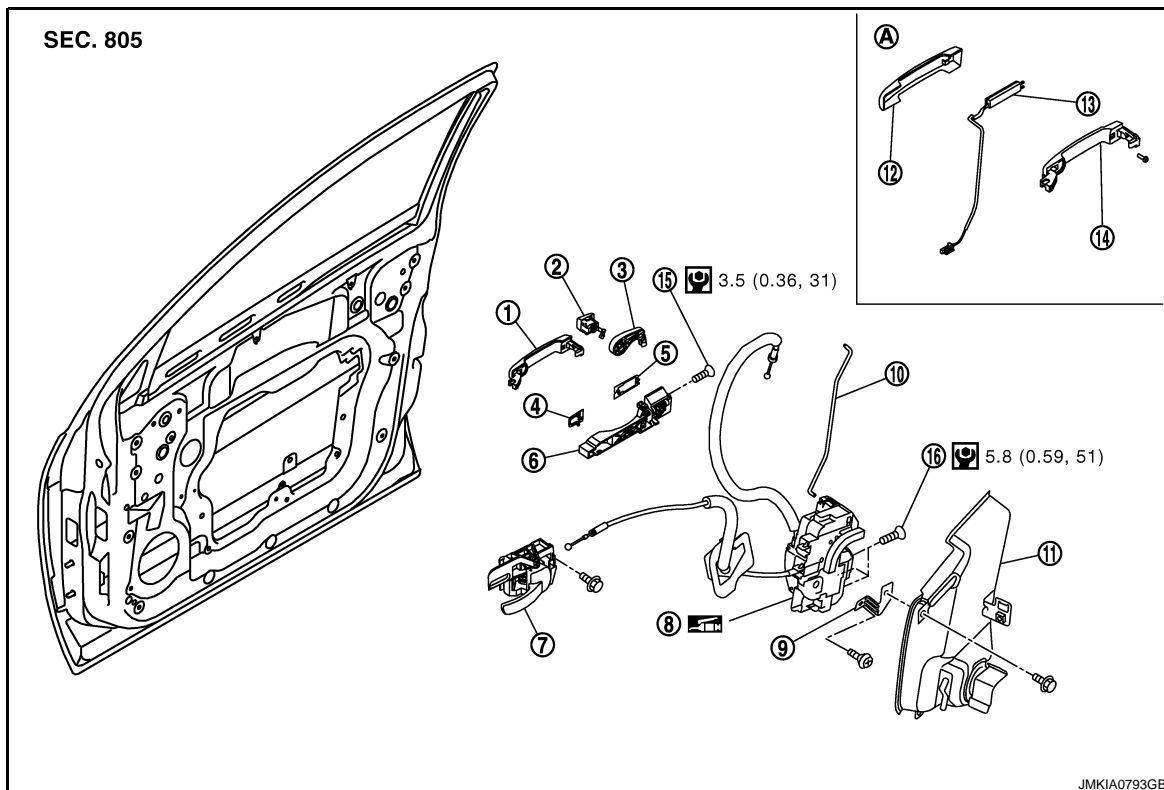
CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:000000001538477



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|----------------------------|-----------------------|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder | 3. Key cylinder lever |
| 4. Front gasket | 5. Rear gasket | 6. Outside handle bracket |
| 7. Inside handle | 8. Door lock assembly | 9. Key cylinder rod |

FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

- | | | |
|--|--|--------------------------|
| 10. Key rod protector(SUPER LOCK model only) | 11. Key rod protector assembly (SUPER LOCK and RH handle model only) | 12. Outside handle cover |
| 13. Antenna | 14. Outside handle base | 15. TORX bolt |
| 16. TORX bolt | | |

A: Intelligent Key only

Refer to [GI-4. "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

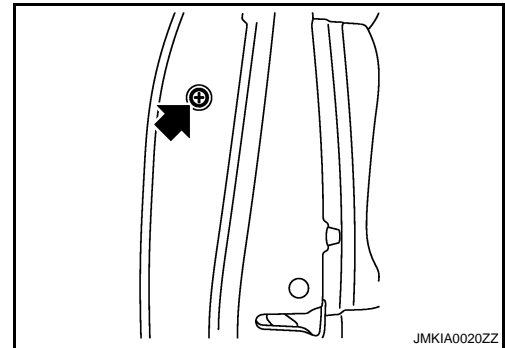
INFOID:000000001538478

REMOVAL

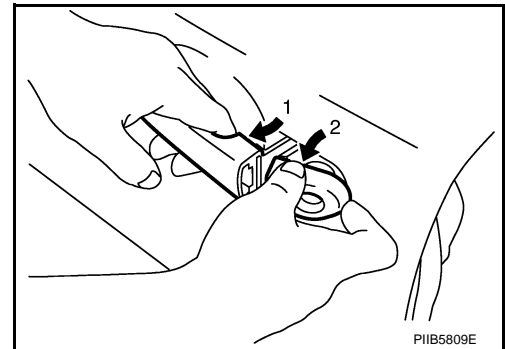
1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolt, and disconnect the inside handle knob cable and the lock knob cable.
3. Remove the front door glass. Refer to [GW-19. "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-22. "Removal and Installation"](#).
5. Disconnect the door antenna and the door request switch connector and remove the harness clamp (models with Intelligent Key system).
6. Remove the door side grommet, and loosen TORX bolt from the grommet hole.

CAUTION:

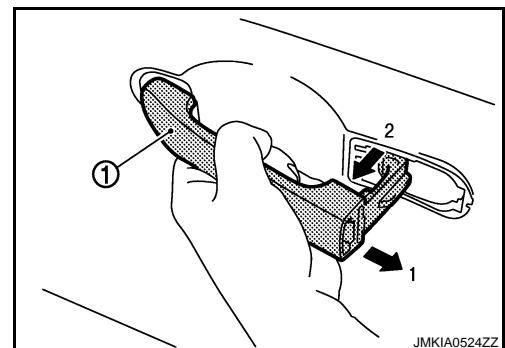
Do not forcibly remove the bolts .



7. Reach in to separate the key cylinder rod connection (on the handle).
8. Disconnect the door key cylinder switch harness connector.
9. Remove the key cylinder lever from the door key cylinder.
10. While pulling the outside handle, remove the door key cylinder assembly.



11. Disconnect the front door request switch harness connector (models with Intelligent Key system).
12. While pulling the outside handle (1), slide toward rear of vehicle to remove the outside handle.



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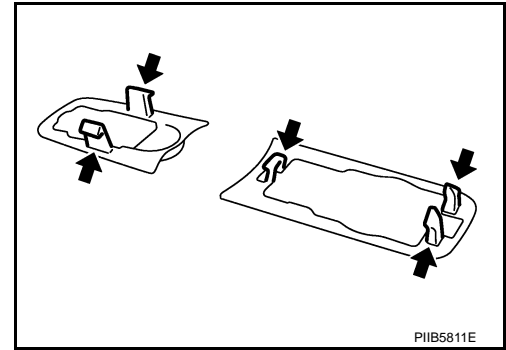
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FRONT DOOR LOCK

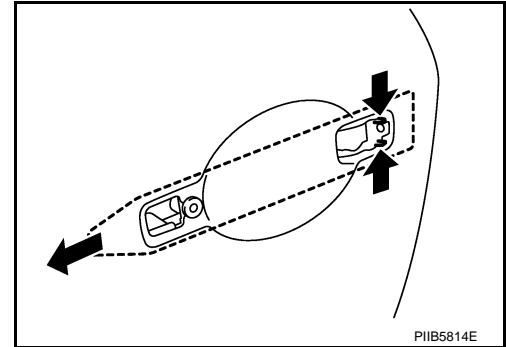
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

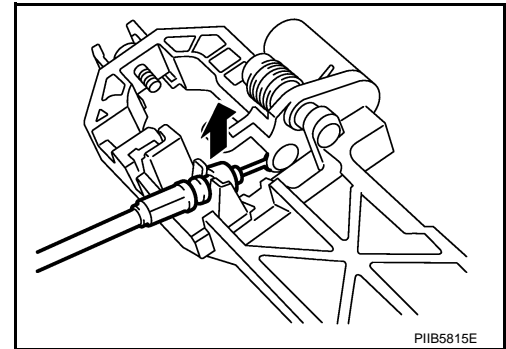
13. Remove the front gasket and rear gasket.



14. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



15. 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

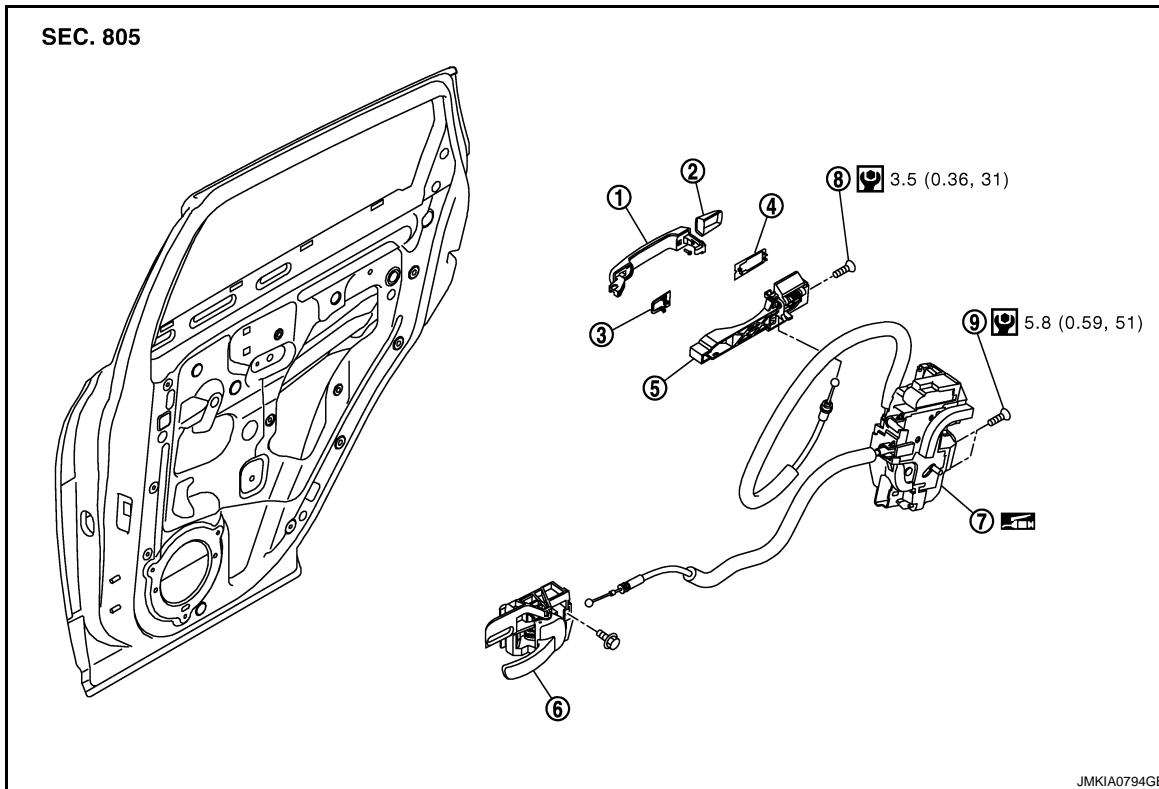
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

REAR DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001538479



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|-----------------------|------------------------------|------------------|
| 1. Outside handle | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. Inside handle |
| 7. Door lock assembly | 8. TORX bolt | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

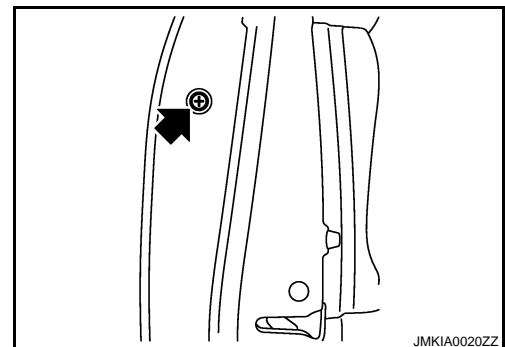
INFOID:000000001538480

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Fully close the front door window.
3. Remove the door sealing screen.
4. Remove the inside handle mounting bolt, and then disconnect the inside handle cable.
5. Remove the door side grommet, and loosen TORX bolt from the grommet hole.

CAUTION:

Do not forcibly remove the bolts.



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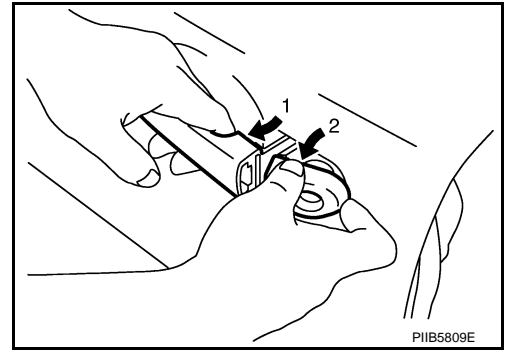
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REAR DOOR LOCK

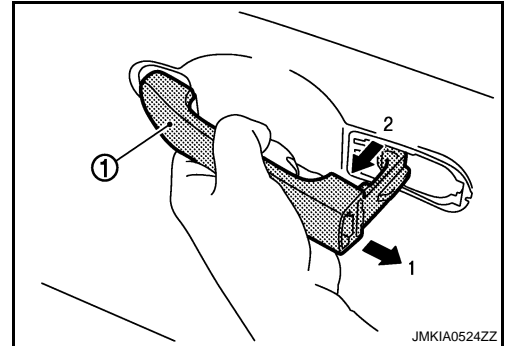
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

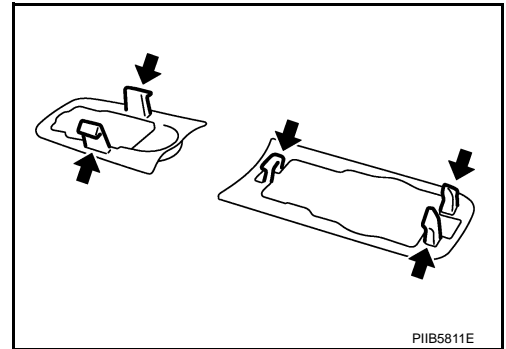
6. While pulling the outside handle, remove the door key cylinder assembly.



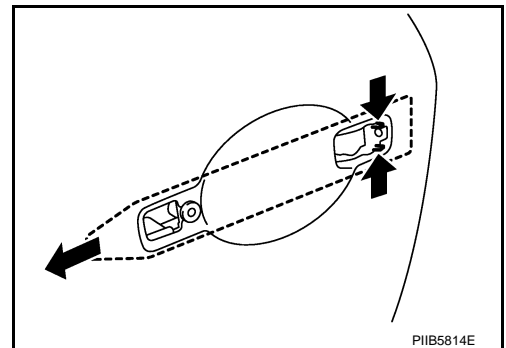
7. While pulling the outside handle (1), slide toward rear of vehicle to remove the outside handle.



8. Remove the front gasket and the rear gasket.



9. Remove the door lock assembly TORX bolts.
10. Disconnect the door lock actuator connector, and then remove the door lock assembly.
11. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.

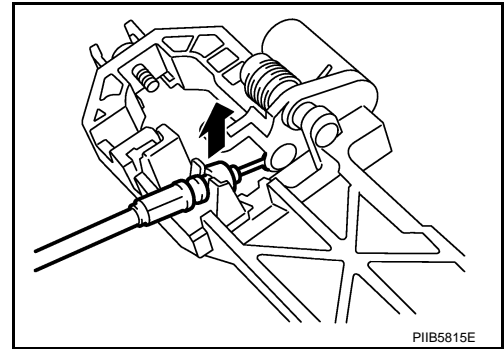


REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

12. Reach in to separate the outside handle cable connection.



INSTALLATION

Install in the reverse order of removal.

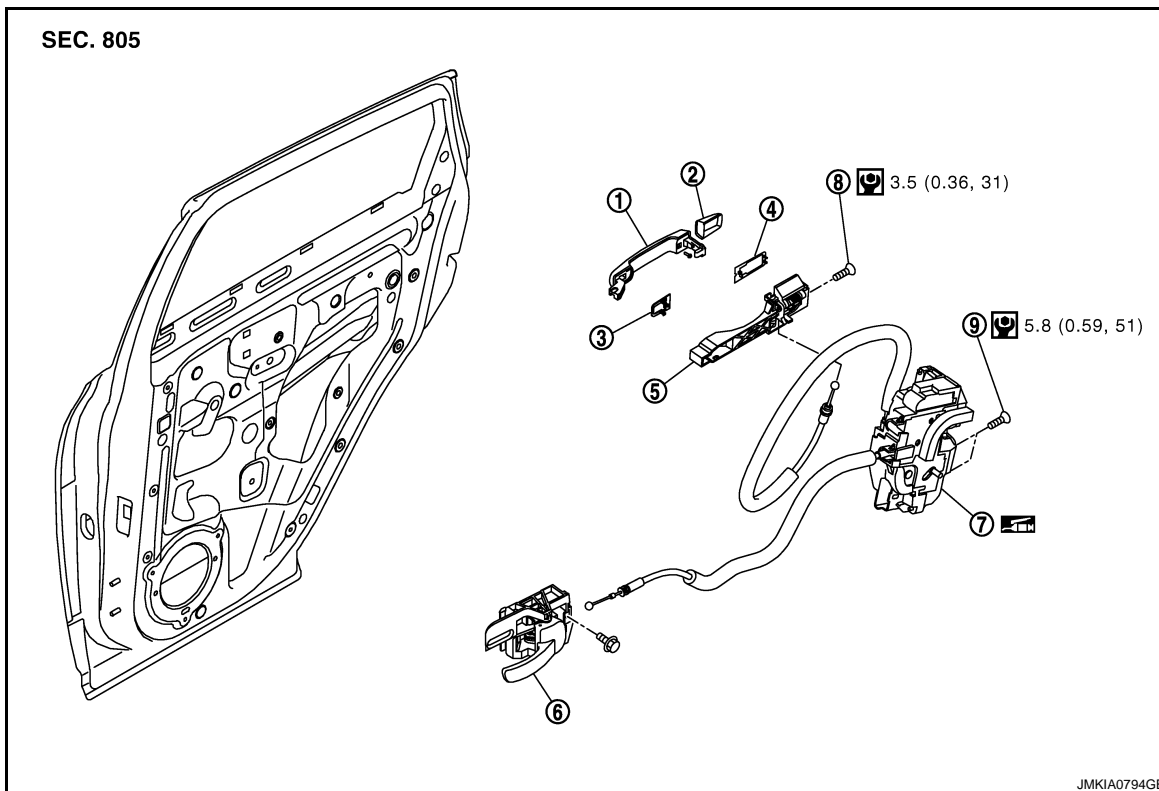
CAUTION:

- 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.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000001538482



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|-----------------------|------------------------------|------------------|
| 1. Outside handle | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. Inside handle |
| 7. Door lock assembly | 8. TORX bolt | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001538483

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove the door sealing screen.

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REAR DOOR LOCK

[WITH I-KEY & SUPER LOCK]

< ON-VEHICLE REPAIR >

3. Remove the inside handle mounting bolt, and then disconnect the inside handle cable.
4. Remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

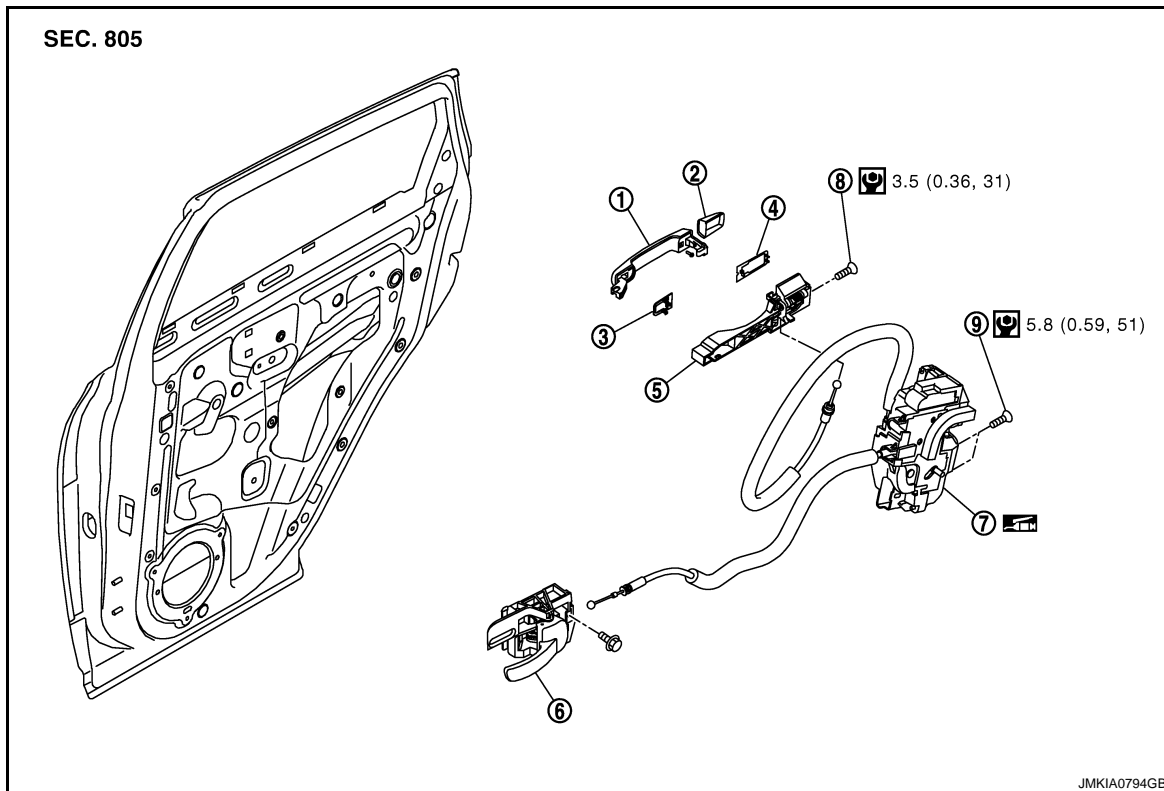
CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:000000001538485



- | | | |
|-----------------------|------------------------------|------------------|
| 1. Outside handle | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. Inside handle |
| 7. Door lock assembly | 8. TORX bolt | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

INFOID:000000001538486

REMOVAL

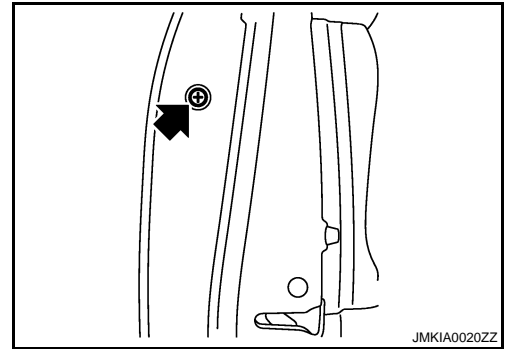
1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Fully close the front door window.
3. Remove the door sealing screen.
4. Remove the inside handle mounting bolt, disconnect the inside handle cable.

REAR DOOR LOCK

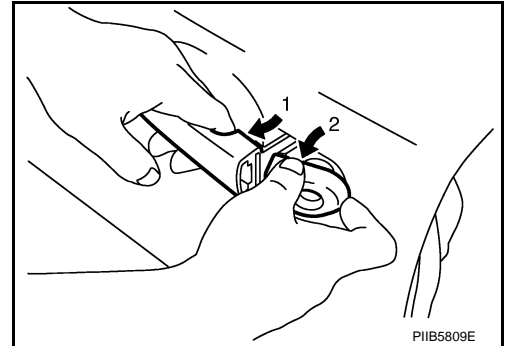
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

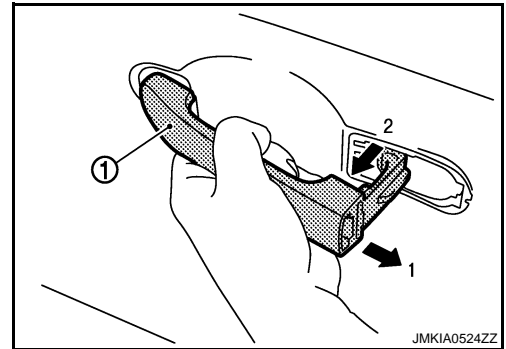
5. Remove the door side grommet, and loosen TORX bolt from the grommet hole.
CAUTION:
Do not forcibly remove the bolts.



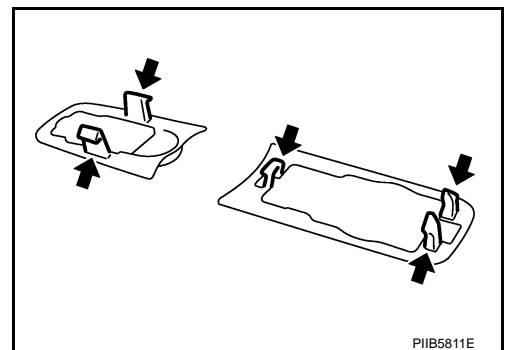
6. While pulling the outside handle, and then remove the door key cylinder assembly.



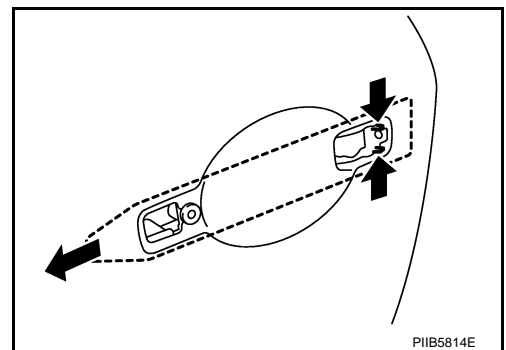
7. While pulling the outside handle (1), slide toward rear of vehicle to remove the outside handle.



8. Remove the front gasket and the rear gasket.



9. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



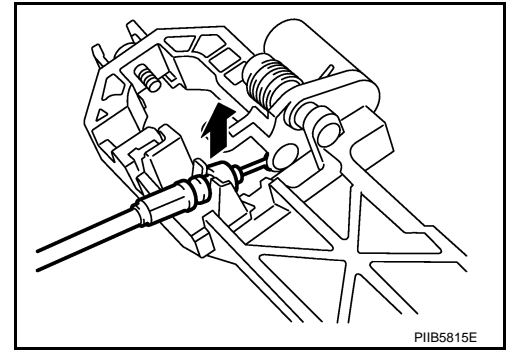
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REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

10. Reach in to separate the outside handle cable connection.



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.

BACK DOOR LOCK

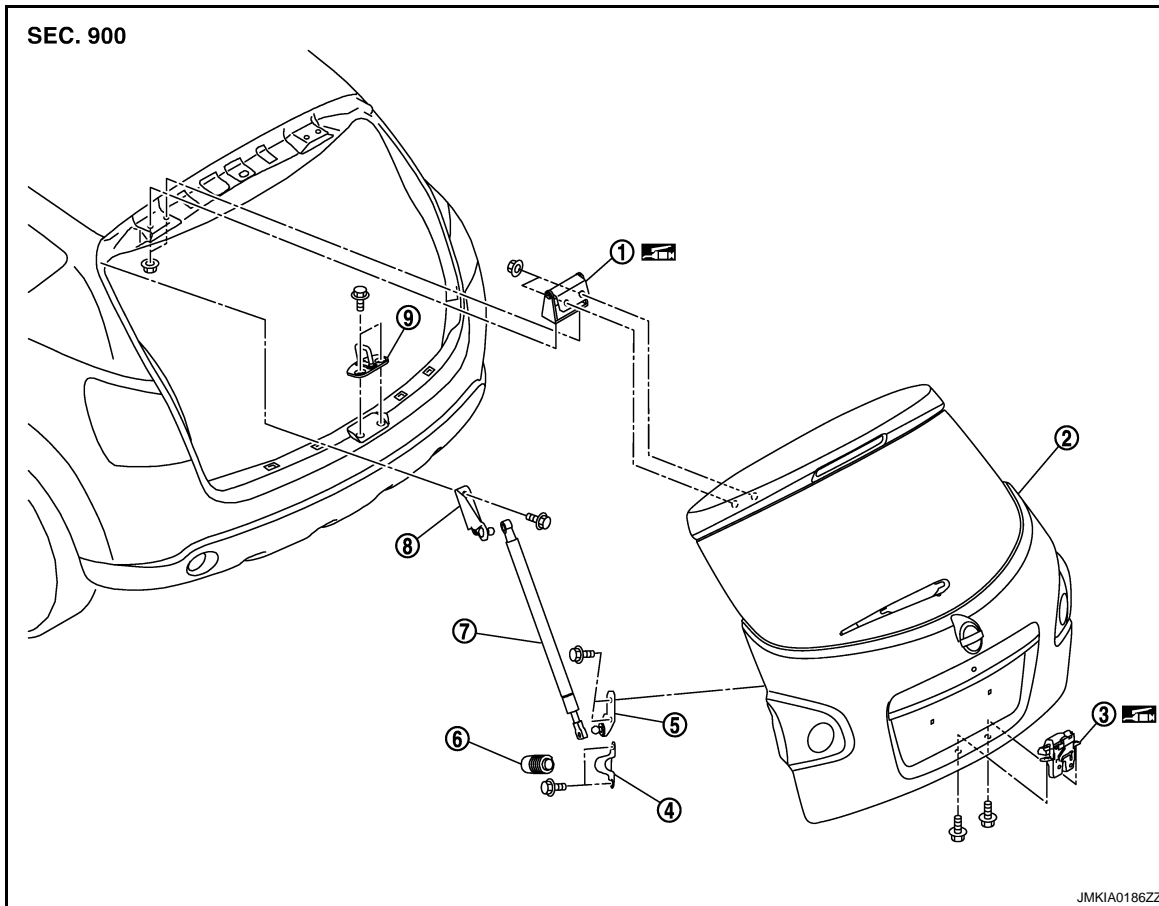
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

BACK DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001538487



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|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001538488

REMOVAL

1. Remove the back door trim finisher lower. Refer to [INT-26. "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

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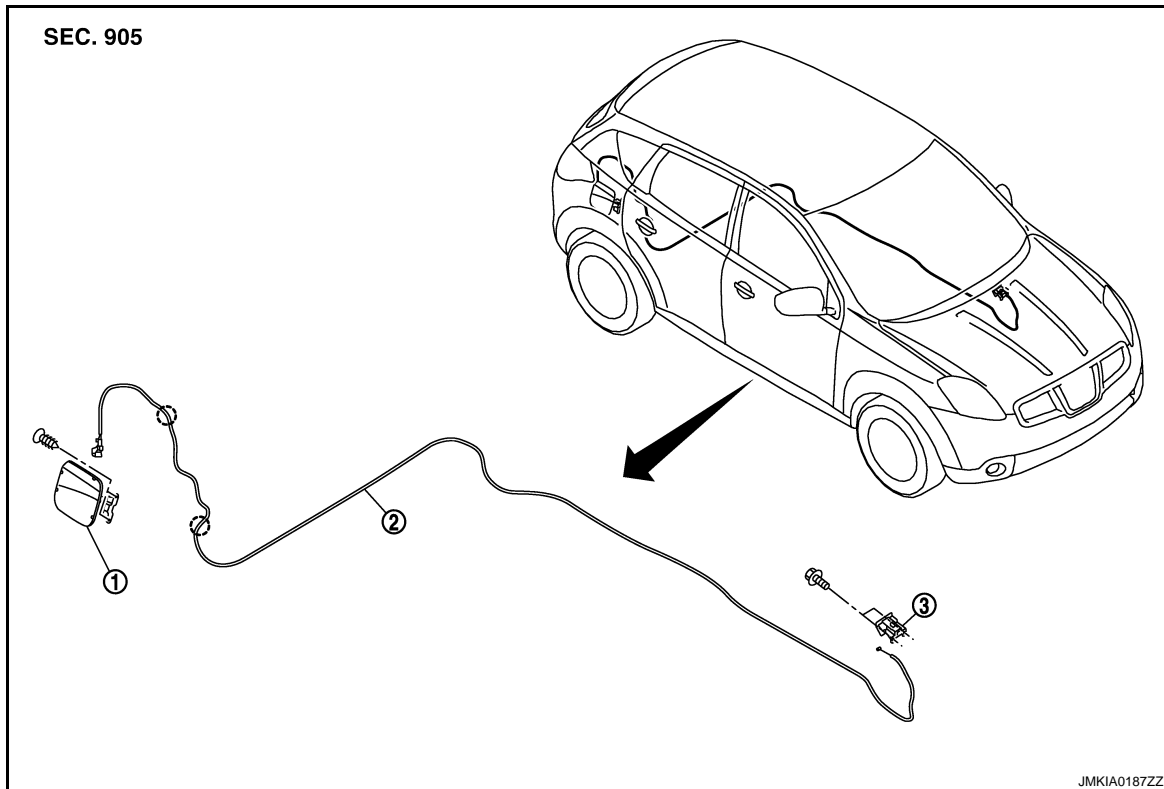
[WITH I-KEY & SUPER LOCK]

FUEL FILLER LID OPENER

FUEL FILLER LID

FUEL FILLER LID : Exploded View

INFOID:000000001538489



1. Fuel filler lid assembly

2. Fuel filler opener cable

3. Fuel opener lever

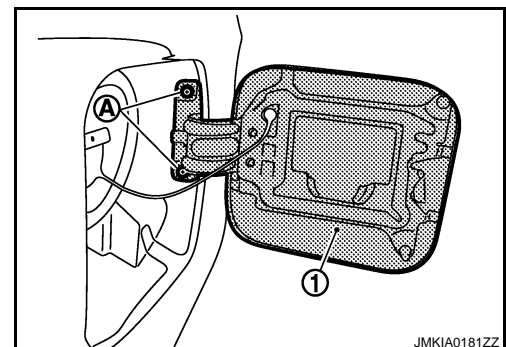
○ : Clip

FUEL FILLER LID : Removal and Installation

INFOID:000000001538490

REMOVAL

1. Fully open the fuel filler lid.
2. Remove the filler cap.
3. Remove the mounting screws (A), and then remove the fuel filler lid (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, apply the touch-up paint (the body color) onto the head of the mounting screws.

FUEL FILLER OPENER CABLE

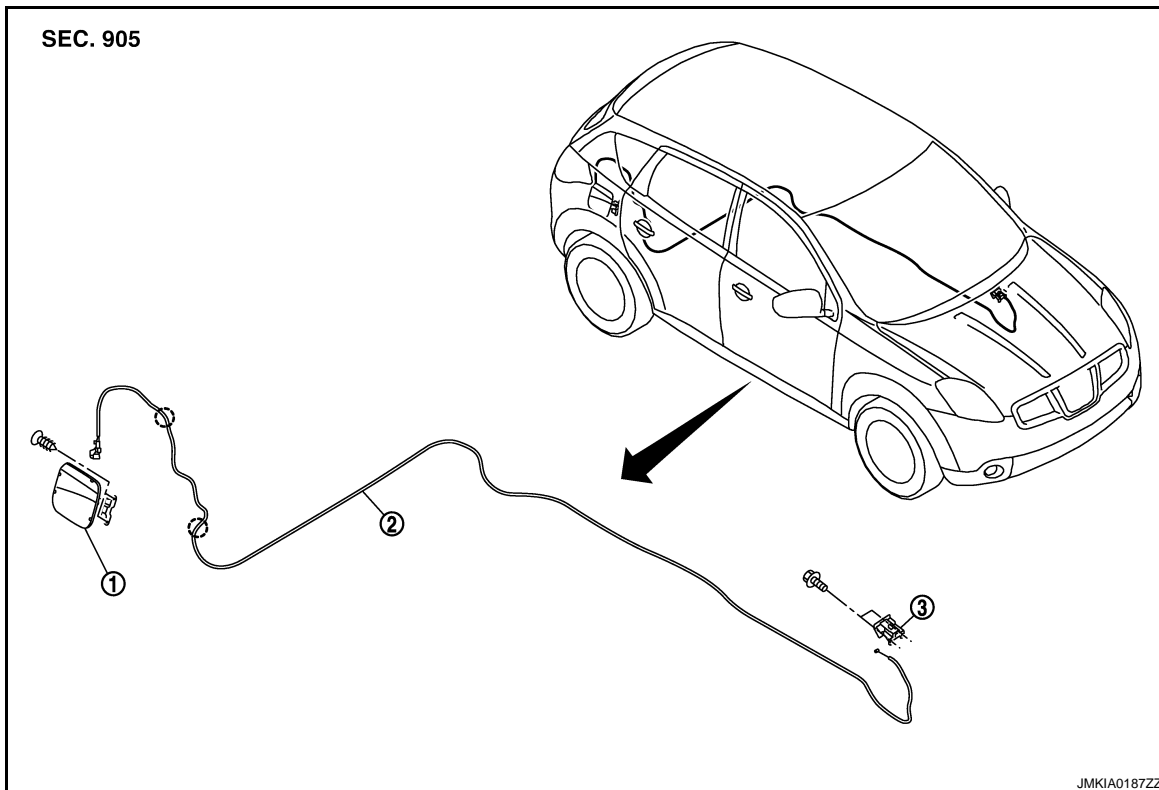
FUEL FILLER LID OPENER

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

FUEL FILLER OPENER CABLE : Exploded View


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1. Fuel filler lid assembly

2. Fuel filler opener cable

3. Fuel opener lever

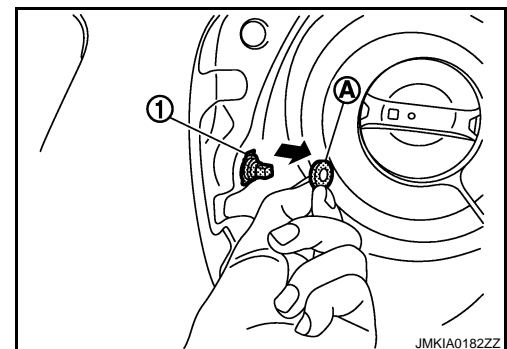
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FUEL FILLER OPENER CABLE : Removal and Installation

INFOID:000000001538493

REMOVAL

1. Remove the rear seat cushion, rear seatback, seatback lower support, and seatback mounting outer bracket. Refer to [SE-21. "Removal and Installation"](#).
2. Remove the dash side finisher, front kicking plate inner, rear kicking plate inner, center pillar lower garnish, and luggage side lower finisher (front). Refer to [INT-14. "Removal and Installation"](#).
3. Remove the parcel shelf, luggage floor carpet, luggage floor spacer, luggage rear plate, luggage side lower finisher, and rear pillar finisher. Refer to [INT-24. "Removal and Installation"](#).
4. Remove the fuel filler lock seal (A) from fuel filler opener cable (1).



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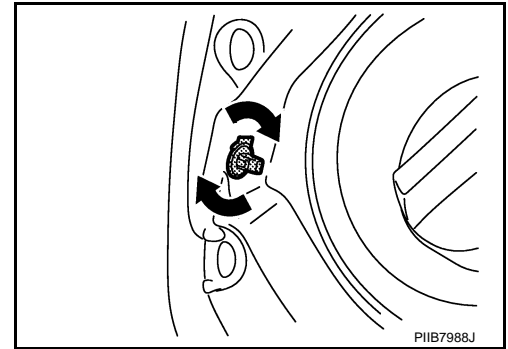
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FUEL FILLER LID OPENER

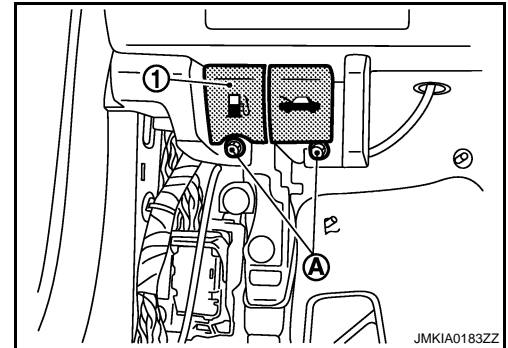
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

5. Rotate the fuel filler lock, and then remove the fuel filler lock.



6. Remove the fuel filler opener cable mounting clips and the clamps.
7. Remove the mounting bolts (A), and then remove the fuel filler lid opener lever (1).



8. Remove the fuel filler opener cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the fuel filler lid open/close operation after installation.

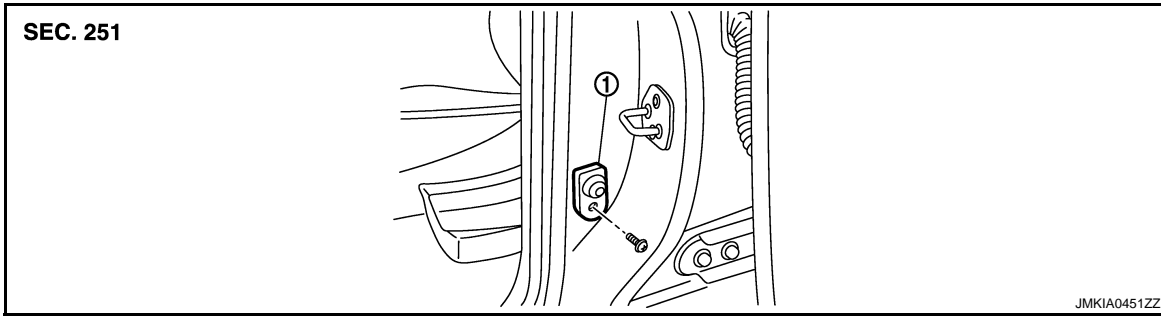
DOOR SWITCH

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

DOOR SWITCH

Exploded View



1. Door switch (driver side)

Refer to [DLK-539. "Removal and Installation"](#).

Removal and Installation

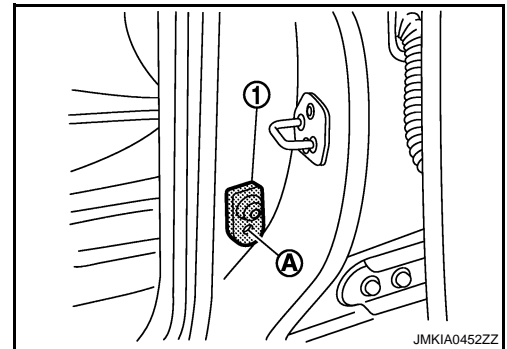
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REMOVAL

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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INSIDE KEY ANTENNA

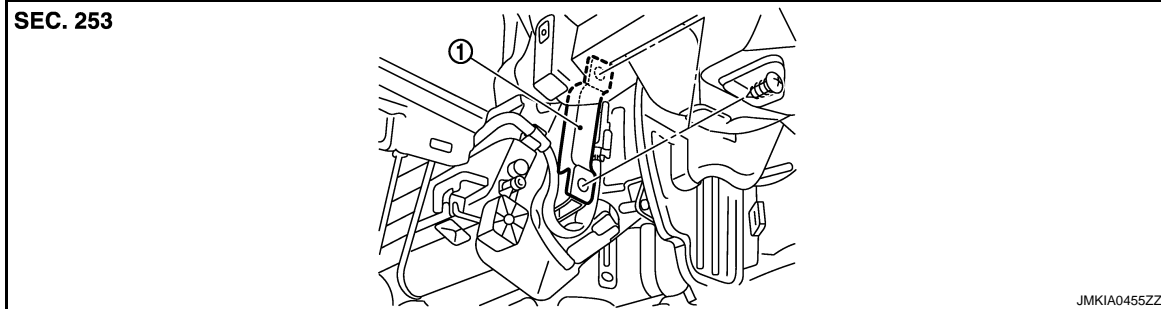
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Exploded View

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1. Inside key antenna (instrument center)

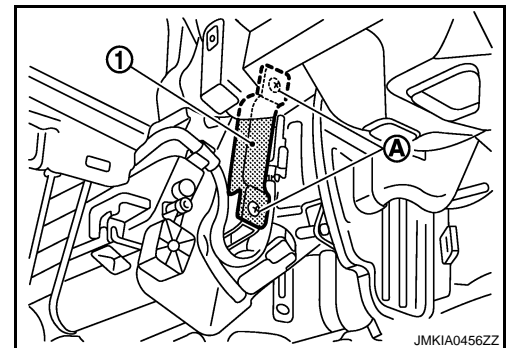
Refer to [DLK-540, "INSTRUMENT CENTER : Removal and Installation"](#).

INSTRUMENT CENTER : Removal and Installation

INFOID:000000001184130

REMOVAL

1. Remove the glove box and instrument lower cover RH. Refer to [IP-11, "Exploded View"](#) and [IP-12, "Removal and Installation"](#).
2. Remove the key slot mounting screw (A), and then remove inside key antenna (instrument center) (1).



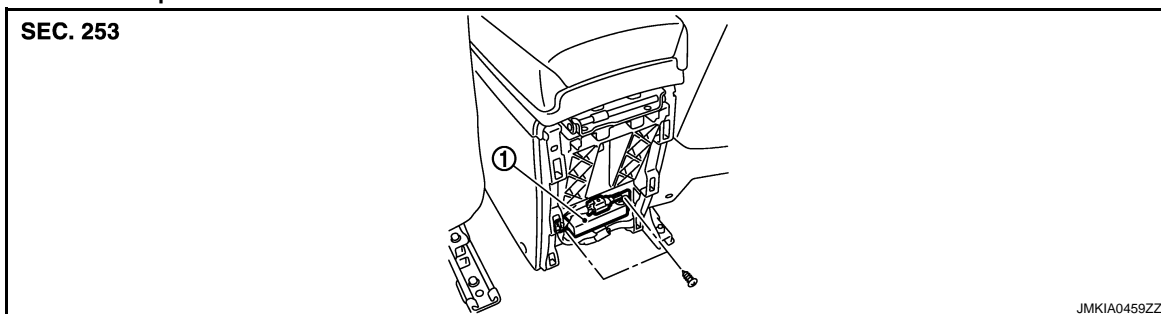
INSTALLATION

Install in the reverse order of removal.

CONSOLE

CONSOLE : Exploded View

INFOID:000000001184131



1. Inside key antenna (console)

Refer to [DLK-540, "CONSOLE : Removal and Installation"](#).

CONSOLE : Removal and Installation

INFOID:000000001184132

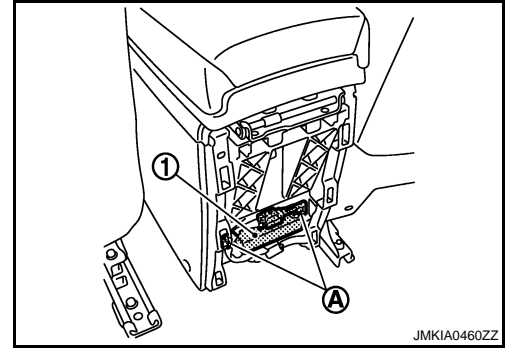
REMOVAL

INSIDE KEY ANTENNA

[WITH I-KEY & SUPER LOCK]

< ON-VEHICLE REPAIR >

1. Remove the console rear finisher. Refer to [IP-18, "Exploded View"](#) and [IP-18, "Removal and Installation"](#).
2. Remove the inside key antenna mounting screw (A), and then remove inside key antenna (console) (1).

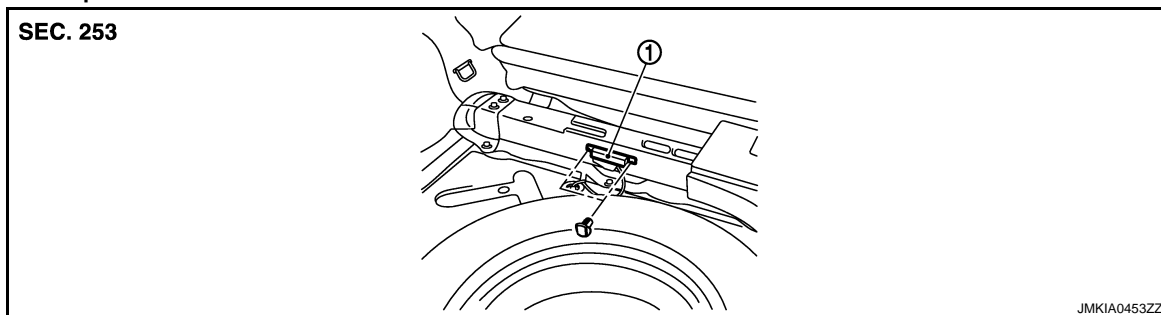


INSTALLATION

Install in the reverse order of removal.

REAR

REAR : Exploded View



1. Inside key antenna (rear seat)

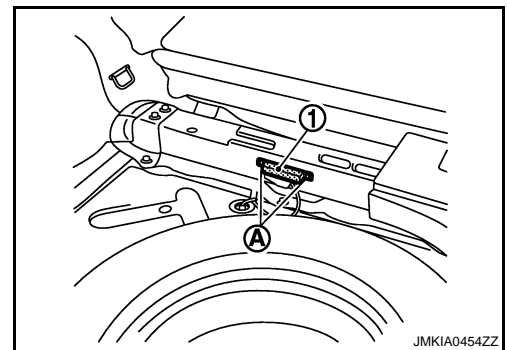
Refer to [DLK-541, "REAR : Removal and Installation"](#).

REAR : Removal and Installation

INFOID:000000001184134

REMOVAL

1. Remove the luggage floor spacer (LH). Refer to [INT-24, "Exploded View"](#) and [INT-24, "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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DLK

OUTSIDE KEY ANTENNA

< ON-VEHICLE REPAIR >

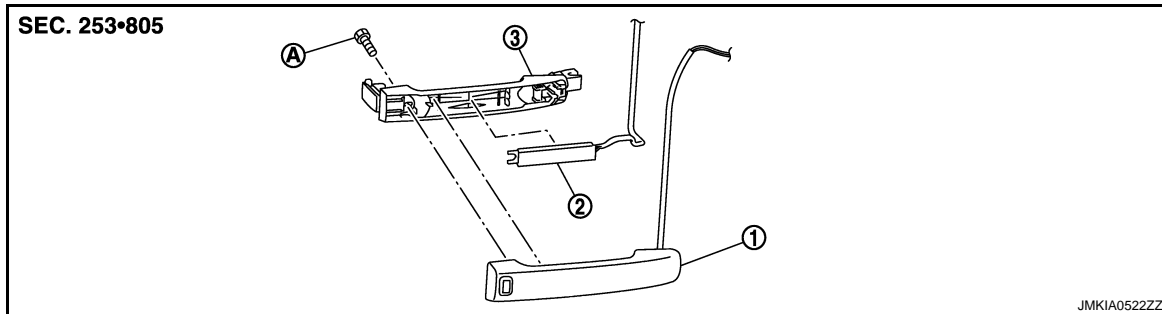
[WITH I-KEY & SUPER LOCK]

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:000000001184135



- 1. Outside handle grip
- 2. Outside key antenna
- 3. Outside handle bracket
- A. Bolt

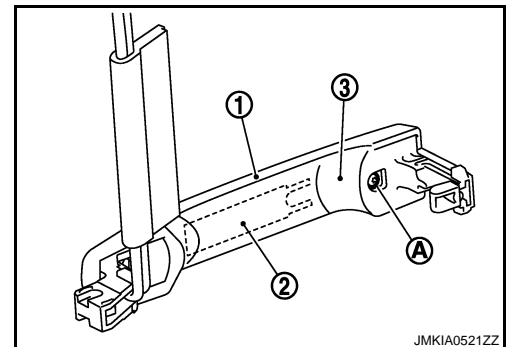
Refer to [DLK-542. "DRIVER SIDE : Removal and Installation"](#).

DRIVER SIDE : Removal and Installation

INFOID:000000001184136

REMOVAL

1. Remove the outside handle. Refer to [DLK-526. "OUTSIDE HANDLE : Exploded View"](#) and [DLK-527. "OUTSIDE HANDLE : Removal and Installation"](#).
2. Remove the bolt (A) from outside handle grip (1).
3. Remove the outside key antenna (2) from outside handle bracket (3).



INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:000000001184137

Refer to [DLK-273. "DRIVER SIDE : Exploded View"](#).

PASSENGER SIDE : Removal and Installation

INFOID:000000001184138

REMOVAL

Refer to [DLK-273. "DRIVER SIDE : Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

REAR BUMPER

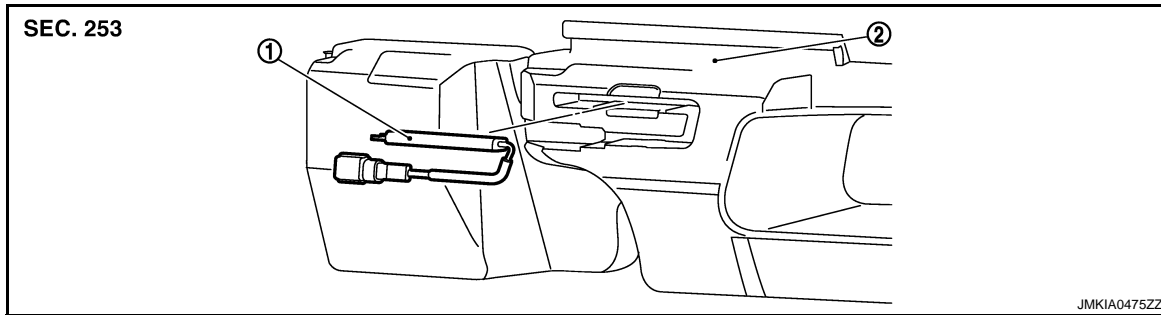
OUTSIDE KEY ANTENNA

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

REAR BUMPER : Exploded View

INFOID:000000001184139



1. Outside key antenna (rear bumper)
2. Rear bumper energy absorber

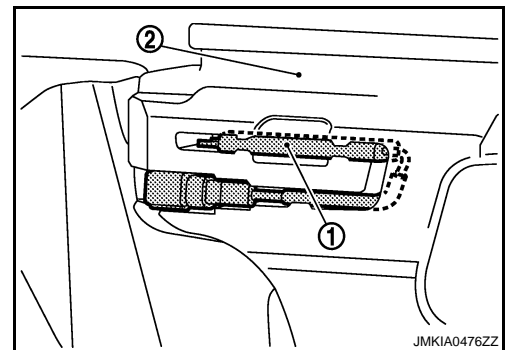
Refer to [DLK-543, "REAR BUMPER : Removal and Installation"](#).

REAR BUMPER : Removal and Installation

INFOID:000000001184140

REMOVAL

1. Remove the rear bumper. Refer to [EXT-14, "Exploded View"](#) and [EXT-15, "Removal and Installation"](#).
2. Remove the outside key antenna (rear bumper) (1) from rear bumper energy absorber (2).



INSTALLATION

Install in the reverse order of removal.

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DLK

INTELLIGENT KEY WARNING BUZZER

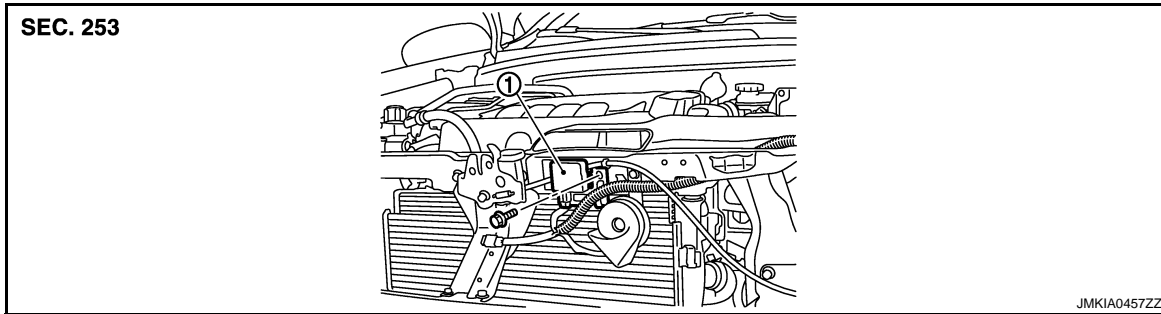
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY WARNING BUZZER

Exploded View

INFOID:000000001184141



1. Intelligent Key warning buzzer

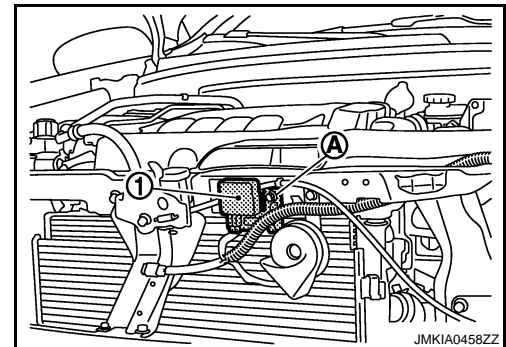
Refer to [DLK-544. "Removal and Installation"](#).

Removal and Installation

INFOID:000000001184142

REMOVAL

1. Remove the front bumper. Refer to [EXT-11. "Exploded View"](#) and [EXT-11. "Removal and Installation"](#).
2. Remove the Intelligent Key warning buzzer mounting bolt (A), and then remove the Intelligent Key warning buzzer (1).



INSTALLATION

Install in the reverse order of removal.

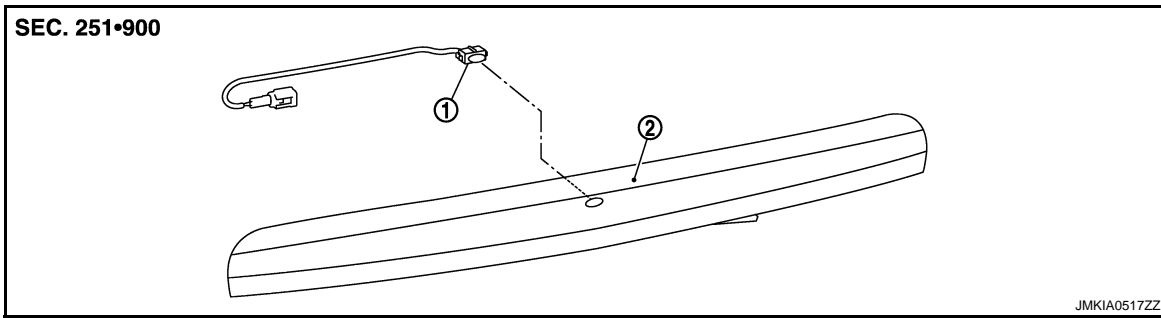
BACK DOOR REQUEST SWITCH

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

BACK DOOR REQUEST SWITCH

Exploded View



1. Back door request switch
2. Back door finisher

Refer to [DLK-545, "Removal and Installation"](#).

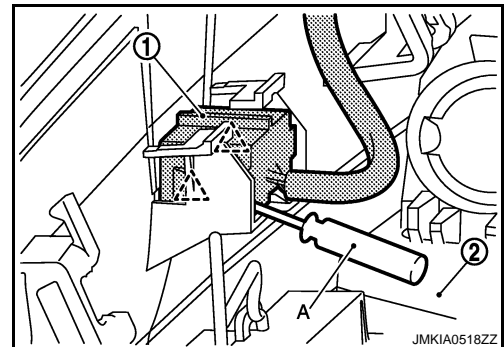
Removal and Installation

INFOID:000000001184144

REMOVAL

1. Remove the back door finisher.
Refer to [EXT-31, "Exploded View"](#) and [EXT-31, "Removal and Installation"](#).
2. Remove the back door request switch (1) from back door finisher (2) using flat-bladed screw driver (A) etc.

 : Pawl



INSTALLATION

Install in the reverse order of removal.

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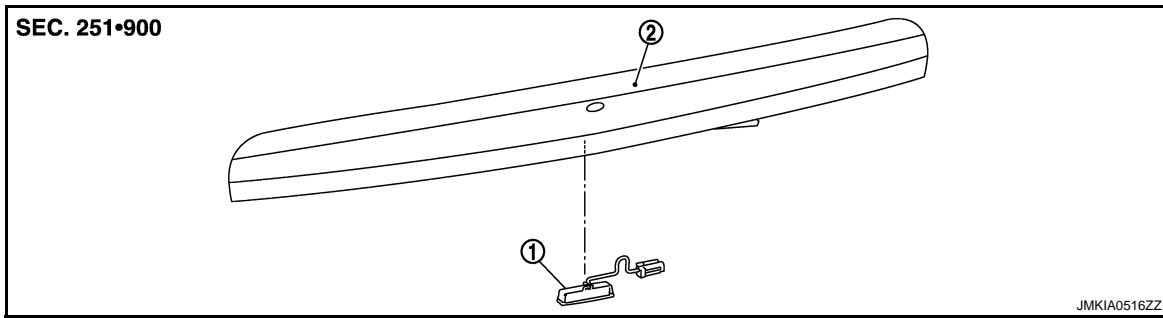
BACK DOOR OPENER SWITCH

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH

Exploded View



1. Back door opener switch
2. Back door finisher

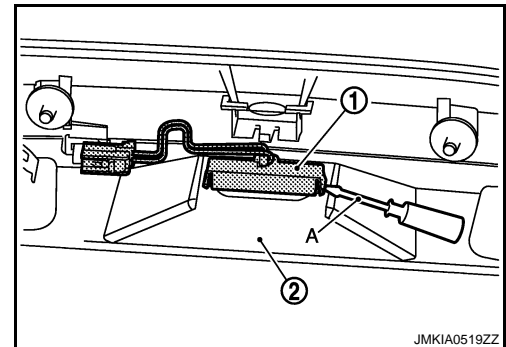
Refer to [DLK-546, "Removal and Installation"](#).

Removal and Installation

INFOID:000000001184146

REMOVAL

1. Remove the back door finisher.
Refer to [EXT-31, "Exploded View"](#) and [EXT-31, "Removal and Installation"](#).
2. Remove the back door opener switch (1) from back door finisher (2) using flat-bladed screw driver (A) etc.



INSTALLATION

Install in the reverse order of removal.

INTELLIGENT KEY BATTERY

< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY BATTERY

Exploded View

INFOID:000000001184147

Refer to [DLK-547, "Removal and Installation"](#).

Removal and Installation

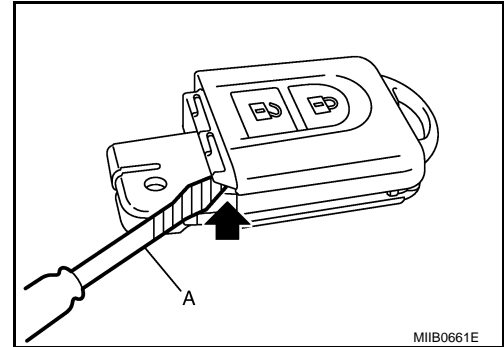
INFOID:000000001184148

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:

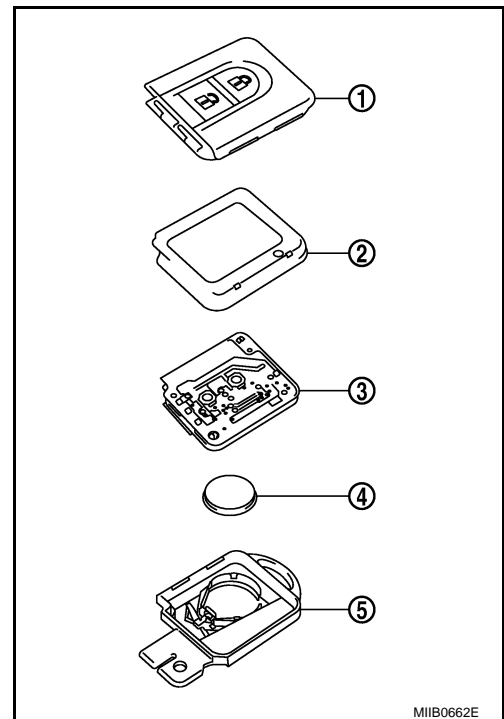
When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.

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-134, "Component Function Check"](#).



INSTALLATION

Install in the reverse order of removal.

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INTELLIGENT KEY UNIT

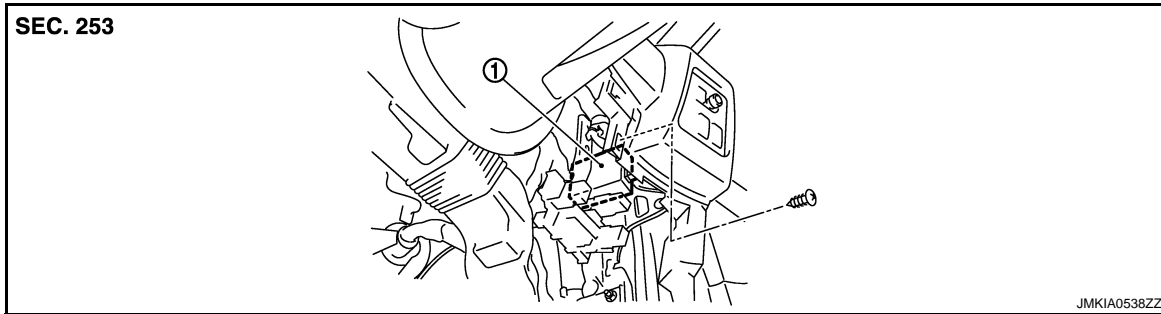
< ON-VEHICLE REPAIR >

[WITH I-KEY & SUPER LOCK]

INTELLIGENT KEY UNIT

Exploded View

INFOID:000000001184149



1. Intelligent Key unit
M40

Refer to [DLK-547, "Removal and Installation"](#).

Removal and Installation

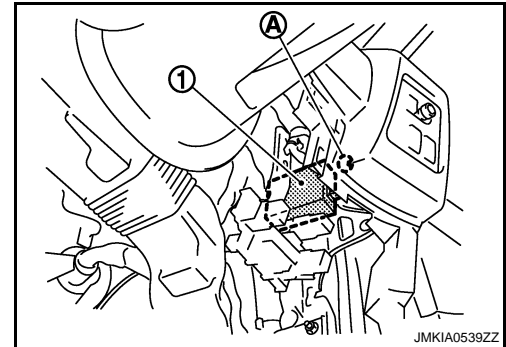
INFOID:000000001184150

REMOVAL

1. Remove lower instrument panel (driver side) and mirror switch finisher. Refer to [IP-11, "Exploded View"](#) and [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-284, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).



INSTALLATION

Install in the reverse order of removal.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT I-KEY & SUPER LOCK]

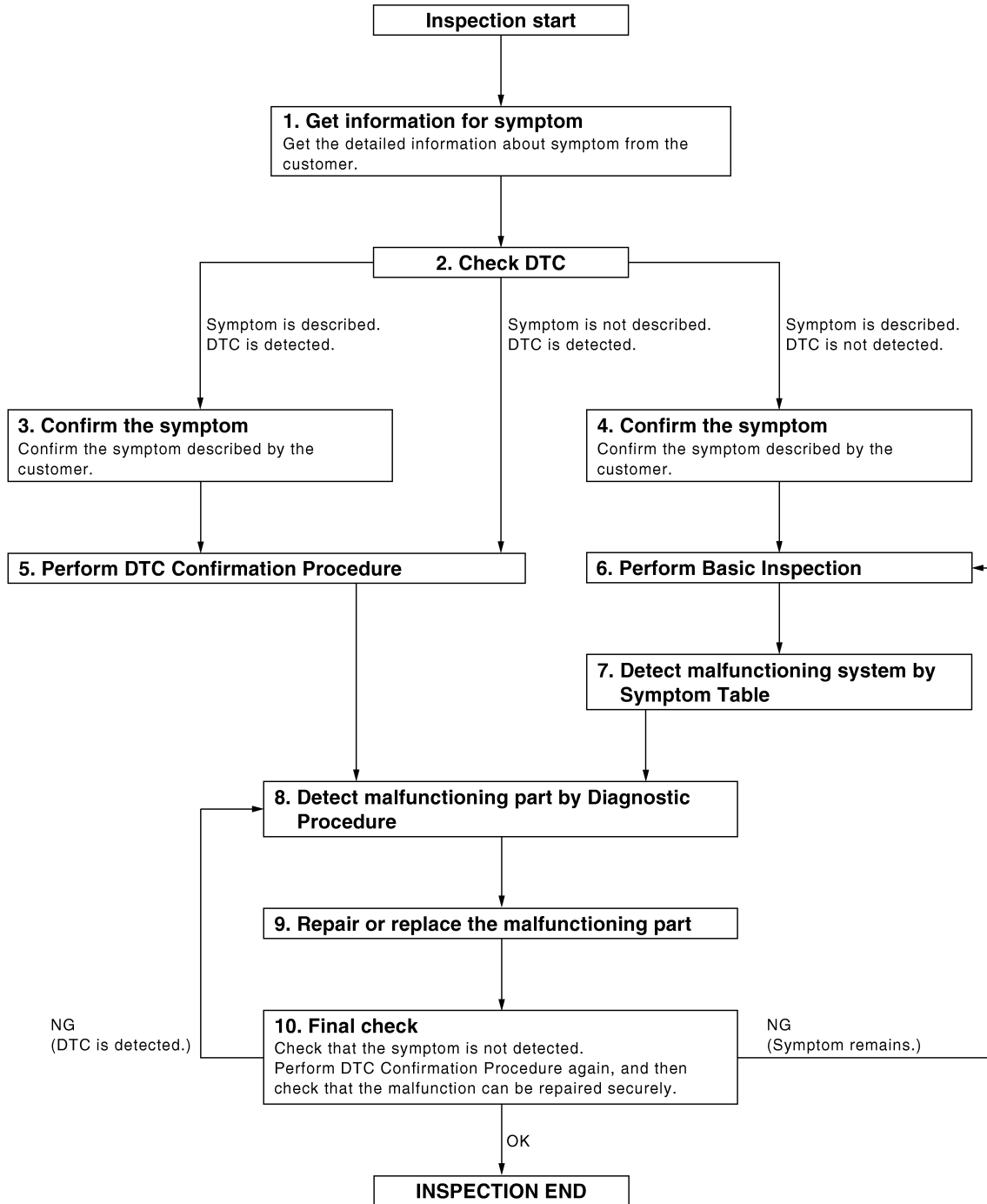
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000001184151

OVERALL SEQUENCE



DETAILED FLOW

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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-641, "DTC Inspection Priority Chart"](#) and determine trouble diagnosis order.

Is DTC detected?

- YES >> GO TO 8.
- NO >> Refer to [GI-39, "Intermittent Incident"](#).

6.PERFORM BASIC INSPECTION

Perform Basic Inspection, refer to [DLK-657, "Basic Inspection"](#).

Inspection End>>GO TO 7.

7.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

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

>> GO TO 8.

8.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

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

>> GO TO 9.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT I-KEY & SUPER LOCK]

9. 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.

>> GO TO 10.

10. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely.

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

Does the symptom reappear?

YES (DTC is detected)>>GO TO 8.

YES (Symptom remains)>>GO TO 6.

NO >> **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:000000001184152

Perform the system initialization when replacing or registering Keyfob and ignition key.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000001184153

Refer to the CONSULT-III Operation Manual-NATS.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

FUNCTION DIAGNOSIS

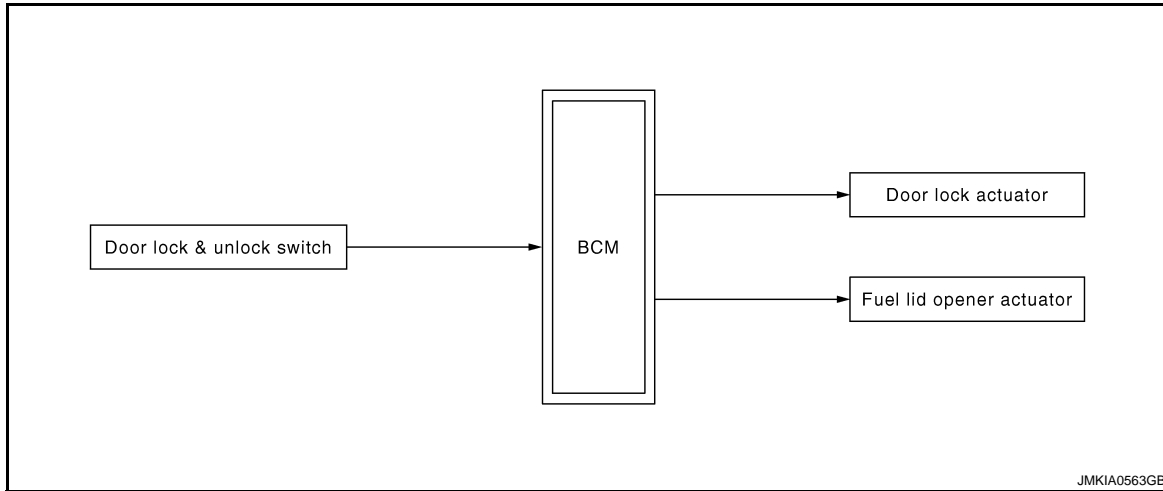
DOOR LOCK FUNCTION

DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH : System Diagram

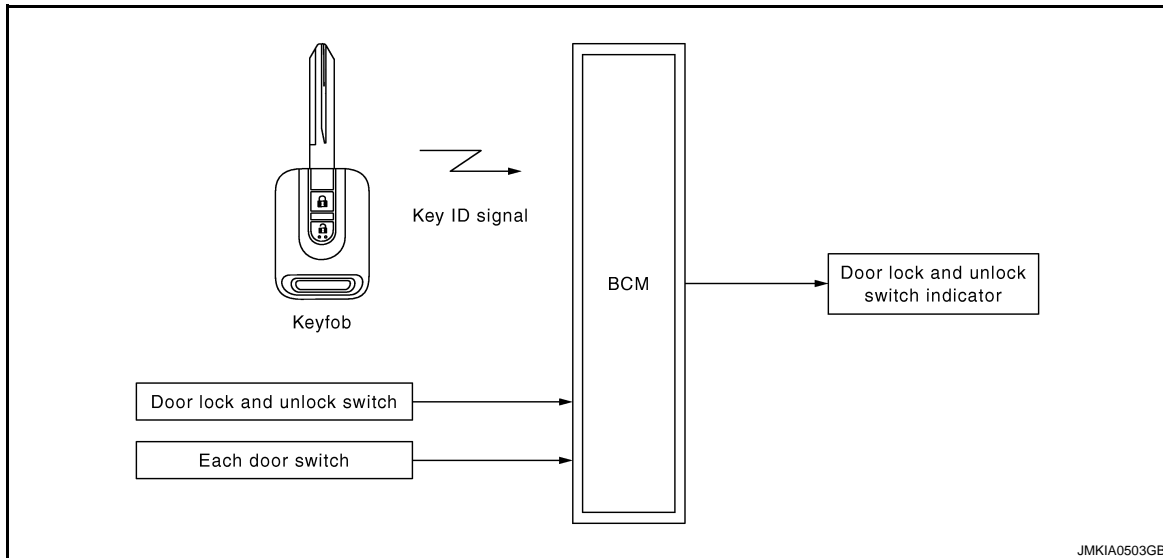
INFOID:000000001184154

DOOR LOCK AND UNLOCK SWITCH OPERATION



JMKIA0563GB

DOOR LOCK AND UNLOCK SWITCH INDICATOR OPERATION



JMKIA0503GB

DOOR LOCK AND UNLOCK SWITCH : System Description

INFOID:000000001184155

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 satisfied, door lock/unlock operation can be performed when the door lock and unlock switch is operated.

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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & 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 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.

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. 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 keyfob or auto door lock.

30 Minutes Timer

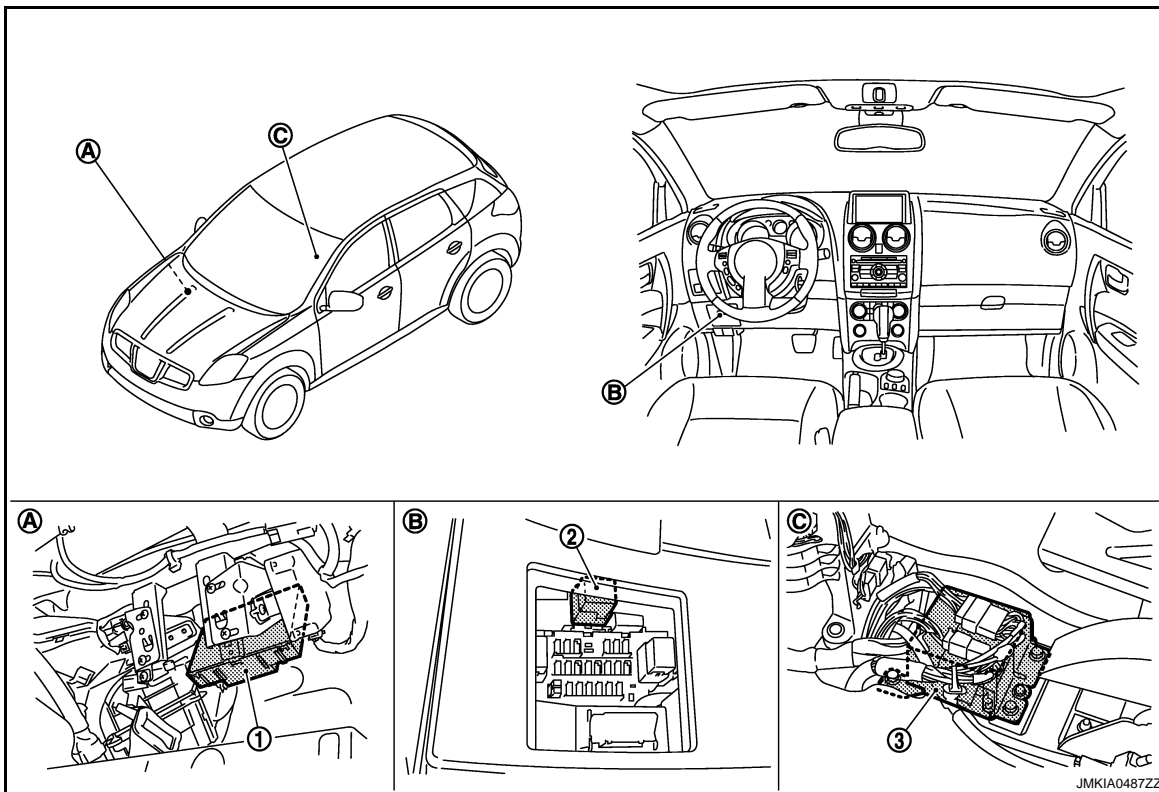
A timer to turn OFF the indicator will run for 30 minutes after locking with door lock and unlock switch.

NOTE:

1 minute 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:000000001184156



- 1. BCM
M65, M66, M67
- A. Over the glove box

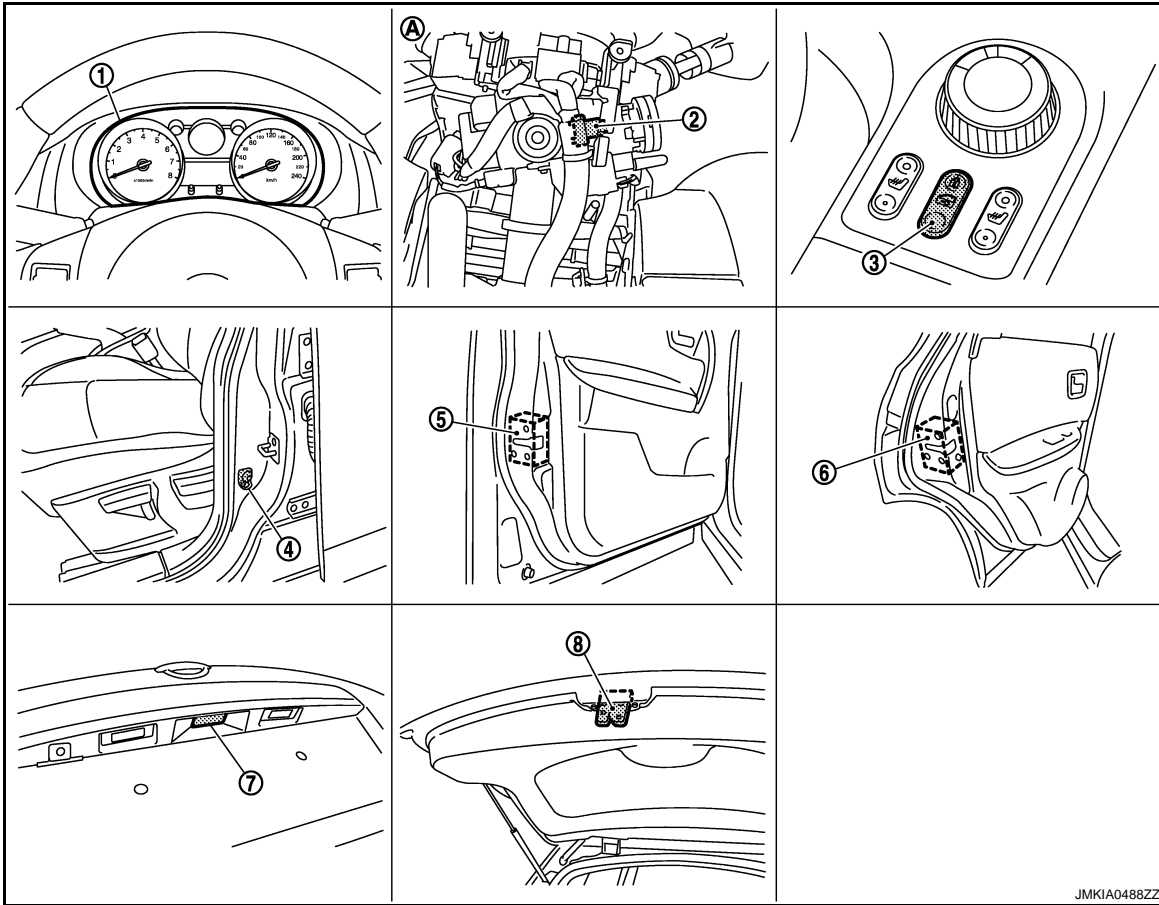
- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 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. Door lock and unlock switch
M89 |
| 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
D186 | 8. Back door lock assembly
D152 | |
| A. View with steering column cover removed | | |

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DLK

DOOR LOCK AND UNLOCK SWITCH : Component Description

INFOID:000000001184157

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. Door lock actuator locks and unlocks each door.

KEYFOB

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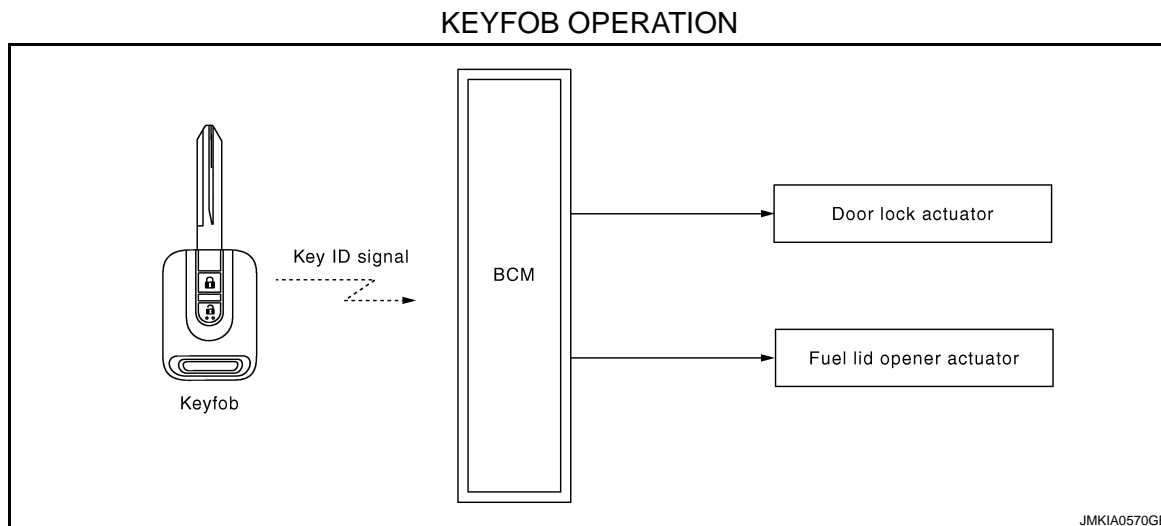
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

KEYFOB : System Diagram

INFOID:000000001184158



KEYFOB : System Description

INFOID:000000001184159

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 5m range of the vehicle, 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-577, "MULTIREMOTE ENT : CONSULT-III Function \(BCM - MULTIREMOTE ENT\)"](#).

*: The function setting.

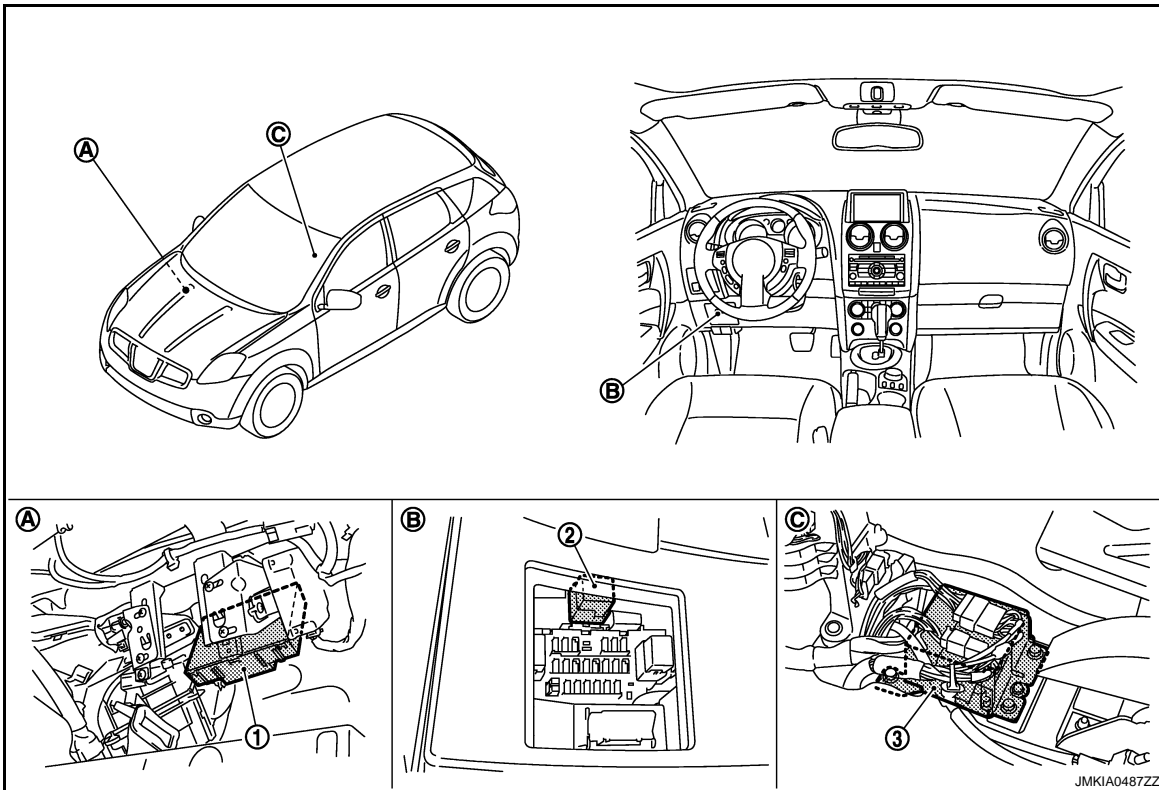
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

KEYFOB : Component Parts Location

INFOID:000000001184160



- 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

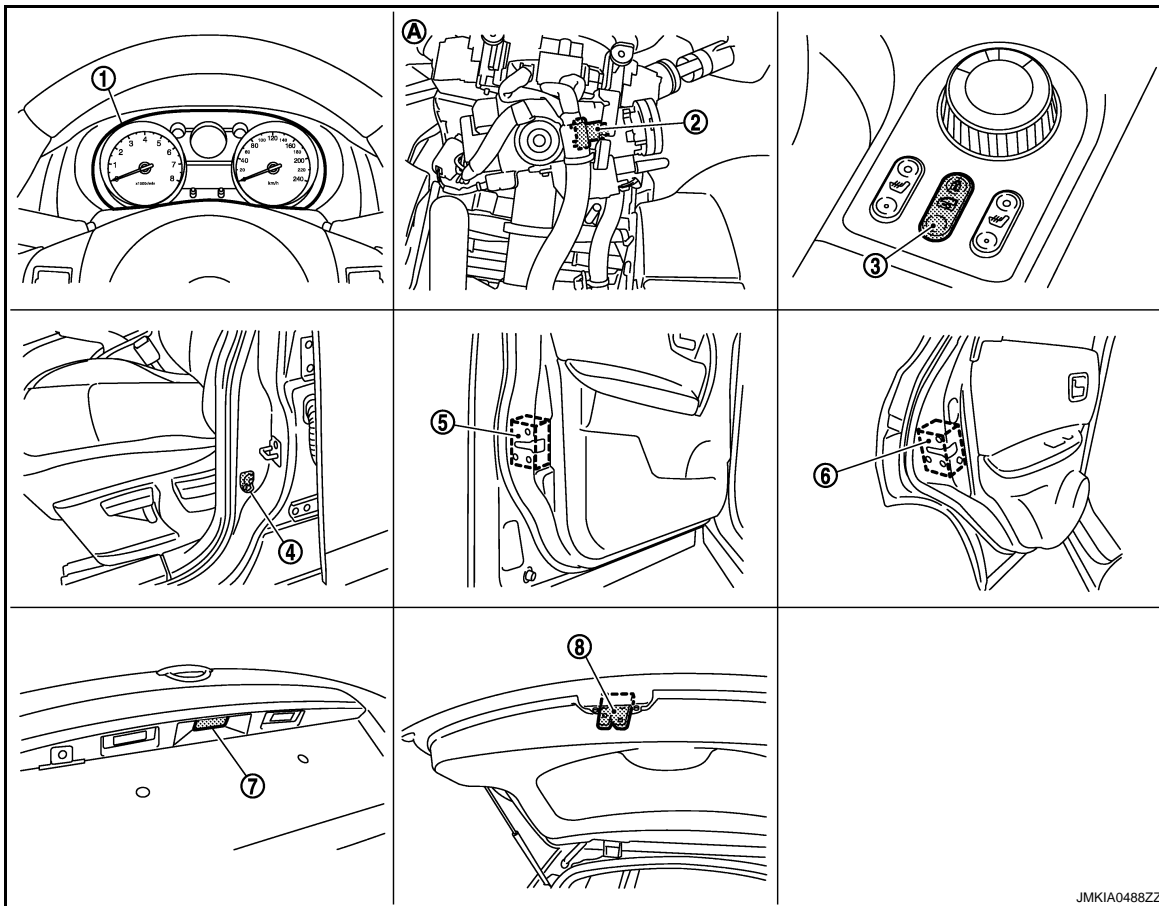
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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]



- | | | |
|---|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Door lock and unlock switch
M89 |
| 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
D186 | 8. Back door lock assembly
D152 | |
- A. View with steering column cover removed

KEYFOB : Component Description

INFOID:000000001184161

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

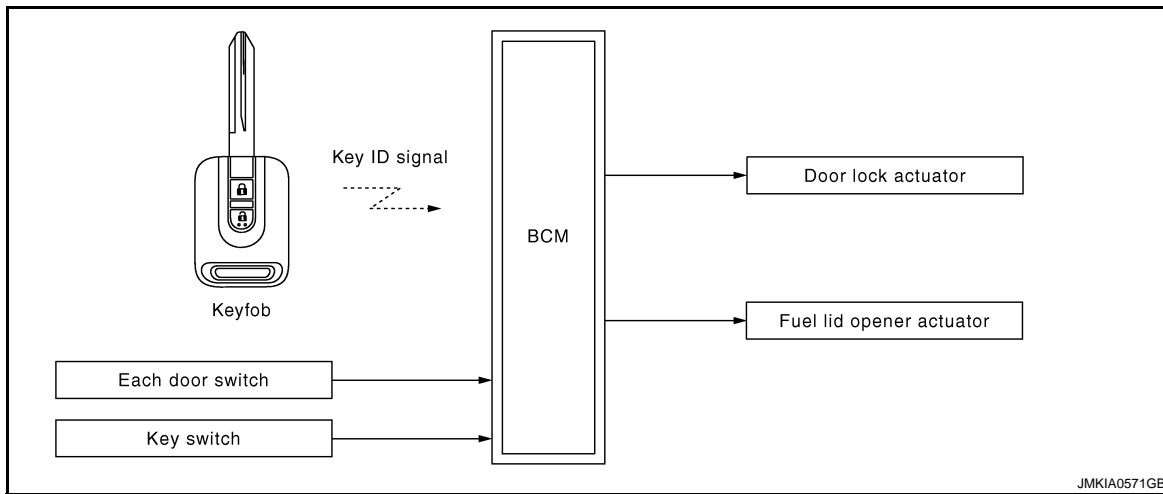
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

AUTO DOOR LOCK : System Diagram

INFOID:000000001184162

AUTO DOOR LOCK OPERATION



AUTO DOOR LOCK : System Description

INFOID:000000001184163

AUTO RELOCK OPERATION

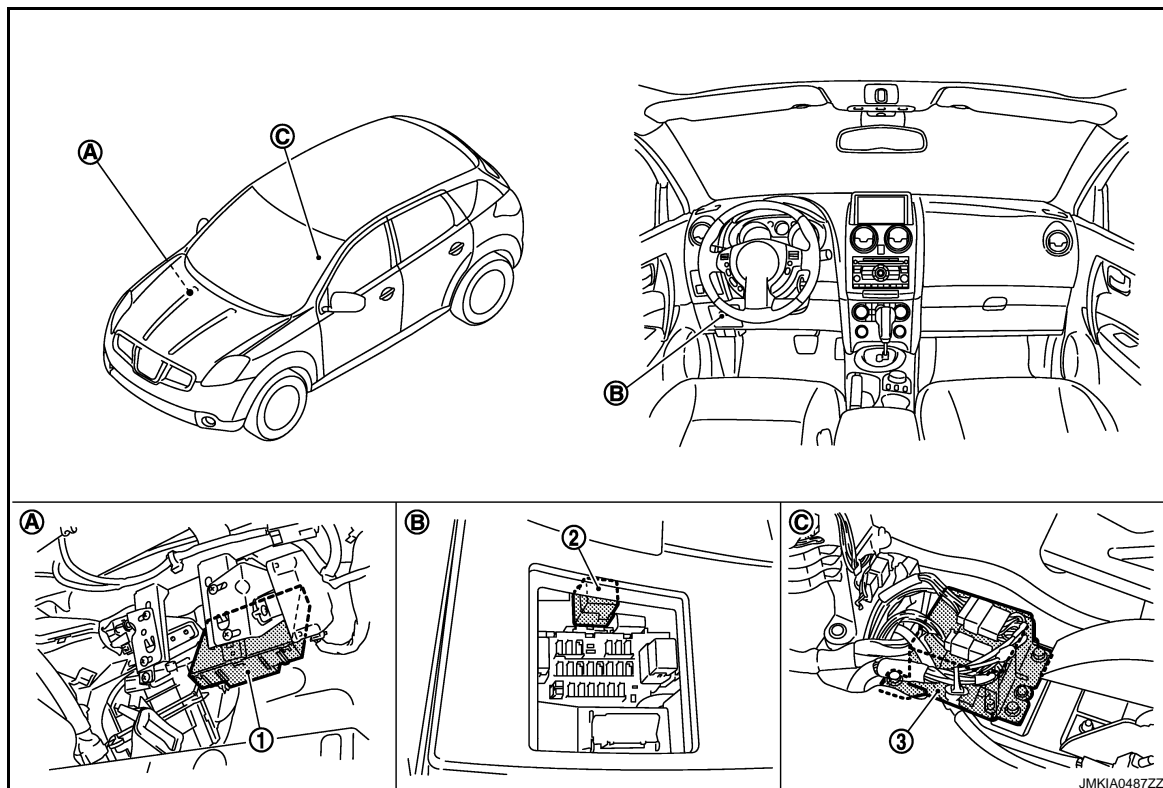
When all doors are locked and then doors are unlocked with keyfob, if BCM does not receive the following signal within 2 minutes^{*1}, all doors are automatically locked.

- 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-577, "MULTIREMOTE ENT : CONSULT-III Function \(BCM - MULTIREMOTE ENT\)"](#).

AUTO DOOR LOCK : Component Parts Location

INFOID:000000001184164



DLK-559

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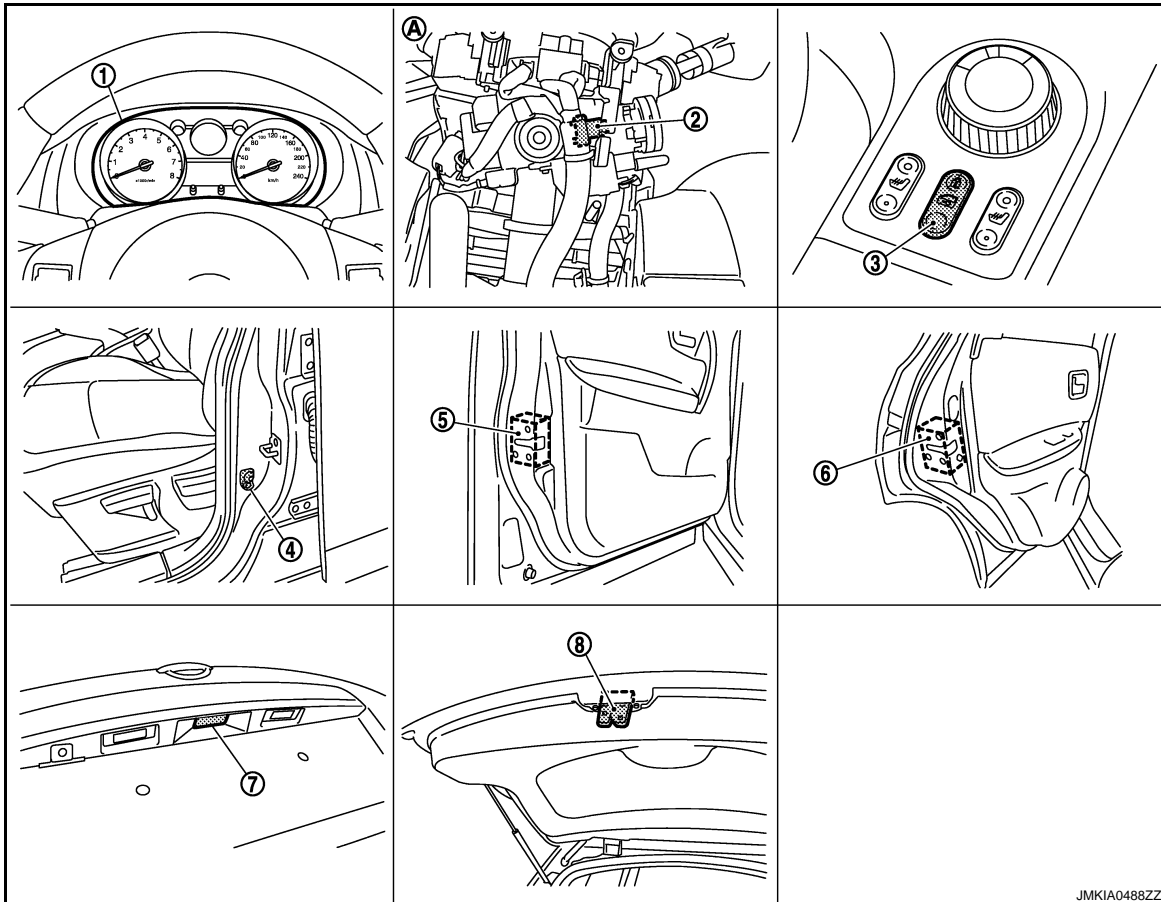
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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

- | | | |
|-------------------------|--|---|
| 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. Door lock and unlock switch
M89 |
| 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
D186 | 8. Back door lock assembly
D152 | |
| A. View with steering column cover removed | | |

AUTO DOOR LOCK : Component Description

INFOID:000000001184165

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

DOOR LOCK FUNCTION

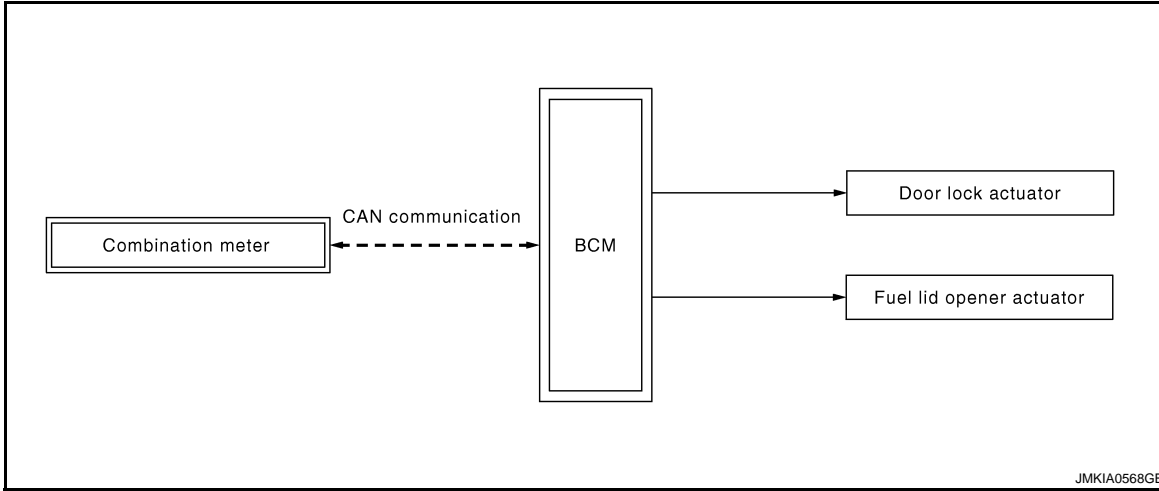
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

VEHICLE SPEED SENSING AUTO DOOR LOCK : System Diagram

INFOID:000000001184166

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION



VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description

INFOID:000000001184167

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.

CHANGE SETTING PROCEDURE

Vehicle speed sensing auto door lock function can be enabled/disabled with door lock and unlock switch.

1. Turn ignition switch ON.
2. Press and hold door lock/unlock switch (LOCK) for 5 seconds within 2 seconds after turn ignition switch ON.
3. Buzzer sounds for 1 second.

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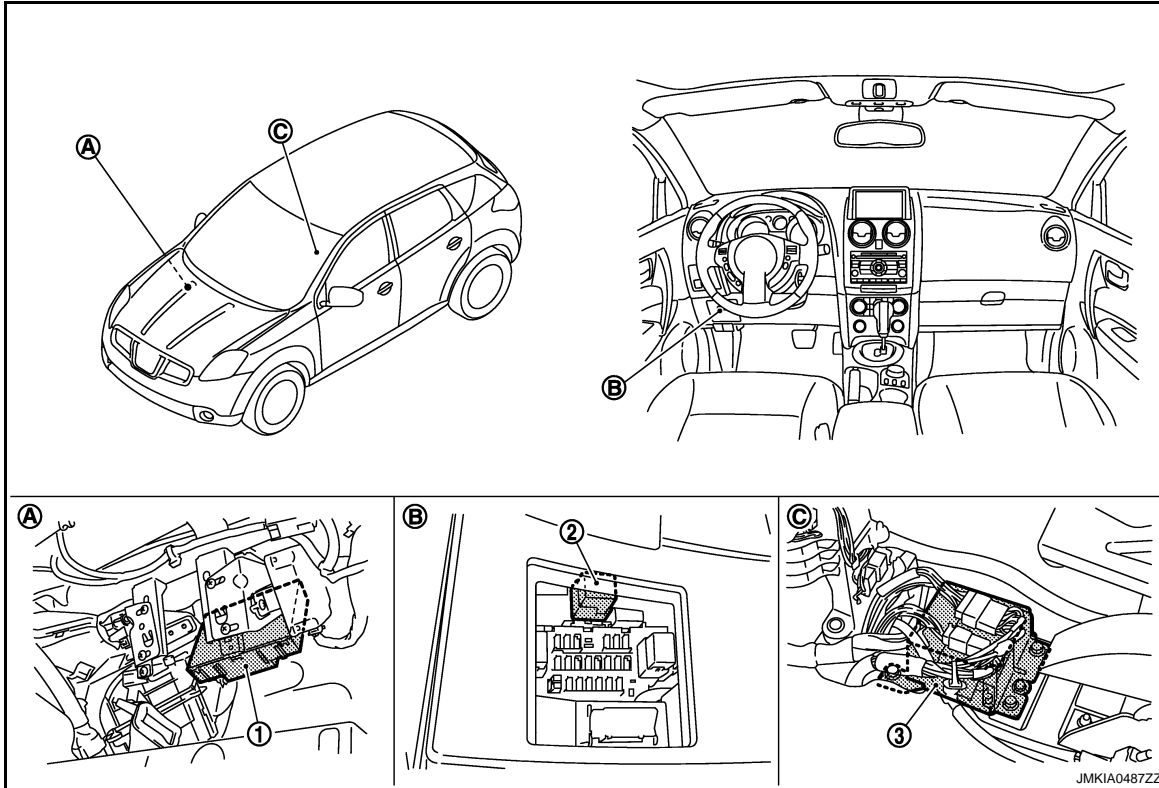
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Parts Location

INFOID:000000001184168



- 1. BCM
M65, M66, M67
- A. Over the glove box

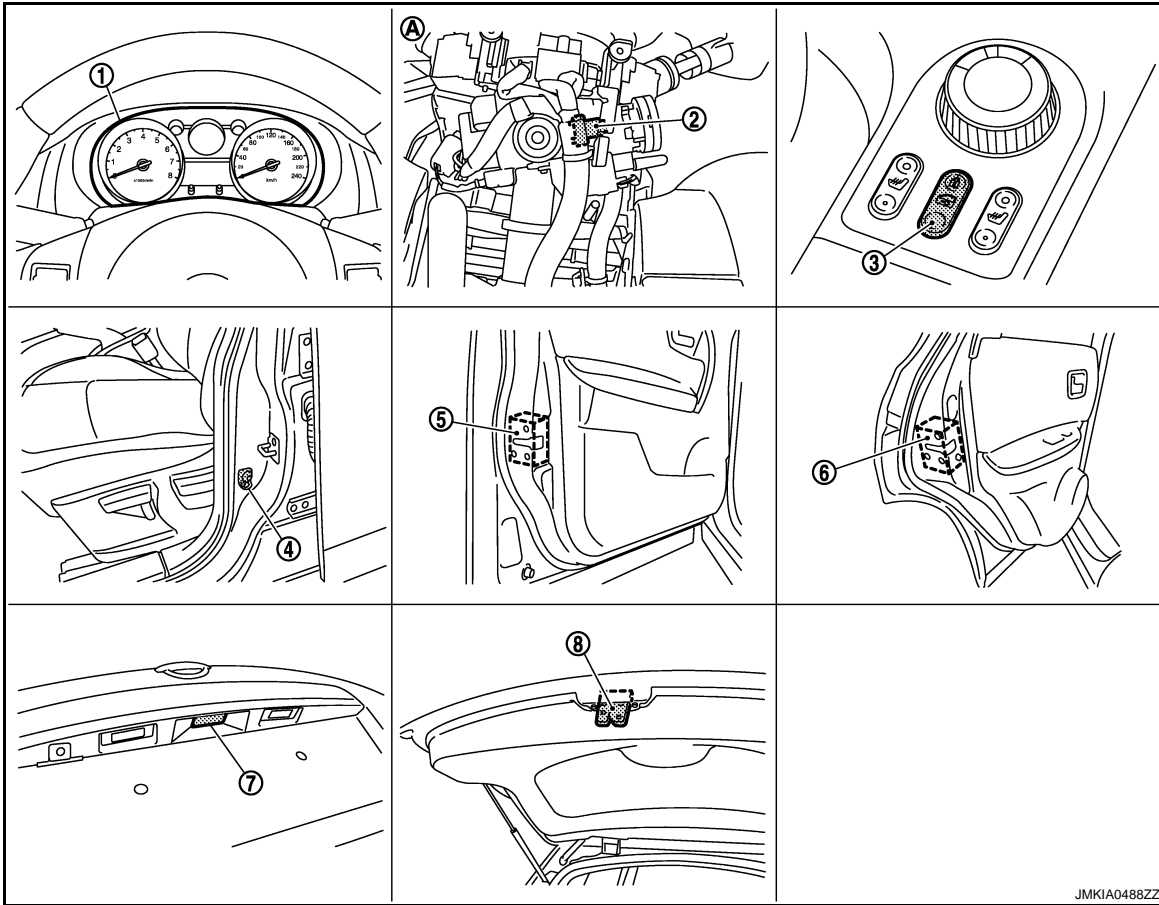
- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 3. Air bag diagnosis sensor unit
M59
- C. View with center console removed

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]



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- | | | |
|---|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Door lock and unlock switch
M89 |
| 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
D186 | 8. Back door lock assembly
D152 | |
- A. View with steering column cover removed

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VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Description

INFOID:000000001184169

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.

AIR BAG INTERLOCK UNLOCK

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DOOR LOCK FUNCTION

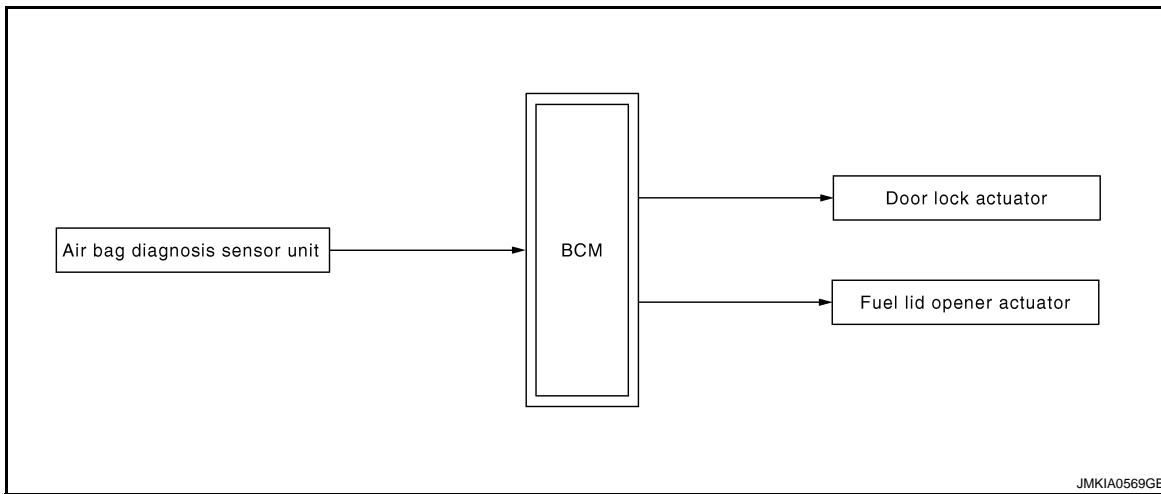
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

AIR BAG INTERLOCK UNLOCK : System Diagram

INFOID:000000001184170

AIR BAG INTERLOCK UNLOCK OPERATION



JMKIA0569GB

AIR BAG INTERLOCK UNLOCK : System Description

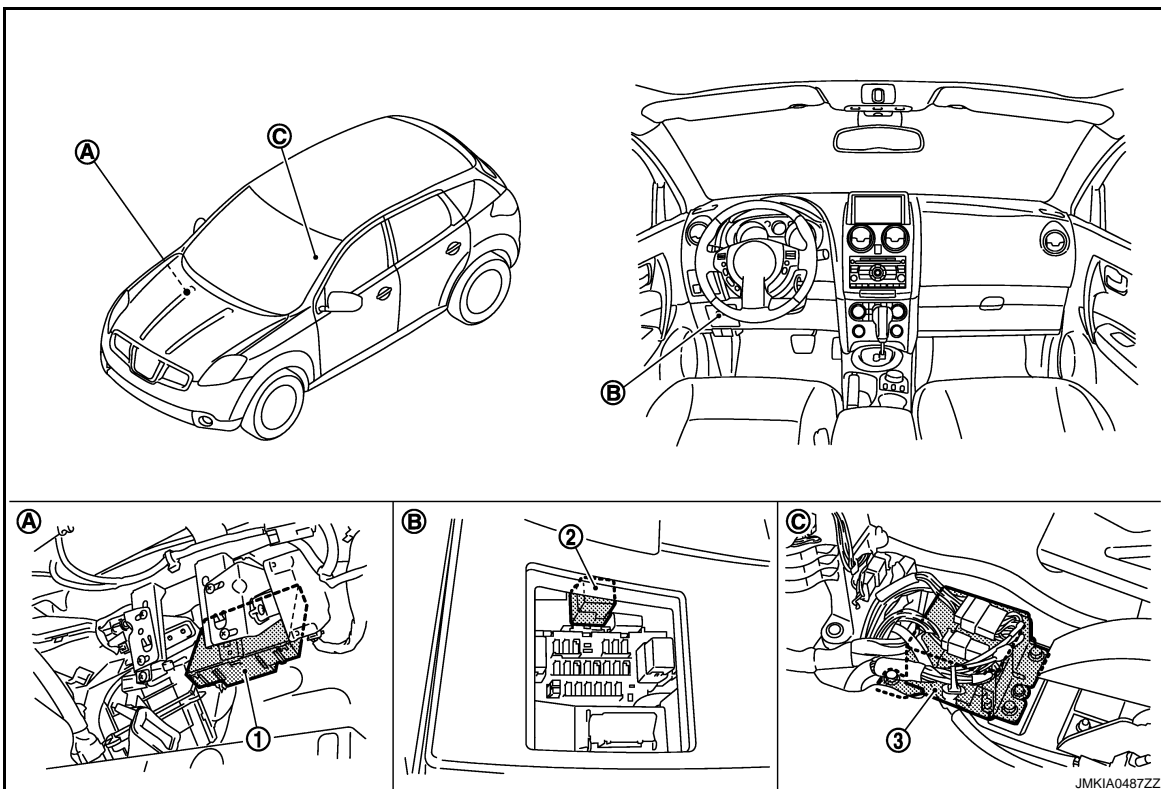
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AIR BAG INTERLOCK UNLOCK OPERATION

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:000000001184172



JMKIA0487ZZ

- 1. BCM
M65, M66, M67
- A. Over the glove box

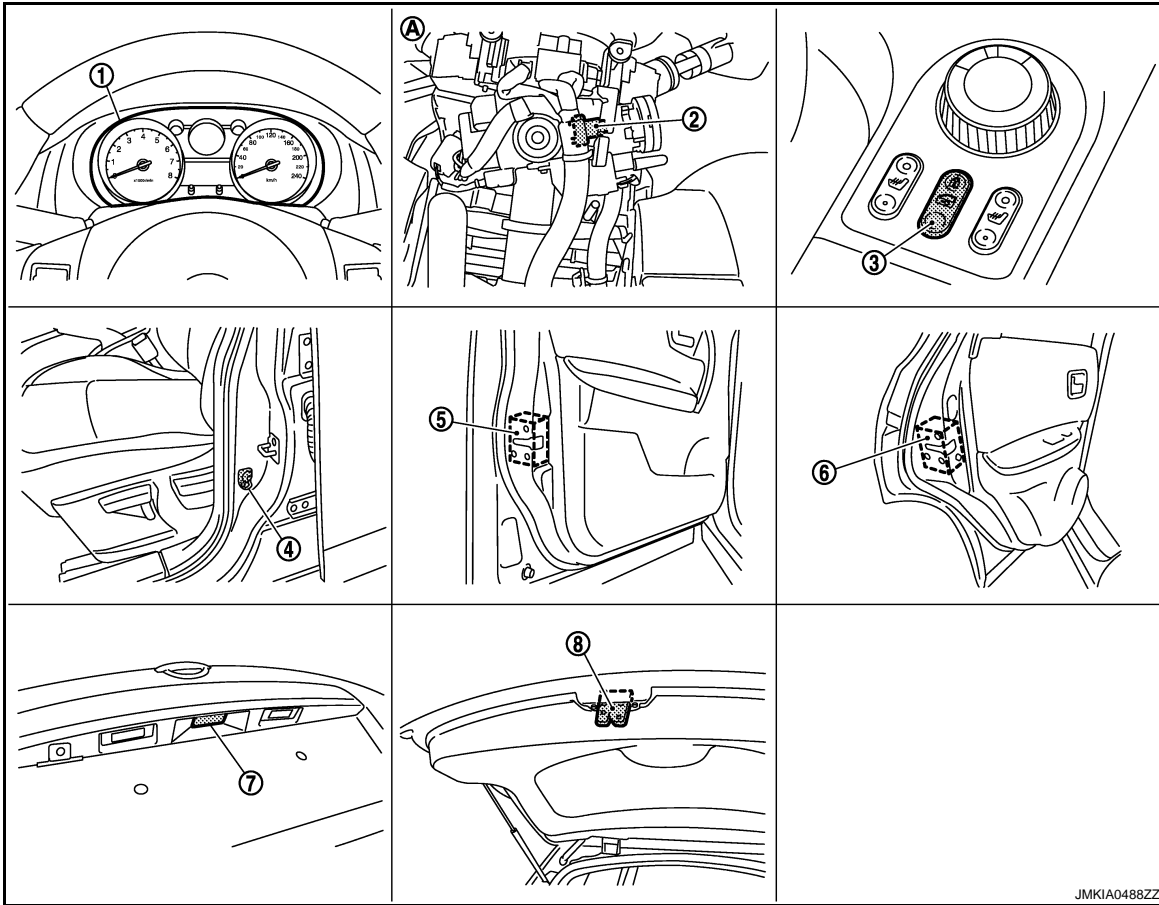
- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 3. Air bag diagnosis sensor unit
M59
- C. View with center console removed

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]



JMKIA0488ZZ

- | | | |
|--|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Door lock and unlock switch
M89 |
| 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
D186 | 8. Back door lock assembly
D152 | |
| A. View with steering column cover removed | | |

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AIR BAG INTERLOCK UNLOCK : Component Description

INFOID:000000001184173

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.

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BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

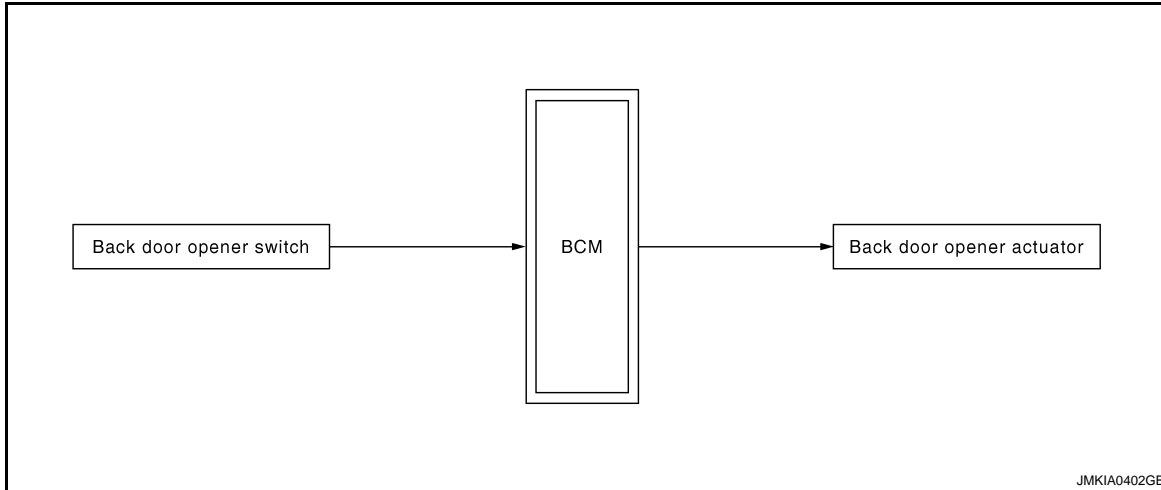
BACK DOOR OPENER FUNCTION

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : System Diagram

INFOID:000000001184174

BACK DOOR OPENER OPERATION



BACK DOOR OPENER SWITCH : System Description

INFOID:000000001184175

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 satisfied, back door opener operation can be 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.

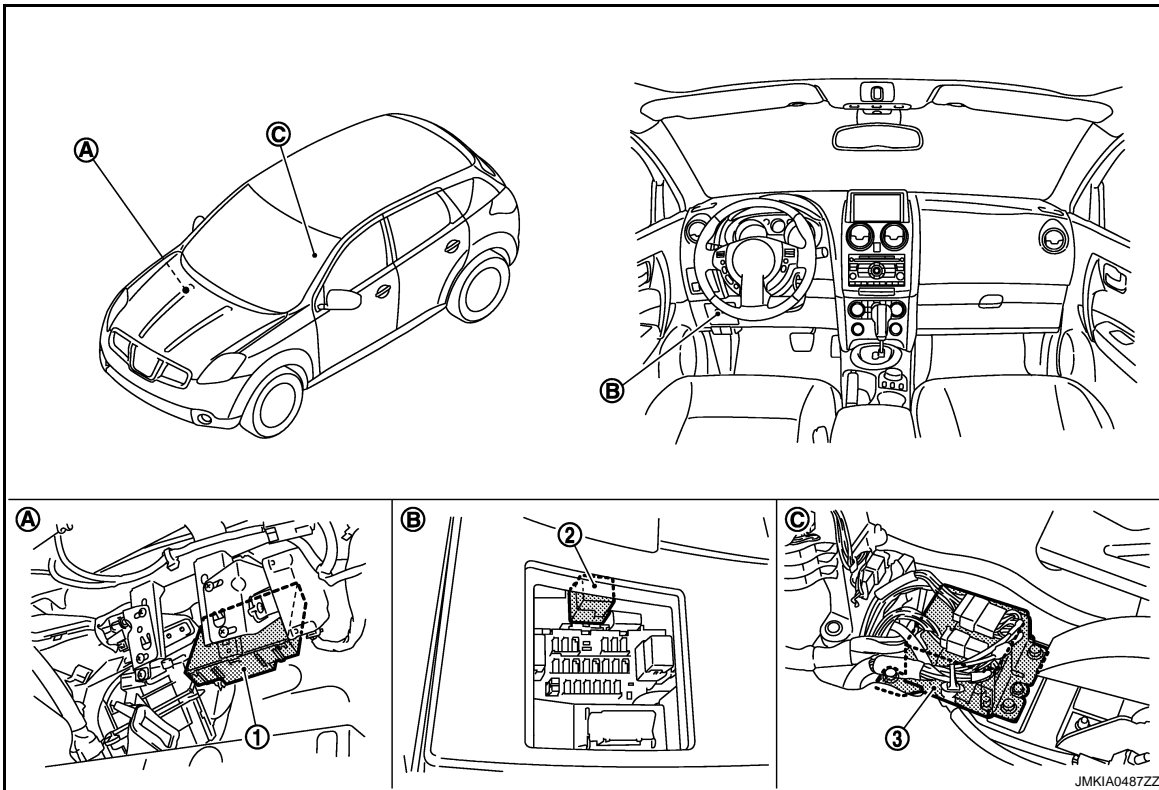
BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH : Component Parts Location

INFOID:000000001184176



- 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

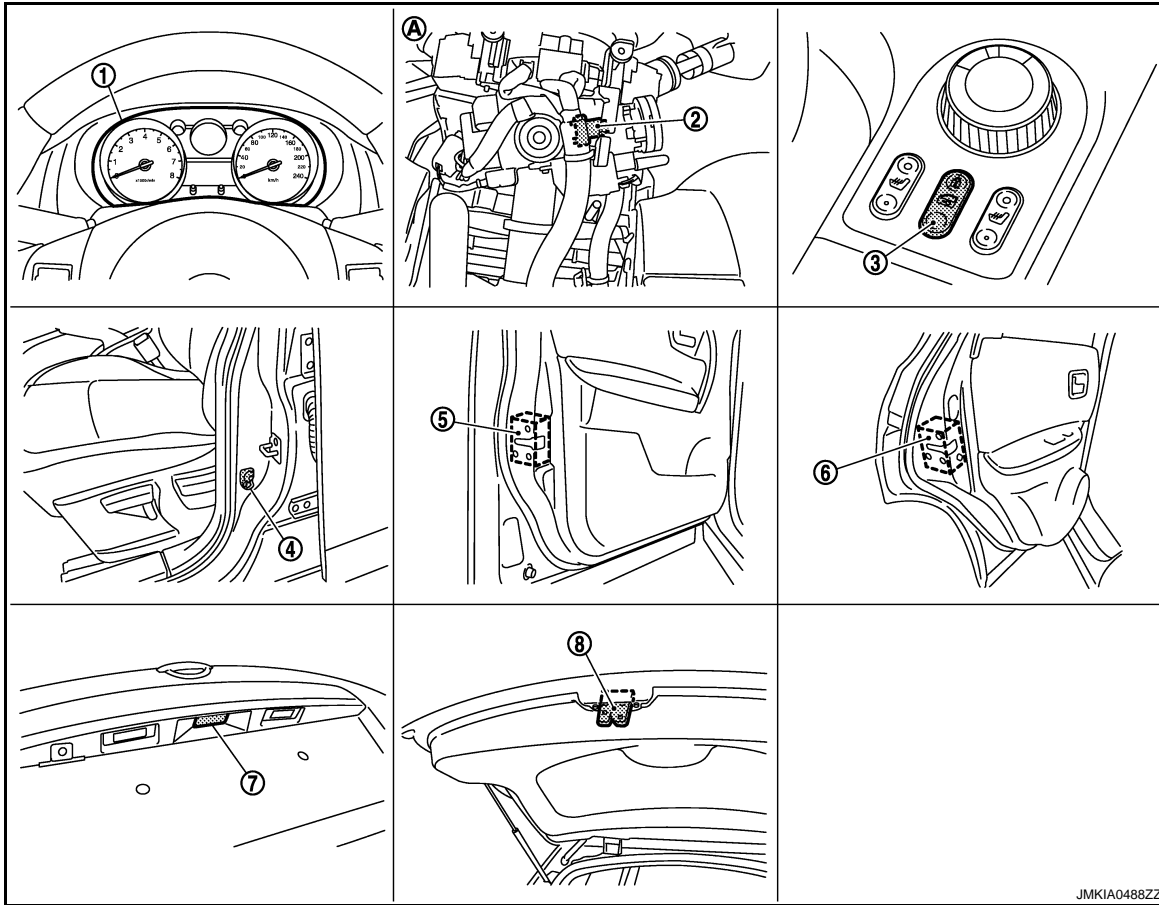
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BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]



- | | | |
|---|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Door lock and unlock switch
M89 |
| 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
D186 | 8. Back door lock assembly
D152 | |
- A. View with steering column cover removed

BACK DOOR OPENER SWITCH : Component Description

INFOID:000000001184177

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

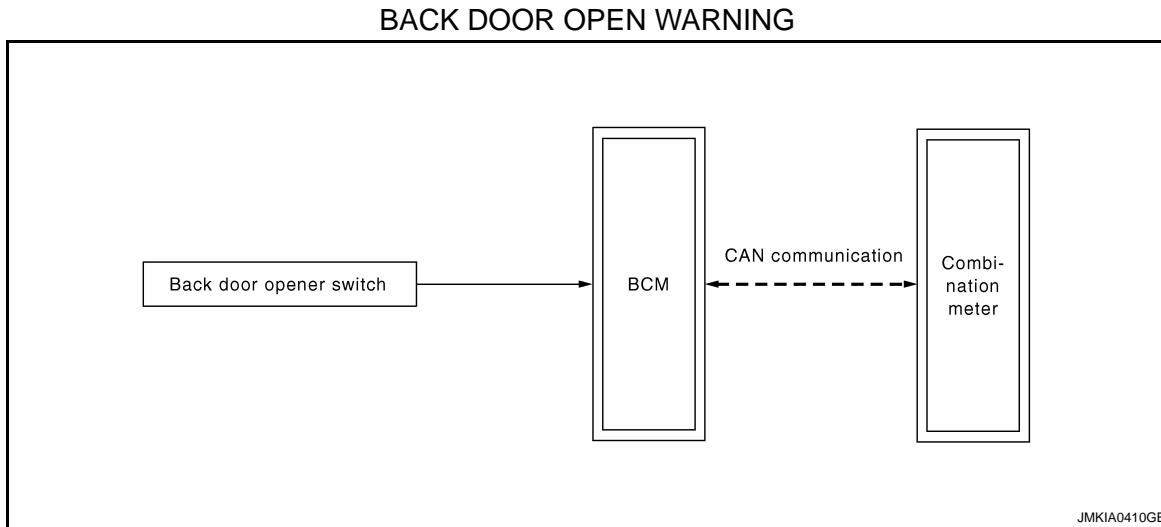
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

WARNING FUNCTION

System Diagram

INFOID:000000001184178



System Description

INFOID:000000001184179

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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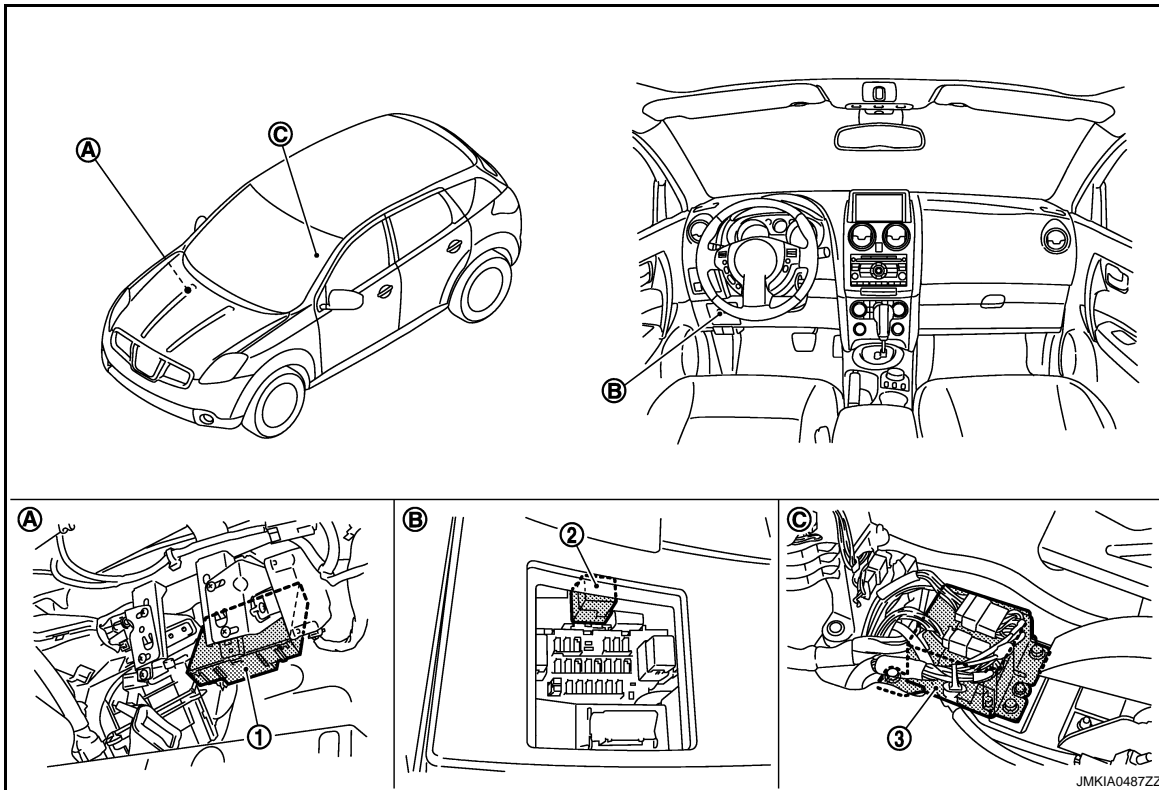
WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Component Parts Location

INFOID:000000001184180



- 1. BCM
M65, M66, M67
- A. Over the glove box

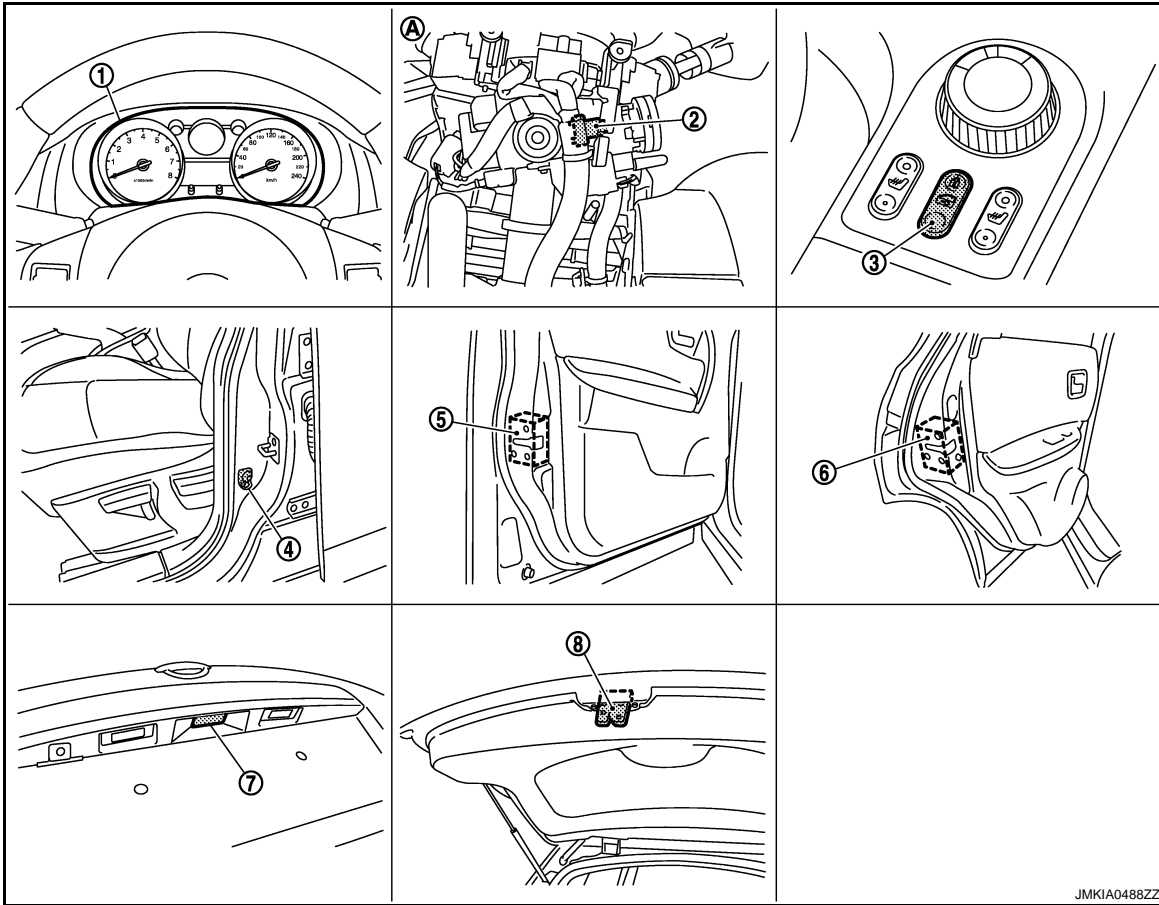
- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 3. Air bag diagnosis sensor unit
M59
- C. View with center console removed

WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]



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- | | | |
|--|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Door lock and unlock switch
M89 |
| 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
D186 | 8. Back door lock assembly
D152 | |
| A. View with steering column cover removed | | |

Component Description

INFOID:000000001184181

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

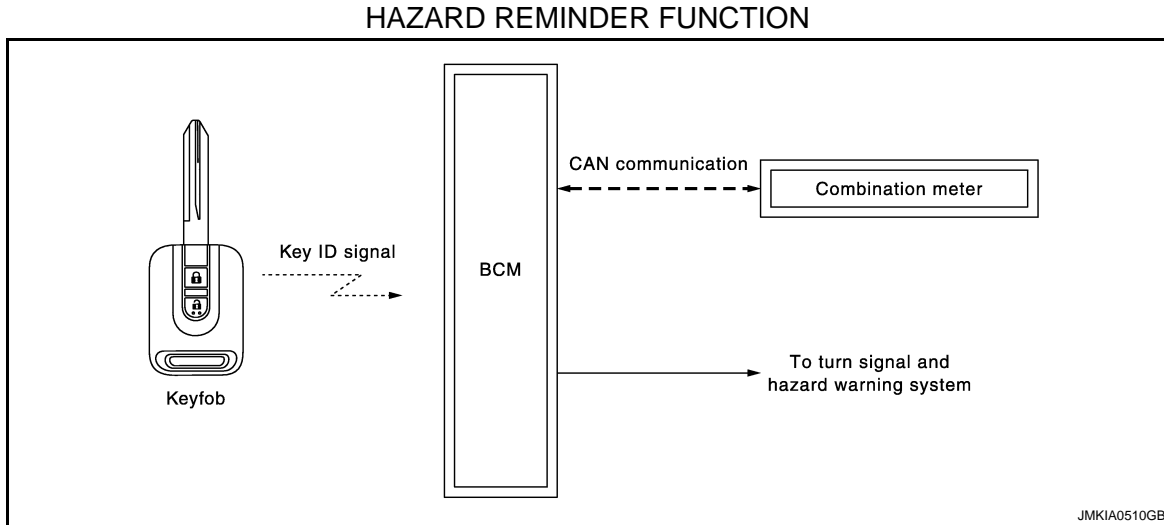
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

HAZARD REMINDER FUNCTION

System Diagram

INFOID:000000001184182



System Description

INFOID:000000001184183

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-577, "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

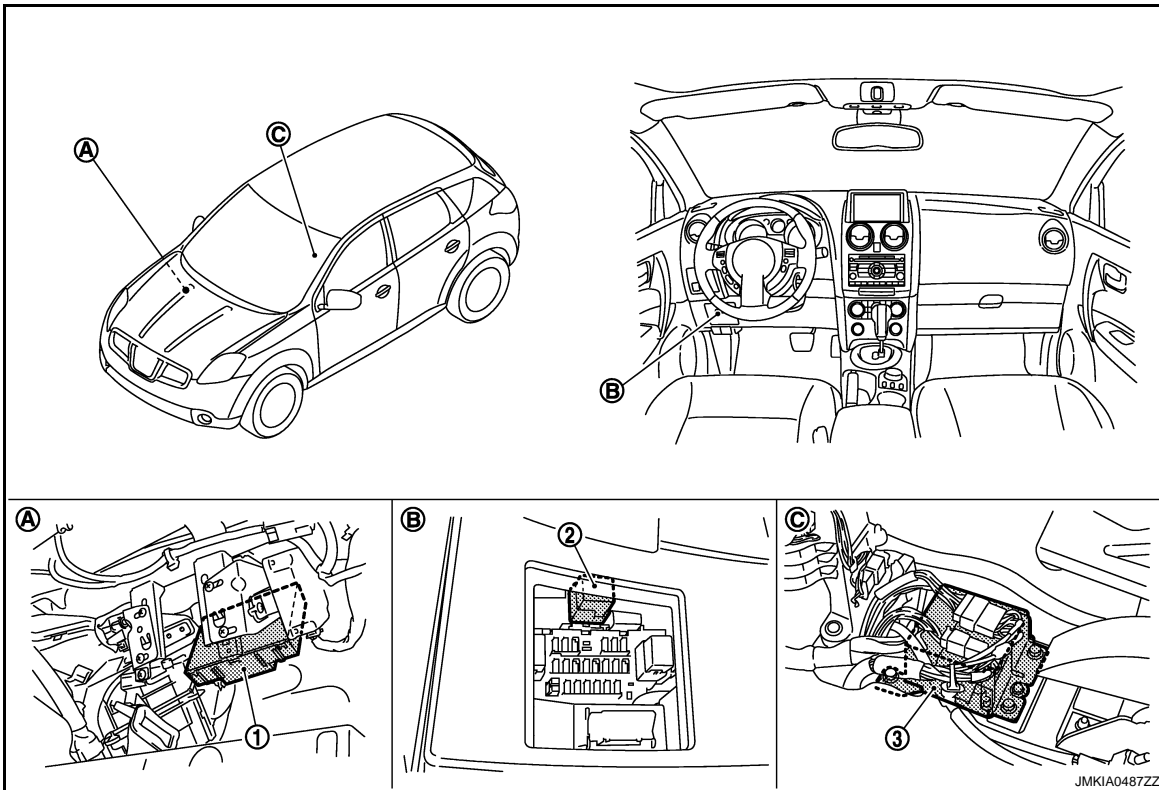
HAZARD REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Component Parts Location

INFOID:000000001184184



- 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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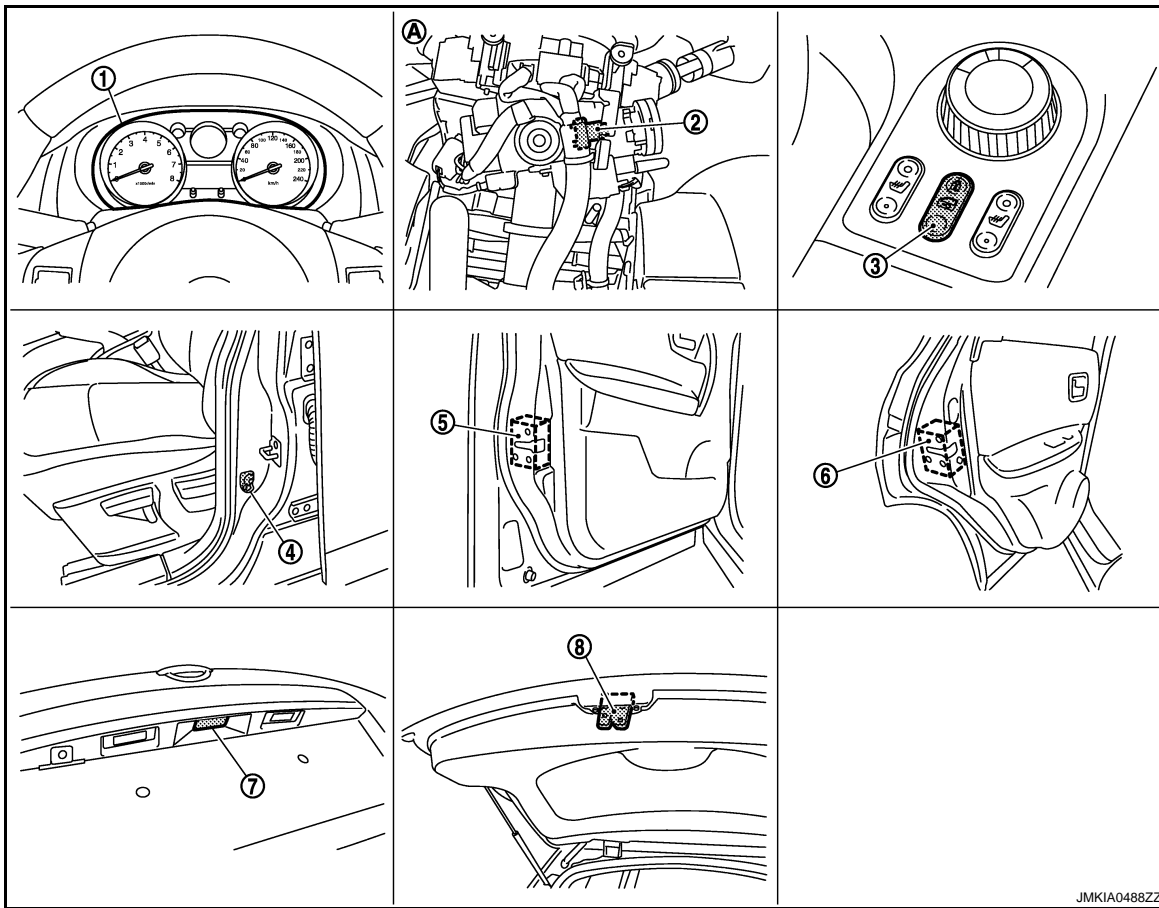
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HAZARD REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]



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- | | | |
|---|---|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M24 | 3. Door lock and unlock switch
M89 |
| 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
D186 | 8. Back door lock assembly
D152 | |
- A. View with steering column cover removed

Component Description

INFOID:000000001184185

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:000000001559410

APPLICATION ITEM

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

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to BCS-62, "DTC Index" .
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	<ul style="list-style-type: none"> Enables to read and save the vehicle specification. Enables to write the vehicle specification when replacing 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	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	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 system	PTC HEATER		×	×

DOOR LOCK

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

INFOID:000000001559411

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

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 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

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

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

MULTIREMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)

INFOID:000000001184188

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.
KEYLESS PANIC	This item is indicated, but not monitored.
MEMORY 1	Indicates [ON/OFF] condition of key fob ID code registration.
MEMORY 2	
MEMORY 3	
MEMORY 4	
MEMORY 5	

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

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-572, "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

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK)

INFOID:000000001559415

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:000000001607754

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-28, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001607755

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.	Any item (or items) of the following listed below is malfunctioning in CAN communication system. <ul style="list-style-type: none">• Transmission• Receiving (ECM)• Receiving (METER/M&A)• Receiving (TCM)• Receiving (MULTI AV)• Receiving (IPDM E/R)

Diagnosis Procedure

INFOID:000000001607756

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"](#).

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U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:000000001607757

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:000000001607758

1.REPLACE BCM

When "DTC:U1010" is detected, replace BCM.

>> Replace BCM. Refer to [BCS-65, "Exploded View"](#).

Special Repair Requirement

INFOID:000000001607759

1.ADDITIONAL SERVICE WHEN REPLACING BCM

>> Refer to [BCS-3, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description"](#).

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000001184196

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	9 (10A)
57		J (40A)

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		Voltage (Approx.)
(+)	(-)	
BCM		Ground Battery voltage
Connector	Terminal	
M66	41	
M67	57	

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		Existed

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 >

[WITHOUT I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH

Description

INFOID:000000001184197

Transmits door lock/unlock operation to BCM.

Component Function Check

INFOID:000000001184198

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?

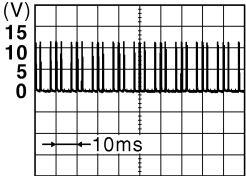
- YES >> Door lock and unlock switch is OK.
- NO >> Refer to [DLK-582, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184199

1. CHECK DOOR LOCK AND UNLOCK INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect door lock and unlock switch connector.
3. Check signal between door lock and unlock switch harness connector and ground with oscilloscope.

Terminal (+)		Terminal (-)	Signal (Reference value)
Door lock and unlock switch connector	Terminal		
M89	1	Ground	
	6		

JPMIA0154GB

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 door lock and unlock switch harness connector.

BCM connector	Terminal	Door lock and unlock switch connector	Terminal	Continuity
M65	7	M89	6	Exists
	9		1	

4. Check continuity between BCM harness connector and ground.

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M65	7		
	9		

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.

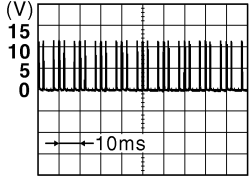
Door lock and unlock switch connector	Terminal	Ground	Continuity
M89	5		

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 signal between BCM harness connector and ground oscilloscope.

Terminal		Signal (Reference value)
(+)	(-)	
BCM connector	Terminal	 <p style="text-align: right; font-size: small;">JPMAI0154GB</p>
M65	7	
	9	
	Ground	

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace BCM. Refer to [BCS-65, "Exploded View"](#).

5.CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch
Refer to [DLK-74, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace door lock and unlock switch. Refer to [DLK-278, "Exploded View"](#).

Component Inspection

INFOID:000000001184200

1.CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Door lock and unlock switch	Terminal	Condition	Continuity
M89	6	LOCK	Exists
	1	UNLOCK	

Is the inspection result normal?

- YES >> Door lock and unlock switch is OK.
- NO >> Replace door lock and unlock switch. Refer to [DLK-278, "Exploded View"](#).

DOOR LOCK AND UNLOCK SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH INDICATOR

Description

INFOID:000000001184201

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:000000001184202

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-584, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184203

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	4		

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2. CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

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

BCM connector	Terminal	Door lock and unlock switch connector	Terminal	Continuity
M65	24	M89	4	Exists

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	24		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

DOOR LOCK AND UNLOCK SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Check continuity between door lock and unlock switch harness connector and ground.

Door lock and unlock switch connector	Terminal	Ground	Continuity
M89	5		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BCM OUTPUT SIGNAL

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

Terminal		Condition	Voltage (Approx.)
(+)	(-)		
BCM connector	Terminal	Door lock operation is accomplished	Battery voltage
M65	24		
	Ground	Any door is OPEN	0

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> Replace BCM. Refer to [BCS-65. "Exploded View"](#).

5.CHECK DOOR LOCK AND UNLOCK SWITCH INDICATOR

Check door lock and unlock switch

Refer to [DLK-585. "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> Replace door lock and unlock switch. Refer to [DLK-278. "Exploded View"](#).

Component Inspection

INFOID:000000001184204

1.CHECK DOOR LOCK AND UNLOCK SWITCH INDICATOR

Check continuity door lock and unlock switch.

Door lock and unlock switch	Terminal		Continuity
	(+)	(-)	
M89	5	4	Exists
	4	5	Does not exist

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Replace door lock and unlock switch. Refer to [DLK-278. "Exploded View"](#).

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DLK

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

DOOR SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001184205

Detects door open/closed condition.

DRIVER SIDE : Component Function Check

INFOID:000000001184206

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 >> Door switch is OK.

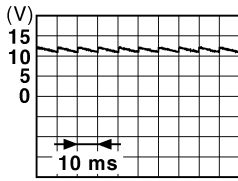
NO >> Refer to [DLK-586, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001184207

1.CHECK DOOR SWITCH INPUT SIGNAL

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

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal		
M65	26	OPEN	0
		CLOSE	

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Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and door switch harness connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	26	B34	1	Exists

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	26		Does not exist

DOOR SWITCH

[WITHOUT I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

Is the inspection result normal?

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

3.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-587, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace malfunctioning door switch. Refer to [DLK-706, "Exploded View"](#).

DRIVER SIDE : Component Inspection

INFOID:000000001184208

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
- NO >> Replace malfunctioning door switch. Refer to [DLK-706, "Exploded View"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001184209

Detects door open/closed condition.

PASSENGER SIDE : Component Function Check

INFOID:000000001184210

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 >> Door switch is OK.
- NO >> Refer to [DLK-587, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001184211

1.CHECK DOOR SWITCH INPUT SIGNAL

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

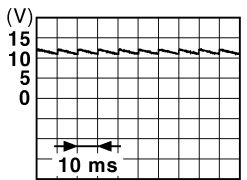
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DLK

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Terminals		(-)	Door condition	Voltage (V) (Approx.)
(+)				
BCM connector	Terminal			
M65	27	Ground	OPEN	0
			CLOSE	

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Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	27	B27	1	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	27		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 door switch.

Refer to [DLK-588, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> Replace malfunctioning door switch. Refer to [DLK-706, "Exploded View"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000001184212

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
 NO >> Replace malfunctioning door switch. Refer to [DLK-706, "Exploded View"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

REAR LH

REAR LH : Description

INFOID:000000001184213

Detects door open/closed condition.

REAR LH : Component Function Check

INFOID:000000001184214

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 >> Door switch is OK.

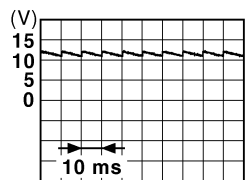
NO >> Refer to [DLK-589. "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001184215

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	25	OPEN	0
		CLOSE	

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Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

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

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	25	B71	1	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	25		Does not exist

Is the inspection result normal?

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

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

3.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-590, "REAR LH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> Replace malfunctioning door switch. Refer to [DLK-706, "Exploded View"](#).

REAR LH : Component Inspection

INFOID:000000001184216

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
NO >> Replace malfunctioning door switch. Refer to [DLK-706, "Exploded View"](#).

REAR RH

REAR RH : Description

INFOID:000000001184217

Detects door open/close condition.

REAR RH : Component Function Check

INFOID:000000001184218

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 >> Door switch is OK.
NO >> Refer to [DLK-590, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001184219

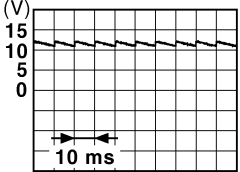
1.CHECK DOOR SWITCH INPUT SIGNAL

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

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal	(-)	
M65	29	Ground	0
		Ground	

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Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and door switch harness connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	29	B53	1	Exists

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	29	Ground	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 door switch.

Refer to [DLK-591, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> Replace malfunctioning door switch. Refer to [DLK-706, "Exploded View"](#).

REAR RH : Component Inspection

INFOID:000000001184220

1.CHECK DOOR SWITCH

- Turn ignition switch OFF.
- Disconnect door switch connector.
- Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
 NO >> Replace malfunctioning door switch. Refer to [DLK-706, "Exploded View"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR

BACK DOOR : Description

INFOID:000000001184221

Detects back door open/close condition.

BACK DOOR : Component Function Check

INFOID:000000001184222

1. CHECK FUNCTION

With CONSULT-III

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

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

Is the inspection result normal?

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

NO >> Refer to [DLK-592. "BACK DOOR : Diagnosis Procedure"](#).

BACK DOOR : Diagnosis Procedure

INFOID:000000001184223

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		
M65	28	OPEN	0
		CLOSE	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

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

1. Disconnect BCM 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	28	D152	4	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	28		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.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Back door lock assembly (door switch) connector	Terminal	Ground	Continuity
D152	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	28		

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace BCM. Refer to [BCS-65, "Exploded View"](#).

5.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

Check back door lock assembly (door switch).

Refer to [DLK-593, "BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace back door lock assembly (door switch). Refer to [DLK-702, "DOOR LOCK : Removal and Installation"](#).

BACK DOOR : Component Inspection

INFOID:000000001184224

1.CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

1. Turn ignition switch OFF.
2. Disconnect back door lock assembly (door switch) connector.
3. Check back door lock assembly (door switch).

Terminal		Trunk condition	Continuity
Back door lock assembly (door switch)			
4	3	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 (door switch). Refer to [DLK-702, "DOOR LOCK : Removal and Installation"](#).

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KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

KEY SWITCH

Description

INFOID:000000001184225

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

Component Function Check

INFOID:000000001184226

1.CHECK KEY SWITCH INPUT SIGNAL

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

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-594, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184227

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	36	Ground	Battery voltage
		Insert ignition key into key cylinder	0

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 2.

2.CHECK KEY SWITCH POWER SUPPLY CIRCUIT

1. Remove ignition 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 harness connector.

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BCM connector	Terminal	Key switch connector	Terminal	Continuity
M65	36	M24	1	Existed

2. Check continuity between key switch harness connector and ground.

Key switch connector	Terminal	Ground	Continuity
M24	1	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK KEY SWITCH

Check key switch.

Refer to [DLK-595, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace key cylinder assembly.

Component Inspection

INFOID:000000001184228

COMPONENT INSPECTION

1.CHECK KEY SWITCH

Check continuity between key switch terminals.

Terminal		Condition	Continuity
key switch connector			
1	2	Insert ignition key into key cylinder	Existed
		Remove ignition key from key cylinder	Not existed

Is the inspection result normal?

YES >> Key switch is OK.

NO >> Replace key cylinder assembly.

DLK

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001184229

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:000000001184230

1. CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK" in Active test mode with CONSULT-III.

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

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-596, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001184231

1. CHECK BCM OUTPUT SIGNAL

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		
	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. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator (driver side) connector.
3. Check continuity between BCM harness connector and front door lock actuator (driver side) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	56	D9	3	Exists
	60		2	

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		Ground
	60		

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

NO >> Repair or replace harness.

3.CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-597, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-690, "DOOR LOCK : Removal and Installation"](#) [DLK-254, "DOOR LOCK : Removal and Installation"](#).

DRIVER SIDE : Component Inspection

INFOID:000000001184232

1.CHECK FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)

Check the actuator operation by connecting the battery voltage to front door lock actuator (driver side).

Front door lock actuator (driver side)	Terminal		Door lock actuator condition
	(+)	(-)	
D9	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

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

NO >> Replace front door lock actuator (driver side). Refer to [DLK-690, "DOOR LOCK : Removal and Installation"](#).

DRIVER SIDE : Special Repair Requirement

INFOID:000000001184233

Refer to [PWC-4, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001184234

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000001184235

DLK

1.CHECK FUNCTION

 **With CONSULT-III**

Check "DOOR LOCK" in Active test mode with CONSULT-III.

Test item	Condition
DOOR LOCK :ALL LOCK	The all door lock actuator are locked
DOOR LOCK :ALL UNLOCK	The all door lock actuator are unlocked
DOOR LOCK :OTHER UNLOCK	The door lock actuator (front passenger side, rear LH and rear RH) are unlocked

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-597, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001184236

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Terminals		(-)	Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+) BCM connector				
Terminal				
M67	56	Ground	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 front door lock actuator (passenger side) connector.
- Check continuity between BCM harness connector and front door lock actuator (passenger side) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	56	D48	3	Exists
	54		2	

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	56		
	54		

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace harness.

3. CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-598, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-690, "DOOR LOCK : Removal and Installation"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000001184237

1. CHECK FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)

Check the actuator operation by connecting the battery voltage directly to front door lock actuator (passenger side).

Front door lock actuator (passenger side) connector	Terminal		Door lock actuator condition
	(+)	(-)	
D48	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

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

NO >> Replace front door lock actuator (passenger side). Refer to [DLK-690, "DOOR LOCK : Removal and Installation"](#).

REAR LH

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

REAR LH : Description

INFOID:000000001184238

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:000000001184239

1.CHECK FUNCTION

With CONSULT-III

Check "DOOR LOCK" in Active test mode with CONSULT-III.

Test item	Condition
DOOR LOCK :ALL LOCK	The all door lock actuator are locked
DOOR LOCK :ALL UNLOCK	The all door lock actuator are unlocked
DOOR LOCK :OTHER UNLOCK	The door lock actuator (front passenger side, rear LH and rear RH) are unlocked

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-599, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001184240

1.CHECK BCM OUTPUT SIGNAL

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 3.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM and rear door lock actuator (LH) connector.
- Check continuity between BCM harness connector and rear door lock actuator (LH) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	56	D85	3	Exists
	54		2	

- 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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace harness.

3.CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-600, "REAR LH : Component Inspection"](#).

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-696, "DOOR LOCK : Removal and Installation"](#).

REAR LH : Component Inspection

INFOID:000000001184241

1.CHECK REAR DOOR LOCK ACTUATOR (LH)

Check the actuator operation by connecting the battery voltage directly to rear door lock actuator (LH).

Rear door lock actuator (LH)	Terminal		Door lock actuator condition
	(+)	(-)	
D85	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

YES >> Rear door lock actuator (LH) is OK.

NO >> Replace rear door lock actuator (LH). Refer to [DLK-696, "DOOR LOCK : Removal and Installation"](#).

REAR RH

REAR RH : Description

INFOID:000000001184242

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:000000001184243

1.CHECK FUNCTION

 **With CONSULT-III**

Check "DOOR LOCK" in Active test mode with CONSULT-III.

Test item	Condition
DOOR LOCK :ALL LOCK	The all door lock actuator are locked
DOOR LOCK :ALL UNLOCK	The all door lock actuator are unlocked
DOOR LOCK :OTHER UNLOCK	The door lock actuator (front passenger side, rear LH and rear RH) are unlocked

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-600, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001184244

1.CHECK BCM OUTPUT SIGNAL

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 3.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock actuator (RH) connector.

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

3. Check continuity between BCM harness connector and rear door lock actuator (RH) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	56	D105	3	Exists
	54		2	

4. 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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Repair or replace harness.

3.CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-601, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace door lock actuator. Refer to [DLK-696, "DOOR LOCK : Removal and Installation"](#).

REAR RH : Component Inspection

INFOID:000000001184245

1.CHECK REAR DOOR LOCK ACTUATOR (RH)

Check the actuator operation by connecting the battery voltage directly to rear door lock actuator (RH).

Rear door lock actuator (RH)	Terminal		Door lock actuator condition
	(+)	(-)	
D105	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

- YES >> Rear door lock actuator (RH) is OK.
- NO >> Replace rear door lock actuator (RH). Refer to [DLK-696, "DOOR LOCK : Removal and Installation"](#).

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BACK DOOR OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR OPENER ACTUATOR

Description

INFOID:000000001184246

Opens the back door with the signal from BCM.

Component Function Check

INFOID:000000001184247

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 lock opener actuator operation

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-602, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184248

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 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	D152	2	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
D152	1		Exists

Is the inspection result normal?

BACK DOOR OPENER ACTUATOR

[WITHOUT I-KEY & SUPER LOCK]

< COMPONENT DIAGNOSIS >

- YES >> GO TO 4.
- NO >> Repair or replace harness.

4.CHECK BACK DOOR LOCK ASSEMBLY

Check the actuator operation by connecting battery voltage to back door lock assembly.
Refer to [DLK-603. "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
- NO >> Replace back door lock assembly. Refer to [DLK-702. "DOOR LOCK : Removal and Installation"](#).

Component Inspection

INFOID:000000001184249

1.CHECK BACK DOOR LOCK ASSEMBLY

Check the actuator operation by connecting battery voltage to back door lock assembly.

Back door lock assembly connector	Terminal		Back door actuator condition
D152	(+)	(-)	OPEN
	2	1	

Is the inspection result normal?

- YES >> Back door lock assembly (back door lock actuator) is OK.
- NO >> Replace back door lock assembly (back door lock actuator). Refer to [DLK-702. "DOOR LOCK : Removal and Installation"](#).

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BACK DOOR OPENER SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH

Description

INFOID:000000001184250

Sends the back door opening signal to BCM.

Component Function Check

INFOID:000000001184251

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-604, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184252

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	12	Pressed	0
		Released	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

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 connector.
3. Check continuity between BCM harness connector and back door opener switch harness connector.

BCM connector	Terminal	Back door opener switch connector	Terminal	Continuity
M65	12	D186	1	Exists

4. 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.

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	12	
	Ground	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to [BCS-65, "Exploded View"](#).

4.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

Back door 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.

Refer to [DLK-605, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace back door opener switch. Refer to [DLK-277, "Exploded View"](#).

Component Inspection

INFOID:000000001184253

1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Back door opener switch connector	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 is OK.

NO >> Replace back door opener switch. Refer to [DLK-277, "Exploded View"](#).

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BUZZER (COMBINATION METER)

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BUZZER (COMBINATION METER)

Description

INFOID:000000001184254

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:000000001184255

1.CHECK FUNCTION

With CONSULT-III

Check the operation with "KEY REMINDER WARN" in the "Active Test" with CONSULT-III.

Is the inspection result normal?

YES >> Warning buzzer into combination meter is OK.

NO >> Refer to [DLK-606, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184256

1.CHECK METER BUZZER CIRCUIT

Refer to [WCS-21, "Component Function Check"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace meter buzzer circuit.

HAZARD WARNING LAMPS

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

HAZARD WARNING LAMPS

Description

INFOID:000000001184257

Perform answer-back for each operation with number of blinks.

Component Function Check

INFOID:000000001184258

1.CHECK FUNCTION

With CONSULT-III

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

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.

NO >> Refer to [DLK-607, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184259

1.CHECK HAZARD SWITCH CIRCUIT

Check hazard switch circuit.

Refer to [EXL-75, "Component Function Check"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace hazard warning switch circuit.

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VEHICLE SPEED SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

VEHICLE SPEED SIGNAL CIRCUIT

Description

INFOID:000000001184260

Display the vehicle speed signal received from combination meter by numerical value (km/h).

Component Function Check

INFOID:000000001184261

1.CHECK FUNCTION

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

Is the inspection result normal?

- YES >> Vehicle speed signal circuit is OK.
- NO >> Refer to [DLK-608, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184262

1.CHECK VEHICLE SPEED SIGNAL CIRCUIT

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

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Repair or replace hazard warning switch circuit.

KEYFOB BATTERY

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

KEYFOB BATTERY

Description

INFOID:000000001184263

Remote door lock and unlock control entry function available when operating on button.

- Door lock and unlock

Component Function Check

INFOID:000000001184264

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-609. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184265

1.CHECK KEYFOB BATTERY

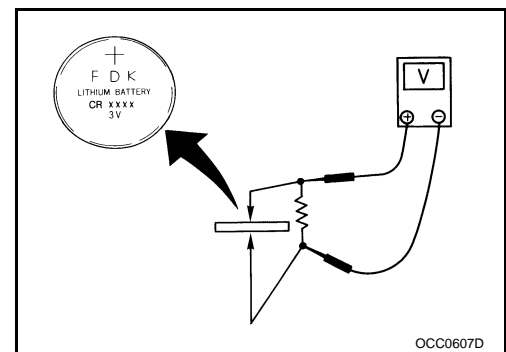
Check by connecting a resistance (approximately 300 Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

YES >> Replace keyfob.

NO >> Replace keyfob battery. Refer to [DLK-708. "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:000000001559423

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ACC ON SW	Ignition switch OFF	Off
	Ignition switch ACC or ON	On
AIR COND SW	A/C switch OFF	Off
	A/C switch ON	On
AUT LIGHT SYS	Outside of the room is bright	Off
	Outside of the room is dark	On
AUTO LIGHT SW	Lighting switch OFF	Off
	Lighting switch AUTO	On
AUTO RELOCK	Auto lock function does not operate	Off
	Auto lock function is operating	On
BACK DOOR SW	Back door closed	Off
	Back door opened	On
BATTERY VOLT NOTE: Diesel engine models only	Ignition switch ON	Approximately the same as power supply voltage
BRAKE SW	Brake pedal is not depressed	Off
	Brake pedal is depressed	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-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Monitor Item	Condition	Value/Status	
ELEC PWR CUT NOTE: Diesel engine models only	Engine running	Fan switch ON (when engine coolant is cool) NOTE: Depending on the ambient temperature, battery voltage, etc.	Off
		The current status maintained with the signal from ECM received.	FREEZ
		<ul style="list-style-type: none"> • Fan switch OFF • Fan switch ON after engine warming UP NOTE: Depending on the engine coolant temperature, ambient temperature, battery voltage, etc.	INHBT
ENG COOLNT T NOTE: Diesel engine models only	Engine running	Approximately the same as water temperature gauge reading	
ENGINE RPM NOTE: Diesel engine models only	Engine running	Approximately the same as tachometer reading	
ENGINE RUN	Engine stopped	Off	
	Engine running	On	
ENGINE STATUS NOTE: Diesel engine models only	Engine stopped	STOP	
	While the engine stalls	STALL	
	Engine running	RUN	
	At engine cranking	CRA	
FAN ON SIG	Fan switch OFF	Off	
	Fan switch ON	On	
FR FOG SW	Front fog lamp switch OFF	Off	
	Front fog lamp switch ON	On	
FR WASHER SW	Front washer switch OFF	Off	
	Front washer switch ON	On	
FR WIPER LOW	Front wiper switch OFF	Off	
	Front wiper switch LO	On	
FR WIPER HI	Front wiper switch OFF	Off	
	Front wiper switch HI	On	
FR WIPER INT	Front wiper switch OFF	Off	
	Front wiper switch INT	On	
FR WIPER STOP	Any position other than front wiper stop position	Off	
	Front wiper stop position	On	
GLS BREAK SEN	The vehicle without glass break sensor	On	
	The vehicle with glass break sensor	Off	
HAZARD SW	When hazard switch is not pressed	Off	
	When hazard switch is pressed	On	
HD LIGHT TIME	—	Displays a setting time of the follow me home function set by the work support	

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DLK

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Monitor Item	Condition	Value/Status
HEAD LAMP SW 1	Lighting switch OFF	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Lighting switch OFF	Off
	Lighting switch 2ND	On
HI BEAM SW	Lighting switch OFF	Off
	Lighting switch HI	On
HOOD SW	Close the hood NOTE: Vehicles without theft warning system are OFF-fixed	Off
	Open the hood	On
H/L WASH SW	NOTE: The item is indicated, but not monitored	Off
IGN ON SW	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
IGN SW CAN	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
I-KEY LOCK	LOCK button of Intelligent Key is not pressed	Off
	LOCK button of Intelligent Key is pressed	On
I-KEY UNLOCK	UNLOCK button of Intelligent Key is not pressed	Off
	UNLOCK button of Intelligent Key is pressed	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
	Mechanical key is inserted to key cylinder	On
KEYLESS LOCK	LOCK button of key fob is not pressed	Off
	LOCK button of key fob is pressed	On
KEY LESS PANIC	NOTE: The item is indicated, but not monitored	Off
KEYLESS UNLOCK	UNLOCK button of key fob is not pressed	Off
	UNLOCK button of key fob is pressed	On
LIT-SEN FAIL	Light & rain sensor is in normal condition	OK
	Light & rain sensor is with internal error	NOT OK
MEMORY 1	Key fob ID code is not registered in "Memory 1"	Off
	Key fob ID code is registered in "Memory 1"	On
MEMORY 2	Key fob ID code is not registered in "Memory 2"	Off
	Key fob ID code is registered in "Memory 2"	On
MEMORY 3	Key fob ID code is not registered in "Memory 3"	Off
	Key fob ID code is registered in "Memory 3"	On
MEMORY 4	Key fob ID code is not registered in "Memory 4"	Off
	Key fob ID code is registered in "Memory 4"	On
MEMORY 5	Key fob ID code is not registered in "Memory 5"	Off
	Key fob ID code is registered in "Memory 5"	On
OIL PRESS SW	<ul style="list-style-type: none"> • Ignition switch OFF or ACC • Engine running 	Off
	Ignition switch ON	On
OUT SIDE TEMP NOTE: Diesel engine models	Ignition switch ON	Approximately the same as outside air temperature

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Monitor Item	Condition	Value/Status
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
REVERSE SW CAN	Except selector lever R position	Off
	Selector lever R position	On
PUSH SW	Return to ignition switch to LOCK position	Off
	Press ignition switch	On
REAR DEF SW	Rear window defogger switch OFF	Off
	Rear window defogger switch ON	On
RR FOG SW	Rear fog lamp switch OFF	Off
	Rear fog lamp switch ON	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
RR WIPER INT	Rear wiper switch OFF	Off
	Rear wiper switch INT	On
RR WIPER ON	Rear wiper switch OFF	Off
	Rear wiper switch ON	On
RR WIPER STOP	Rear wiper stop position	Off
	Other than rear wiper stop position	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
TAIL LAMP SW	Lighting switch OFF	Off
	Lighting switch 1ST	On
TRNK OPNR SW	When back door opener switch is not pressed	Off
	When back door opener switch is pressed	On
TURN SIGNAL L	Turn signal switch OFF	Off
	Turn signal switch LH	On
TURN SIGNAL R	Turn signal switch OFF	Off
	Turn signal switch RH	On
UNLOCK SHOCK	Other than the following	Off
	During the unlock operation interlocked with air bag	On
VEHICLE SPEED	While driving	Equivalent to speedometer reading

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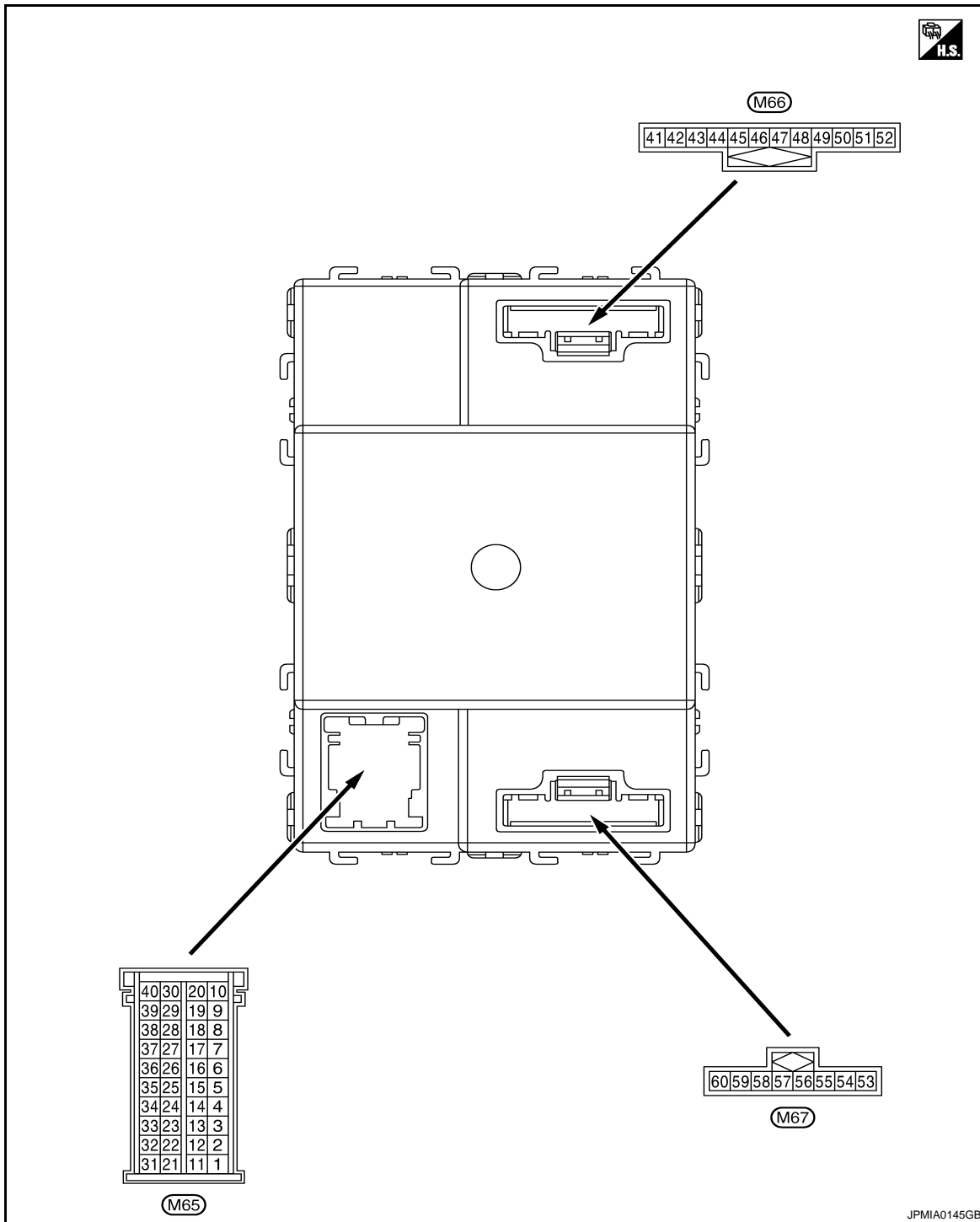
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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

TERMINAL LAYOUT



PHYSICAL VALUES

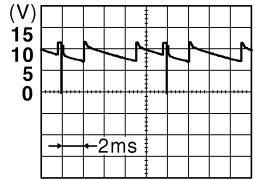
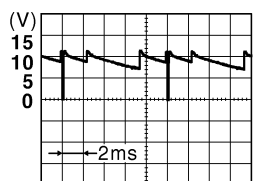
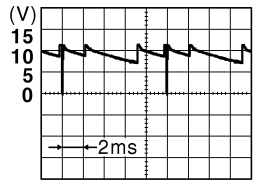
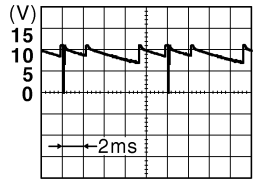
CAUTION:

- 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-27, "COMB SW : CONSULT-III Function \(BCM - COMB SW\)"](#).
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to [BCS-10, "System Description"](#).

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
1 (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)	
					Rear wiper switch INT (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 	
2 (Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Lighting switch 2ND	
					Lighting switch PASS	
					Front fog lamp switch ON	
					Turn signal switch LH	
3 (LG)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	0 V
					Lighting switch AUTO	
					Rear fog lamp switch OFF	
					Front wiper switch MIST	
					Front wiper switch INT	
					Front wiper switch LO	
4 (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)	
					Rear wiper switch ON (Wiper intermittent dial 4)	
					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 	9.1 V					

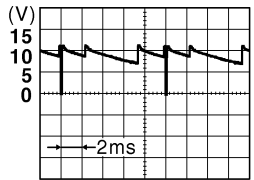
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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

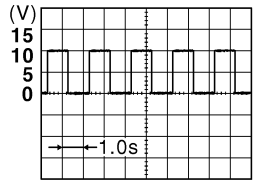
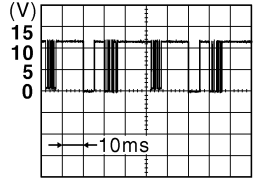
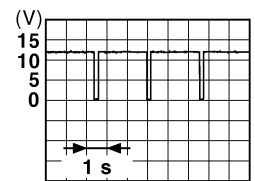
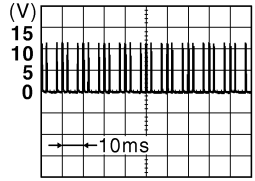
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
5 (W)	Ground	Combination switch OUTPUT 5	Output	All switch OFF	0 V
				Lighting switch 1ST	 <p style="text-align: right; font-size: small;">JPMIA0164GB</p>
				Lighting switch 2ND	
				Lighting switch HI	
				Turn signal switch RH	
7 (P)	Ground	Door lock/unlock switch (Lock)	Input	Door lock/un- lock switch	Not pressed
				Pressed to the lock side	0 V
8 (LG)	Ground	Hazard switch	Input	Hazard switch	Not pressed
				Pressed	0 V
9 (BR)	Ground	Door lock/unlock switch (Unlock)	Input	Door lock/un- lock switch	Not pressed
				Pressed to the unlock side	0 V
12 (P)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed
				Pressed	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		
+	-				
13 (R)	Ground	Shock detect sensor	Input	Ignition switch OFF or ACC	0 V
				Ignition switch ON	 <p style="text-align: right; font-size: small;">JPMIA0155GB</p>
14 (L/R)	Ground	A/C switch	Input	A/C switch	Not pressed: Battery voltage
				Pressed	0 V
15 (LG/B)	Ground	Fan switch	Input	Fan switch	Not pressed: Battery voltage
				Pressed	0 V
16 (GR)	Ground	Alarm link	Output	—	—
17 (BR)	Ground	Light & rain sensor serial link	Input/ Output	Ignition switch OFF or ACC	Battery voltage
				Ignition switch ON	 <p style="text-align: right; font-size: small;">JPMIA0156GB</p>
18 (SB)	Ground	Security indicator	Output	Security indicator	ON: 0 V
				Blinking	 <p style="text-align: right; font-size: small;">JPMIA0014GB</p>
				OFF	Battery voltage
19 (L)	—	CAN-H	Input/ Output	—	—
20 (P)	—	CAN-L	Input/ Output	—	—
21 (SB)	Ground	Rear window defogger switch	Input	Rear window defogger switch	Not pressed:  <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
				While pressing	0 V

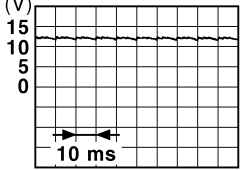
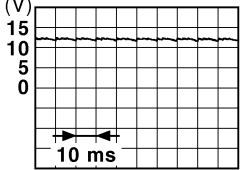
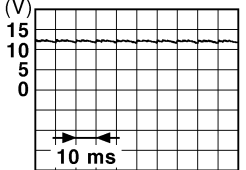
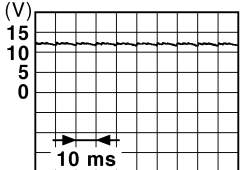
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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

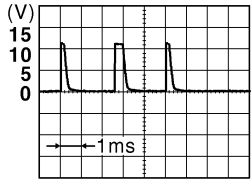
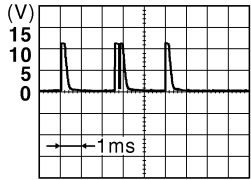
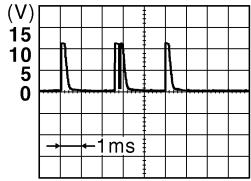
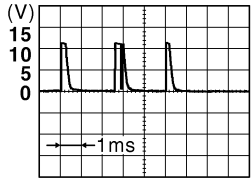
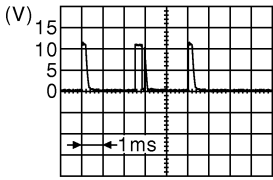
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
24 (GR)	Ground	Door lock status indicator	Output	Door lock status indicator	ON	Battery voltage
					OFF	0 V
25 (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
26 (R)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	 11.2 V
					ON (When driver door opened)	0 V
27 (BR)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	 11.2 V
					ON (When passenger door opened)	0 V
28 (G)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	Battery voltage
					ON (When back door opened)	0 V
29 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	 11.2 V
					ON (When rear door RH opened)	0 V
30 (SB)	Ground	Audio link	Input/ Output	—	—	—

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
31 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)  1.3 V
					Front fog lamp switch ON (Wiper intermittent dial 4)  1.3 V
					Rear fog lamp switch ON (Wiper intermittent dial 4)  1.3 V
					Rear wiper switch ON (Wiper intermittent dial 4)  1.3 V
					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  1.3 V

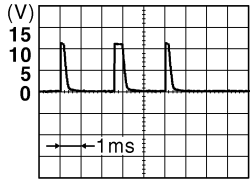
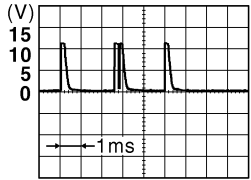
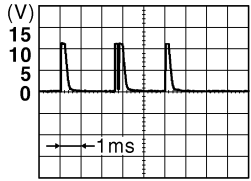
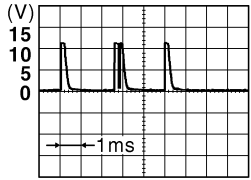
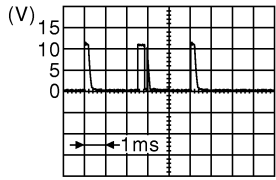
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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

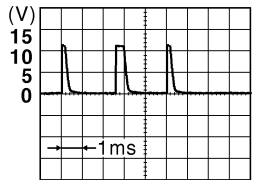
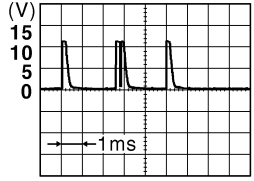
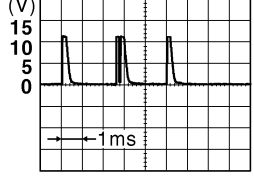
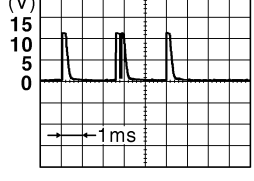
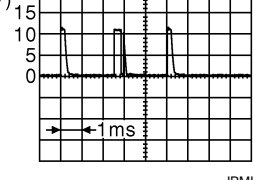
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Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
32 (G)	Ground	Combination switch INPUT 2	Input	All switch OFF	 <p style="text-align: center;">1.4 V</p>
				Lighting switch PASS	 <p style="text-align: center;">1.3 V</p>
				Lighting switch 2ND	 <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)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
33 (V)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	 <p style="text-align: right; font-size: small;">JPMIA0165GB</p> <p style="text-align: center;">1.4 V</p>
					Turn signal switch LH	 <p style="text-align: right; font-size: small;">JPMIA0167GB</p> <p style="text-align: center;">1.3 V</p>
					Turn signal switch RH	 <p style="text-align: right; font-size: small;">JPMIA0166GB</p> <p style="text-align: center;">1.3 V</p>
					Front wiper switch LO	 <p style="text-align: right; font-size: small;">JPMIA0168GB</p> <p style="text-align: center;">1.3 V</p>
					Front washer switch ON	 <p style="text-align: right; font-size: small;">JPMIA0196GB</p> <p style="text-align: center;">1.3 V</p>

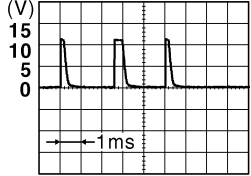
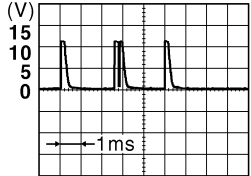
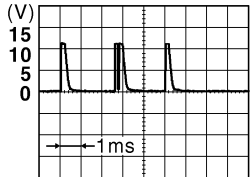
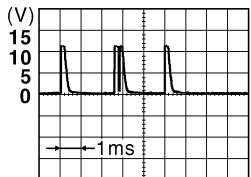
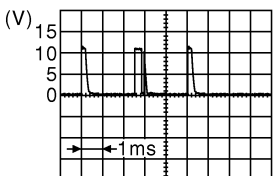
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BCM (BODY CONTROL MODULE)

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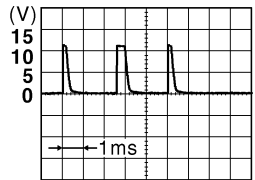
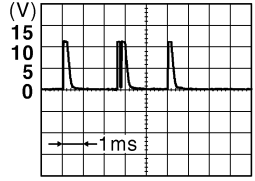
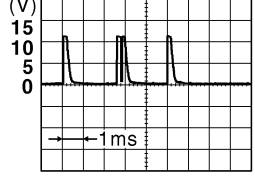
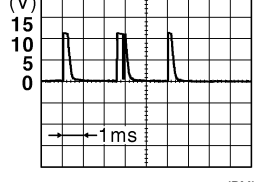
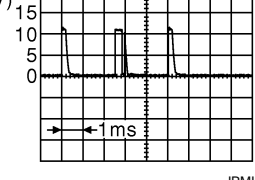
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
34 (GR)	Ground	Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <p style="text-align: right;">JPMIA0165GB</p> <p style="text-align: center;">1.4 V</p>
					Lighting switch AUTO (Wiper intermittent dial 4)	 <p style="text-align: right;">JPMIA0167GB</p> <p style="text-align: center;">1.3 V</p>
					Lighting switch 1ST (Wiper intermittent dial 4)	 <p style="text-align: right;">JPMIA0166GB</p> <p style="text-align: center;">1.3 V</p>
					Rear wiper INT (Wiper intermittent dial 4)	 <p style="text-align: right;">JPMIA0167GB</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;">JPMIA0196GB</p> <p style="text-align: center;">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			
35 (L)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 <small>JPMIA0165GB</small> 1.4 V
					Lighting switch HI (Wiper intermittent dial 4)	 <small>JPMIA0166GB</small> 1.3 V
					Lighting switch 2ND (Wiper intermittent dial 4)	 <small>JPMIA0167GB</small> 1.3 V
					Rear wiper switch ON	 <small>JPMIA0169GB</small> 1.3 V
					Any of the condition below with all switch OFF	 <small>JPMIA0196GB</small> 1.3 V
36 (V)	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder	Battery voltage	
				Remove mechanical key from ignition key cylinder	0 V	
37 (R)	Ground	ACC power supply	Input	Ignition switch OFF	0 V	
				Ignition switch ACC or ON	Battery voltage	
38 (W)	Ground	Ignition power supply	Input	Ignition switch OFF or ACC	0 V	
				Ignition switch ON	Battery voltage	

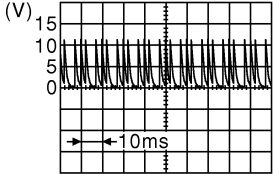
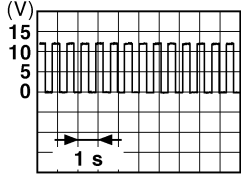
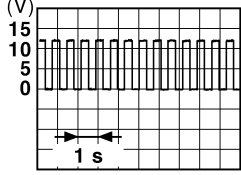
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
39 (P)	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
40 (LG)	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
41 (V)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
42 (V)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time	0 V
				Any other time after passing the interior room lamp battery saver operation time	Battery voltage
43 (L)	Ground	Rear wiper motor	Output	Rear wiper switch OFF	0 V
				Rear wiper switch ON	Battery voltage
44 (L/W)	Ground	Rear wiper auto stop	Input	Rear wiper stop position	0 V
				Ignition switch ON Any position other than rear wiper stop position	 <p style="text-align: right; font-size: small;">JPMIA0197GB</p>
45 (GR)	Ground	Back door lock actuator	Output	Back door opener switch Pressed	Battery voltage (300ms)
				Not pressed	0 V
47 (G/Y)	Ground	Turn signal LH	Output	Turn signal switch OFF	0 V
				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>
48 (G/B)	Ground	Turn signal RH	Output	Turn signal switch OFF	0 V
				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>
49 (Y)	Ground	Rear fog lamp	Output	Lighting switch 1ST and front fog lamp switch ON Rear fog lamp switch OFF	0 V
				Rear fog lamp switch ON	Battery voltage
51 (R/W)*1 (R)*2	Ground	Stop lamp switch	Input	Depress the brake pedal	Battery voltage
				Release the brake pedal	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			
52 (R)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0 V
53 (L)	Ground	Power window power supply	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
54 (O)	Ground	Door unlock (All)	Output	Door lock/unlock switch	Pressed to the unlock side	Battery voltage
					Pressed to the lock side	0 V
55 (B)	Ground	Ground	—	Ignition switch ON		0 V
56 (Y) ^{*1} (SB) ^{*2}	Ground	Door lock (All)	Output	Door lock/unlock switch	Pressed to the unlock side	0 V
					Pressed to the lock side	Battery voltage
57 (Y)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
58 (P)	Ground	Power window power supply	Output	Ignition switch OFF		Battery voltage
59 (BR)	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		Battery voltage
60 (GR)	Ground	Driver door unlock	Output	Door lock/unlock switch	Pressed to the unlock side	Battery voltage
					Pressed to the lock side	0 V

*1: With Intelligent Key system

*2: Without Intelligent Key system

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BCM (BODY CONTROL MODULE)

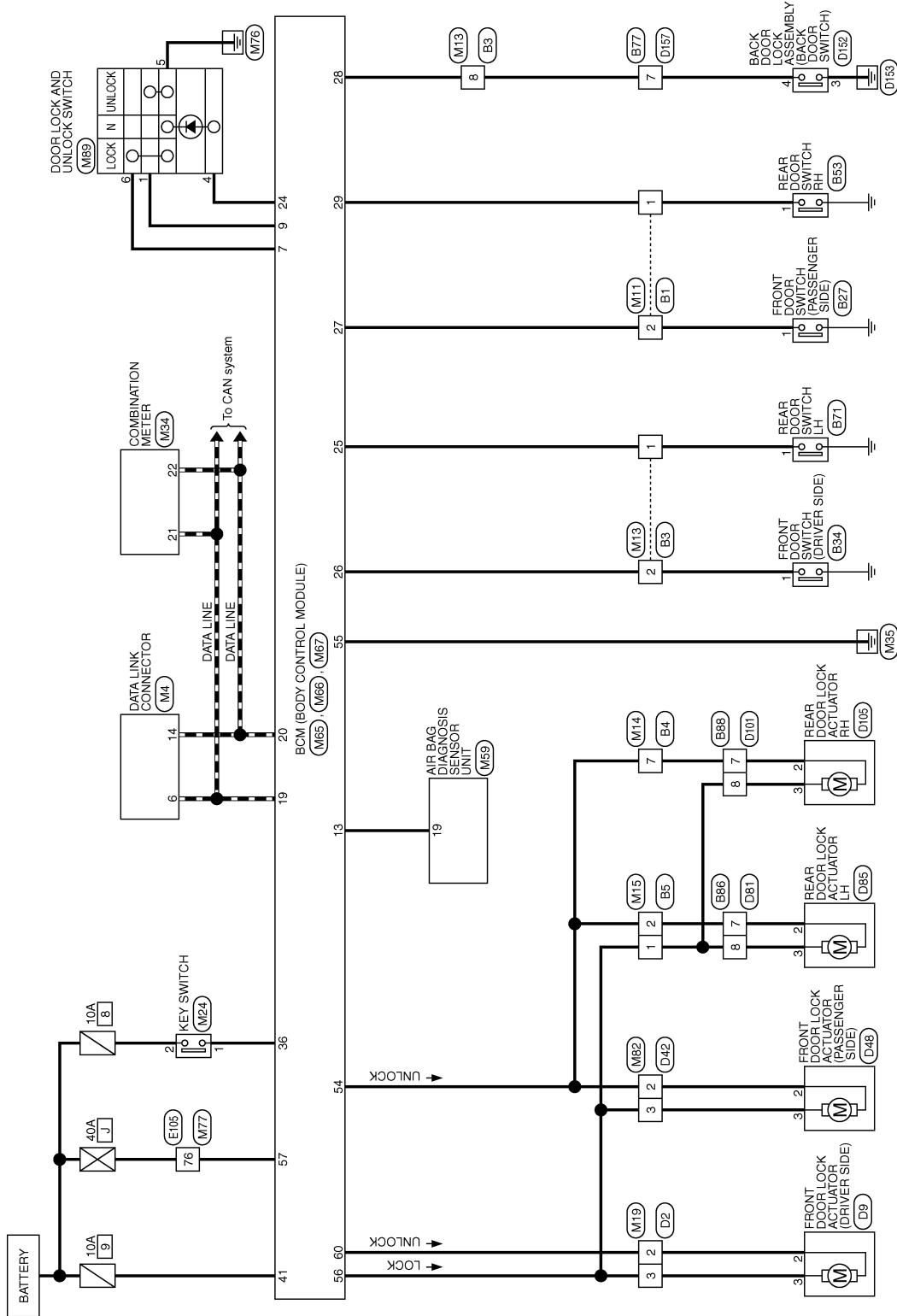
[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - POWER DOOR LOCK CONTROL SYSTEM -

INFOID:000000001184267

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)



2006/12/06

JCKWA0251GE

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	TH24MW



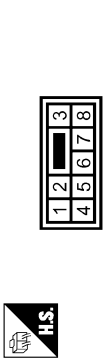
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	BR	- [LHD models]

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



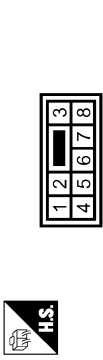
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	R/W	- [LHD models]
8	G	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS38MW-CS



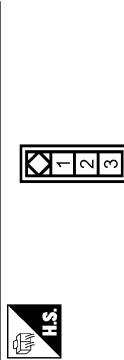
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	NS58MW-CS



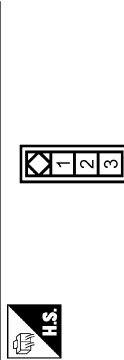
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	O	-

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A08FW



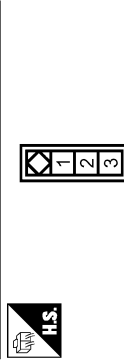
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-

Connector No.	B4
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A08FW



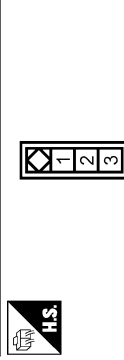
Terminal No.	Color of Wire	Signal Name [Specification]
1	R/W	-

Connector No.	B33
Connector Name	REAR DOOR SWITCH RH
Connector Type	A08FW



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

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	A08FW



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

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JCKWA0252GE

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	TH08FW



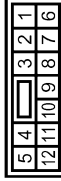
Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Connector No.	B88
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	7	Color of Wire	G	Signal Name [Specification]	

Terminal No.	7	Color of Wire	O	Signal Name [Specification]	
	8	SB			

Terminal No.	7	Color of Wire	O	Signal Name [Specification]	
	8	SB			

Terminal No.	2	Color of Wire	O	Signal Name [Specification]	
	3	SB			

Connector No.	D9
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA04FB-FHA2



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



Connector No.	D48
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2



Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	2	Color of Wire	O	Signal Name [Specification]	
	3	SB			

Terminal No.	2	Color of Wire	O	Signal Name [Specification]	
	3	SB			

Terminal No.	2	Color of Wire	O	Signal Name [Specification]	
	3	SB			

Terminal No.	7	Color of Wire	O	Signal Name [Specification]	
	8	SB			

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA04FB-FHA2



Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Connector No.	D105
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA04FB-FHA2



Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	GINCH 49309 EV 4M9



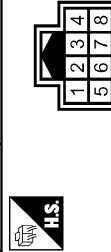
Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
3	SB	-

Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	SB	-

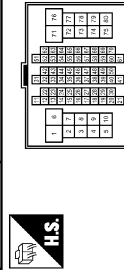
Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
3	SB	-

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

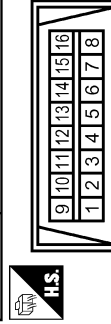
Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



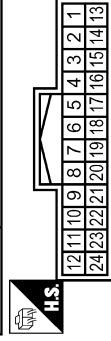
Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS1P-TM4



Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	-

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

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

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

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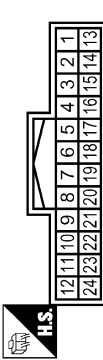
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

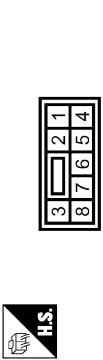
POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



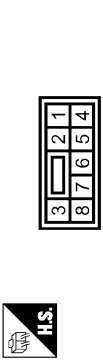
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2	R	
3	G	

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS30FW-CS



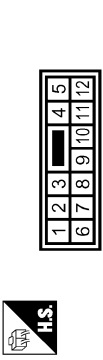
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Type	NS30FW-CS



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

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



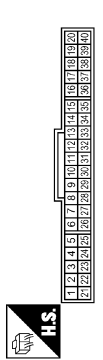
Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	
3	SB	

Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	A02RW



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

Connector No.	M24
Connector Name	COMBINATION METER
Connector Type	SAB0FW



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

Connector No.	M29
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TK28FY-EX-SC



Terminal No.	Color of Wire	Signal Name [Specification]
19	R	UNLOCK

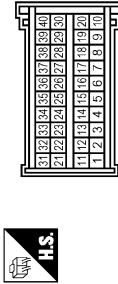
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

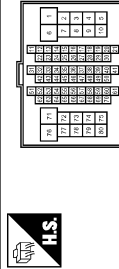
POWER DOOR LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAB40FE



Terminal No.	Color of Wire	Signal Name [Specification]
7	P	LOCK/UNLOCK SW (LOCK)
9	BR	LOCK/UNLOCK SW (UNLOCK)
13	R	SHOCK DETECT SIG
19	L	CAN-H
20	P	CAN-L
24	GR	DOOR LOCK STATUS IND
25	GR	DOOR SW (RL)
26	R	DOOR SW (DR)
27	BR	DOOR SW (AS)
28	G	DOOR SW (BACK)
29	LG	DOOR SW (FR)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH09FW-MS16-TM4



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

36	V	KEY SW
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Connector No.	M86
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCJ 211PC122SI017



Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BATT(FUSE)

Connector No.	M89
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	7708197674



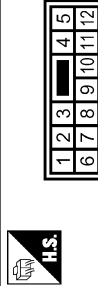
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
4	GR	-
5	B	-
6	P	-

Connector No.	M87
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCJ 211PC083S0017



Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER)
55	B	GND(POWER)
56	SB	DOOR LOCK OUTPUT (ALL [Without Intelligent Key])
57	Y	BAT(F/L)
60	GR	UNLOCK (DR)

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	MS12MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
2	O	-
3	SB	- [Without Intelligent Key]

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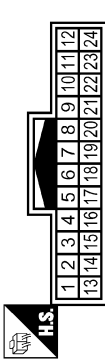
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

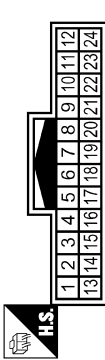
REMOTE KEYLESS ENTRY SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



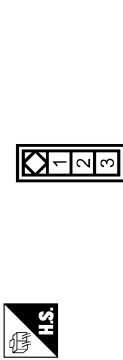
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	BR	- [LHD models]
2	R/W	- [RHD models]

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



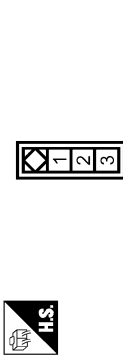
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	R/W	- [LHD models]
2	BR	- [RHD models]
8	G	-

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



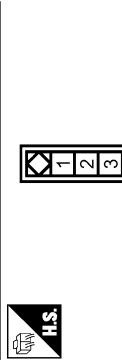
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	BR	-
3	BR	-

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



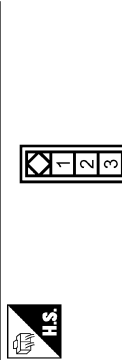
Terminal No.	Color of Wire	Signal Name [Specification]
1	R/W	-
2	R/W	-
3	R/W	-

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



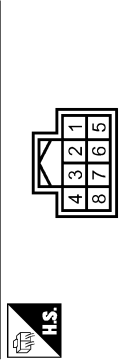
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	BR	-
3	BR	-

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



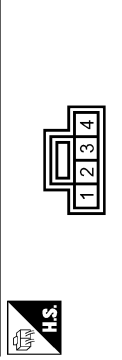
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	R/W	-
3	BR	-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	-

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CINCH 49309 E/V 4M9



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

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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

REMOTE KEYLESS ENTRY SYSTEM

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH03MW



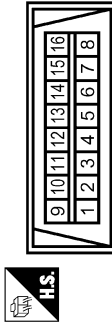
Terminal No.	Color of Wire	Signal Name [Specification]
7	G	—

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-NS1E-TM4



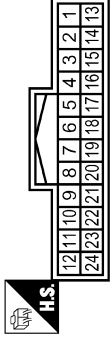
Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	—

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



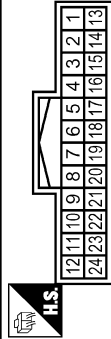
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	—
14	P	—

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	—
2	BR	— [LHD models]
2	R	— [RHD models]

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



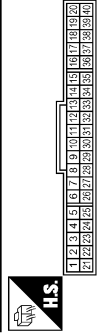
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	—
2	R	— [LHD models]
2	BR	— [RHD models]
8	G	—

Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	A02MW



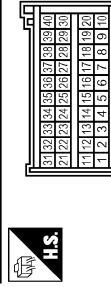
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	—
2	Y	—

Connector No.	M24
Connector Name	COMBINATION METER
Connector Type	S4B0FW



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	A4B40FB



Terminal No.	Color of Wire	Signal Name [Specification]
8	LG	HAZARD SW
19	L	CAN-H
20	P	CAN-L
25	GR	DOOR SW (RL)
26	R	DOOR SW (DR)
27	BR	DOOR SW (AS)
28	G	DOOR SW (BACK)
29	LG	DOOR SW (RR)
36	V	KEY SW
37	R	ACC SW

JCKWA0293GE

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

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REMOTE KEYLESS ENTRY SYSTEM

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 211PC122S1017



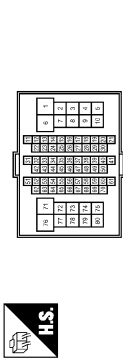
Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BAT(FUSE)
42	V	ROOM LAMP POWER SUPPLY
45	GR	BACK DOOR OPENER
47	G/Y	FLASHER OUTPUT (LEFT)
48	G/B	FLASHER OUTPUT (RIGHT)
52	R	ROOM LAMP OUTPUT

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 211PC08330017



Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER)
55	B	GND(POWER)
56	SB	DOOR LOCK OUTPUT (ALL) (Without Intelligent Key)
57	Y	BAT(L/L)
59	BR	SUPER LOCK SET OUTPUT
60	GR	UNLOCK (DR)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-NS16-TM4



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

JCKWA0294GE

BCM (BODY CONTROL MODULE)

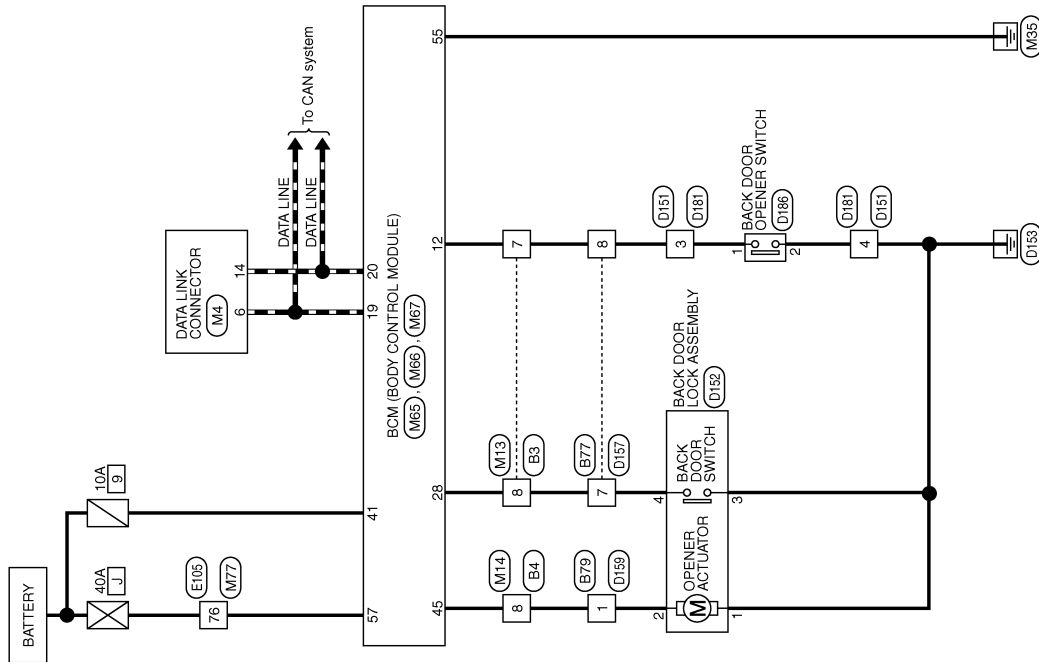
< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

INFOID:000000001609215

BACK DOOR OPENER SYSTEM



JCKWA0295GE

2006/12/08



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	TH24MW


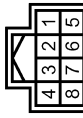
Terminal No.	Color of Wire	Signal Name [Specification]
7	P	
8	G	

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	
8	P	

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC



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

Connector No.	D1E1
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
3	P	
4	B	

Connector No.	D1E2
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CINCH 49309 EV 4MG



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

Connector No.	D1E7
Connector Name	WIRE TO WIRE
Connector Type	TH83MW

Terminal No.	Color of Wire	Signal Name [Specification]
7	G	
8	P	

Connector No.	D1E9
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

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

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JCKWA0296GE

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY & SUPER LOCK]

< ECU DIAGNOSIS >

BACK DOOR OPENER SYSTEM

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



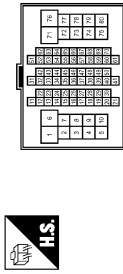
Terminal No.	Color of Wire	Signal Name [Specification]
3	P	—
4	B	—

Connector No.	D188
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	RK02MGY



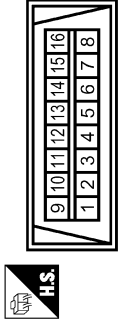
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	—
2	B	—

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



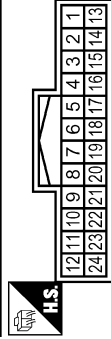
Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	—

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



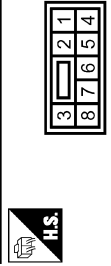
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	—
14	P	—

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



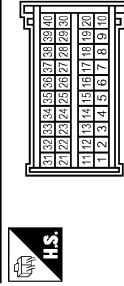
Terminal No.	Color of Wire	Signal Name [Specification]
7	P	—
8	G	—

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



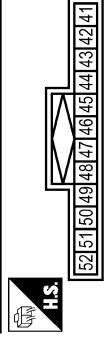
Terminal No.	Color of Wire	Signal Name [Specification]
8	GR	—

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	JA840FB



Terminal No.	Color of Wire	Signal Name [Specification]
12	P	TRUNK/BACK DOOR OPEN SW
19	L	GAN-H
20	P	GAN-L
28	G	DOOR SW (BACK)

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FC121PC12S1017



Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BAT(FUSE)
45	GR	BACK DOOR OPENER

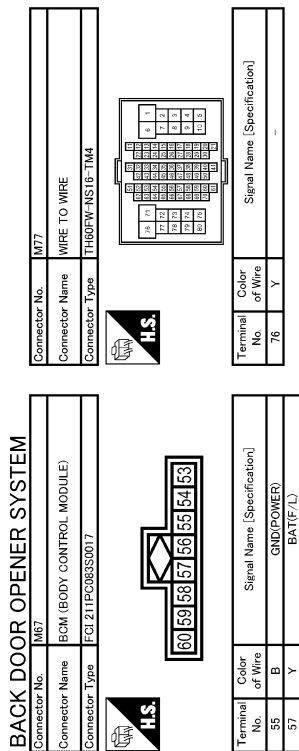
JCKWA0297GE

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

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DLK

Fail Safe

Fail-safe index

BCM performs fail-safe control when any DTC listed below is detected.

JCKWA0298GE

INFOID:000000001559424

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Display contents of CONSULT	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 CONTROL

BCM detects a rear wiper stopping position according to a rear wiper auto stop signal.

When a rear wiper auto stop signal is in the condition listed below, BCM stops power supply to rear wiper after rear wiper is activated for five seconds.

Ignition switch	Rear wiper switch	Rear wiper auto stop signal
ON	OFF	The rear wiper auto stop signal (stop position) cannot be input for 5 seconds.
	ON	The rear wiper auto stop signal does not change for 5 seconds.

NOTE:

The above operation is repeated when operating the rear wiper switch one minute after the stop of the rear wiper caused by Fail-safe.

TURN SIGNAL LAMP CONTROL

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.

LIGHT & RAIN SENSOR MALFUNCTION DETECTION FUNCTION

BCM controls the following items when LIGHT & RAIN sensor has a malfunction.

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.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

DTC Inspection Priority Chart

INFOID:000000001559425

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

DTC Index

INFOID:000000001559426

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.

CONSULT display	TIME		Fail-safe	Refer to
No DTC is detected. further testing may be required.	—	—	—	—
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-45 • Without Intelligent Key system SEC-194
B2191: DIFFERENCE OF KEY	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-47 • Without Intelligent Key system SEC-196
B2192: ID DISCORD BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-48 • Without Intelligent Key system SEC-197
B2193: CHAIN OF BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-50 • Without Intelligent Key system SEC-199
B2194: DISCORD BCM-I-KEY	CRNT	PAST	×	SEC-51
B2195: ANTI SCANNING	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-52 • Without Intelligent Key system SEC-200
B2196: DONGLE NG	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-53 • Without Intelligent Key system SEC-201

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

SYMPTOM DIAGNOSIS

DOOR LOCK FUNCTION SYMPTOMS

DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH : Symptom Table

INFOID:000000001184273

DOOR LOCK AND UNLOCK SWITCH OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-549, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Doors are not locked by keyfob.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page	
Door lock and unlock function does not operate with door lock and unlock switch.	1. Check BCM power supply and ground circuit.	DLK-581	
	2. Check door lock and unlock switch.	DLK-582	
	3. Check intermittent incident.	GI-39	
Door lock function does not operate with door lock and unlock switch.	1. Check door lock and unlock switch	DLK-582	
	2. Check door switch.	Passenger side	DLK-587
		Rear LH	DLK-589
		Rear RH	DLK-590
		Back door	DLK-592
3. Check intermittent incident.	GI-39		
Specific door lock actuator does not operate.	1. Check door lock actuator.	Driver side	DLK-596
		Passenger side	DLK-597
		Rear LH	DLK-599
		Rear RH	DLK-600
	2. Check intermittent incident.	GI-39	
Door lock and unlock switch indicator does not illuminate.	1. Check door lock and unlock switch indicator.	DLK-584	
	2. Check Intermittent Incident.	GI-39	

KEYFOB

KEYFOB : Symptom Table

INFOID:000000001184274

KEYFOB OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-549, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of Vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Mechanical key is removed from ignition key cylinder.
- Door lock and unlock operation is normal.

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
All of the keyfob operations do not operate.	1. Check keyfob battery inspection.	DLK-609
	2. Check key switch	DLK-594
	3. Check intermittent incident.	GI-39
Anti-hijack operation does not operate.	1. Check "SECURITY DOOR LOCK SET" setting in "WORK SUPPORT".	DLK-575
	2. Check intermittent incident.	GI-39

AUTO DOOR LOCK

AUTO DOOR LOCK : Symptom Table

INFOID:000000001184275

AUTO DOOR LOCK OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-549, "Work Flow"](#).
- To understand the operation when it does work, refer to [DLK-559, "AUTO DOOR LOCK : System Description"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- "AUTO LOCK SET" is ON when setting on CONSULT-III.
- Door lock and unlock function is normal.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page	
Auto door lock operation does not operate.	1. Check "AUTO LOCK SET" setting in "WORK SUPPORT".	DLK-577	
	2. Check door switch.	Driver side	DLK-586
		Passenger side	DLK-587
		Rear LH	DLK-589
		Rear RH	DLK-590
		Back door	DLK-592
	3. Check key switch.	DLK-594	
4. Check intermittent incident.	GI-39		

DLK

VEHICLE SPEED SENSING AUTO DOOR LOCK

VEHICLE SPEED SENSING AUTO DOOR LOCK : Symptom Table

INFOID:000000001184276

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-549, "Work Flow"](#).
- To understand the operation when it does work, refer to [DLK-561, "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.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

- Door lock and unlock switch operation is normal.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Vehicle speed sensing auto door lock operation does not operate.	1. Check vehicle speed signal.	DLK-608
	2. Check intermittent incident.	GI-39

BACK DOOR OPEN FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR OPEN FUNCTION SYMPTOMS

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : Symptom Table

INFOID:000000001184277

BACK DOOR OPENER FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-549, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Door lock function is normal.
- Vehicle speed is less than 5 km/h (3 MPH).
- All doors are unlocked.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Back door opener function does not operate by back door opener switch.	1. Check back door opener switch.	DLK-604
	2. Check vehicle speed signal.	DLK-608
	3. Check back door opener actuator.	DLK-602
	4. Check intermittent incident.	GI-39

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WARNING FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

WARNING FUNCTION SYMPTOMS

BACK DOOR

BACK DOOR : Symptom Table

INFOID:000000001184278

BACK DOOR OPEN WARNING OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-549. "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Door lock function and back door opener function are normal.

Symptom	Diagnosis/service procedure	Reference page
Back door open warning does not operate properly.	1. Check back door opener switch.	DLK-604
	2. Check intermittent incident.	GI-39

HAZARD REMINDER FUNCTION

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

HAZARD REMINDER FUNCTION

HAZARD WARNING LAMP

HAZARD WARNING LAMP : Symptom Table

INFOID:000000001184279

HAZARD REMINDER OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-549, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of Vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Door lock function is normal.
- “HAZARD LAMP SET” is active when setting on CONSULT-III.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Hazard reminder operation does not operate properly.	1. Check setting of “HAZARD LAMP SET” with CONSULT-III.	DLK-577
	2. Check intermittent incident.	GI-39

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

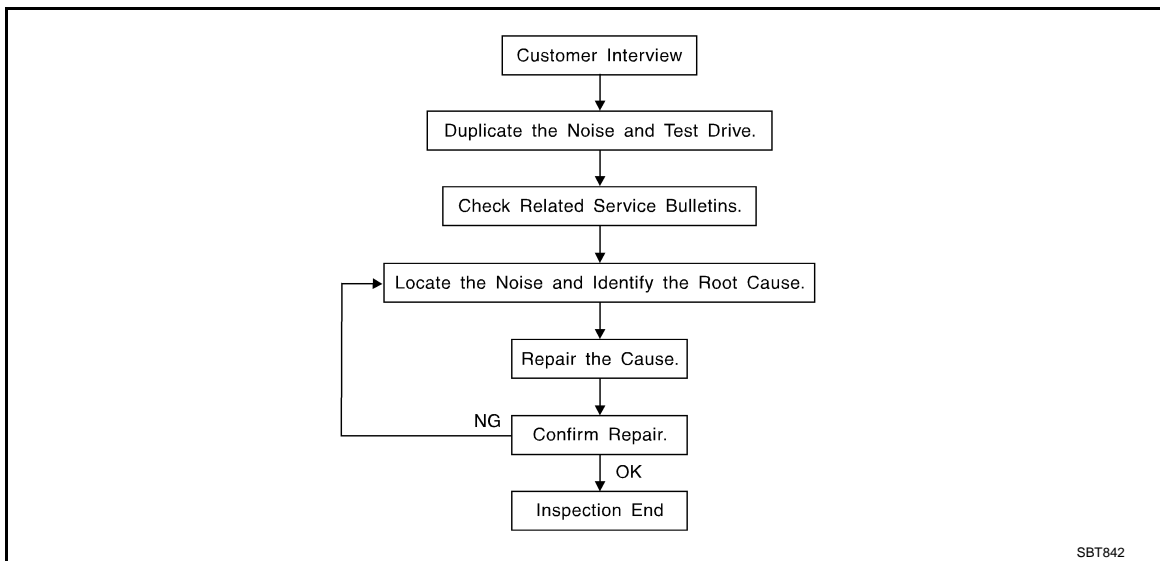
< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY & SUPER LOCK]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000001184280



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-215, "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-213. "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 >

[WITHOUT I-KEY & SUPER LOCK]

Inspection Procedure

INFOID:000000001184281

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:000000001184282



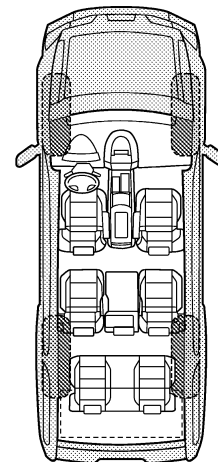
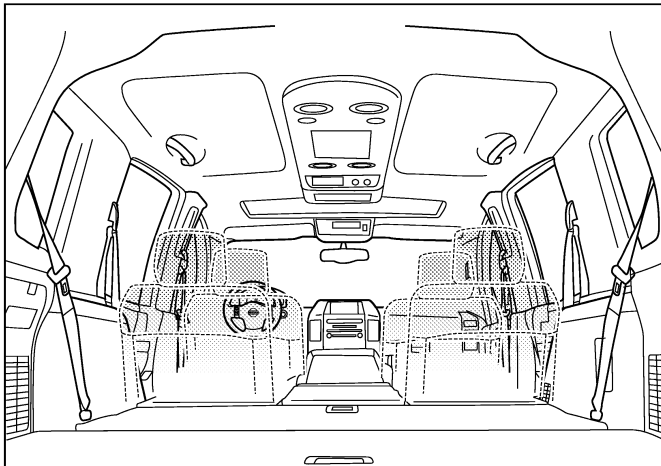
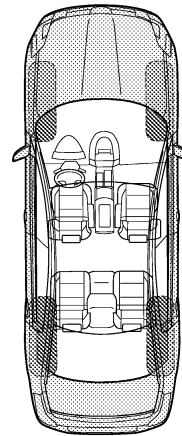
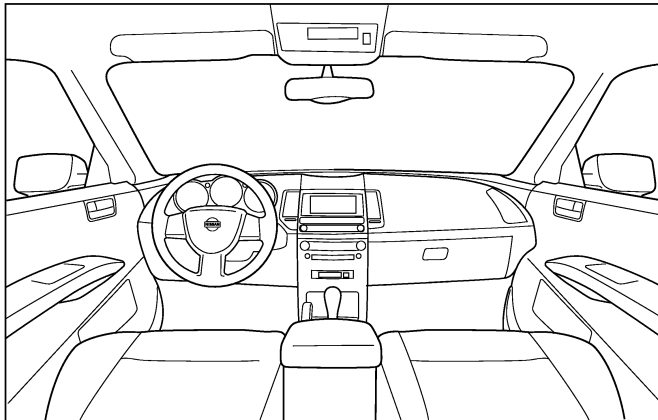
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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

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PRECAUTION

PRECAUTIONS

Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000001184283

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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

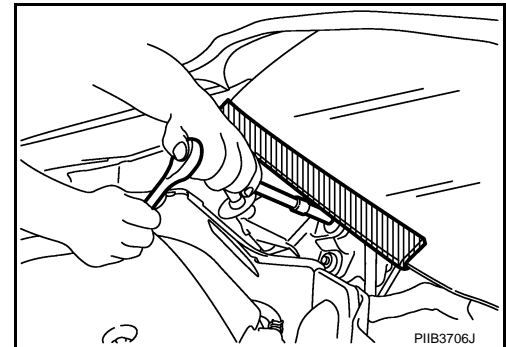
WARNING:

- 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 section.
- 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.

Procedure without Cowl Top Cover

INFOID:000000001184284

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



Steering Wheel Rotation after Battery Disconnect

INFOID:000000001184285

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, 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. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)

PRECAUTIONS

< PRECAUTION >

[WITHOUT I-KEY & SUPER LOCK]

3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned. A
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.) B
6. Perform self-diagnosis check of all control units using CONSULT-III. C

Work

INFOID:000000001184286

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operational. D
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it. E

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PREPARATION

< PREPARATION >

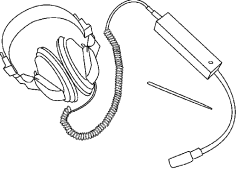
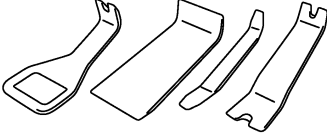

[WITHOUT I-KEY & SUPER LOCK]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000001184287

Tool name	Description
<p>Engine ear</p>  <p>SIA0995E</p>	<p>Locating the noise</p>
<p>Remover tool</p>  <p>PIIB7923J</p>	<p>Remove the clips, pawls, and metal clips</p>
<p>Power tool</p>  <p>PIIB1407E</p>	

PRE-INSPECTION FOR DIAGNOSTIC

< ON-VEHICLE MAINTENANCE >

[WITHOUT I-KEY & SUPER LOCK]

ON-VEHICLE MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

INFOID:000000001184288

BASIC INSPECTION

1. CHECK DOOR LOCK AND UNLOCK SWITCH OPERATION

Check door lock and unlock operation by operating door lock and unlock switch.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-642, "DOOR LOCK AND UNLOCK SWITCH : Symptom Table"](#).

2. CHECK KEYFOB OPERATION

Check door lock and unlock operation by operating lock and unlock button of keyfob.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to [DLK-642, "KEYFOB : Symptom Table"](#).

3. CHECK AUTO DOOR LOCK OPERATION

Check auto door lock operation. Refer to [DLK-559, "AUTO DOOR LOCK : System Description"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Refer to [DLK-643, "AUTO DOOR LOCK : Symptom Table"](#).

4. CHECK VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION

Check vehicle speed sensing auto door lock. Refer to [DLK-561, "VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description"](#)

Is the inspection result normal?

YES >> GO TO 5.

NO >> Refer to [DLK-643, "VEHICLE SPEED SENSING AUTO DOOR LOCK : Symptom Table"](#).

5. CHECK BACK DOOR OPENER SWITCH OPERATION

Check back door opener operation by operating back door opener switch.

Is the inspection result normal?

YES >> GO TO 6.

NO >> Refer to [DLK-645, "BACK DOOR OPENER SWITCH : Symptom Table"](#).

6. CHECK HAZARD REMINDER FUNCTION

Check hazard reminder function by operating the following switches.

- Lock and unlock button of keyfob.

Is the inspection result normal?

YES >> GO TO 7.

NO >> Refer to [DLK-647, "HAZARD WARNING LAMP : Symptom Table"](#).

7. CHECK WARNING FUNCTION

Check that warning function operate properly. Refer to [DLK-569, "System Description"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Refer to [DLK-646, "BACK DOOR : Symptom Table"](#).

8. CHECK OUT

CHECK OUT.

>> INSPECTION END

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HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

ON-VEHICLE REPAIR

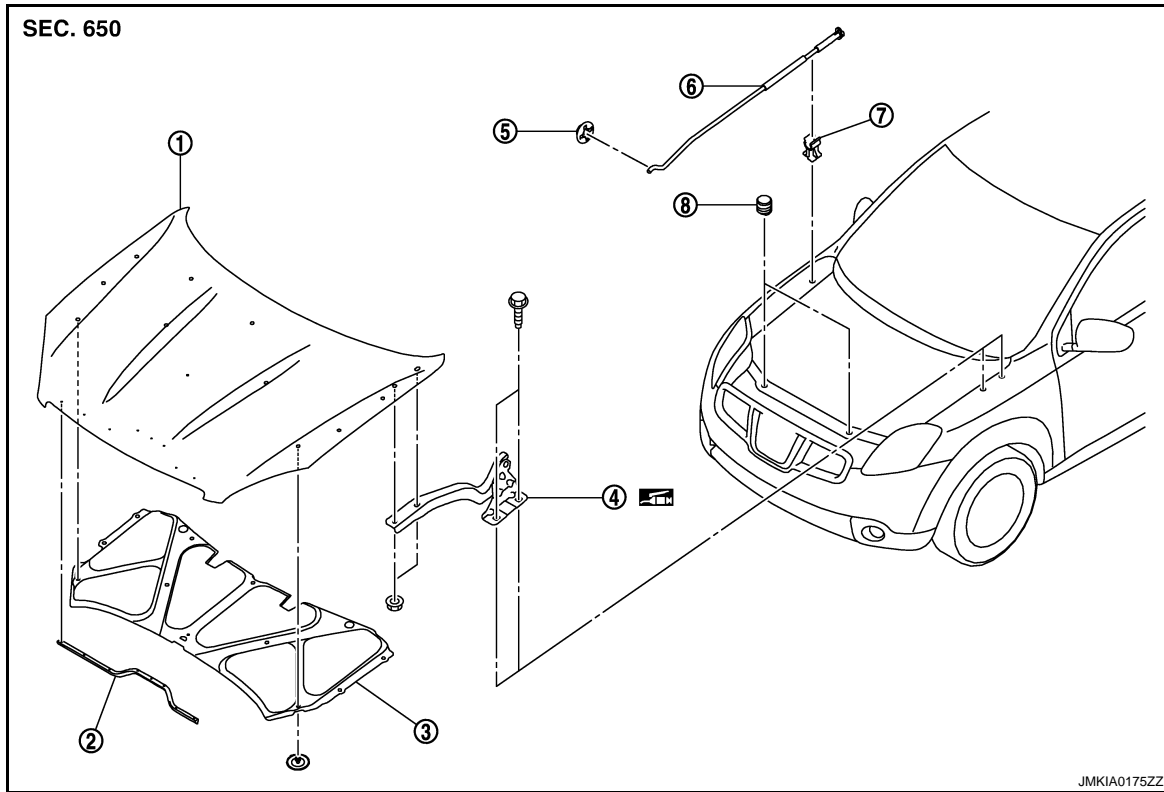
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000001538494

REMOVAL



- | | | |
|------------------|------------------------|---------------------|
| 1. Hood assembly | 2. Hood sealing rubber | 3. Hood insulator |
| 4. Hood hinge | 5. Grommet | 6. Hood support rod |
| 7. Clamp | 8. Hood bumper rubber | |

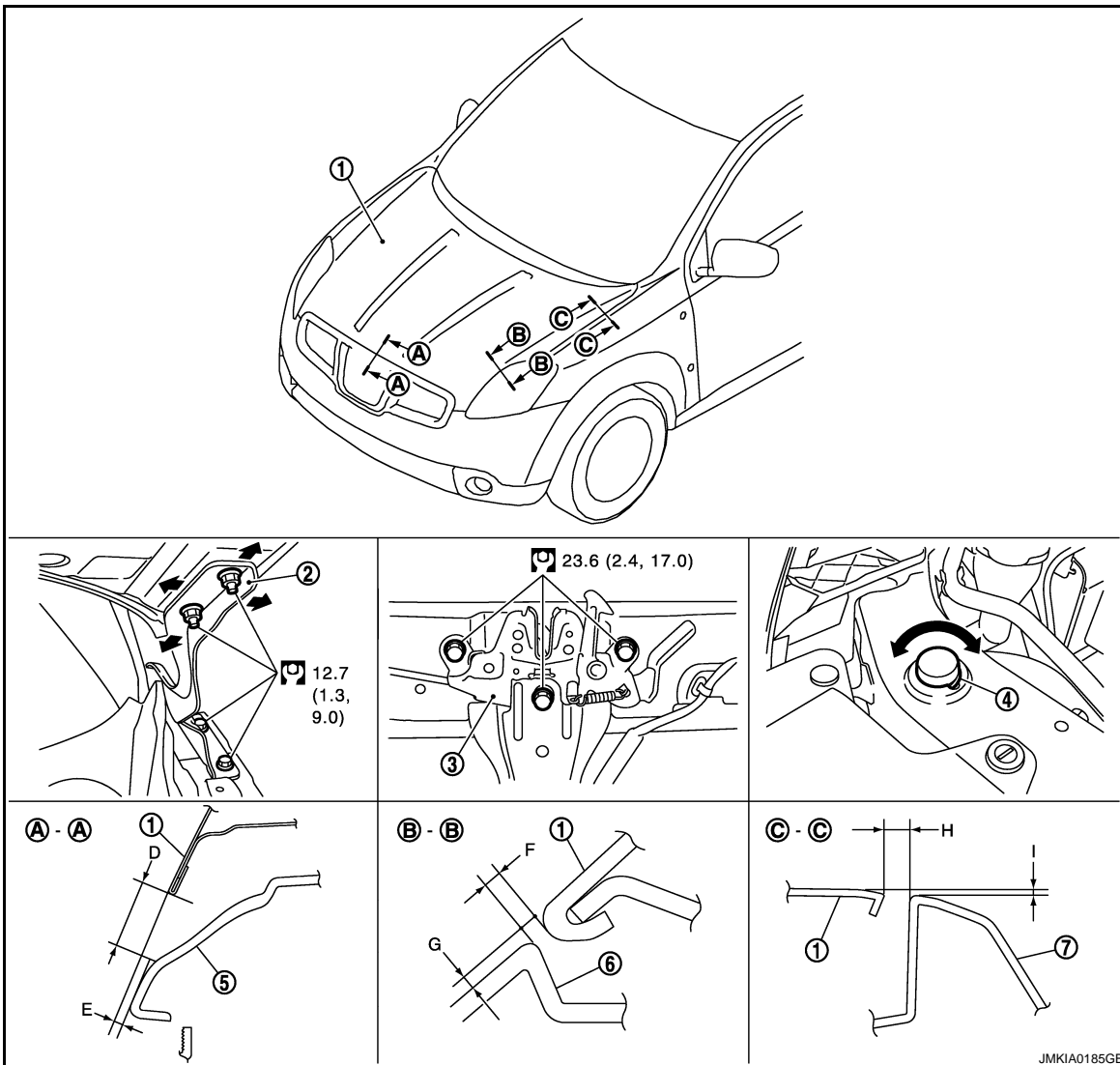
Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]



- | | | |
|-----------------------|-----------------|---------------------------|
| 1. Hood assembly | 2. Hood hinge | 3. Hood lock assembly |
| 4. Hood bumper rubber | 5. Front grille | 6. Front combination lamp |
| 7. Front fender | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:000000001538495

REMOVAL

- 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.
- 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
 - Hood sealing rubber

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

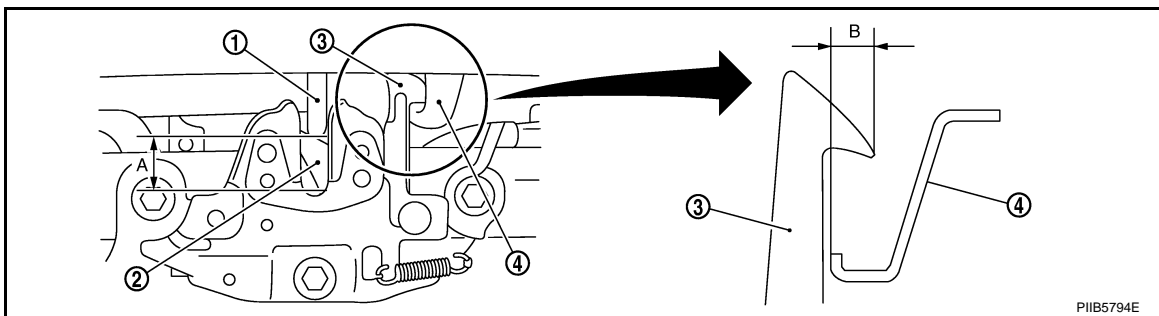
- Perform work with 2 workers, because of its heavy weight.
- Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installing, perform hood fitting adjustment. Refer to [DLK-827, "HOOD ASSEMBLY : Adjustment"](#).

HOOD ASSEMBLY : Adjustment

INFOID:000000001538496

Portion			Standard	Right/left Clearance (MAX)
Hood – Front bumper	A – A	D	Clearance 5.2 – 9.2 mm (0.205 – 0.362 in)	2.0 mm (0.079 in)
		E	Surface height - 0.2 – 3.8 mm (- 0.008 – 0.150 in)	2.0 mm (0.079 in)
Hood – Front combination lamp	B – B	F	Clearance 3.7 – 7.7 mm (0.140 – 0.303 in)	2.0 mm (0.079 in)
		G	Surface height - 2.3 – 2.3 mm (- 0.091 – 0.091 in)	2.3 mm (0.091 in)
Hood – Front fender	C – C	H	Clearance 3.9 – 5.9 mm (0.154 – 0.232 in)	1.5 mm (0.059 in)
		I	Surface height - 1.0 – 1.0 mm (- 0.039 – 0.039 in)	1.5 mm (0.059 in)

1. 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.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the hood lock and adjust the height by rotating the bumper rubber until the hood becomes 1 to 1.5 mm (0.039 to 0.059 in) lower than the fender.
4. 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.
5. Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately. 200 mm (7.874 in) height or by pressing the hood lightly [approximately. 29 N (3 kg)].



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)

6. After adjustment tighten lock bolts to the specified torque.

HOOD HINGE

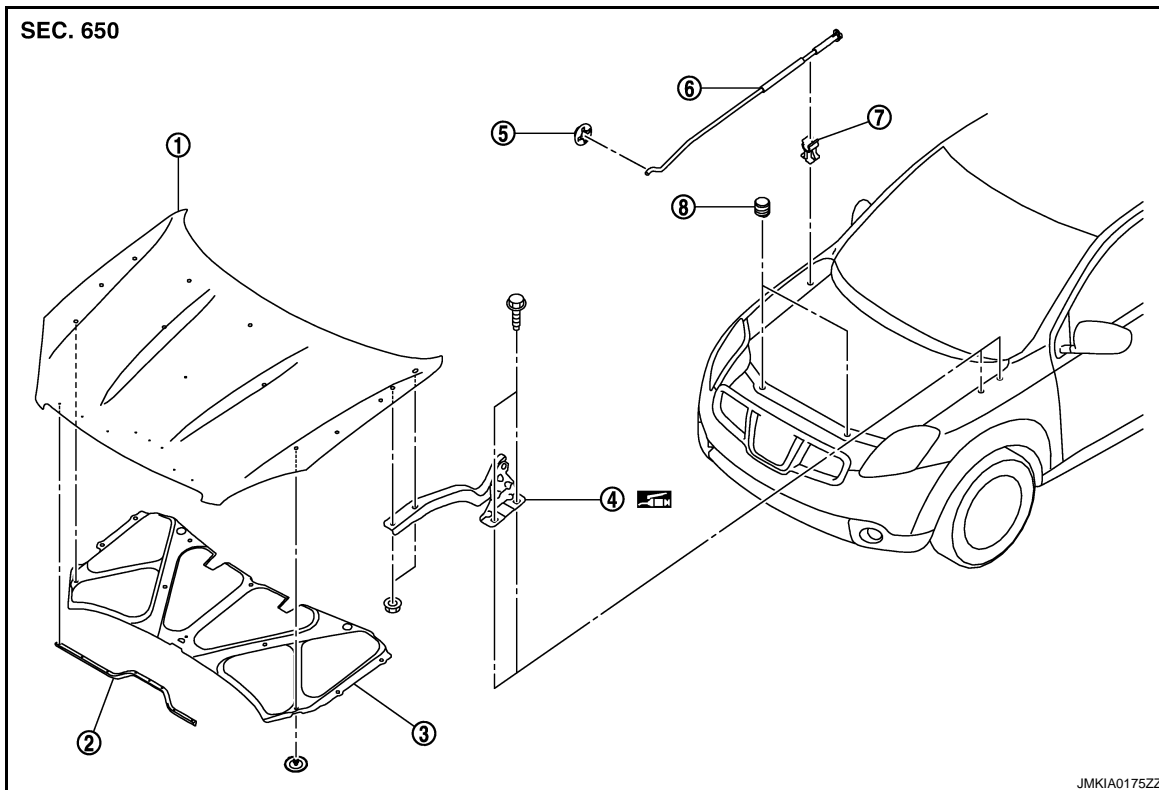
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< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

HOOD HINGE : Exploded View

INFOID:000000001538497



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| 1. Hood assembly | 2. Hood sealing rubber | 3. Hood insulator |
| 4. Hood hinge | 5. Grommet | 6. Hood support rod |
| 7. Clamp | 8. Hood bumper rubber | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD HINGE : Removal and Installation

INFOID:000000001538498

DLK

REMOVAL

1. Remove the hood assembly. Refer to [DLK-826, "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove the front fender. Refer to [DLK-835, "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:

- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.
- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installation, perform hood fitting adjustment. Refer to [DLK-827, "HOOD ASSEMBLY : Adjustment"](#).

HOOD SUPPORT ROD

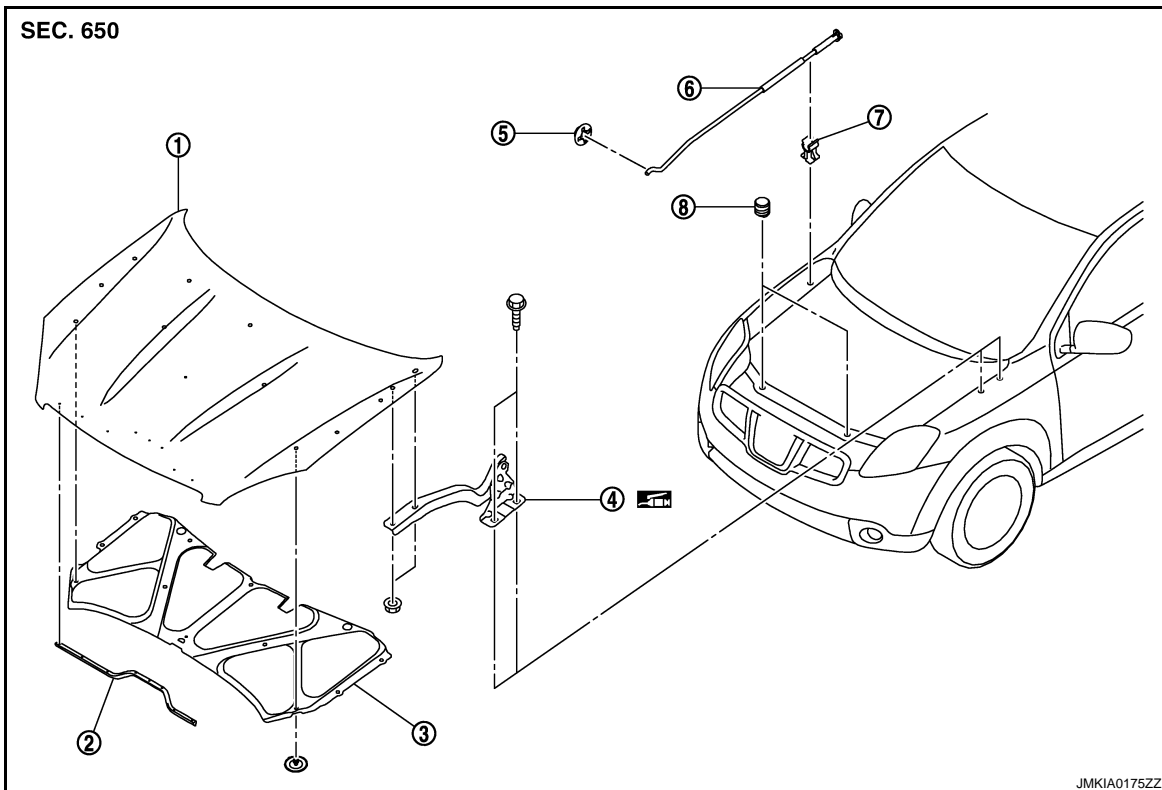
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< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

HOOD SUPPORT ROD : Exploded View

INFOID:000000001538499



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|------------------|------------------------|---------------------|
| 1. Hood assembly | 2. Hood sealing rubber | 3. Hood insulator |
| 4. Hood hinge | 5. Grommet | 6. Hood support rod |
| 7. Clamp | 8. Hood bumper rubber | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000001538500

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

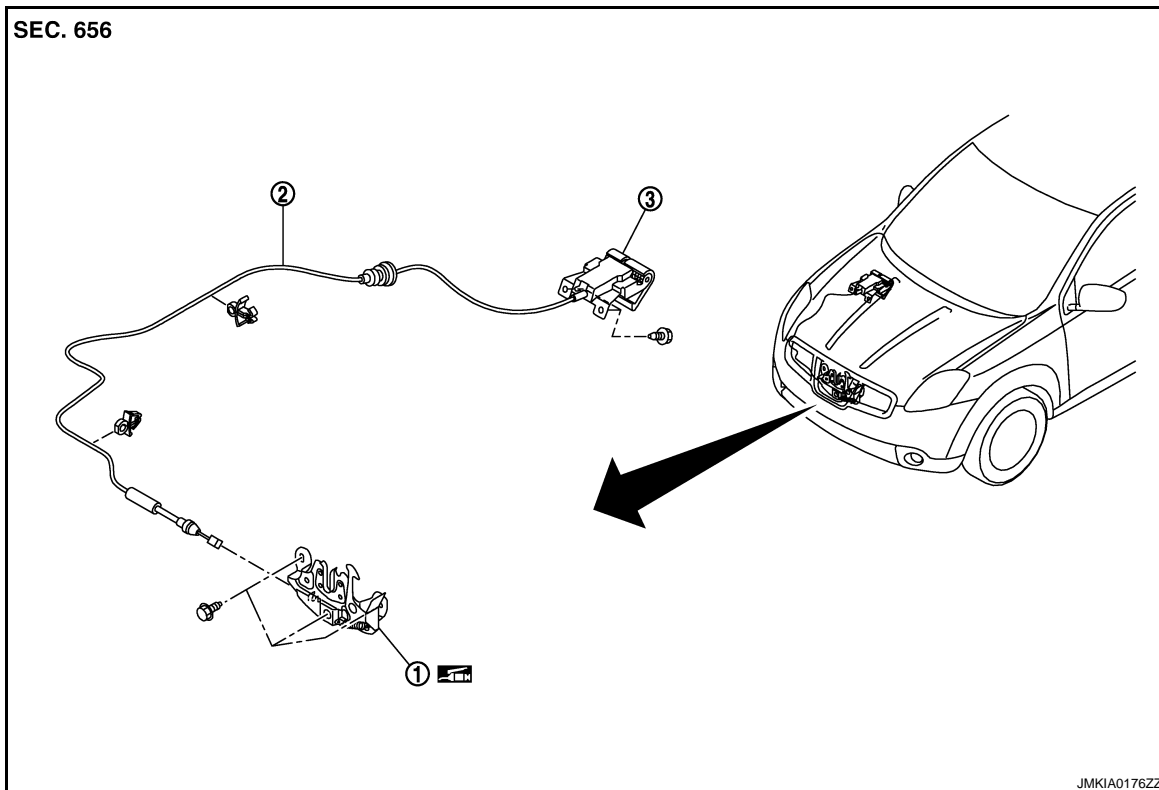
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< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

HOOD LOCK CONTROL : Exploded View

INFOID:000000001538501



1. Hood lock assembly

2. Hood lock control cable

3. Hood lock opener

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD LOCK CONTROL : Removal and Installation

INFOID:000000001538502

REMOVAL

1. Remove the hood lock opener mounting bolts, and then remove the hood lock opener.
2. Remove the front bumper fascia. Refer to [EXT-11, "Removal and Installation"](#).
3. Remove the hood lock mounting bolts, and then remove the hood lock.
4. Remove the fender protector. Refer to [EXT-22, "Removal and Installation"](#).
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 (3.937 in) or more.

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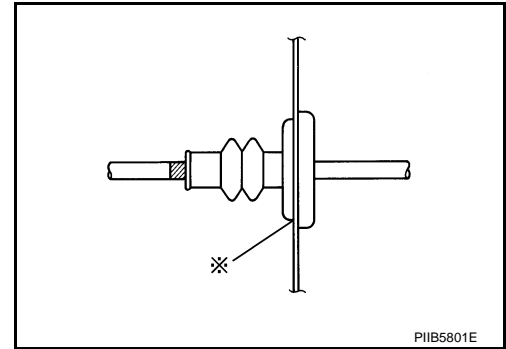
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HOOD

< 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-827, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform the hood lock control inspection. Refer to [DLK-831, "HOOD LOCK CONTROL : Inspection"](#).

HOOD LOCK CONTROL : Inspection

INFOID:000000001538503

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

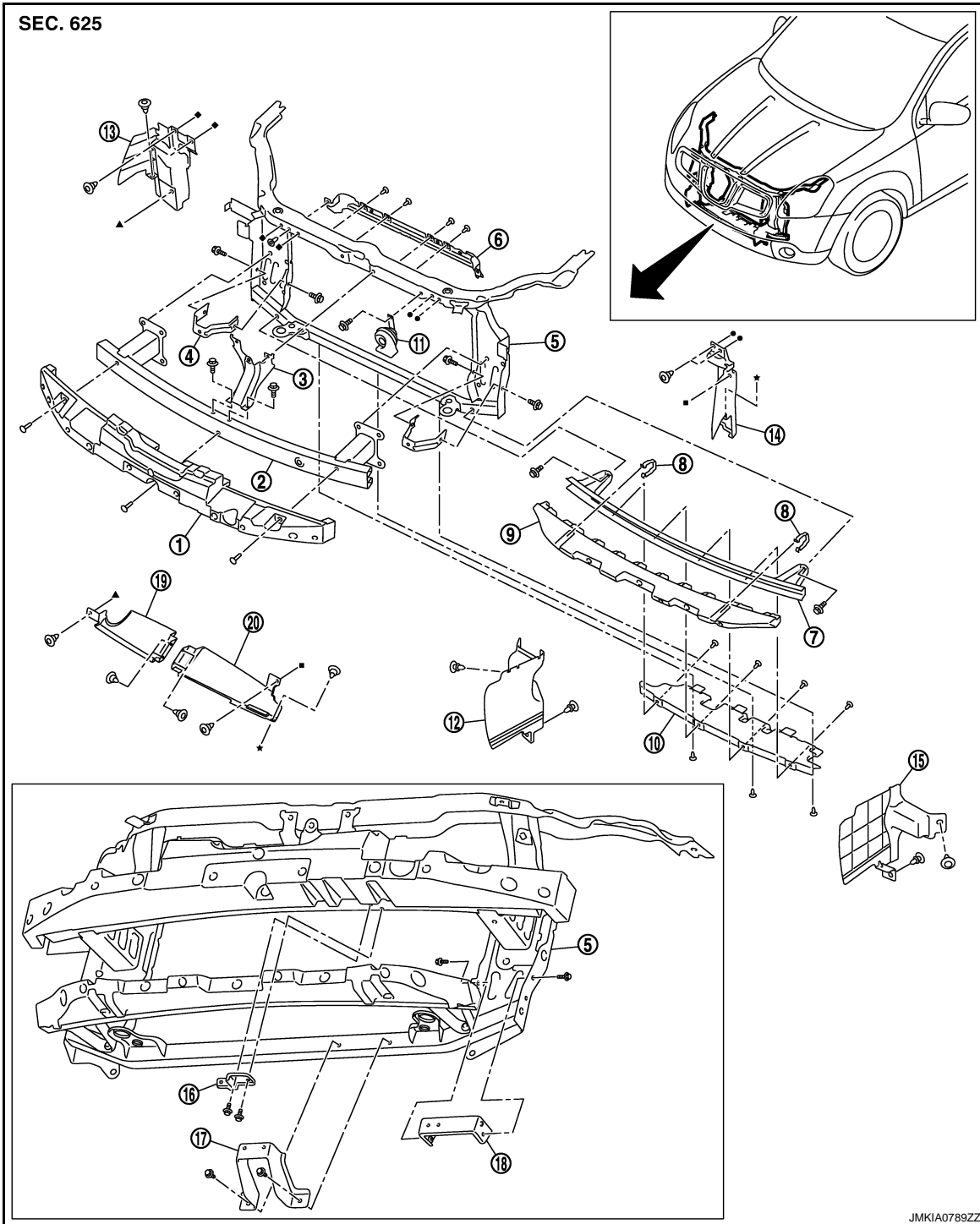
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

RADIATOR CORE SUPPORT

Exploded View

INFOID:000000001538504



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|--|-----------------------------------|-----------------------------------|
| 1. Energy absorber | 2. Bumper reinforcement | 3. Hood lock support stay |
| 4. Intercooler bracket
(with K9K engine models) | 5. Radiator core support assembly | 6. Upper air dam |
| 7. Apron bracket assembly | 8. Fastener | 9. Energy absorber lower |
| 10. Front air guide lower | 11. Horn assembly | 12. Front air guide side lower RH |
| 13. Front air guide side RH | 14. Front air guide side LH | 15. Front air guide side lower LH |

DLK-665

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RADIATOR CORE SUPPORT

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

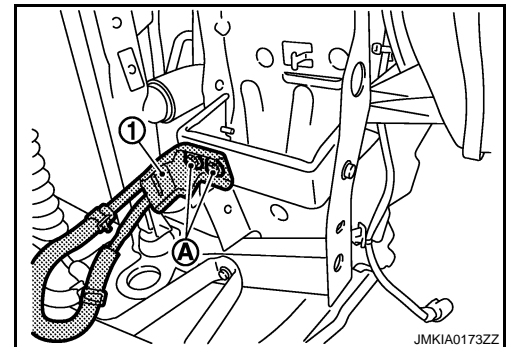
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| 16. Oil cooler bracket upper | 17. Oil cooler bracket lower | 18. Oil cooler bracket side |
| 19. Front air guide RH | 20. Front air guide LH | |

Removal and Installation

INFOID:000000001538505

REMOVAL

1. Remove the front fillet molding. Refer to [EXT-23, "Removal and Installation"](#).
2. Remove the front grille. Refer to [EXT-17, "Removal and Installation"](#).
3. Remove the front bumper fascia and the energy absorber. Refer to [EXT-11, "Removal and Installation"](#).
4. Remove the energy absorber (upper and lower). Refer to [EXT-11, "Removal and Installation"](#).
5. Remove the air cleaner duct. Refer to [EM-28, "Removal and Installation"](#).
6. Remove the all air guides mounting clips, and then remove the all air guides.
7. Remove the front combination lamp (LH/RH). Refer to [EXL-175, "Removal and Installation"](#).
8. Disconnect the hood lock control cable clamp, and then remove the hood lock assembly. Refer to [DLK-830, "HOOD LOCK CONTROL : Removal and Installation"](#).
9. Remove the hood lock stay mounting bolts, and then remove the hood lock stay.
10. Remove the bumper reinforcement. Refer to [EXT-11, "Removal and Installation"](#).
11. Remove the hood switch (with theft warning systems). Refer to [SEC-SEC-166, "Removal and Installation"](#).
12. Remove the crush zone sensor. Refer to [SR-14, "Removal and Installation"](#).
13. Remove the horn. Refer to [HRN-5, "Removal and Installation"](#).
14. Remove the ambient sensor. Refer to [VTL-23, "Removal and Installation"](#).
15. Remove the radiator mounting bracket (LH/RH). Refer to [CO-13, "Removal and Installation"](#).
16. Remove the Intelligent Key warning buzzer (with Intelligent Key systems). Refer to [DLK-275, "Removal and Installation"](#).
17. Remove the charge air cooler assembly (with K9K and M9R engine models). Refer to [EM-267, "Removal and Installation"](#).
18. Remove the A/T fluid cooler assembly and the A/T fluid cooler bracket (with A/T models only). Refer to [TM-563, "FLUID COOLER : Removal and Installation"](#).
19. Remove the A/T fluid cooler pipe bracket (1) mounting bolts (A) (with A/T models only).



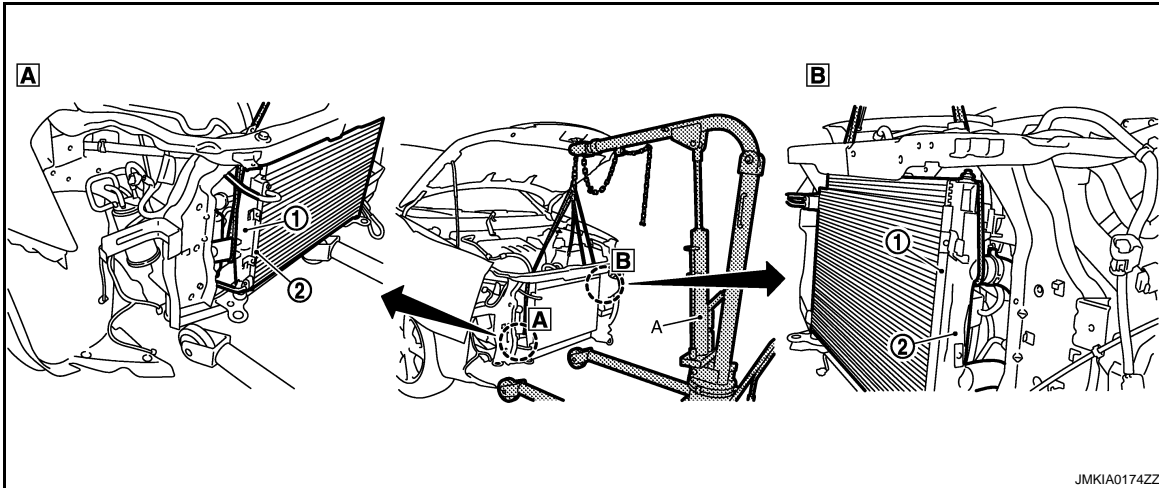
20. Remove the washer tank. Refer to [WW-99, "Removal and Installation"](#).

RADIATOR CORE SUPPORT

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

21. Use the baby crane (A) or another piece of equipment to suspend the radiator (1) and condenser (2).



22. Remove the radiator core support assembly mounting bolts, and draw out the radiator core support assembly to the front of the vehicle.
23. Remove the radiator core support assembly.
24. Remove the following parts after removing the radiator core support assembly.
- Inlet tube bracket (with K9K and M9R engine models)
 - Intercooler bracket (with K9K and M9R engine models)
 - Apron reinforcement bracket

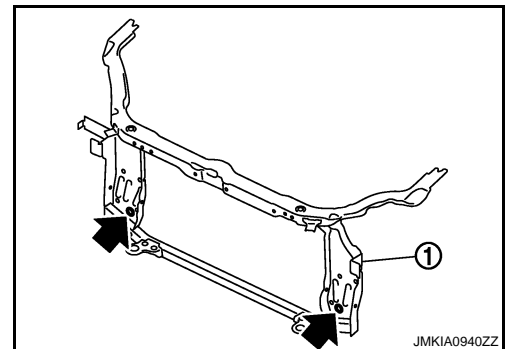
INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, refill the following parts.

- Radiator core support (1) must be aligned to engine side member vertically. Use round pin to locate through both holes.



- A/T fluid. Refer to [TM-530, "Changing"](#).
- Engine coolant. Refer to [CO-9, "Refilling"](#).

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FRONT FENDER

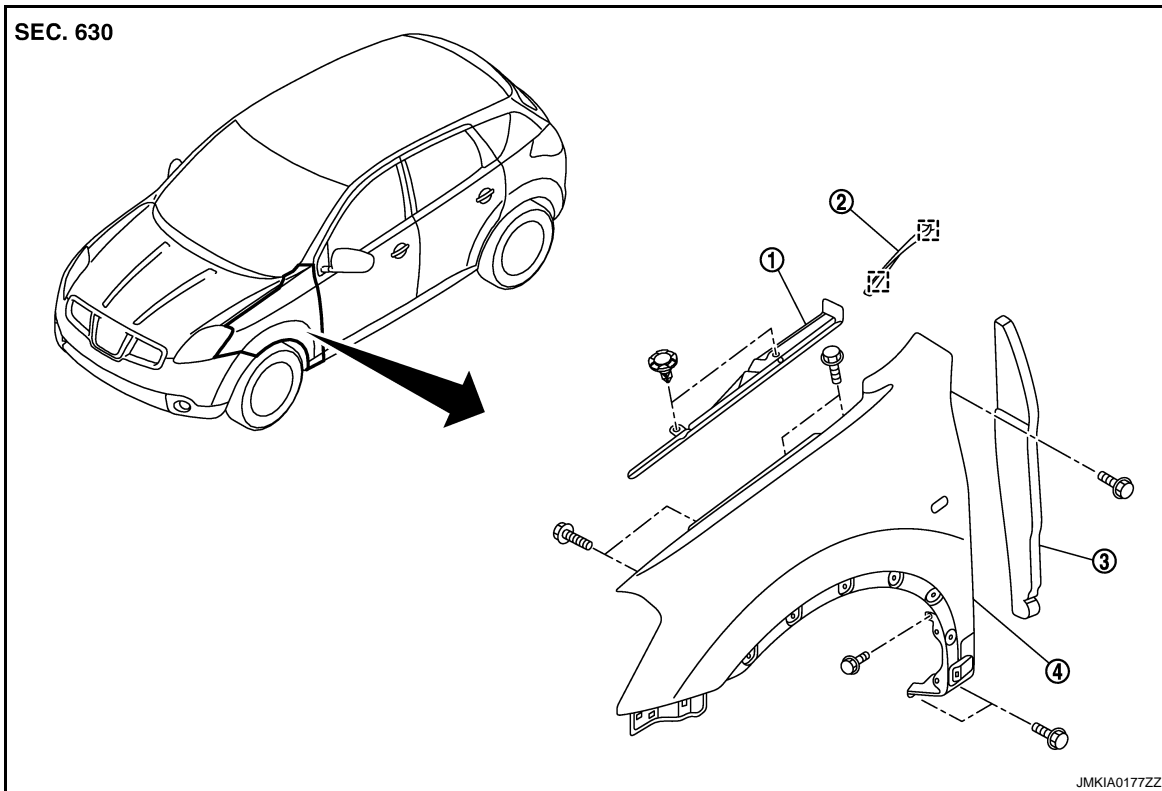
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

FRONT FENDER

Exploded View

INFOID:000000001538506



1. Hood seal assembly (side) 2. Front fender finisher 3. Front fender seal

4. Front fender

[] : Metal clip

Removal and Installation

INFOID:000000001538507

REMOVAL

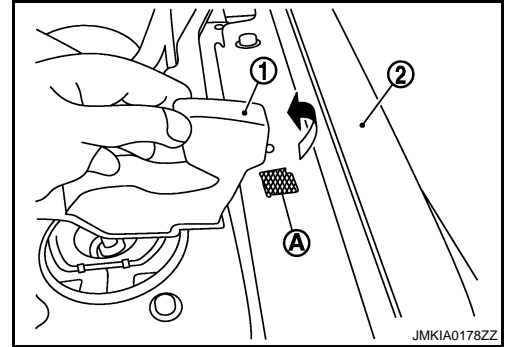
1. Remove the outer fender protector. Refer to [EXT-22, "Removal and Installation"](#).
2. Remove the inner fender protector. Refer to [EXT-22, "Removal and Installation"](#).
3. Remove the side turn signal lamp. Refer to [EXL-181, "Removal and Installation"](#).
4. Remove the front bumper fascia. Refer to [EXT-11, "Removal and Installation"](#).
5. Remove the front combination lamp.
 - XENON TYPE: [EXL-175, "Removal and Installation"](#).
 - HALOGEN TYPE: [EXL-329, "Removal and Installation"](#).
6. Remove the mounting clips and remove hoodledge cover.
7. Remove the center mudguard. Refer to [EXT-28, "Removal and Installation"](#).

FRONT FENDER

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

8. Peel away the double-faced adhesive tape (A) of the front fender seal (1) from the front fender (2).



9. Remove the mounting bolts and remove the front fender.

CAUTION:

Use a shop cloth to protect the body from being damaged during removal.

10. Remove the following parts after removing the front fender.
- Front fender seal.
 - Bumper side bracket. Refer to [EXT-11, "Exploded View"](#).

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Replace the double-faced adhesive tape on the back of the cowl top cover seal with new tape.
- Do not wash the vehicle within 24 hours after installation so as to keep adhesive.
- After installation, apply the touch-up paint (the body color) onto the head of the front fender mounting bolts.
- After installation, check the front fender adjustment. Refer to [DLK-827, "HOOD ASSEMBLY : Adjustment"](#) and [DLK-839, "DOOR ASSEMBLY : Adjustment"](#).

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FRONT DOOR

< ON-VEHICLE REPAIR >

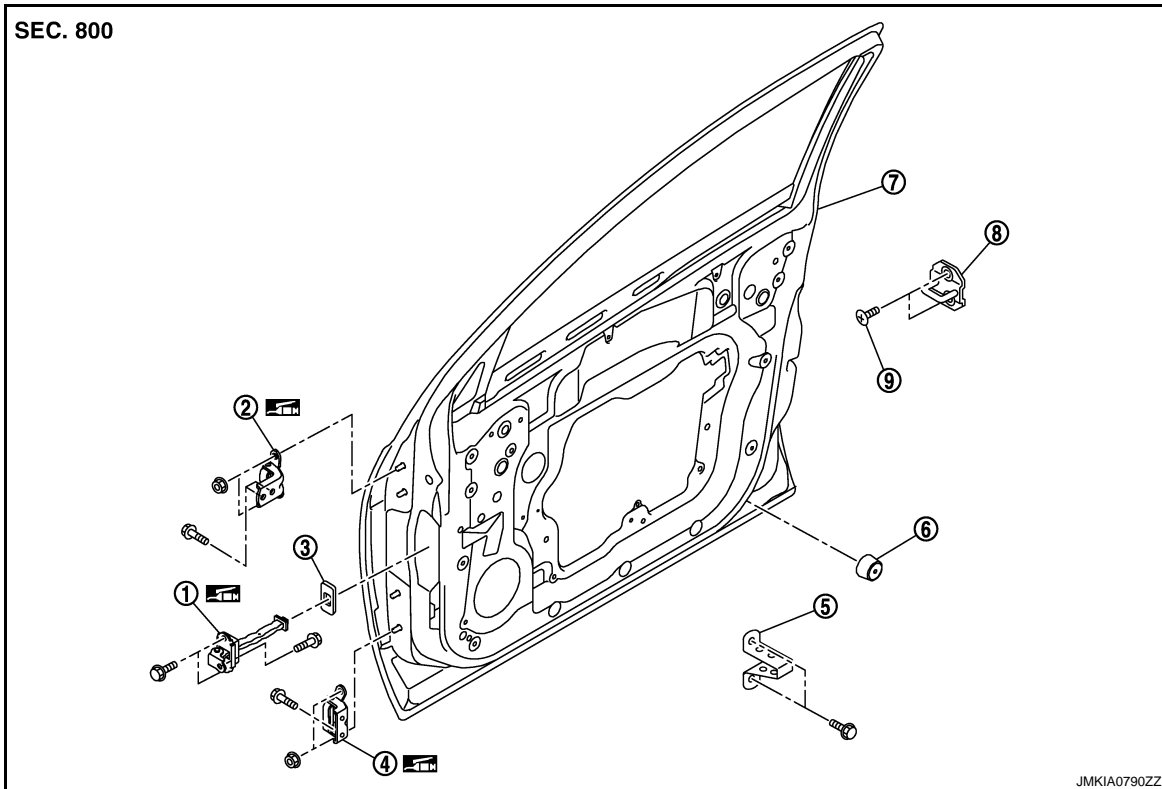
[WITHOUT I-KEY & SUPER LOCK]

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001538508

REMOVAL



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|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

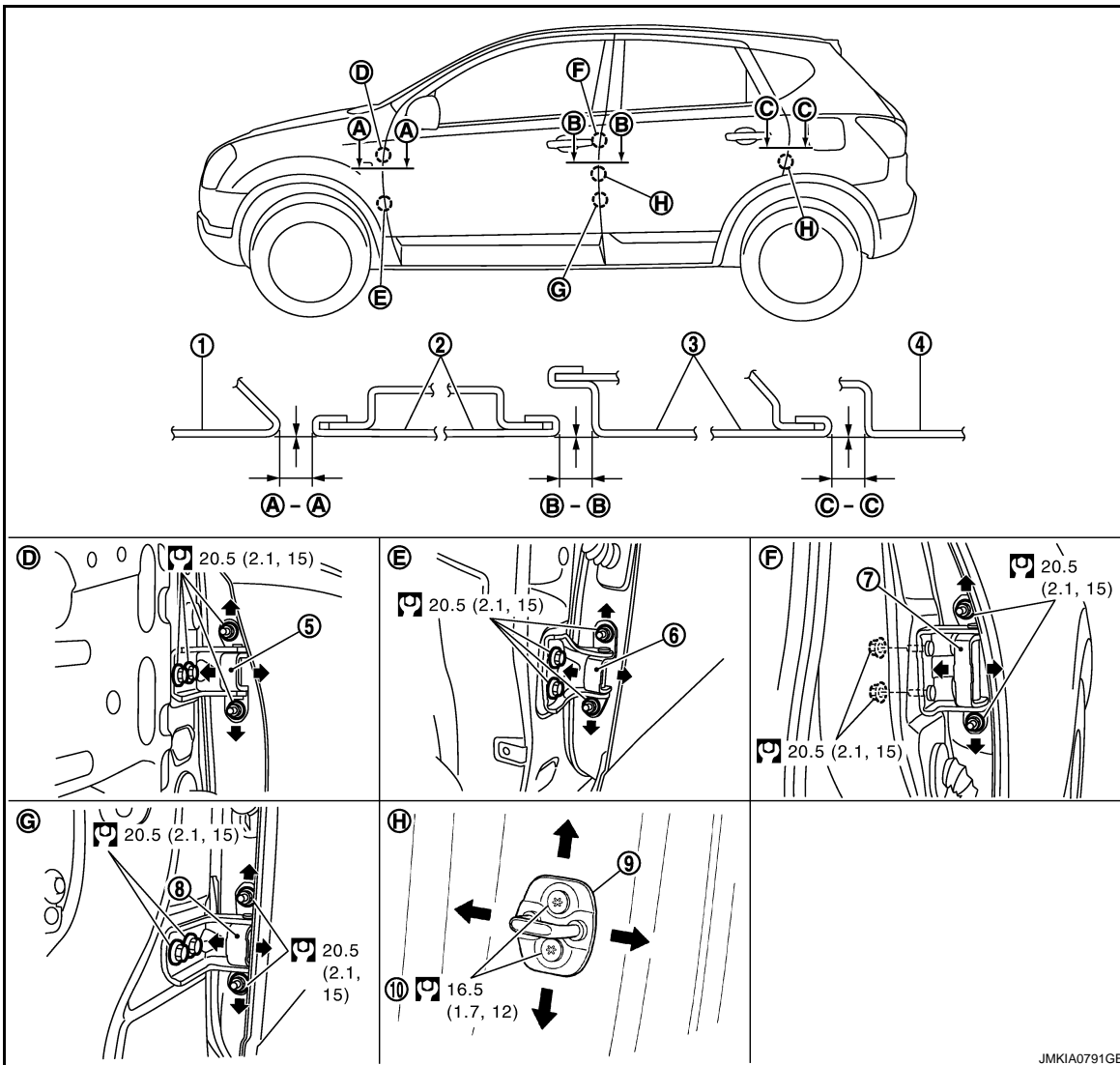
Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]



- | | | |
|----------------------------|-----------------------------|-----------------------------|
| 1. Front fender | 2. Front door outer | 3. Rear door outer |
| 4. Rear fender | 5. Front door hinge (upper) | 6. Front door hinge (lower) |
| 7. Rear door hinge (upper) | 8. Rear door hinge (lower) | 9. Door striker |
| 10. TORX bolt | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001538509

REMOVAL

1. Remove the mounting bolt 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.

CAUTION:

- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.
- Perform work with 2 workers, because of its heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-839, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- Check the front door open/close operation after installation.

DOOR ASSEMBLY : Adjustment

INFOID:000000001538510

CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

Portion		Clearance	Surface height
Front fender – Front door	A – A	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)
Front door – Rear door	B – B	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)

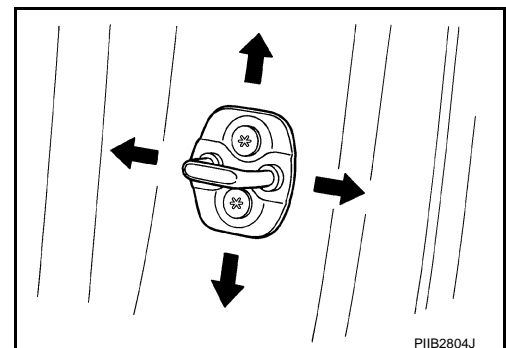
1. Check the clearance and surface height and surface mismatch between the front door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the front fender. Refer to refer to [DLK-835, "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-835, "Removal and Installation"](#).

CAUTION:

After installation, check the front fender adjustment. Refer to [DLK-827, "HOOD ASSEMBLY : Adjustment"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.



DOOR STRIKER

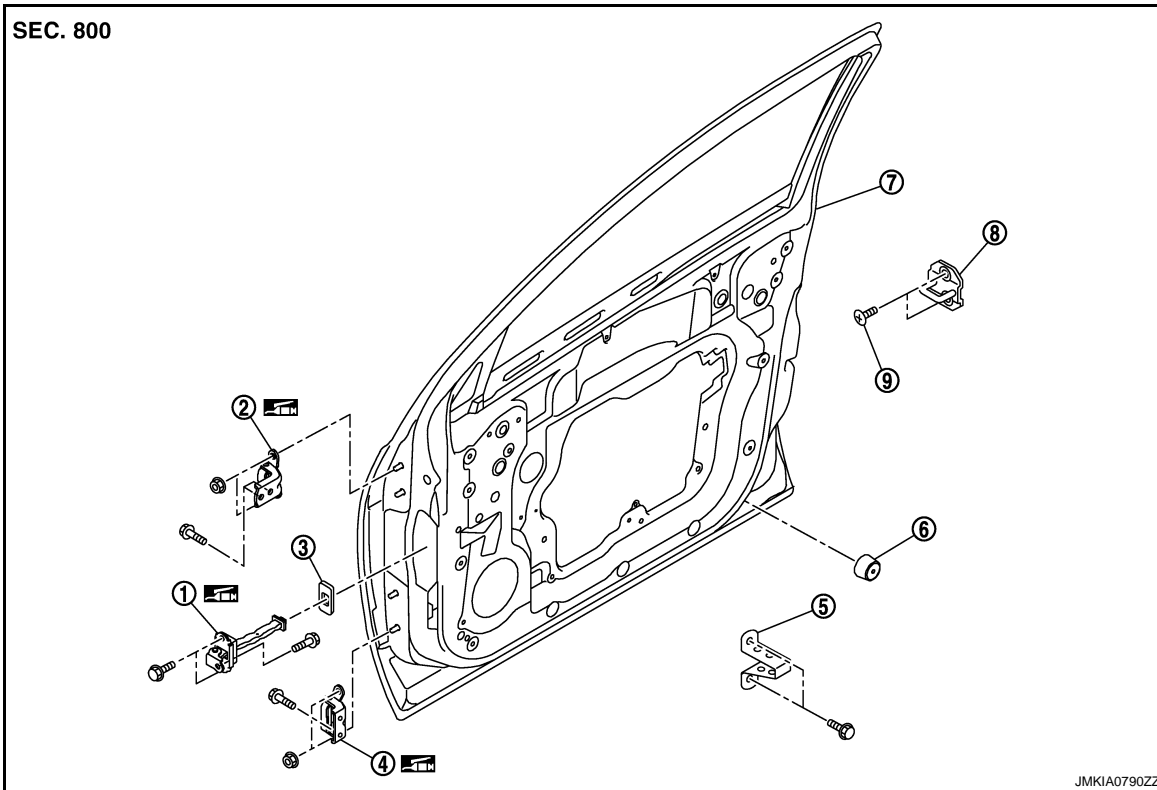
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001538511



- | | | |
|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001538512

DLK

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-839, "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

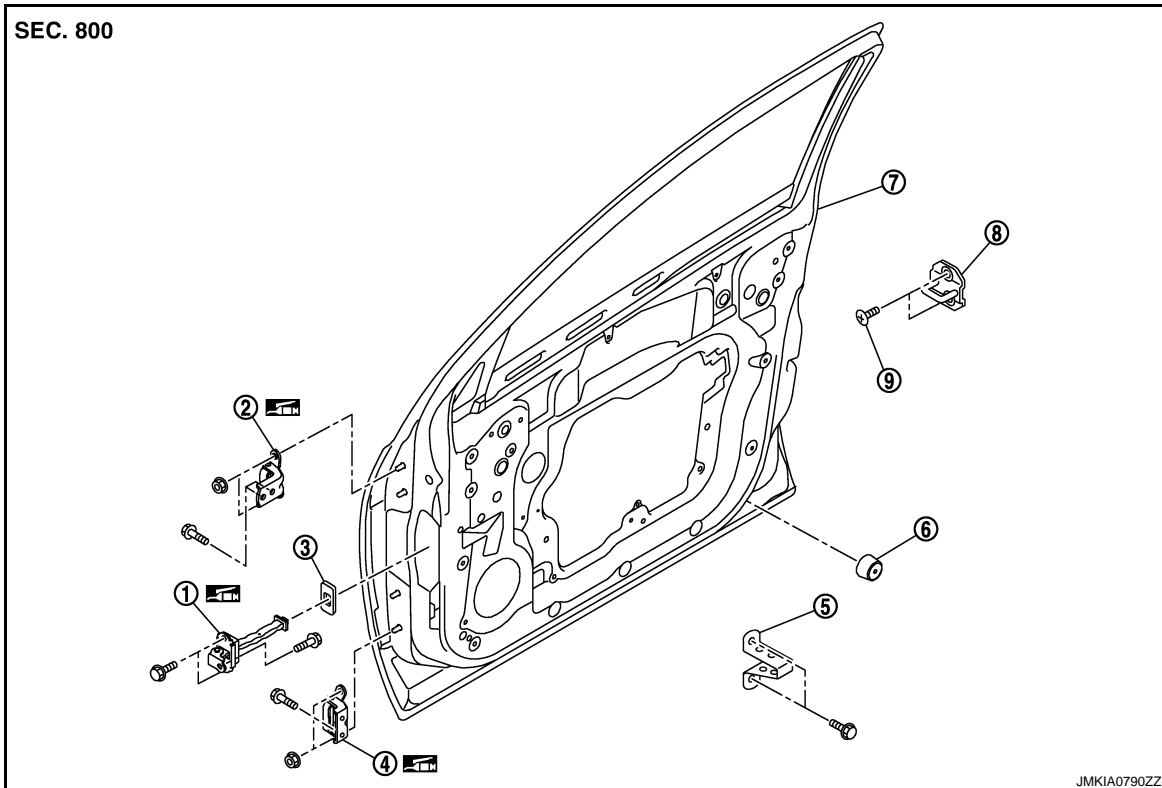
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001538514



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|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001538515

REMOVAL

1. Remove the front door assembly. Refer to [DLK-838. "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:

- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-839. "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- Check the front door open/close operation after installation.

DOOR CHECK LINK

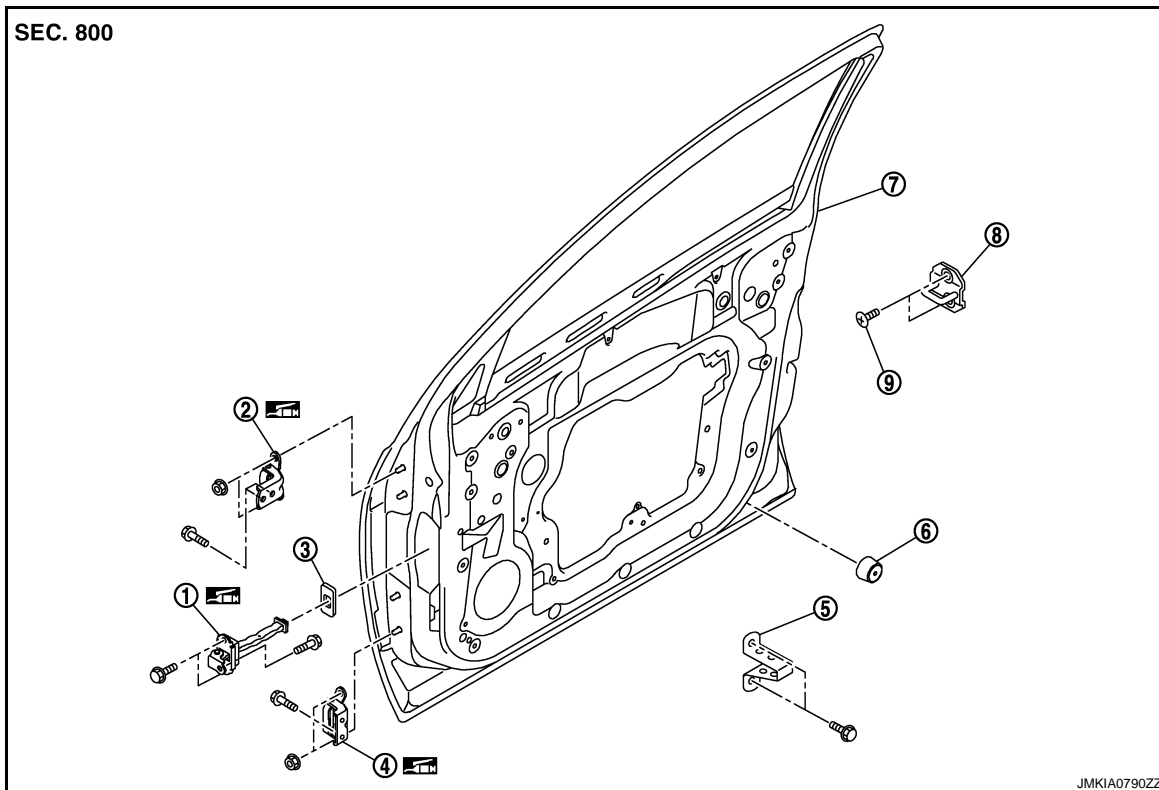
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001538517



- | | | |
|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001538518

DLK

REMOVAL

1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the front door speaker. Refer to [AV-36. "Removal and Installation"](#).
3. Remove the mounting bolt of the door check link on the vehicle.
4. Remove the door check link cover, and then remove the door check link mounting bolts.
5. Remove the door check link.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the front door open/close operation after installation.

REAR DOOR

< ON-VEHICLE REPAIR >

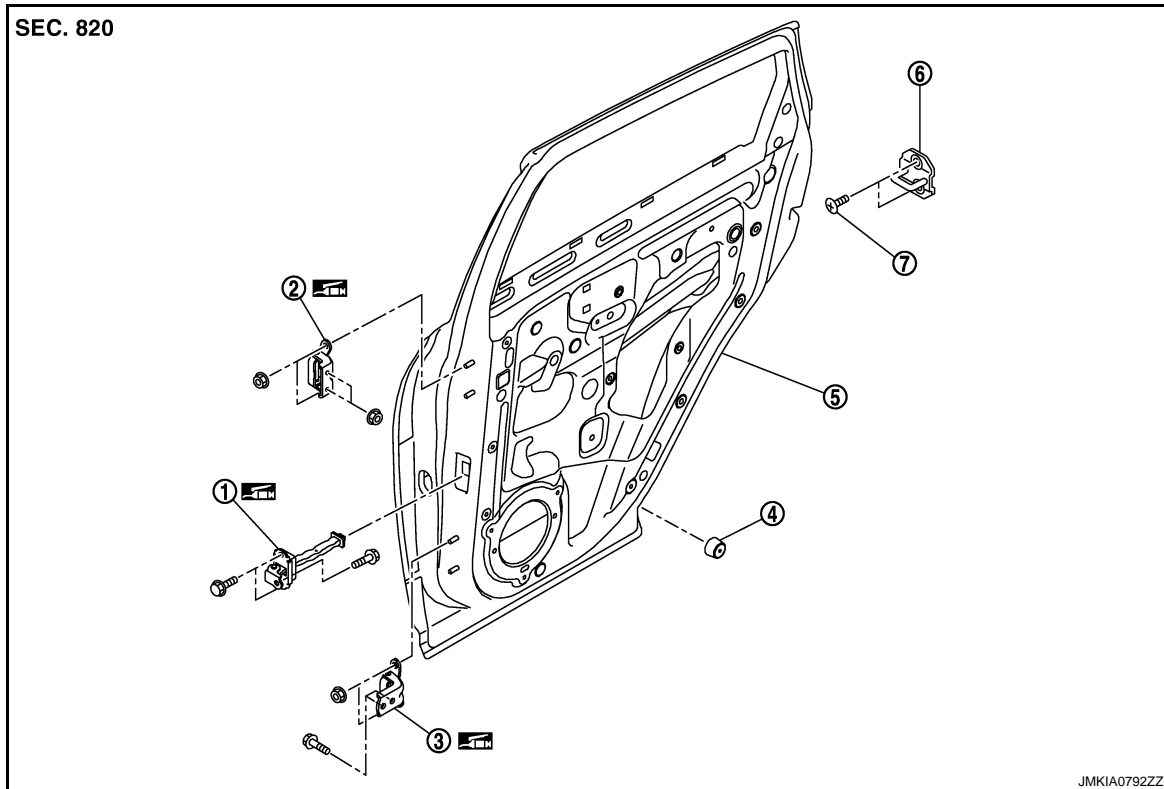
[WITHOUT I-KEY & SUPER LOCK]

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001538519

REMOVAL



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|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

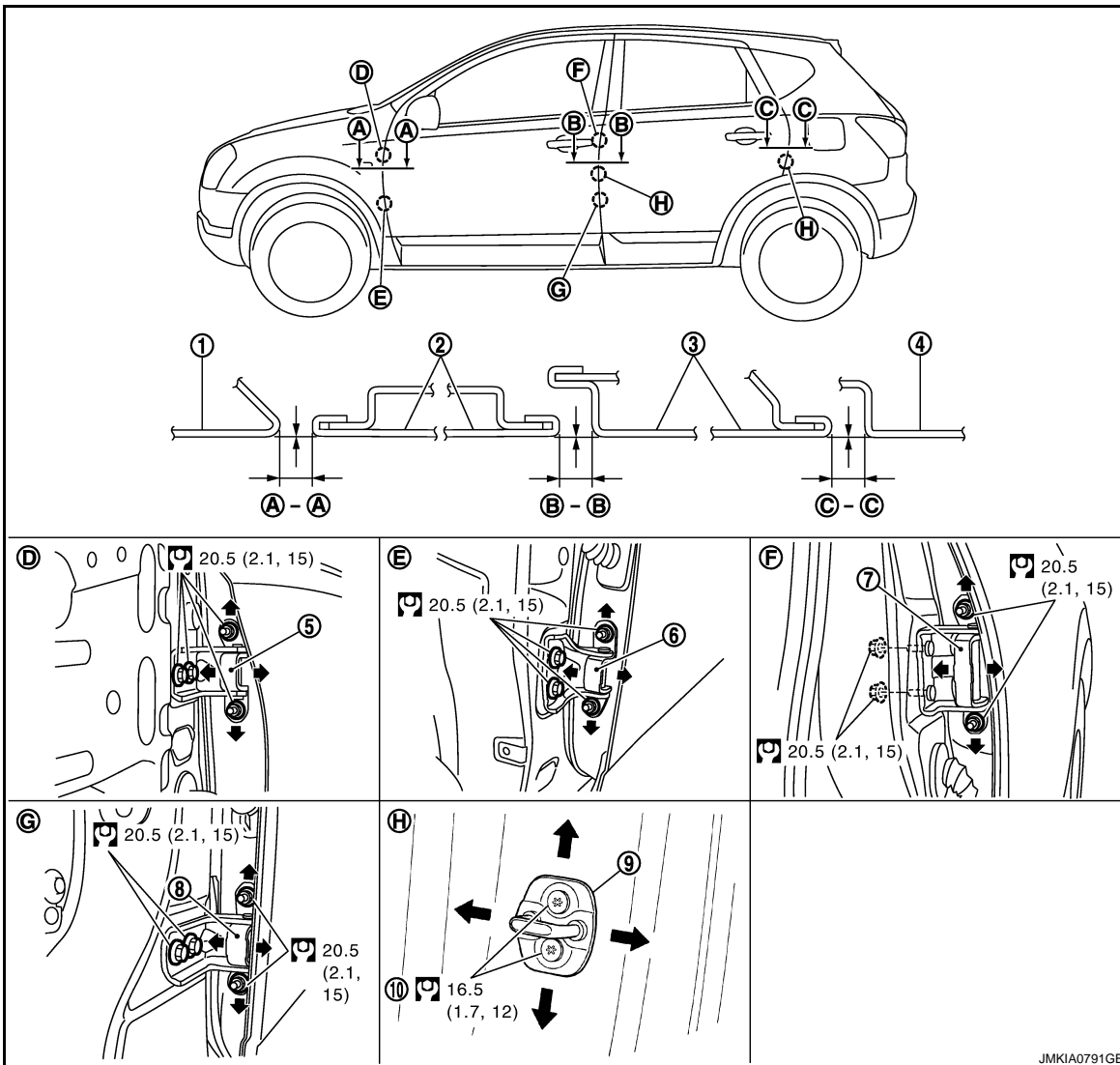
Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]



- | | | |
|----------------------------|-----------------------------|-----------------------------|
| 1. Front fender | 2. Front door outer | 3. Rear door outer |
| 4. Rear fender | 5. Front door hinge (upper) | 6. Front door hinge (lower) |
| 7. Rear door hinge (upper) | 8. Rear door hinge (lower) | 9. Striker |
| 10. TORX bolt | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001538520

REMOVAL

1. Remove the mounting bolt 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.

CAUTION:

- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.
- Perform work with 2 workers, because of it's heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

- When removing and installing the rear door assembly, perform the fitting adjustment. Refer to [DLK-845, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- Check the rear door open/close operation after installation.
- Check the rear door lock/unlock operation after installation.

DOOR ASSEMBLY : Adjustment

INFOID:000000001538521

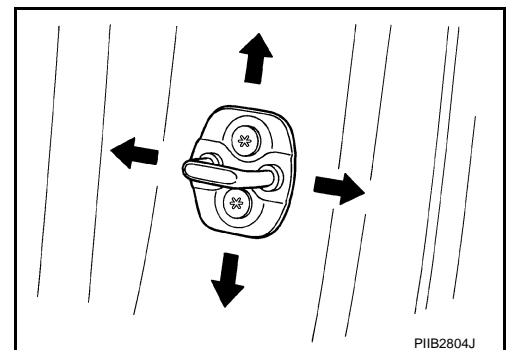
CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

Portion		Clearance	Surface height
Front door – Rear door	B – B	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)
Rear door – Rear fender	C – C	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)

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 upper garnish and center pillar lower garnish. Refer to [INT-14, "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 upper garnish and center pillar lower garnish. Refer to [INT-14, "Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.



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DOOR STRIKER

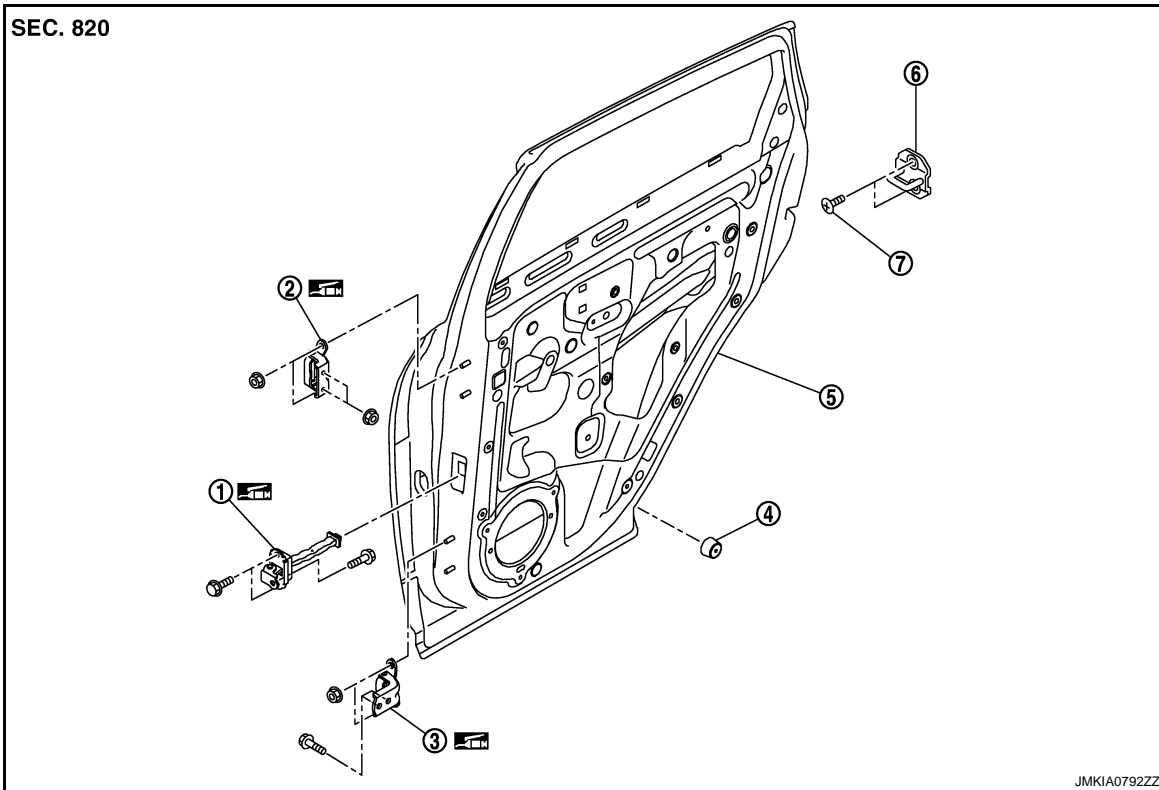
REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001538522



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001538523

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-845, "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

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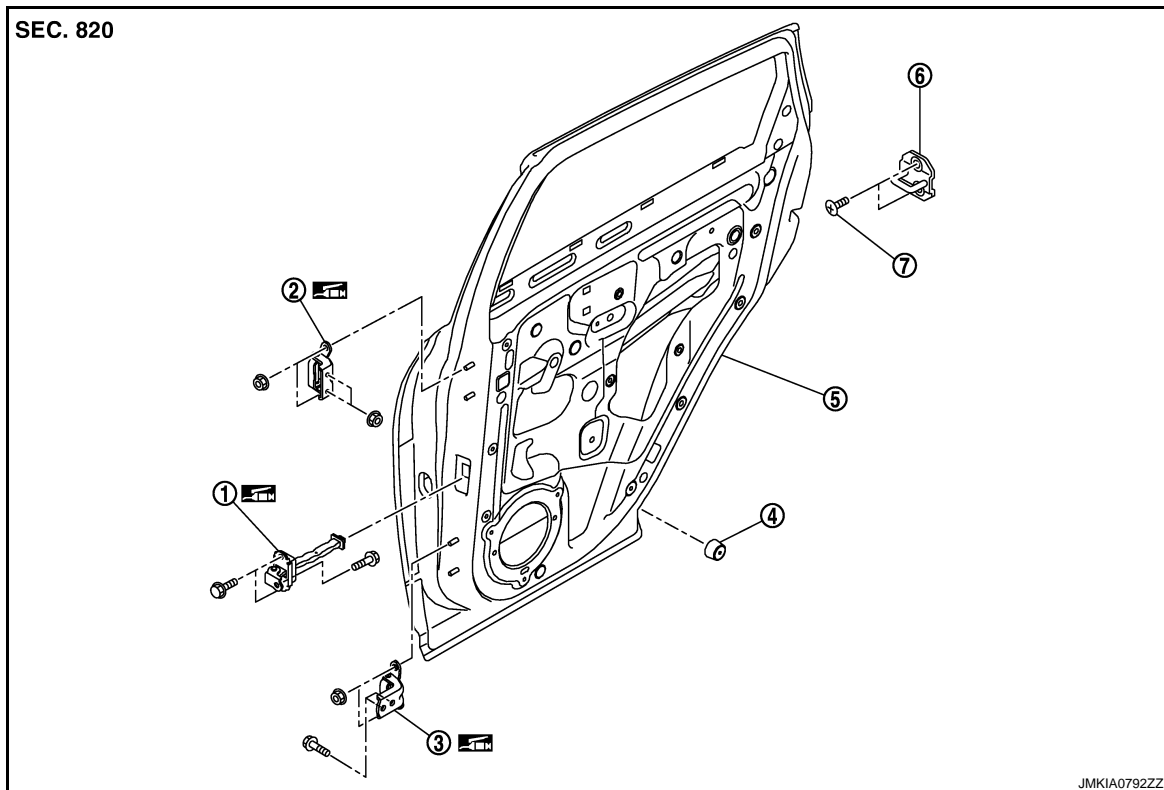
REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001538525



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|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001538526

REMOVAL

1. Remove the center pillar lower garnish and the center pillar upper garnish. Refer to [INT-14. "Removal and Installation"](#).
2. Remove the rear door assembly. Refer to [DLK-844. "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:

- When removing and installing the rear door assembly, perform the fitting adjustment. Refer to [DLK-845. "DOOR ASSEMBLY : Adjustment"](#).
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installing, apply the touch-up paint (the body color) onto the head of the hinge mounting nuts.
- Check the rear door open/close operation after installation.

DOOR CHECK LINK

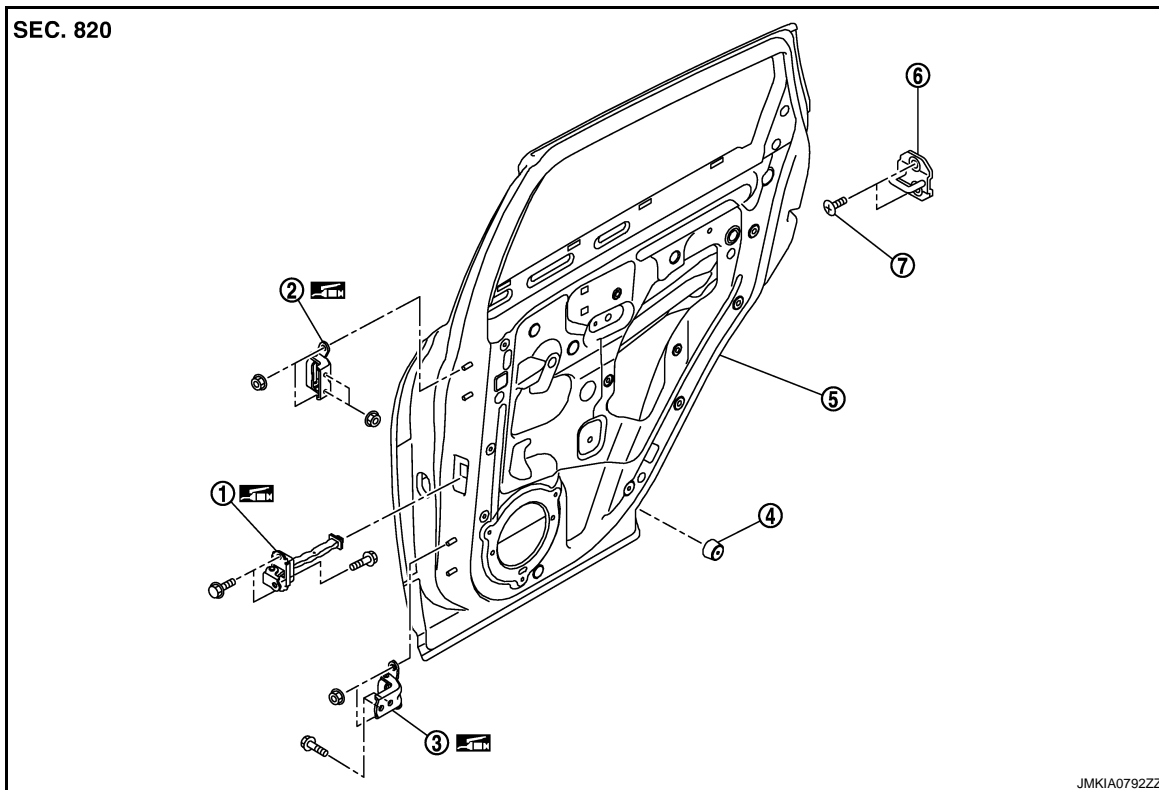
REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001538528



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001538529

DLK

REMOVAL

1. Remove the rear door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the rear door sealing screen.
3. Remove the mounting bolt of the check link on the vehicle.
4. Remove the door check link cover, and then remove the door check link mounting bolts.
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]

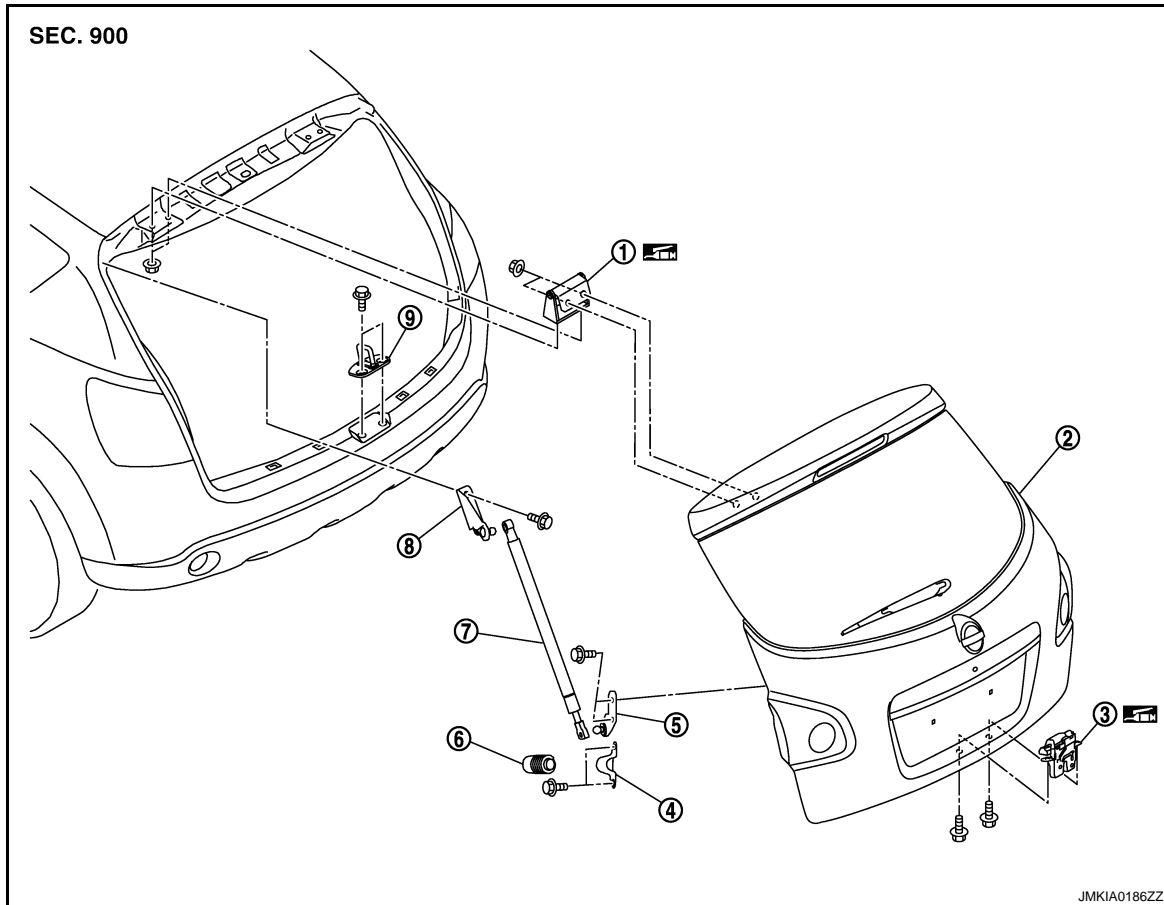
BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:000000001538530

REMOVAL



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

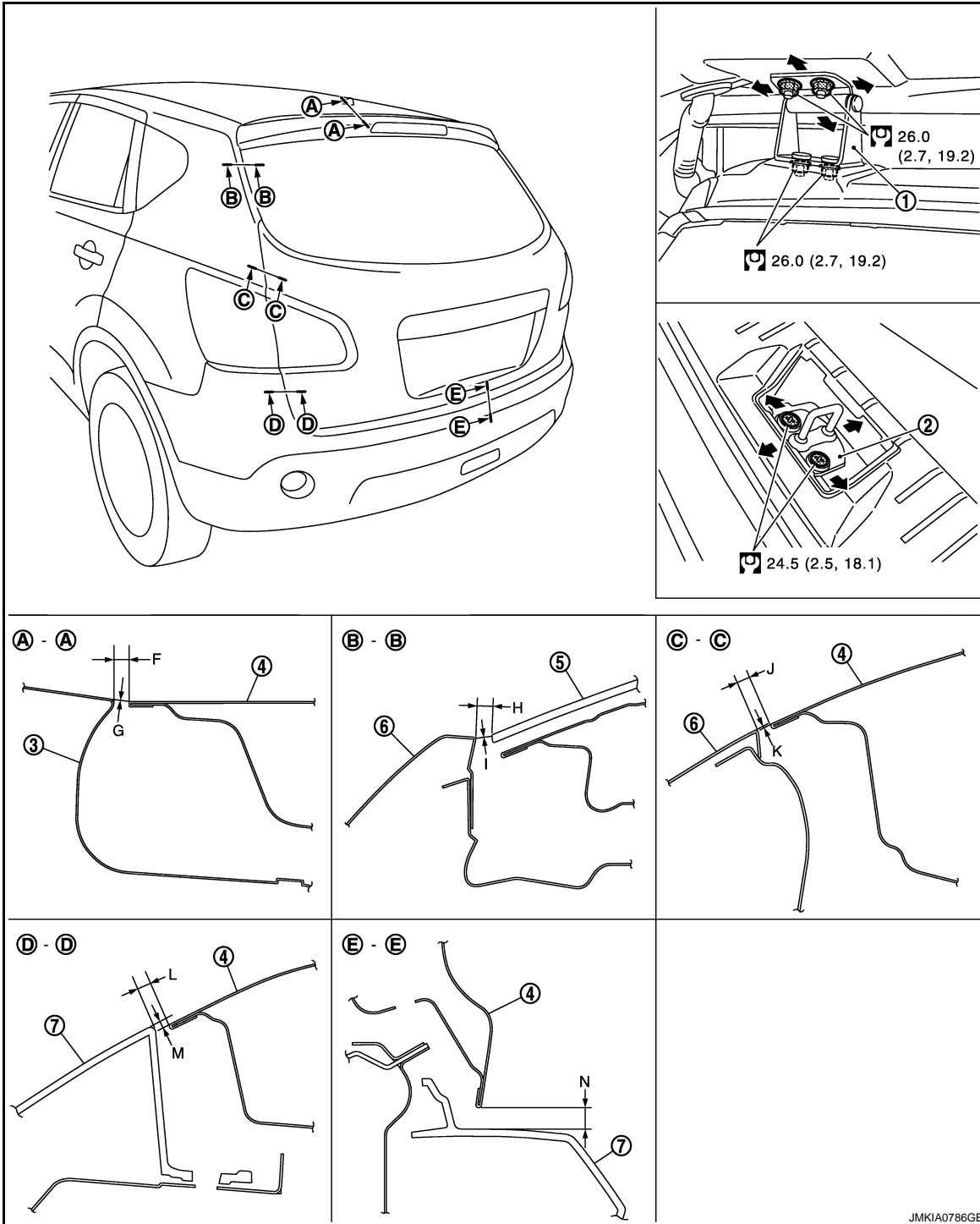
Refer to [GI-4, "Components"](#) for symbols in the figure.

ADJUSTMENT

BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]



- | | | |
|-----------------------|----------------------|--------------------|
| 1. Back door hinge | 2. Back door striker | 3. Roof panel |
| 4. Back door outer | 5. Back door glass | 6. Body side outer |
| 7. Rear bumper fascia | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000001538531

REMOVAL

1. Remove the back door finisher inner. Refer to [INT-26, "Removal and Installation"](#).
2. Remove the back door window glass. Refer to [GW-17, "Removal and Installation"](#).

NOTE:

DLK-683

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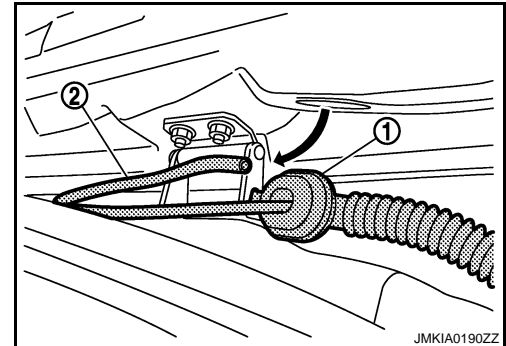
BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

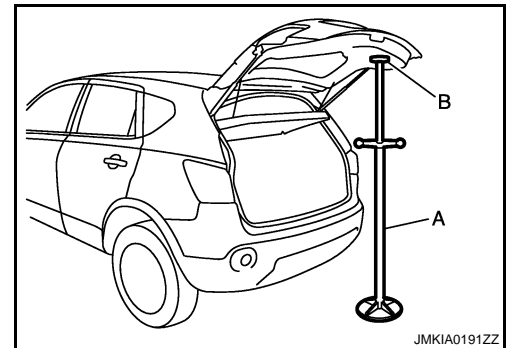
It is necessary to remove back door window glass in order to remove harness, because harness connector interferes with back door window glass pin.

3. Disconnect the connectors in the back door, and then remove the grommet, and pull out the harness.
4. Remove the parcel shelf. Refer to [INT-24, "Removal and Installation"](#).
5. Remove the high-mounted stop lamp. Refer to [EXL-186, "Removal and Installation"](#).
6. Remove the grommet (1), and then pull out the washer tube (2) .

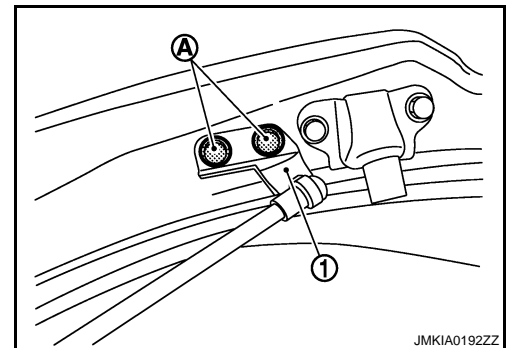


7. Pull the harness out of the back door.
8. Support the back door lock with the proper material to prevent it from falling.

A : Jack
B : Shop cloth

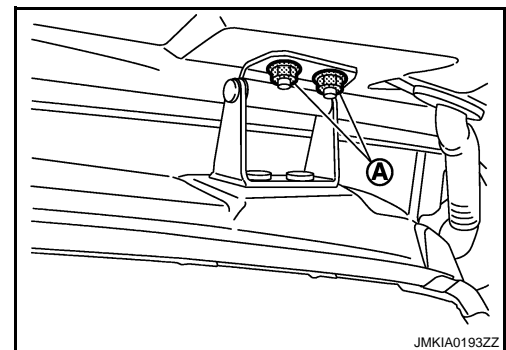


9. Remove the back door stay bracket (1) mounting bolts (A) on the back door.



10. Remove the back door hinge mounting nuts (A) 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:
• Perform work with 2 workers, because of its heavy weight.

BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

- After installation, perform fitting adjustment. Refer to [DLK-852, "BACK DOOR ASSEMBLY : Adjustment"](#).
- Check the back door open/close operation after installation.
- Check the back door lock/unlock operation after installation.

BACK DOOR ASSEMBLY : Adjustment

INFOID:000000001538532

Portion			Standard	Difference(RH/LH)
Back door panel – Roof panel	A – A	F	Clearance 5.0 – 7.0 mm (0.197 – 0.276 in)	—
		G	Surface height 0.0 – 2.0 mm (0.000 – 0.079 in)	—
Back door glass – Body side outer	B – B	H	Clearance 3.9 – 8.1 mm (0.154 – 0.319 in)	2.1 mm (0.083 in)
		I	Surface height - 1.0 – 3.1 mm (- 0.039 – 0.122 in)	2.0 mm (0.079 in)
Back door panel – Body side outer	C – C	J	Clearance 3.5 – 6.5 mm (0.138 – 0.256 in)	2.0 mm (0.079 in)
		K	Surface height - 1.0 – 1.0 mm (- 0.039 – 0.039 in)	—
Back door panel – Rear bumper fascia	D – D	L	Clearance 4.0 – 8.0 mm (0.157 – 0.315 in)	2.0 mm (0.079 in)
		M	Surface height 0.1 – 4.1 mm (0.004 – 0.161 in)	2.1 mm (0.083 in)
Back door panel – Rear bumper fascia	E – E	N	Clearance 5.8 – 10.2 mm (0.228 – 0.402 in)	—

FITTING ADJUSTMENT

1. 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.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Loosen the bumper rubber.
4. Loosen the back door striker mounting bolts.
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

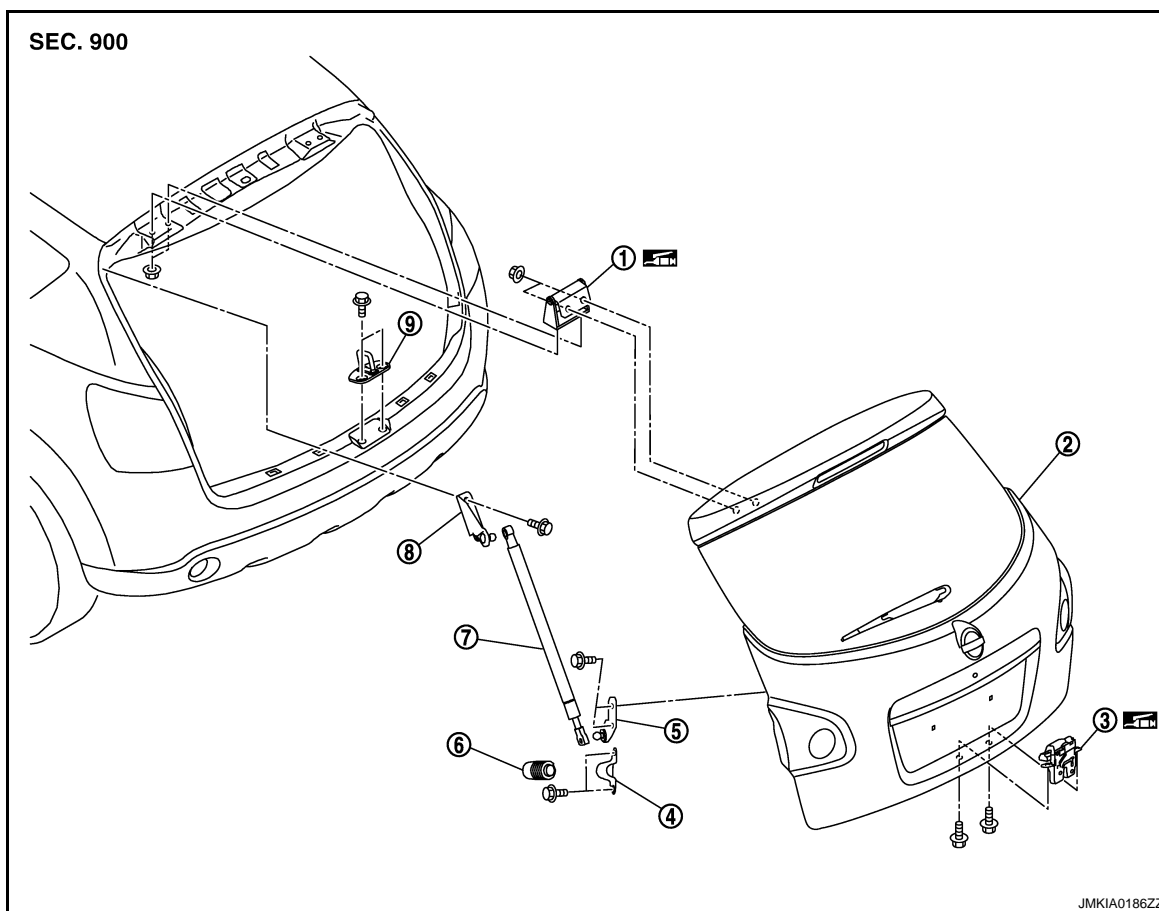
BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR STRIKER : Exploded View

INFOID:000000001538533



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR STRIKER : Removal and Installation

INFOID:000000001538534

REMOVAL

1. Remove the luggage rear plate cap. Refer to [INT-24, "Removal and Installation"](#).
2. Remove the mounting bolts, and then remove the back door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- When removing and installing the back door striker, be sure to perform the fitting adjustment. Refer to [DLK-852, "BACK DOOR ASSEMBLY : Adjustment"](#).
- Check the back door open/close operation after installation.

BACK DOOR HINGE

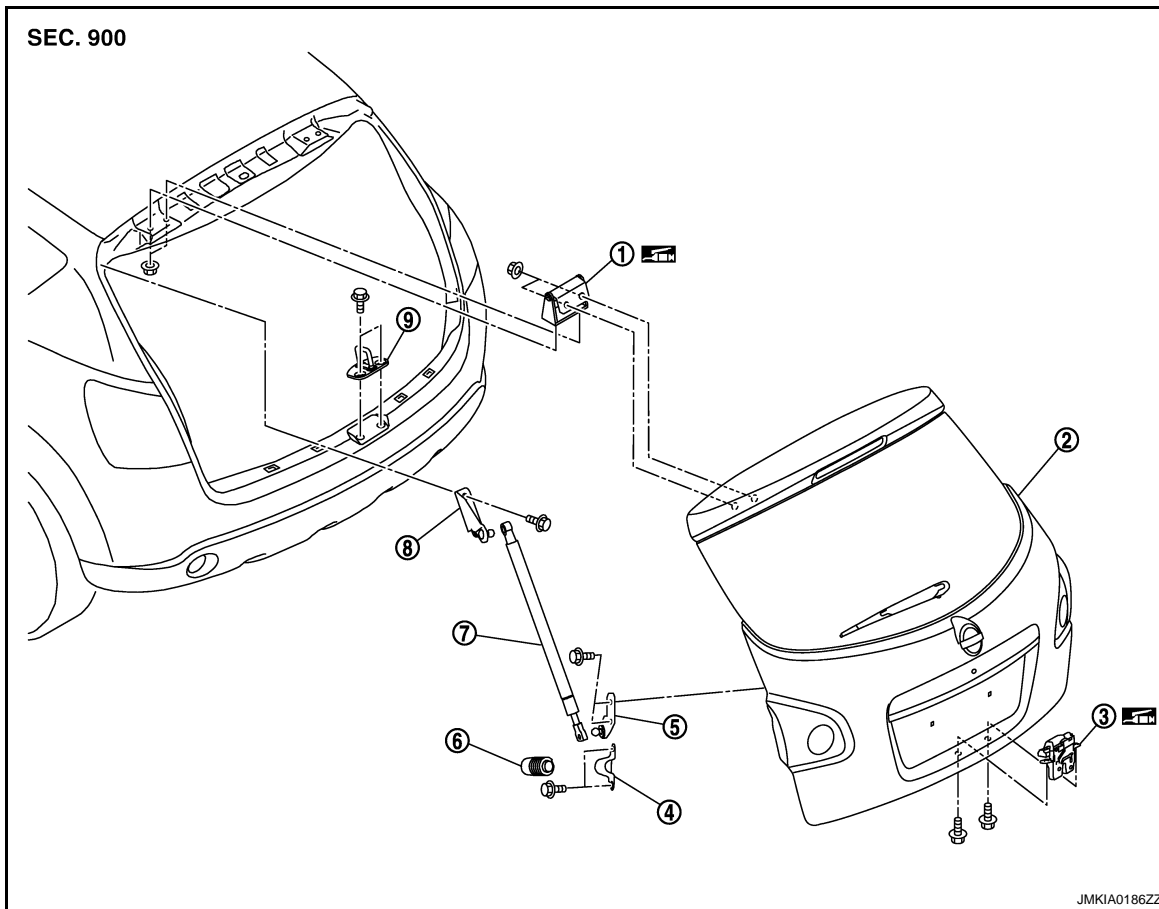
BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR HINGE : Exploded View

INFOID:000000001538536



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR HINGE : Removal and Installation

INFOID:000000001538537

REMOVAL

1. Remove the back door assembly. Refer to [DLK-850, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove upper side of the back door weatherstrip. Refer to [DLK-856, "BACK DOOR WEATHER-STRIP : Removal and Installation"](#).
3. Remove rear seat belt cover. Refer to [INT-21, "Removal and Installation"](#).
4. Using remover tool, remove the headlining clip at the rear side of the headlining. Refer to [INT-20, "Exploded View"](#).
5. Remove the rear side of the headlining.
6. 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:

- When removing and installing the back door assembly, perform the fitting adjustment. Refer to [DLK-852, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting nuts.
- Check the hinge rotating part for poor lubrication. If necessary, apply body grease.

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BACK DOOR

< ON-VEHICLE REPAIR >

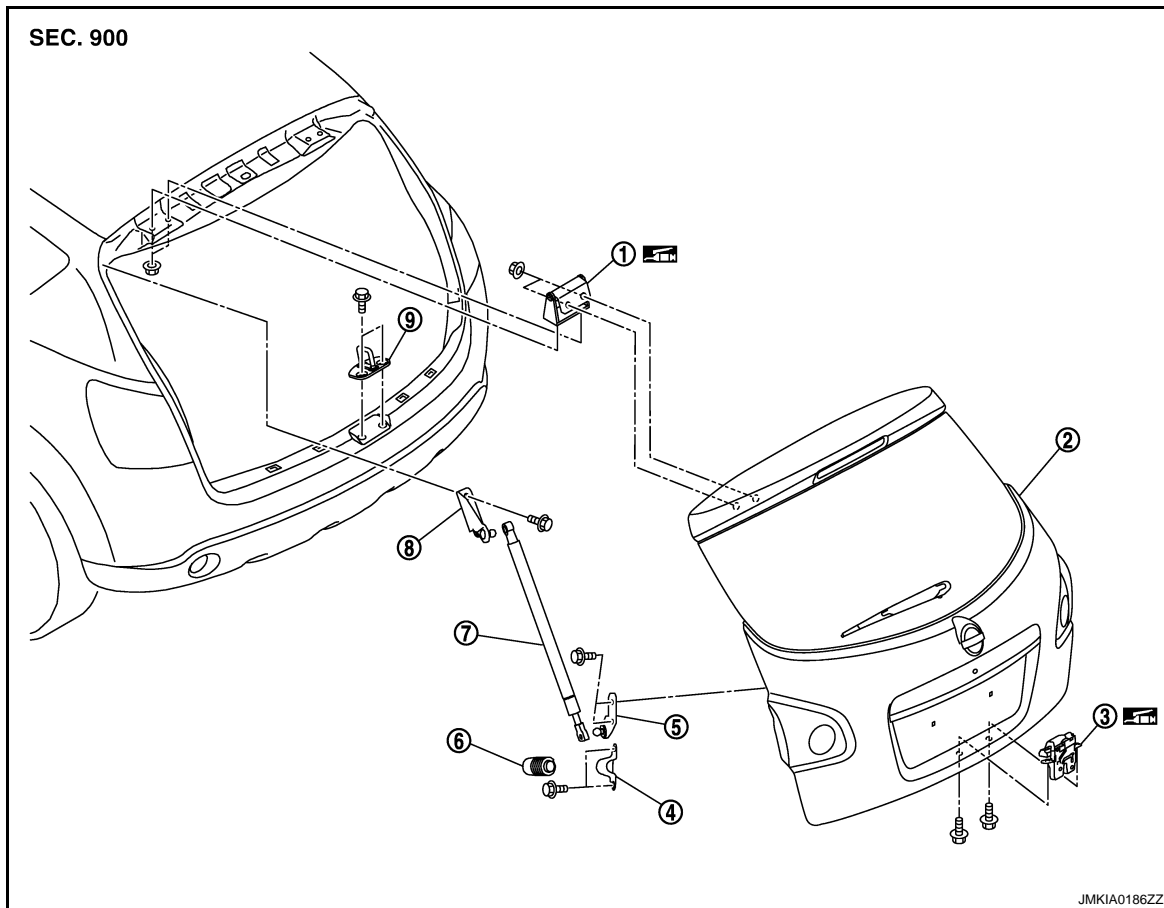
[WITHOUT I-KEY & SUPER LOCK]

- Check the back door open/close operation after installation.

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:000000001538539



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STAY : Removal and Installation

INFOID:000000001538540

REMOVAL

1. Remove the mounting bolts, and then remove the back door stay bracket on body side.
2. Remove the stud ball, and then remove the back door stay on back door side.

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

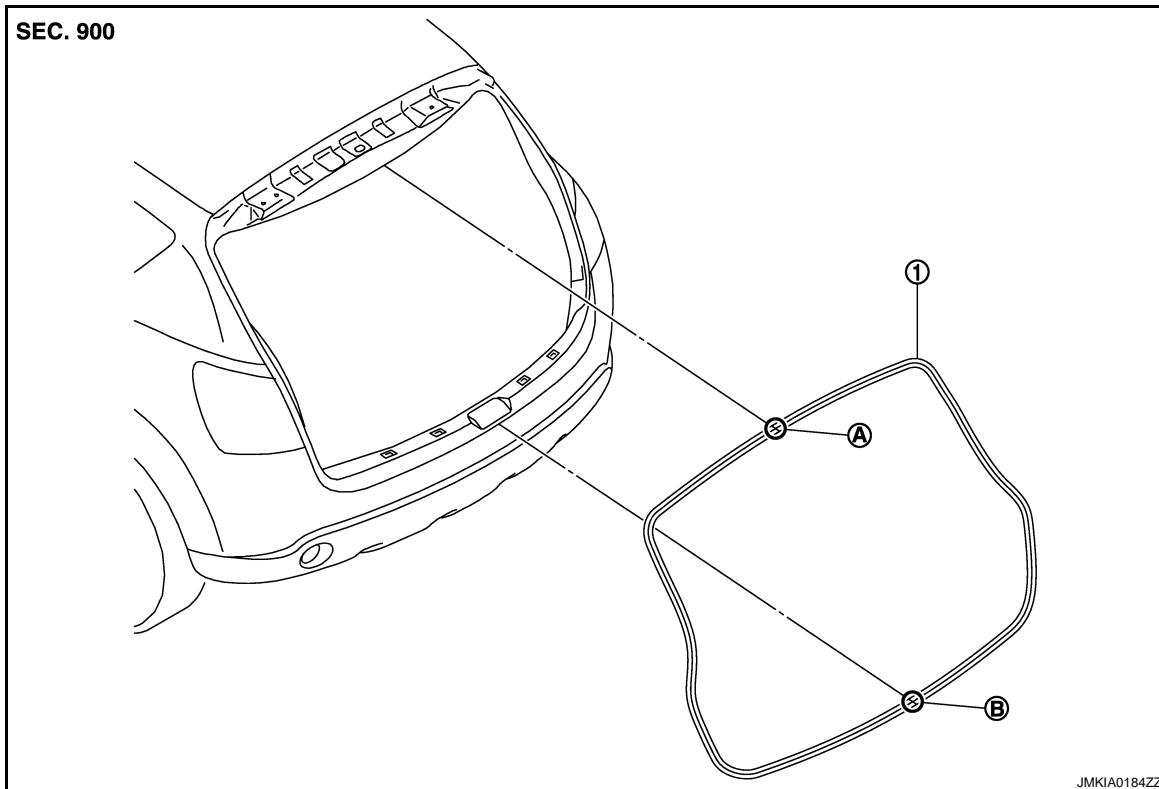
INFOID:000000001538541

REMOVAL

BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]



1. Back door weatherstrip
- A. Mark (upper)
- B. Mark (lower)

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000001538542

REMOVAL

Pull up and remove engagement with body from the weatherstrip joint.

CAUTION:

After removal, do not pull strongly on the weather-strip.

INSTALLATION

1. Working from the upper section, align the weatherstrip mark with vehicle center position mark and install the weatherstrip onto the vehicle.
2. For the lower section, align the weatherstrip seam with center of the back door striker.
3. After installation, pull the weatherstrip gently to ensure that there is no loose section.

NOTE:

Make sure that the weatherstrip is fit tightly at each corner and the luggage rear plate.

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FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

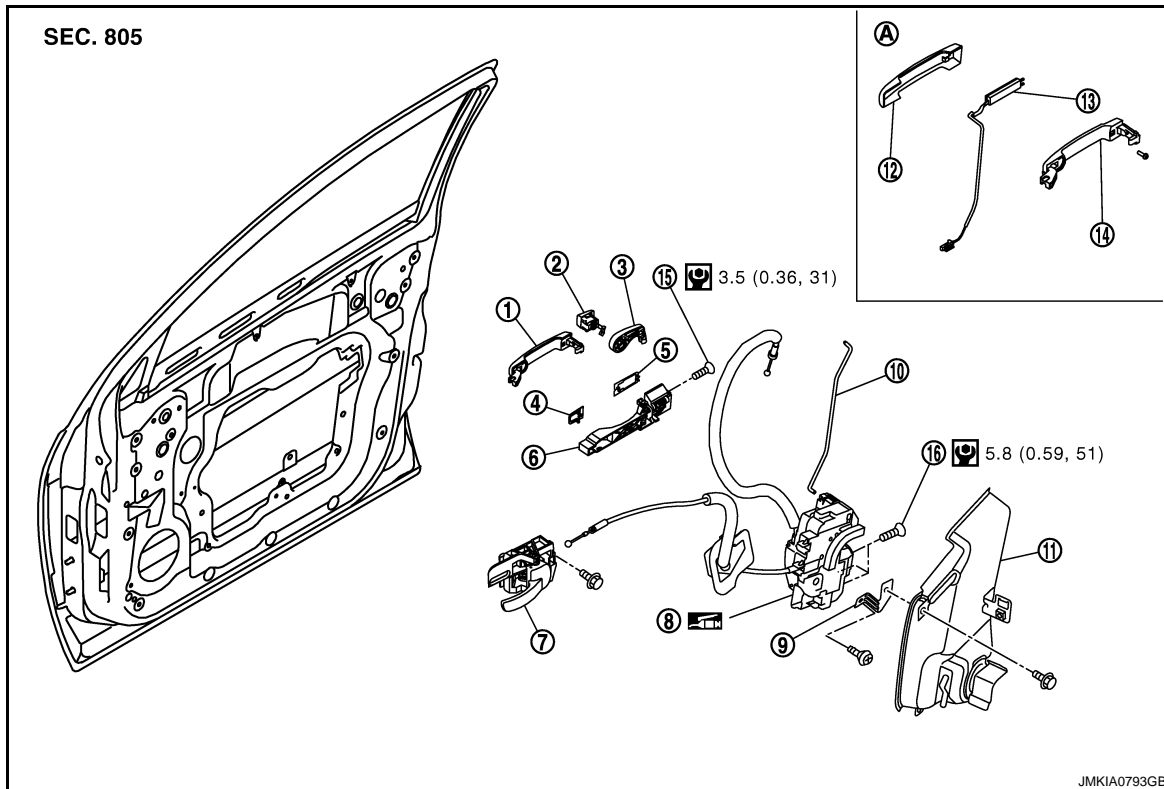
[WITHOUT I-KEY & SUPER LOCK]

FRONT DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001538543



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|--|--|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder | 3. Key cylinder lever |
| 4. Front gasket | 5. Rear gasket | 6. Outside handle bracket |
| 7. Inside handle | 8. Door lock assembly | 9. Key cylinder rod |
| 10. Key rod protector(SUPER LOCK model only) | 11. Key rod protector assembly (SUPER LOCK and RH handle model only) | 12. Outside handle cover |
| 13. Antenna | 14. Outside handle base | 15. TORX bolt |
| 16. TORX bolt | | |

A: Intelligent Key only

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001538544

REMOVAL

1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolt, and then disconnect the inside handle cable.
3. Remove the front door glass. Refer to [GW-19. "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-22. "Removal and Installation"](#).
5. Disconnect the door antenna and the door request switch connector and remove the harness clamp (models with Intelligent Key system).

FRONT DOOR LOCK

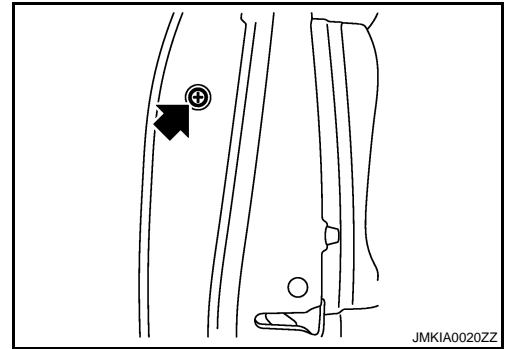
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

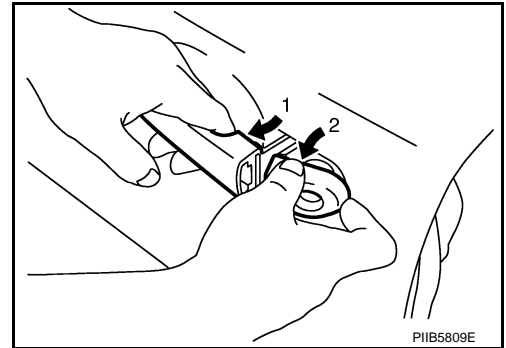
6. Remove the door side grommet, and loosen TORX bolt from grommet hole.

CAUTION:

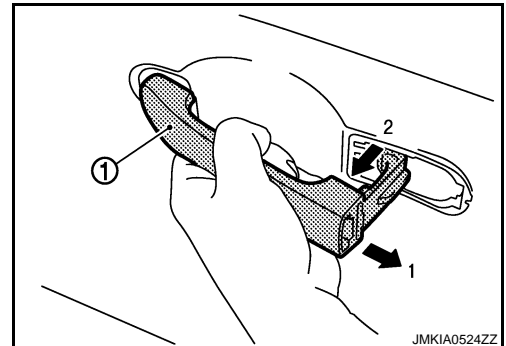
Do not forcibly remove the bolts.



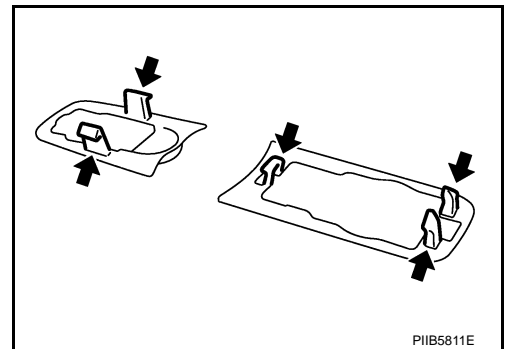
7. Reach in to separate the key cylinder rod connection (on the handle).
8. Disconnect the door key cylinder switch harness connector.
9. Remove the key cylinder lever from the door key cylinder.
10. While pulling the outside handle, remove door key cylinder assembly.



11. Disconnect front door request switch harness connector (models with Intelligent Key system).
12. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



13. Remove the front gasket and the rear gasket.



14. Remove the door lock assembly TORX bolts.
15. Disconnect the door lock actuator connector, and then remove the door lock assembly.

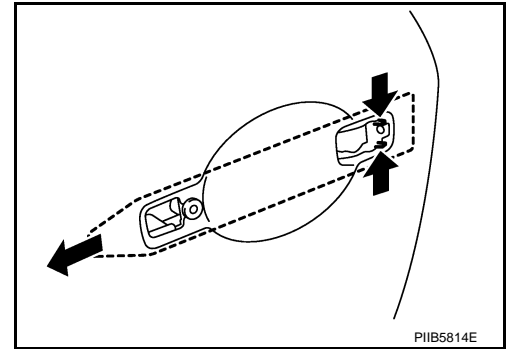
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FRONT DOOR LOCK

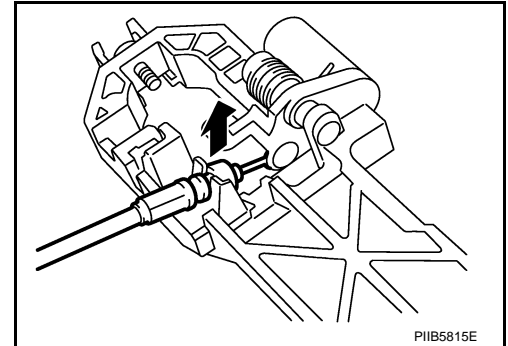
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

16. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



17. Reach in to separate the outside handle cable connection.



INSTALLATION

Install in the reverse order of removal.

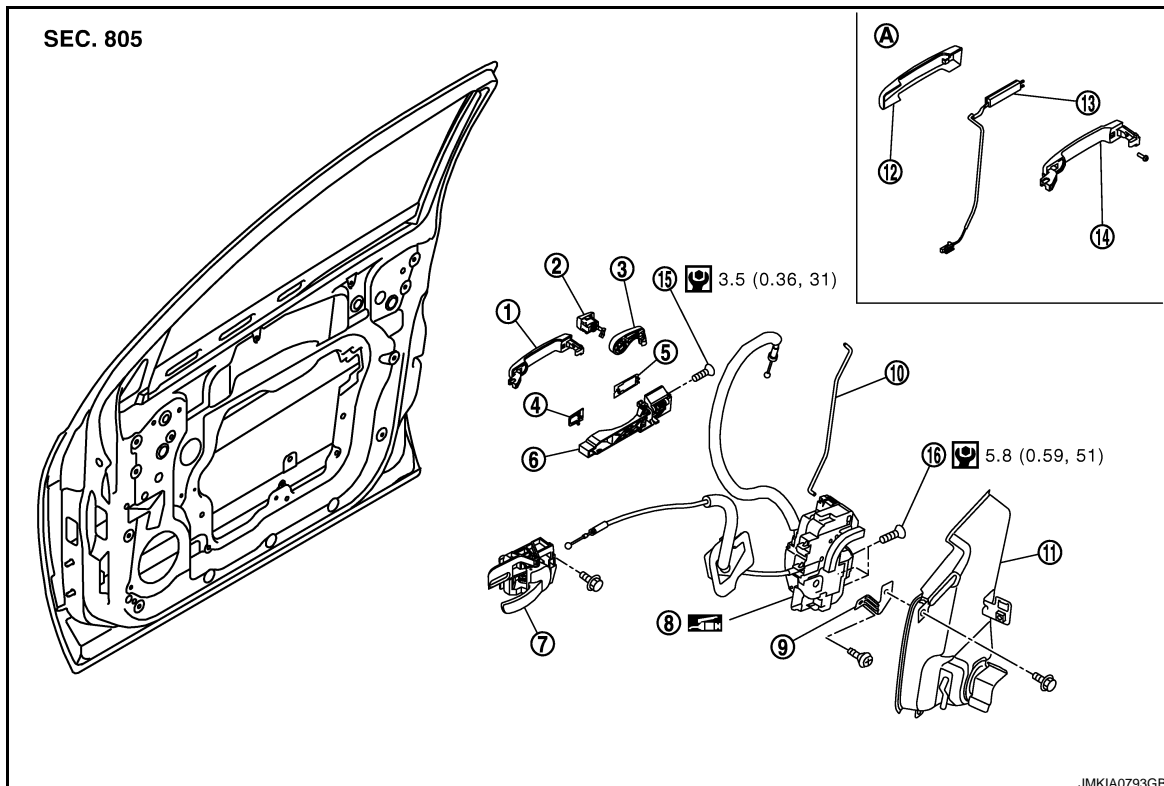
CAUTION:

- 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.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000001538546



DLK-692

FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

- | | | |
|--|--|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder | 3. Key cylinder lever |
| 4. Front gasket | 5. Rear gasket | 6. Outside handle bracket |
| 7. Inside handle | 8. Door lock assembly | 9. Key cylinder rod |
| 10. Key rod protector(SUPER LOCK model only) | 11. Key rod protector assembly (SUPER LOCK and RH handle model only) | 12. Outside handle cover |
| 13. Antenna | 14. Outside handle base | 15. TORX bolt |
| 16. TORX bolt | | |

A: Intelligent Key only

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001538547

REMOVAL

1. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolt.
3. Disconnect the inside handle cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

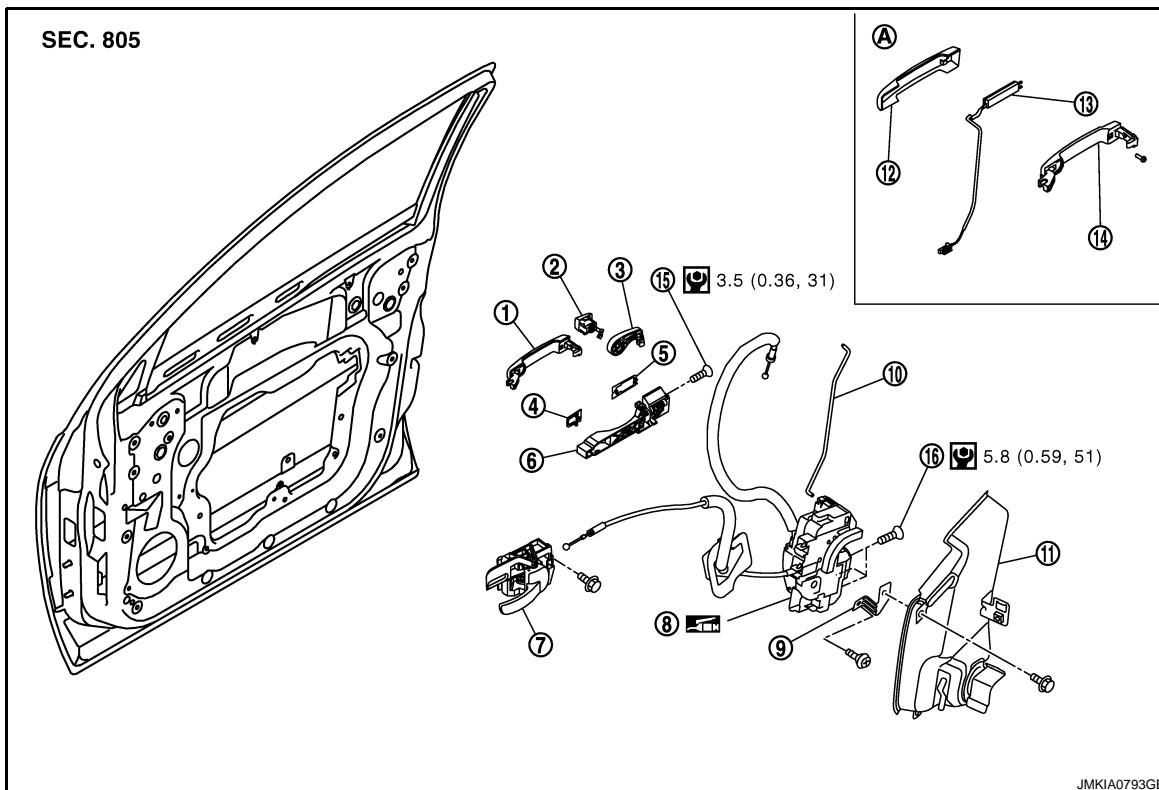
CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:000000001538549



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|----------------------------|-----------------------|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder | 3. Key cylinder lever |
| 4. Front gasket | 5. Rear gasket | 6. Outside handle bracket |
| 7. Inside handle | 8. Door lock assembly | 9. Key cylinder rod |

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FRONT DOOR LOCK

[WITHOUT I-KEY & SUPER LOCK]

< ON-VEHICLE REPAIR >

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|--|--|--------------------------|
| 10. Key rod protector(SUPER LOCK model only) | 11. Key rod protector assembly (SUPER LOCK and RH handle model only) | 12. Outside handle cover |
| 13. Antenna | 14. Outside handle base | 15. TORX bolt |
| 16. TORX bolt | | |
- A: Intelligent Key only

Refer to [GI-4. "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

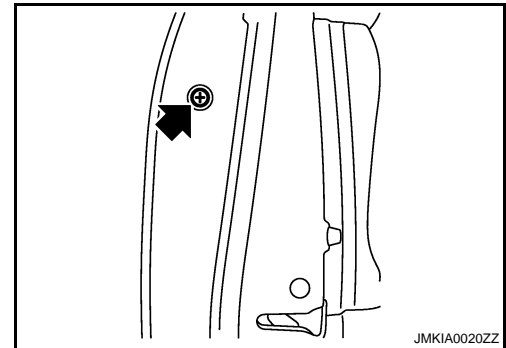
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REMOVAL

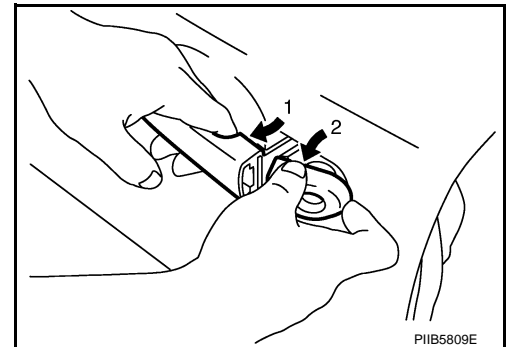
1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolt, and disconnect the inside handle knob cable and the lock knob cable.
3. Remove the front door glass. Refer to [GW-19. "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-22. "Removal and Installation"](#).
5. Disconnect the door antenna and the door request switch connector and remove the harness clamp (models with Intelligent Key system).
6. Remove the door side grommet, and loosen TORX bolt from the grommet hole.

CAUTION:

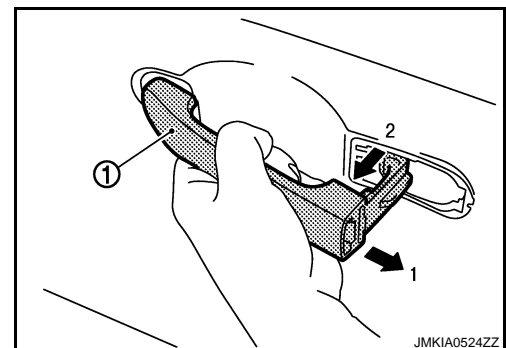
Do not forcibly remove the bolts .



7. Reach in to separate the key cylinder rod connection (on the handle).
8. Disconnect the door key cylinder switch harness connector.
9. Remove the key cylinder lever from the door key cylinder.
10. While pulling the outside handle, remove the door key cylinder assembly.



11. Disconnect the front door request switch harness connector (models with Intelligent Key system).
12. While pulling the outside handle (1), slide toward rear of vehicle to remove the outside handle.

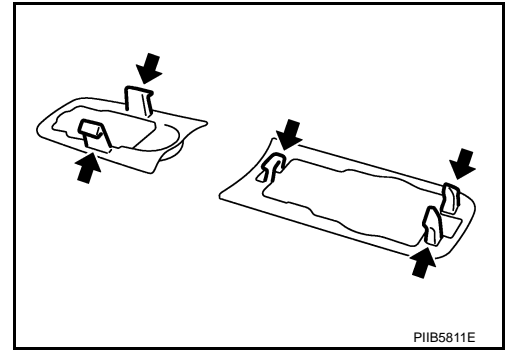


FRONT DOOR LOCK

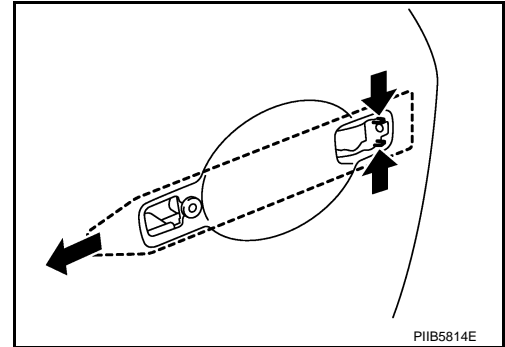
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

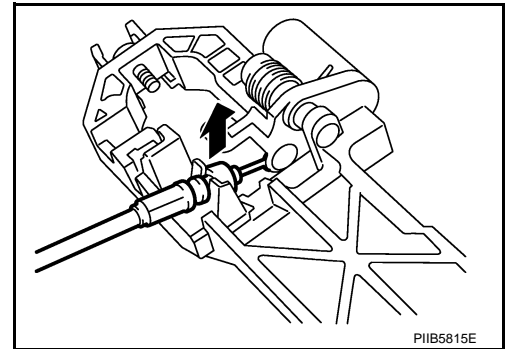
13. Remove the front gasket and rear gasket.



14. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



15. 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

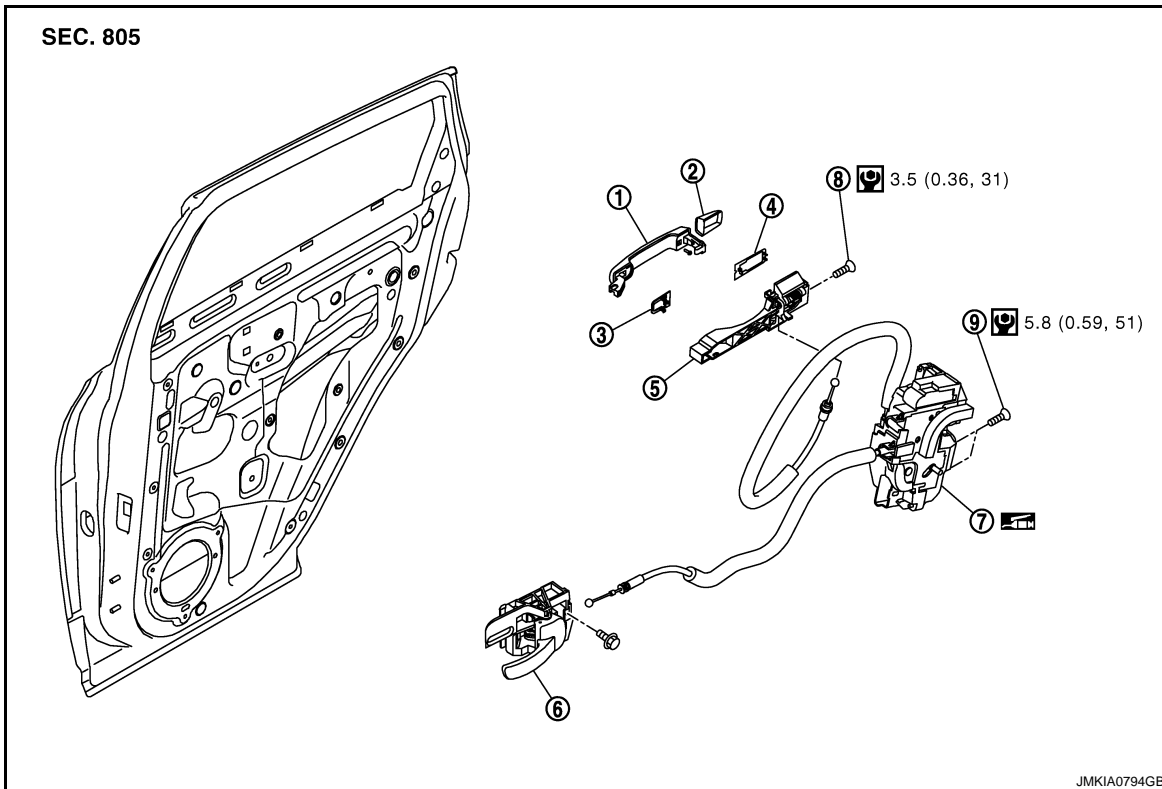
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

REAR DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001538551



- | | | |
|-----------------------|------------------------------|------------------|
| 1. Outside handle | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. Inside handle |
| 7. Door lock assembly | 8. TORX bolt | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

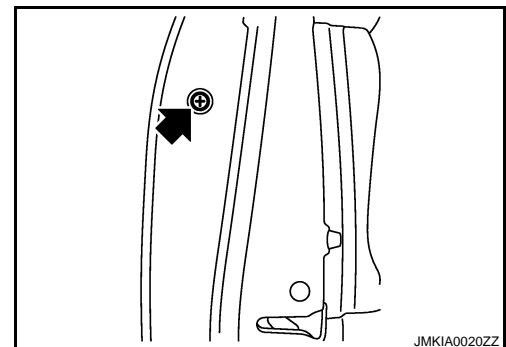
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REMOVAL

1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Fully close the front door window.
3. Remove the door sealing screen.
4. Remove the inside handle mounting bolt, and then disconnect the inside handle cable.
5. Remove the door side grommet, and loosen TORX bolt from the grommet hole.

CAUTION:

Do not forcibly remove the bolts.

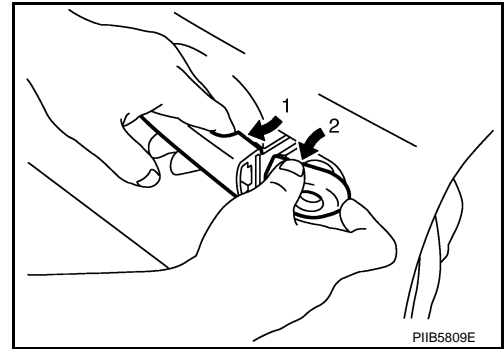


REAR DOOR LOCK

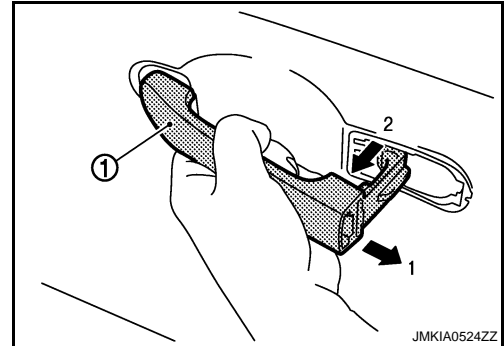
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

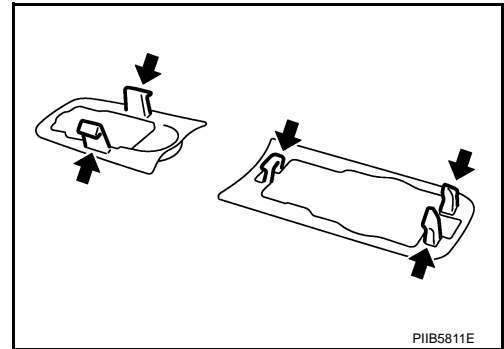
6. While pulling the outside handle, remove the door key cylinder assembly.



7. While pulling the outside handle (1), slide toward rear of vehicle to remove the outside handle.



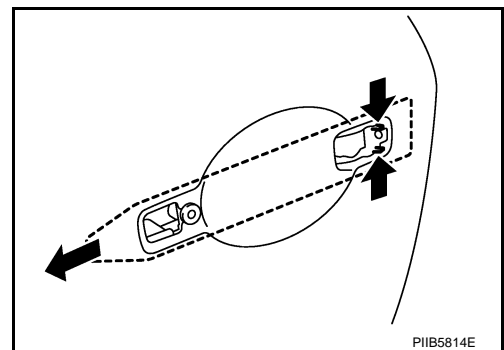
8. Remove the front gasket and the rear gasket.



9. Remove the door lock assembly TORX bolts.

10. Disconnect the door lock actuator connector, and then remove the door lock assembly.

11. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



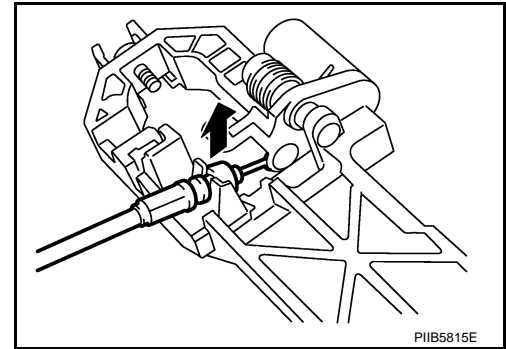
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REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

12. Reach in to separate the outside handle cable connection.



INSTALLATION

Install in the reverse order of removal.

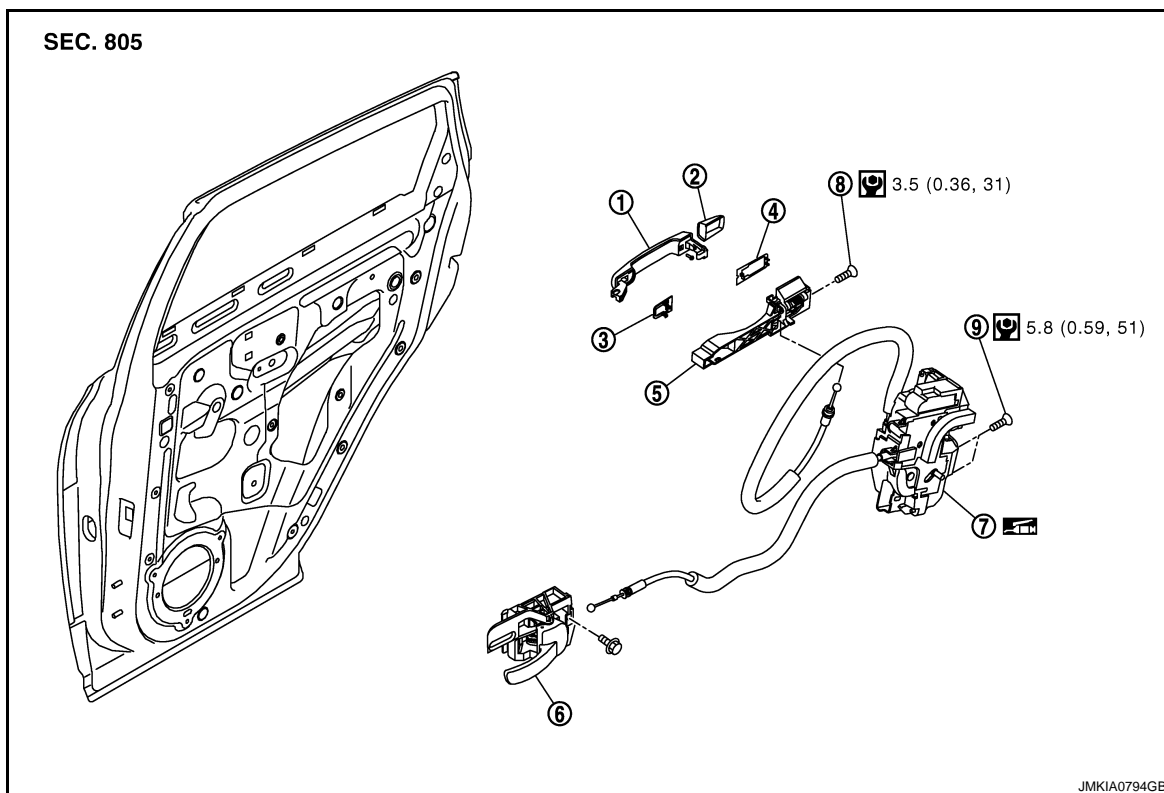
CAUTION:

- 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.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000001538554



- | | | |
|-----------------------|------------------------------|------------------|
| 1. Outside handle | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. Inside handle |
| 7. Door lock assembly | 8. TORX bolt | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001538555

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove the door sealing screen.

REAR DOOR LOCK

[WITHOUT I-KEY & SUPER LOCK]

< ON-VEHICLE REPAIR >

3. Remove the inside handle mounting bolt, and then disconnect the inside handle cable.
4. Remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

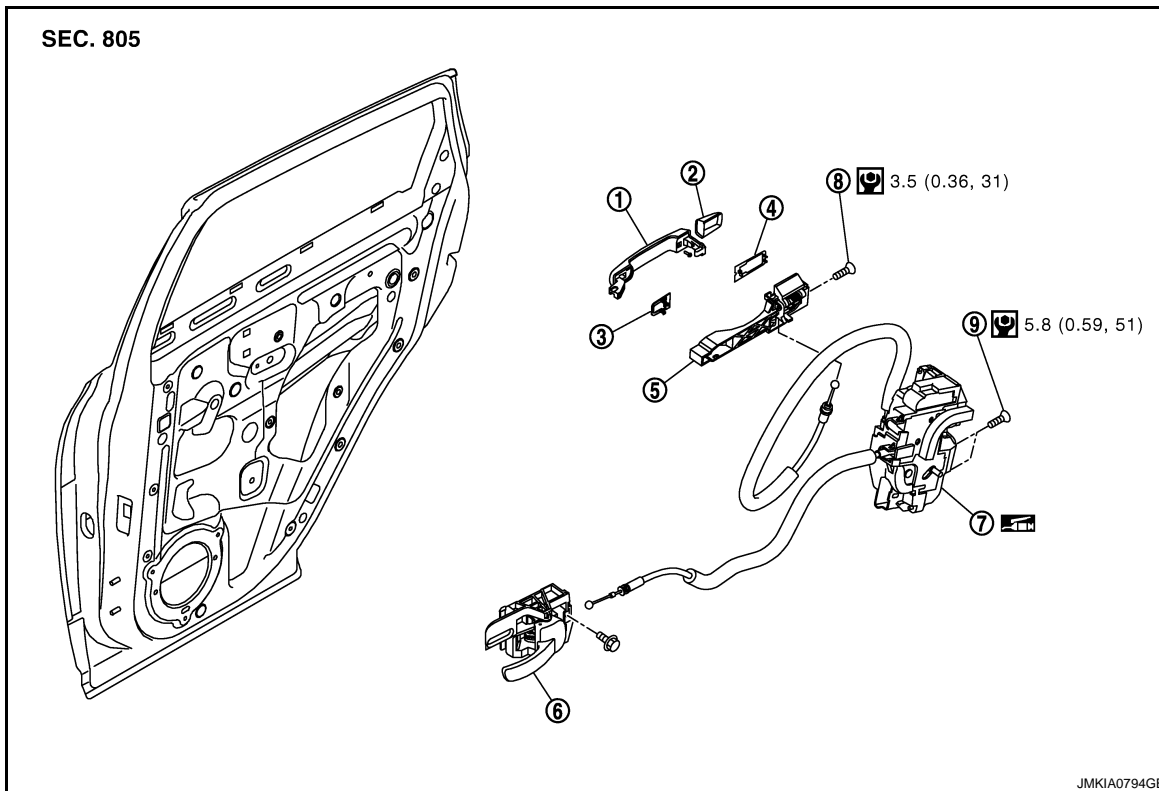
CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:000000001538557



- | | | |
|-----------------------|------------------------------|------------------|
| 1. Outside handle | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. Inside handle |
| 7. Door lock assembly | 8. TORX bolt | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

INFOID:000000001538558

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Fully close the front door window.
3. Remove the door sealing screen.
4. Remove the inside handle mounting bolt, disconnect the inside handle cable.

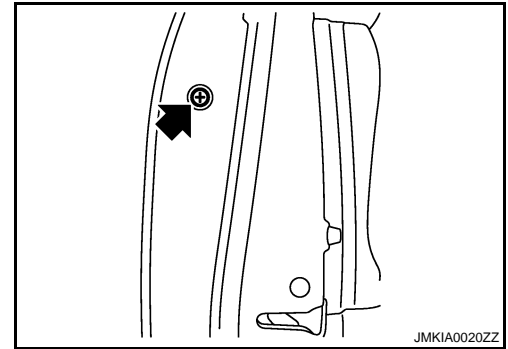
REAR DOOR LOCK

< ON-VEHICLE REPAIR >

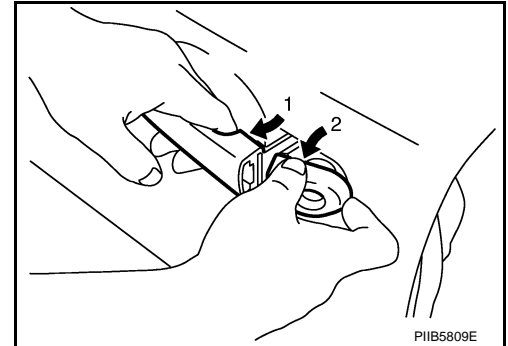
[WITHOUT I-KEY & SUPER LOCK]

5. Remove the door side grommet, and loosen TORX bolt from the grommet hole.

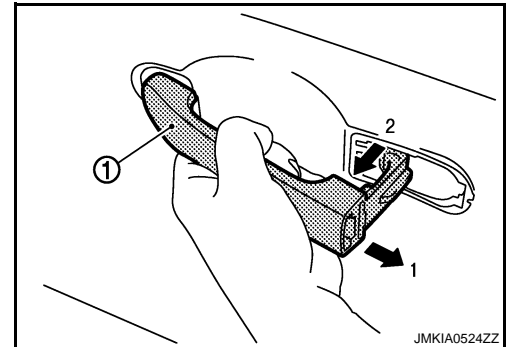
CAUTION:
Do not forcibly remove the bolts.



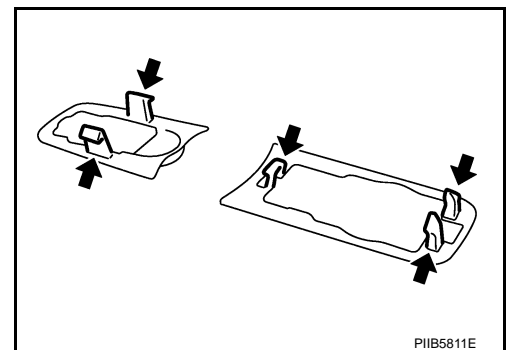
6. While pulling the outside handle, and then remove the door key cylinder assembly.



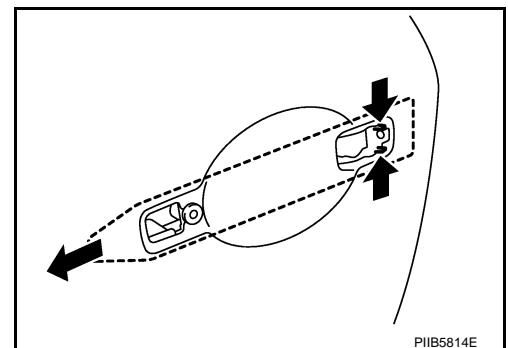
7. While pulling the outside handle (1), slide toward rear of vehicle to remove the outside handle.



8. Remove the front gasket and the rear gasket.



9. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.

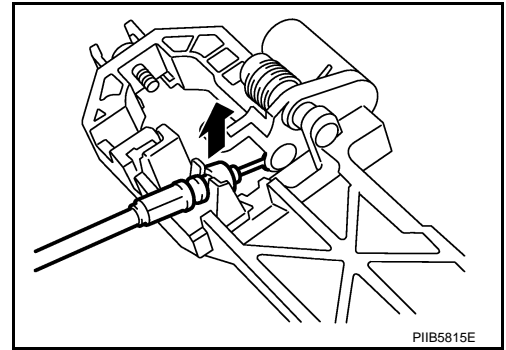


REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

10. Reach in to separate the outside handle cable connection.



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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BACK DOOR LOCK

< ON-VEHICLE REPAIR >

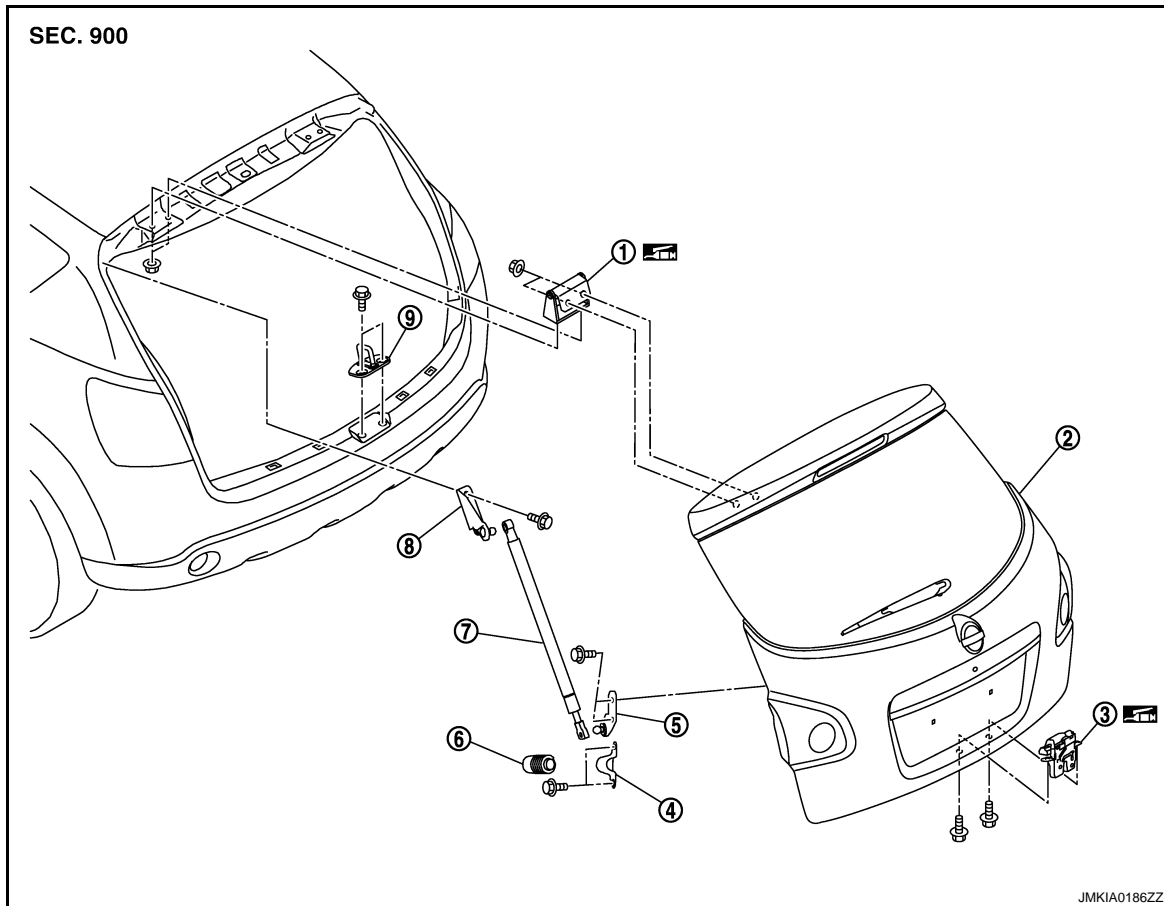
[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001538559



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001538560

REMOVAL

1. Remove the back door trim finisher lower. Refer to [INT-26. "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 >

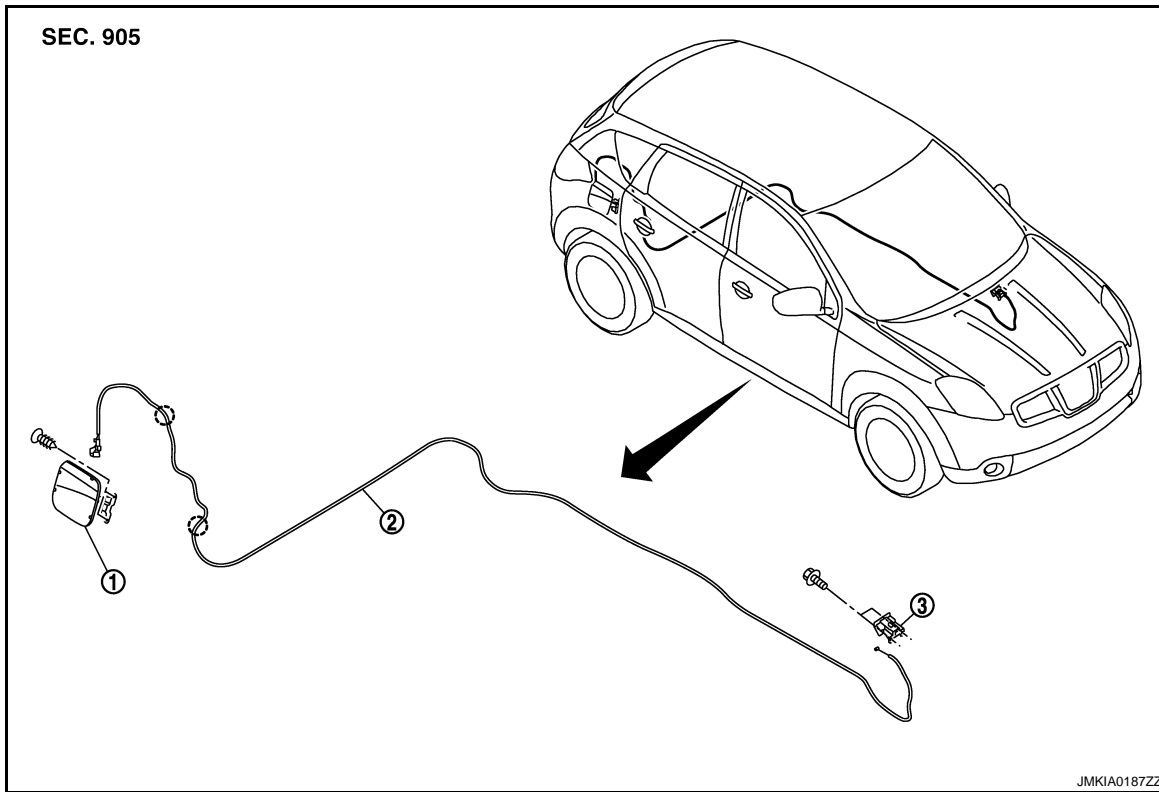
[WITHOUT I-KEY & SUPER LOCK]

FUEL FILLER LID OPENER

FUEL FILLER LID

FUEL FILLER LID : Exploded View

INFOID:000000001538561



1. Fuel filler lid assembly

2. Fuel filler opener cable

3. Fuel opener lever

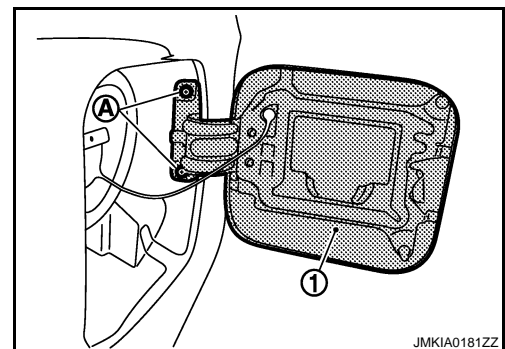
○ : Clip

FUEL FILLER LID : Removal and Installation

INFOID:000000001538562

REMOVAL

1. Fully open the fuel filler lid.
2. Remove the filler cap.
3. Remove the mounting screws (A), and then remove the fuel filler lid (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, apply the touch-up paint (the body color) onto the head of the mounting screws.

FUEL FILLER OPENER CABLE

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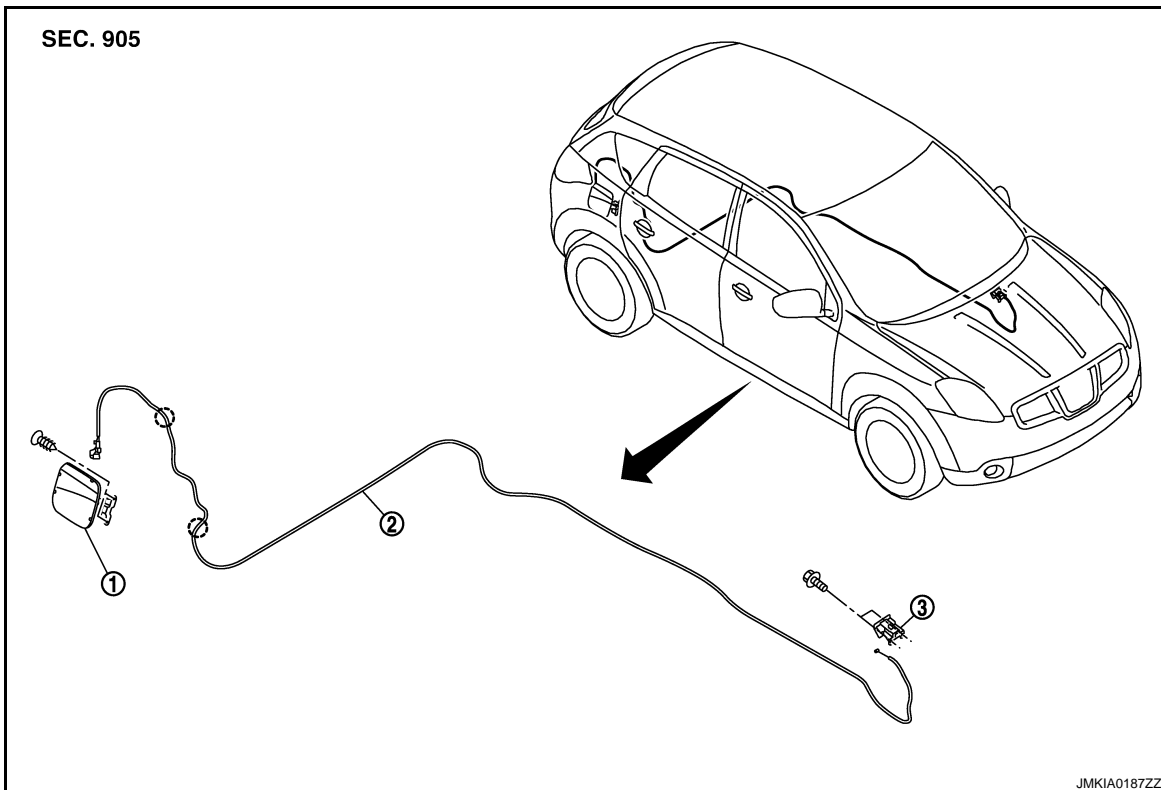
FUEL FILLER LID OPENER

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

FUEL FILLER OPENER CABLE : Exploded View


INFOID:000000001538564



1. Fuel filler lid assembly

2. Fuel filler opener cable

3. Fuel opener lever

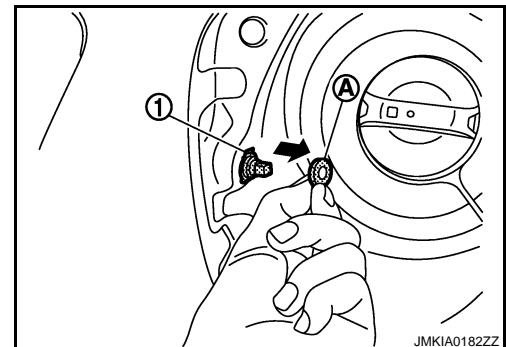
 : Clip

FUEL FILLER OPENER CABLE : Removal and Installation

INFOID:000000001538565

REMOVAL

1. Remove the rear seat cushion, rear seatback, seatback lower support, and seatback mounting outer bracket. Refer to [SE-21. "Removal and Installation"](#).
2. Remove the dash side finisher, front kicking plate inner, rear kicking plate inner, center pillar lower garnish, and luggage side lower finisher (front). Refer to [INT-14. "Removal and Installation"](#).
3. Remove the parcel shelf, luggage floor carpet, luggage floor spacer, luggage rear plate, luggage side lower finisher, and rear pillar finisher. Refer to [INT-24. "Removal and Installation"](#).
4. Remove the fuel filler lock seal (A) from fuel filler opener cable (1).

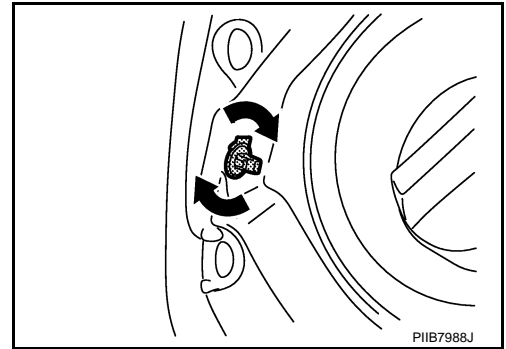


FUEL FILLER LID OPENER

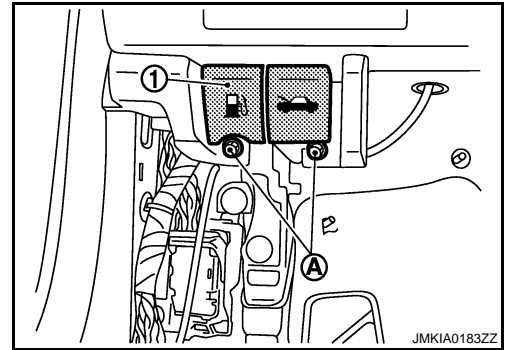
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

5. Rotate the fuel filler lock, and then remove the fuel filler lock.



6. Remove the fuel filler opener cable mounting clips and the clamps.
7. Remove the mounting bolts (A), and then remove the fuel filler lid opener lever (1).



8. Remove the fuel filler opener cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the fuel filler lid open/close operation after installation.

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DLK

DOOR SWITCH

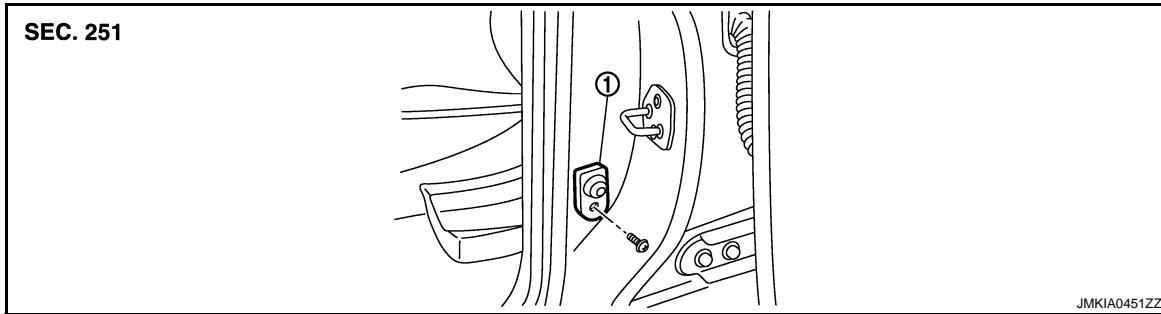
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

DOOR SWITCH

Exploded View

INFOID:000000001184350



1. Door switch (driver side)

Refer to [DLK-873. "Removal and Installation"](#).

Removal and Installation

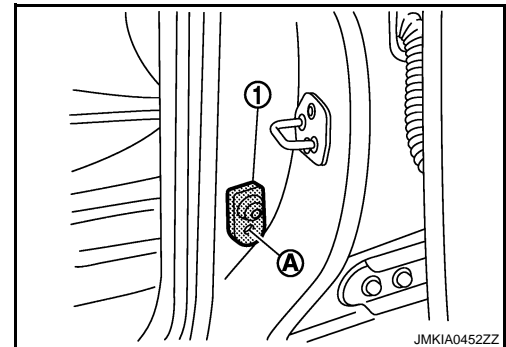
INFOID:000000001184351

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.

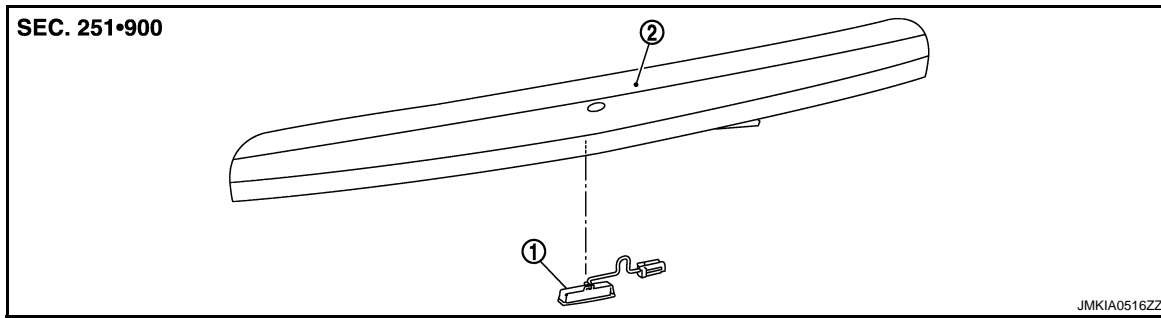
BACK DOOR OPENER SWITCH

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

BACK DOOR OPENER SWITCH

Exploded View



1. Back door opener switch
2. Back door finisher

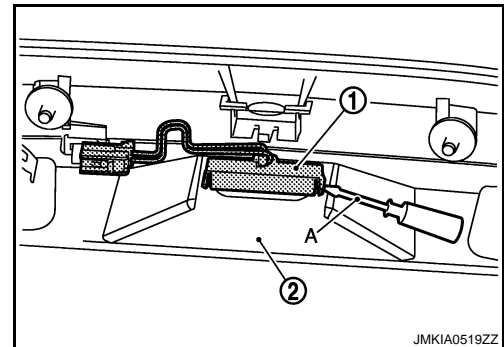
Refer to [DLK-707, "Removal and Installation"](#).

Removal and Installation

INFOID:000000001184353

REMOVAL

1. Remove the back door finisher.
Refer to [EXT-31, "Exploded View"](#) and [EXT-31, "Removal and Installation"](#).
2. Remove the back door opener switch (1) from back door finisher (2) using flat-bladed screw driver (A) etc.



INSTALLATION

Install in the reverse order of removal.

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KEYFOB

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY & SUPER LOCK]

KEYFOB

Exploded View

INFOID:000000001184354

Refer to [DLK-708. "Removal and Installation"](#).

Removal and Installation

INFOID:000000001184355

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:

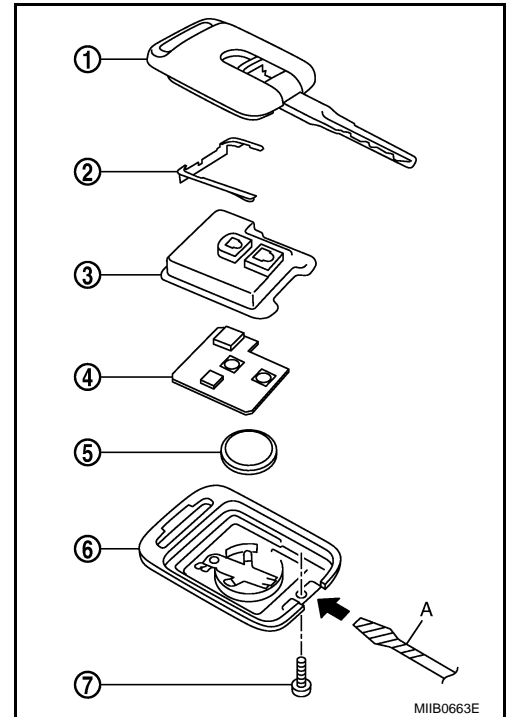
When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.

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-609. "Component Function Check"](#).



INSTALLATION

Install in the reverse order of removal.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT I-KEY, WITH SUPER LOCK]

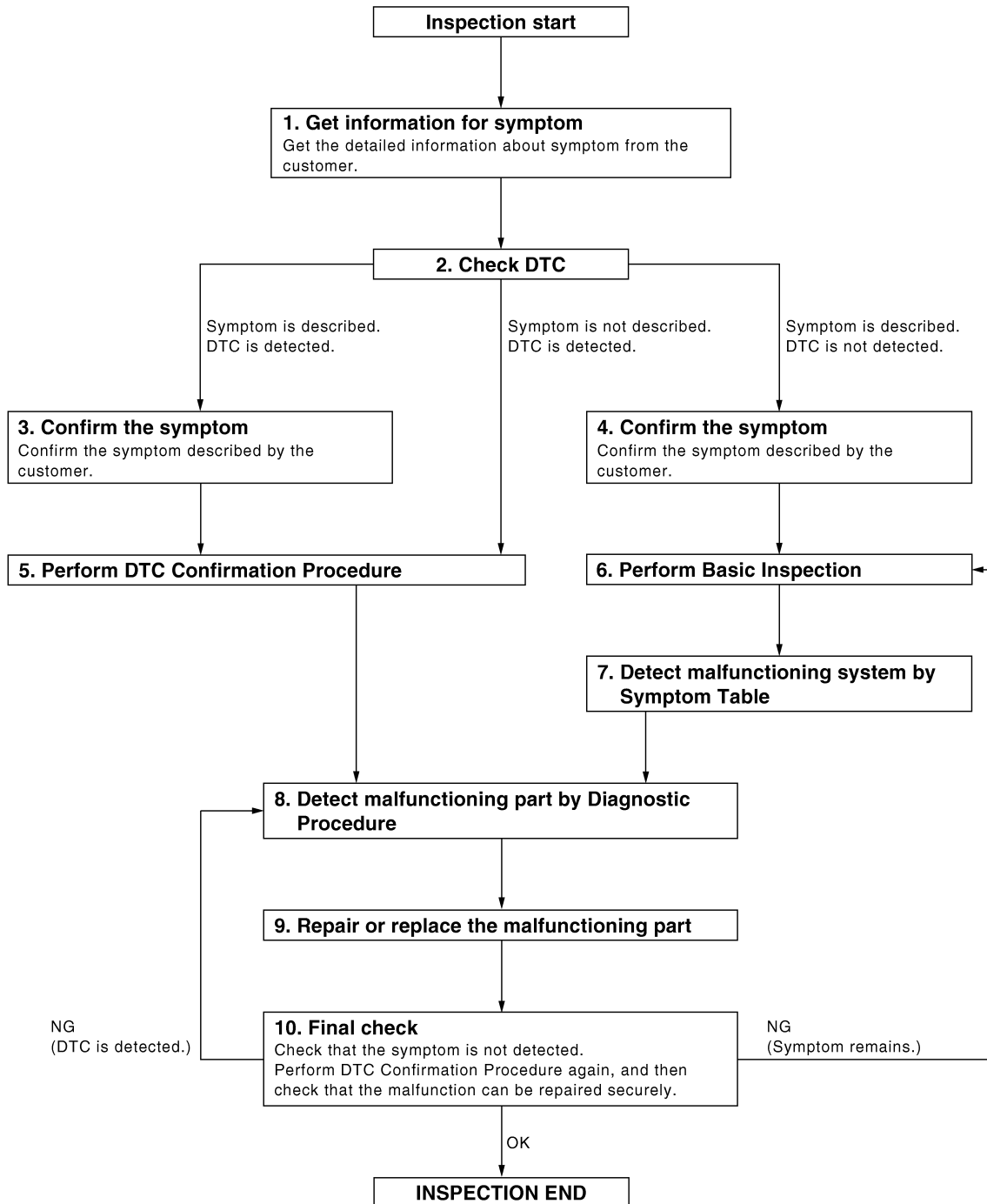
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:000000001184356

OVERALL SEQUENCE



DETAILED FLOW

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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-808, "DTC Inspection Priority Chart"](#) and determine trouble diagnosis order.

Is DTC detected?

- YES >> GO TO 8.
- NO >> Refer to [GI-39, "Intermittent Incident"](#).

6.PERFORM BASIC INSPECTION

Perform Basic Inspection, refer to [DLK-824, "Basic Inspection"](#).

Inspection End>>GO TO 7.

7.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

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

>> GO TO 8.

8.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:

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

>> GO TO 9.

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT I-KEY, WITH SUPER LOCK]

9. 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.

>> GO TO 10.

10. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely.

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

Does the symptom reappear?

YES (DTC is detected)>>GO TO 8.

YES (Symptom remains)>>GO TO 6.

NO >> **INSPECTION END**

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INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[WITHOUT I-KEY, WITH SUPER LOCK]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000001184357

Perform the system initialization when replacing or registering Keyfob and ignition key.

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:000000001184358

Refer to the CONSULT-III Operation Manual-NATS.

DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

FUNCTION DIAGNOSIS

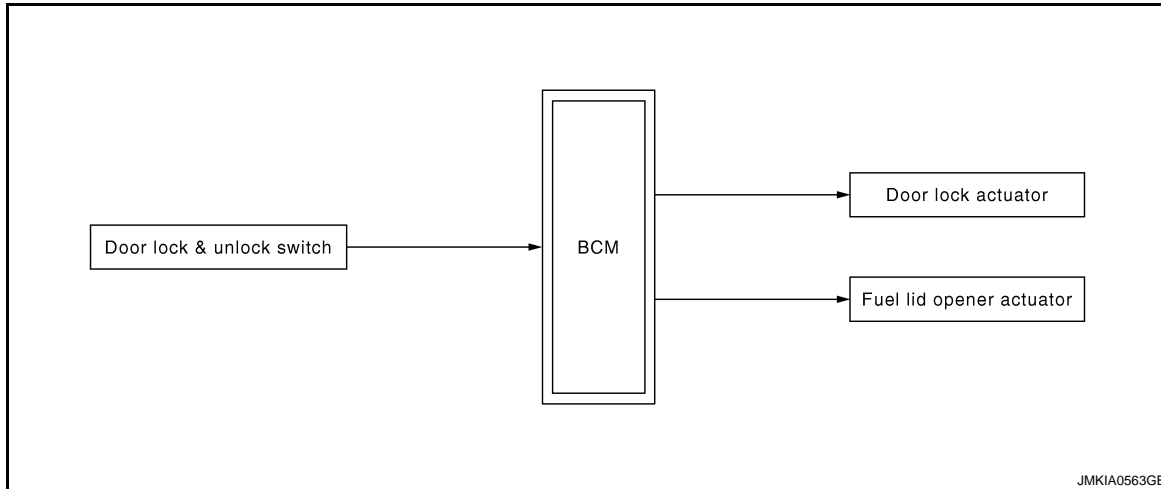
DOOR LOCK FUNCTION

DOOR LOCK AND UNLOCK SWITCH

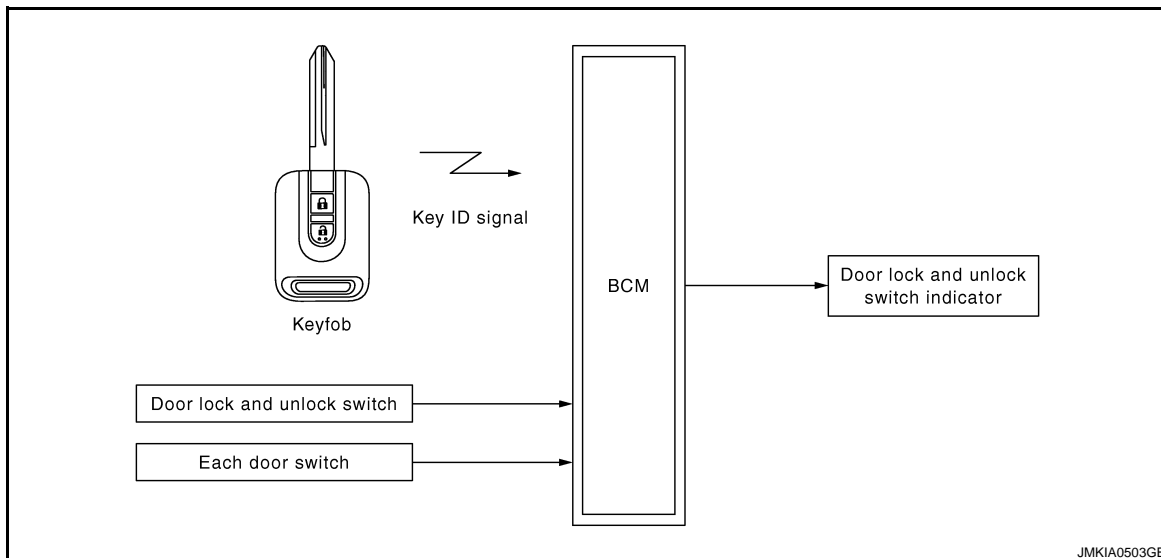
DOOR LOCK AND UNLOCK SWITCH : System Diagram

INFOID:000000001184359

DOOR LOCK AND UNLOCK SWITCH OPERATION



DOOR LOCK AND UNLOCK SWITCH INDICATOR OPERATION



DOOR LOCK AND UNLOCK SWITCH : System Description

INFOID:000000001184360

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 satisfied, door lock/unlock operation can be performed when the door lock and unlock switch is operated.

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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 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.

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. If any door is opened, the indicator will turn OFF.

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

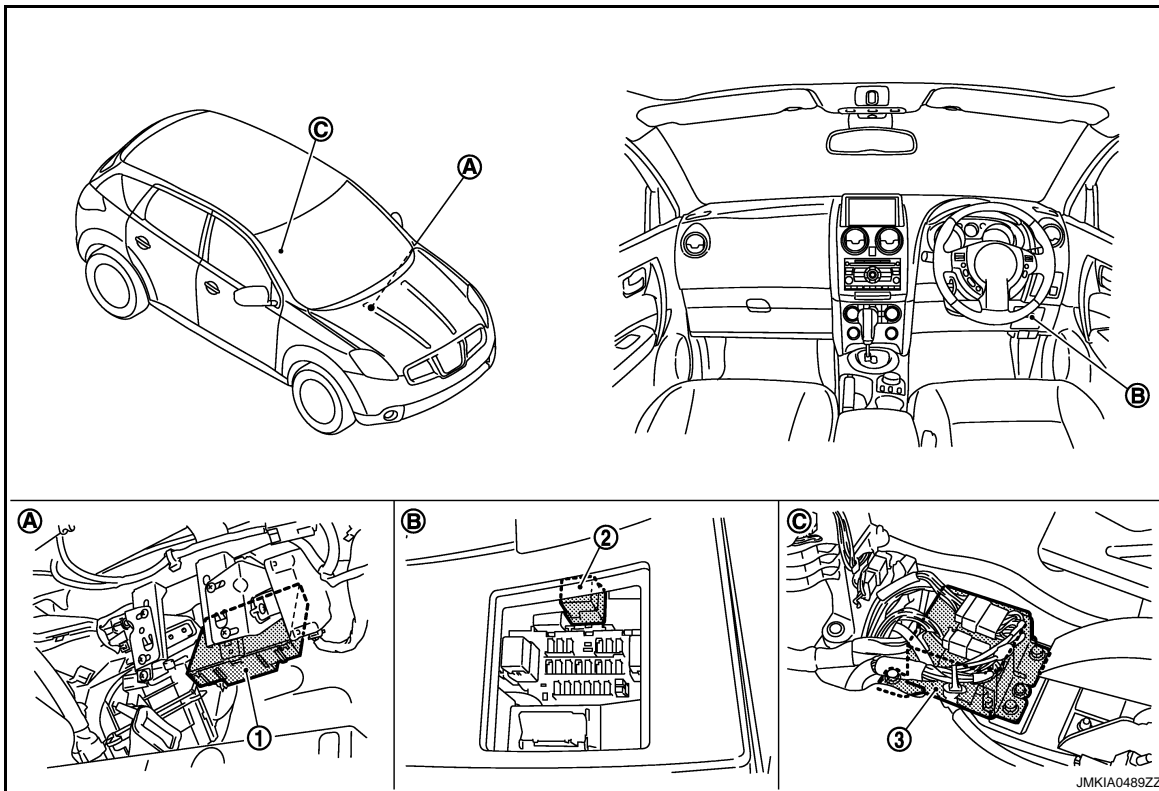
A timer must be running to turn OFF the indicator. The timer will run for 30 minutes after locking with door lock and unlock switch.

NOTE:

1 minute 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:000000001184361



- 1. BCM
M65, M66, M67
- A. Over the glove box

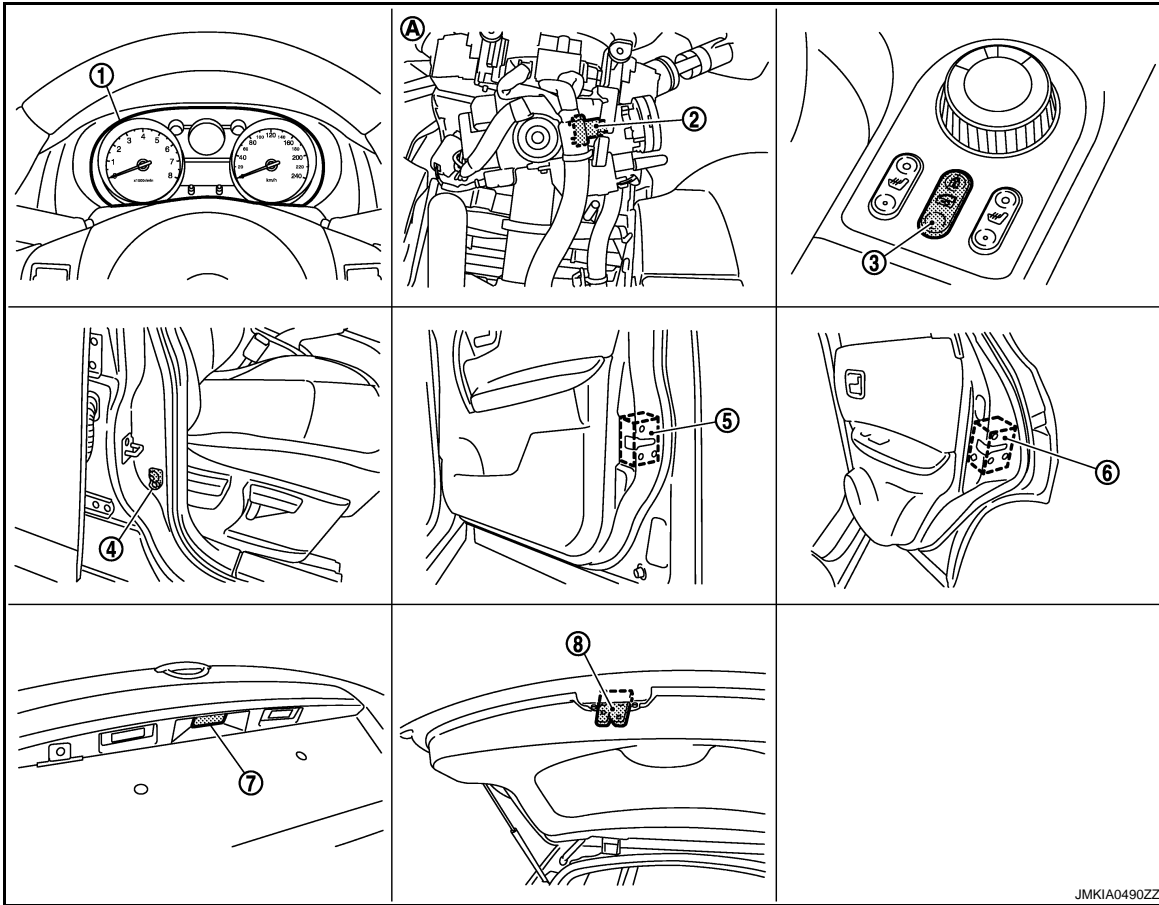
- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 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
M24 | 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
D152 | |
- A. View with steering column cover removed

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DOOR LOCK AND UNLOCK SWITCH : Component Description

INFOID:000000001184362

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

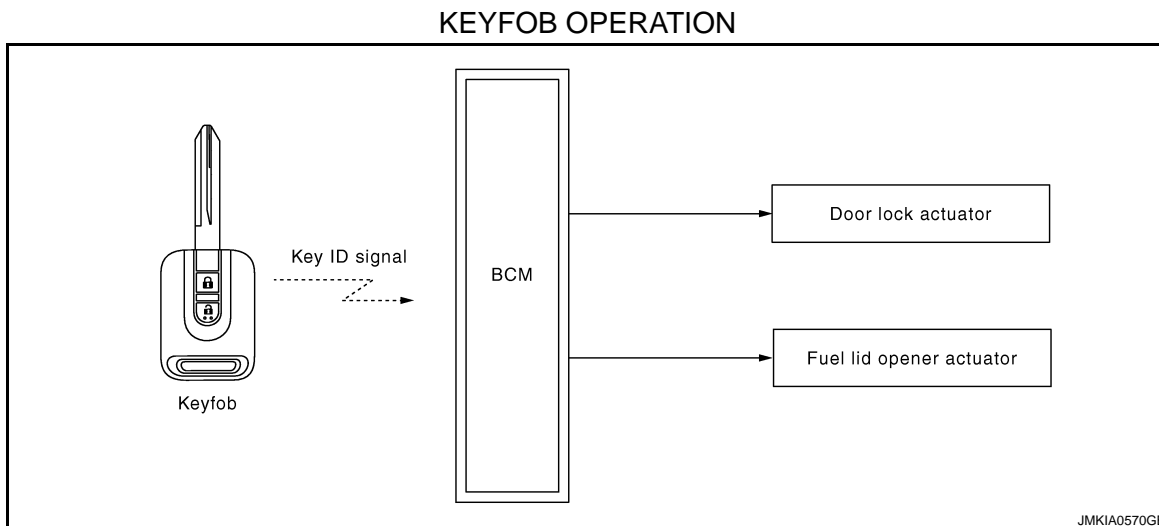
DOOR LOCK FUNCTION

[WITHOUT I-KEY, WITH SUPER LOCK]

< FUNCTION DIAGNOSIS >

KEYFOB : System Diagram

INFOID:000000001184363



KEYFOB : System Description

INFOID:000000001184364

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 5m range of the vehicle, 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 CONTROL WITH ANTI-HIJACK MODE

- Super lock provides a higher anti-theft performance than a conventional power door lock system. The super lock system is controlled by BCM.
- When door lock is unlocked, pressing LOCK button on keyfob once will lock and super lock set all doors. When super lock is set, pressing UNLOCK button on keyfob once will unlock (and super lock release) driver side door and super lock release all other doors. Pressing UNLOCK button on keyfob 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-735, "DOOR LOCK : CONSULT-III Function \(BCM - DOOR LOCK\)".](#)

*: The factory setting

SUPER LOCK CONTROL WITHOUT ANTI-HIJACK MODE

When door lock is unlocked, pressing LOCK button on keyfob once will lock and super lock set all doors. When all doors are set to super lock, pressing UNLOCK button on keyfob will unlock all doors and super lock release 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-735, "DOOR LOCK : CONSULT-III Function \(BCM - DOOR LOCK\)".](#)

*: The factory setting

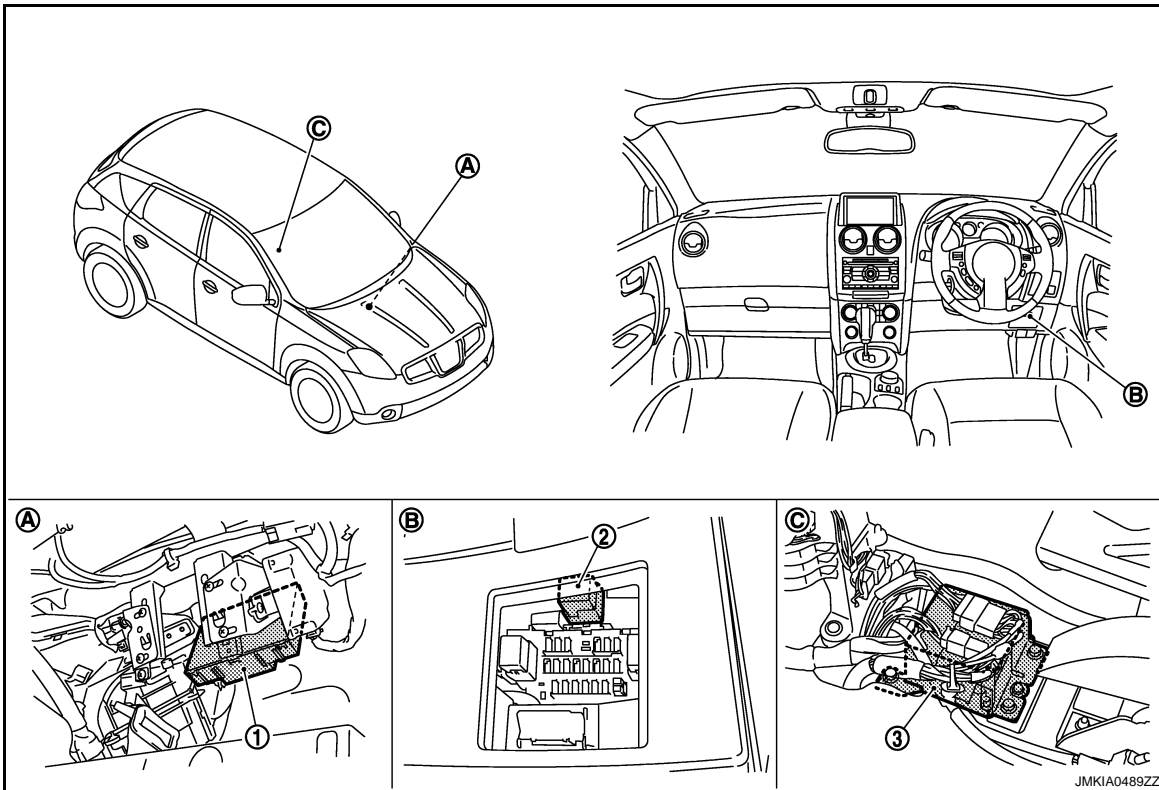
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

KEYFOB : Component Parts Location

INFOID:000000001184365



- 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

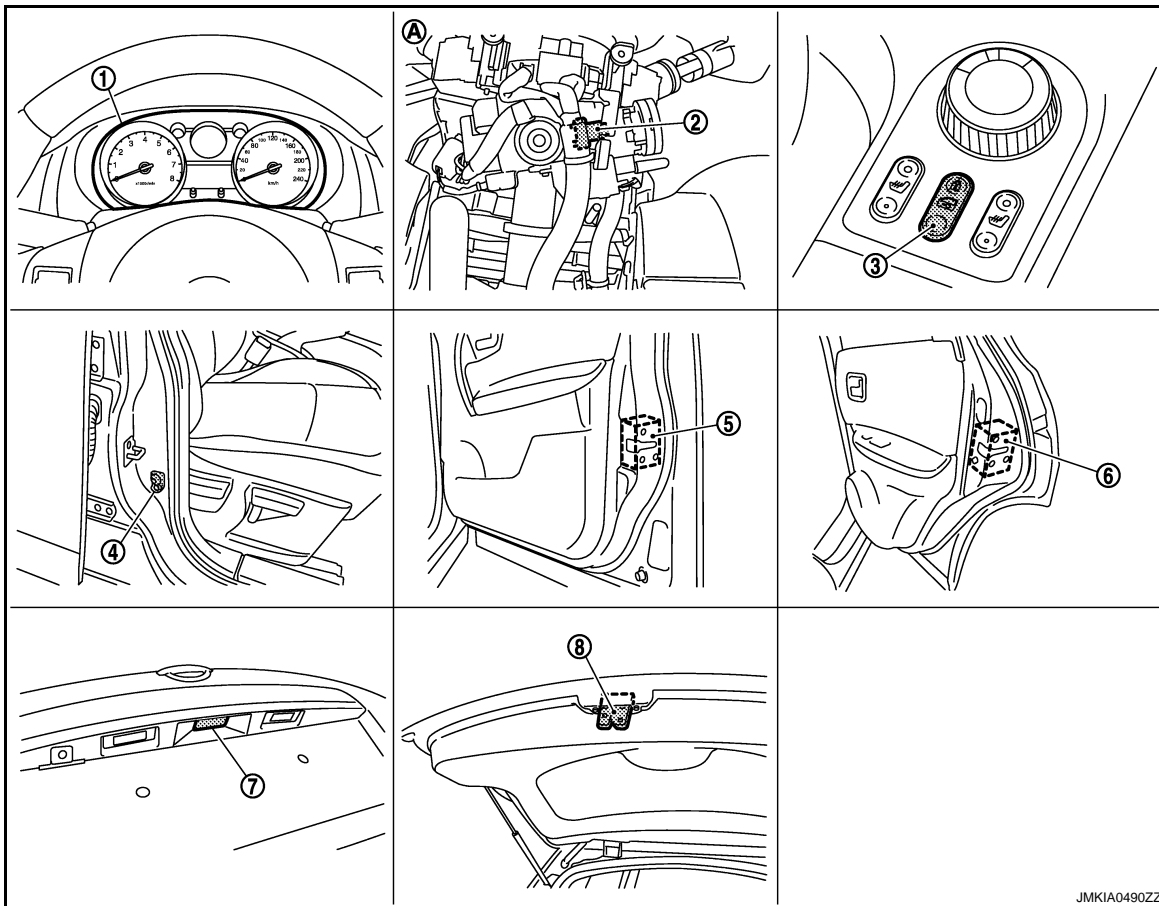
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DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]



- | | | |
|---|--|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M24 | 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
D152 | |
- A. View with steering column cover removed

KEYFOB : Component Description

INFOID:000000001184366

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

DOOR LOCK FUNCTION

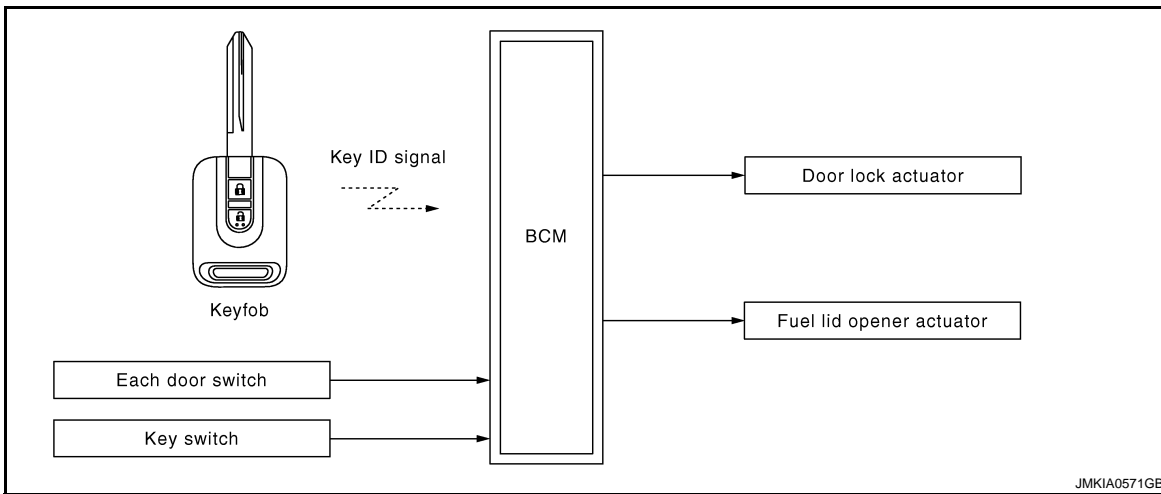
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

AUTO DOOR LOCK : System Diagram

INFOID:000000001184367

AUTO RELOCK OPERATION



AUTO DOOR LOCK : System Description

INFOID:000000001184368

AUTO RELOCK OPERATION

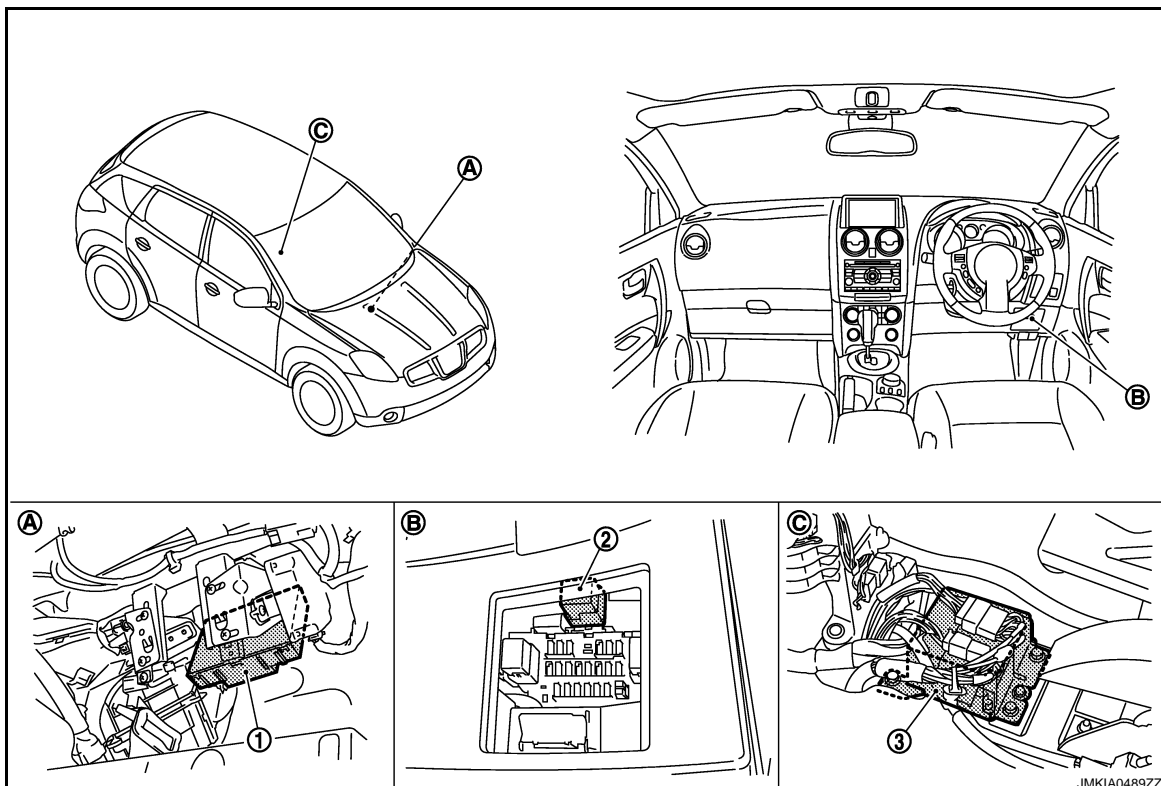
When all doors are locked and then doors are unlocked with keyfob, if BCM does not receive the following signal within 2 minutes^{*1}, all doors are automatically locked.

- 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-737. "MULTIREMOTE ENT : CONSULT-III Function \(BCM - MULTIREMOTE ENT\)"](#).

AUTO DOOR LOCK : Component Parts Location

INFOID:000000001184369



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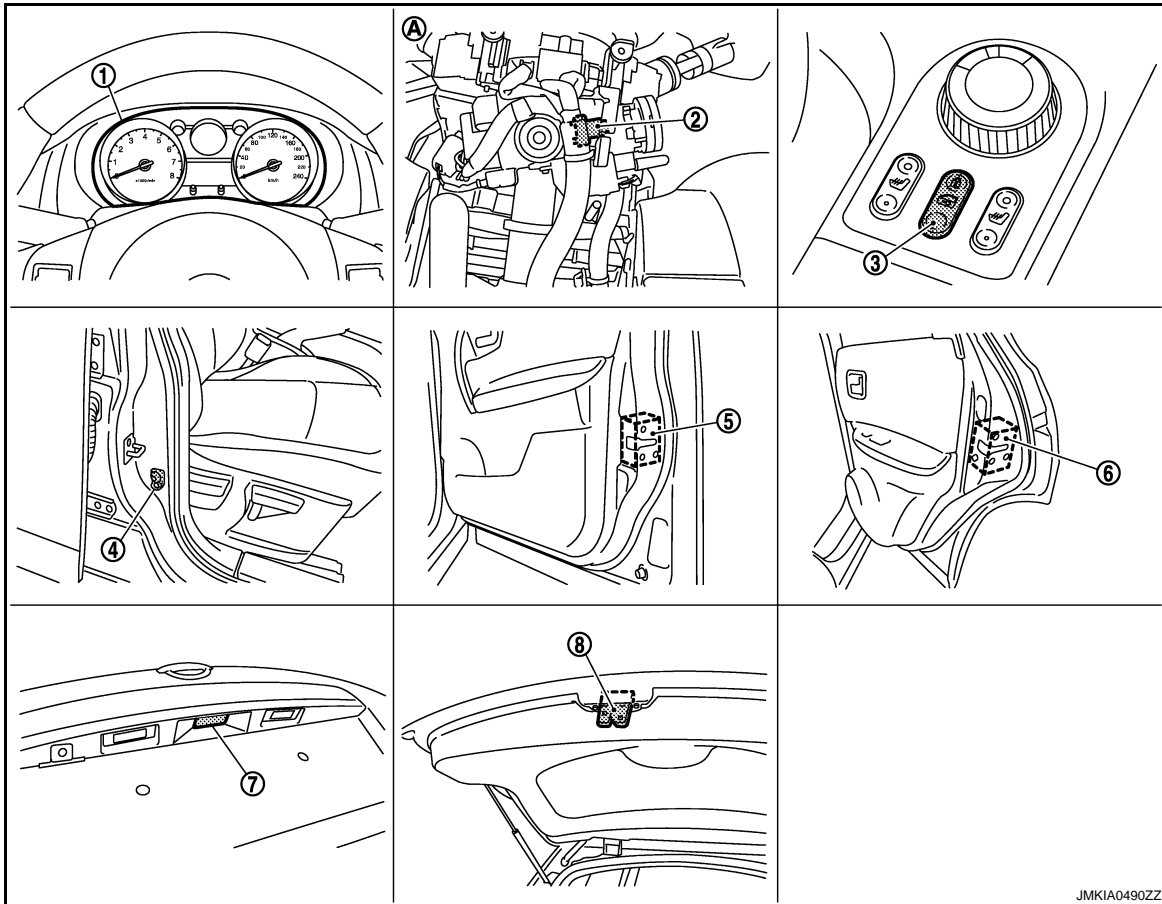
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DOOR LOCK FUNCTION

[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 |



JMKIA0490ZZ

- | | | |
|--|--|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M24 | 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
D152 | |
| A. View with steering column cover removed | | |

AUTO DOOR LOCK : Component Description

INFOID:000000001184370

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

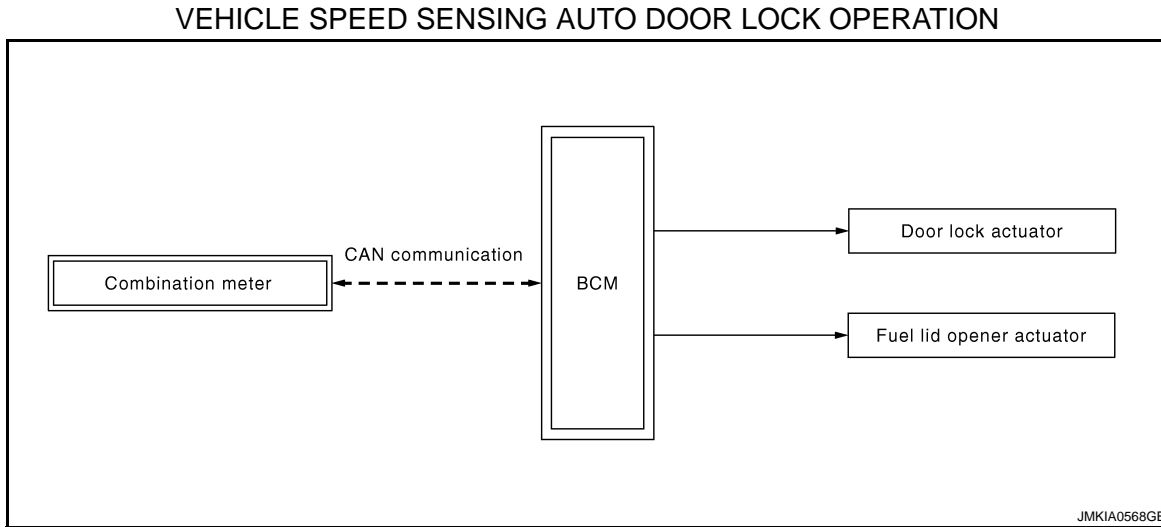
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

VEHICLE SPEED SENSING AUTO DOOR LOCK : System Diagram

INFOID:000000001184371



VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description

INFOID:000000001184372

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.

CHANGE SETTING PROCEDURE

Vehicle speed sensing auto door lock function can be enabled/disabled with door lock and unlock switch.

1. Turn ignition switch ON.
2. Press and hold door lock/unlock switch (LOCK) for 5 seconds within 2 seconds after turn ignition switch ON.
3. Buzzer sounds for 1 second.

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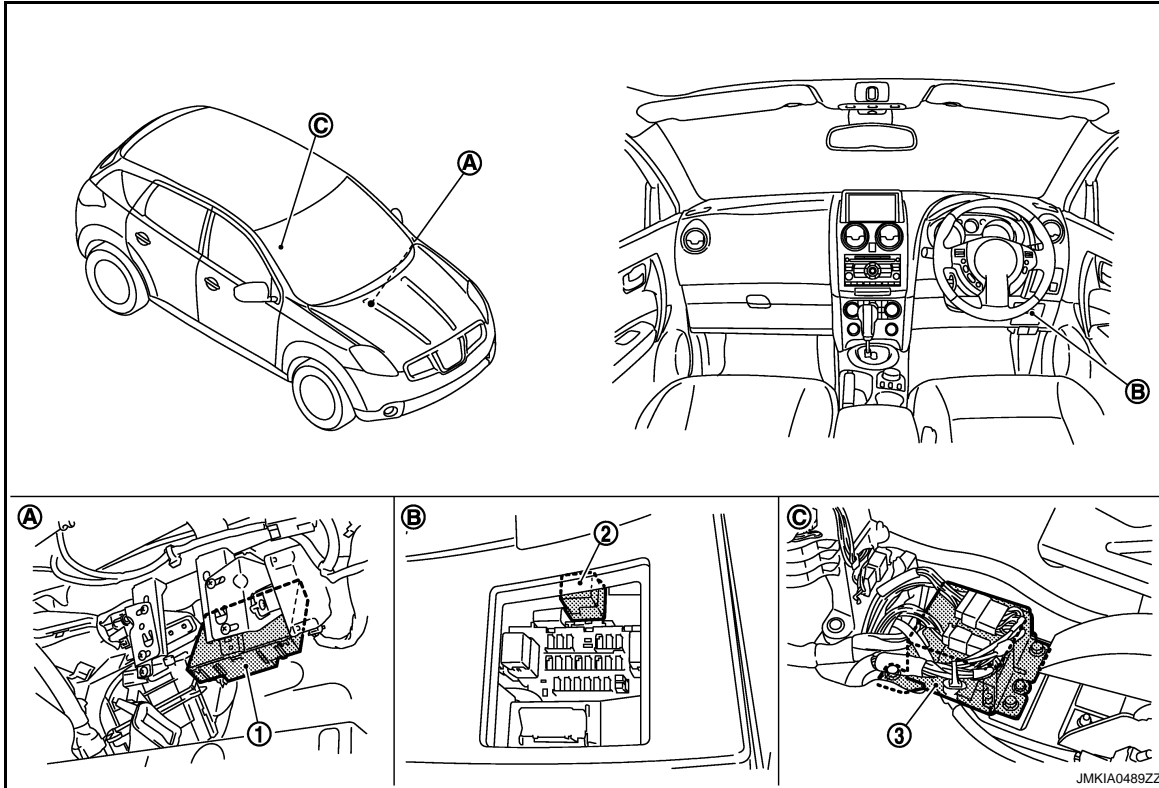
DOOR LOCK FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Parts Location

INFOID:000000001184373



- 1. BCM
M65, M66, M67
- A. Over the glove box

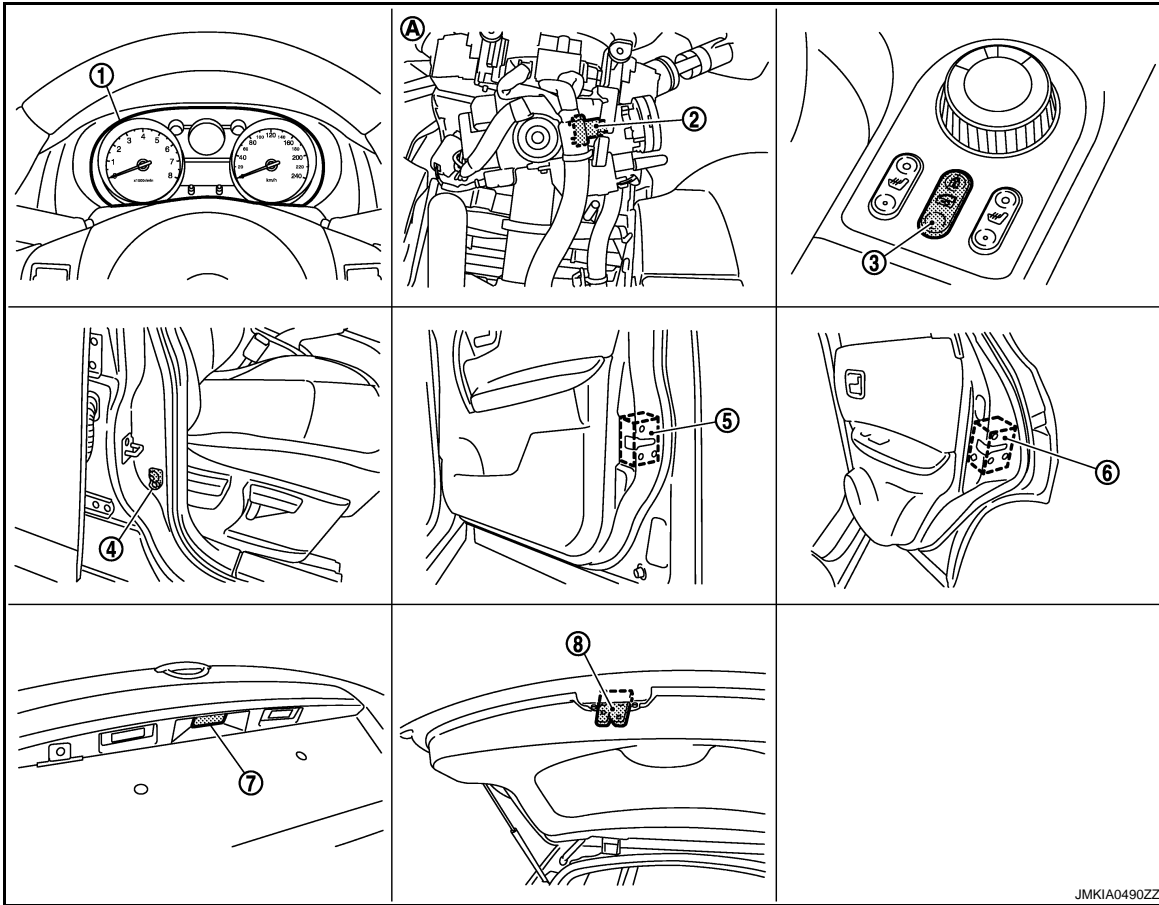
- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 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
M24 | 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
D152 | |
| A. View with steering column cover removed | | |

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VEHICLE SPEED SENSING AUTO DOOR LOCK : Component Description

INFOID:000000001184374

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.

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AIR BAG INTERLOCK UNLOCK

DOOR LOCK FUNCTION

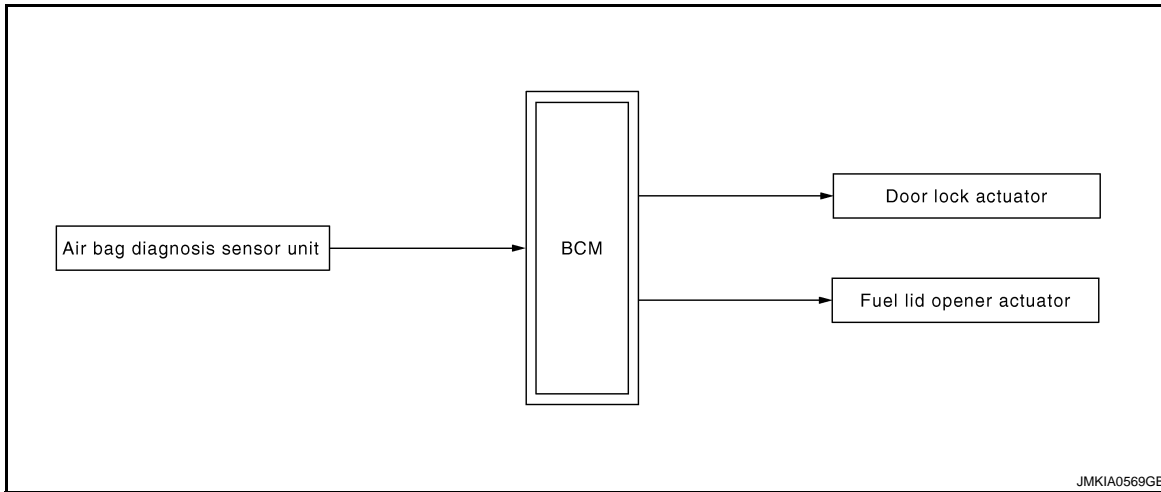
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

AIR BAG INTERLOCK UNLOCK : System Diagram

INFOID:000000001184375

AIR BAG INTERLOCK UNLOCK OPERATION



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AIR BAG INTERLOCK UNLOCK : System Description

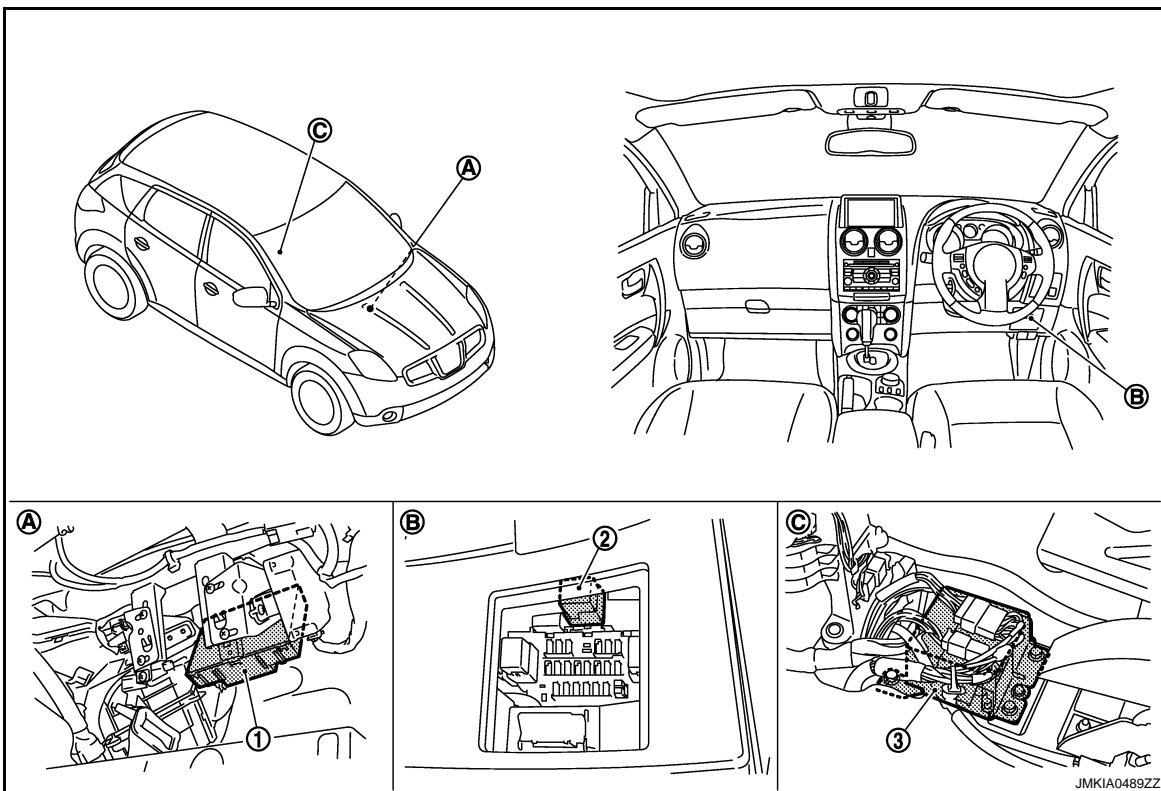
INFOID:000000001184376

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:000000001184377



JMKIA0489ZZ

- 1. BCM
M65, M66, M67
- A. Over the glove box

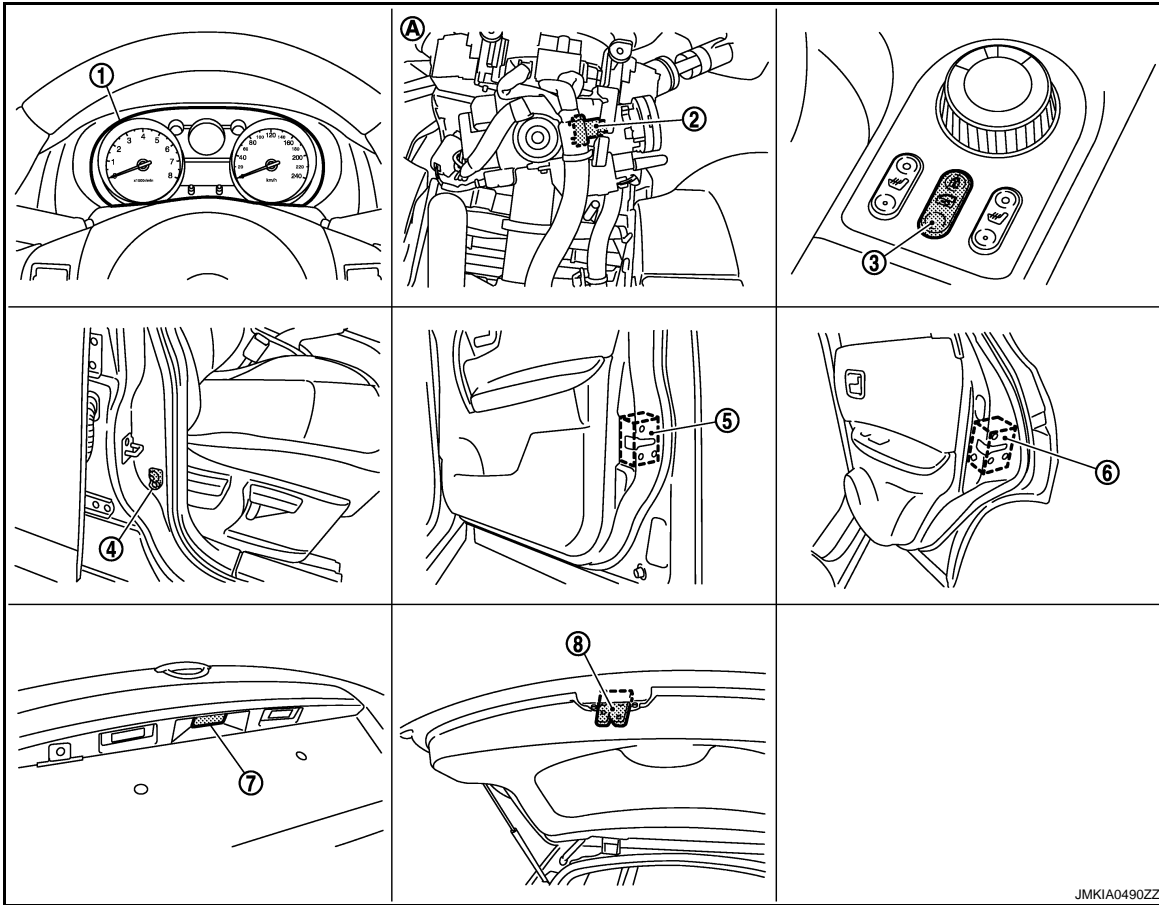
- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 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
M24 | 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
D152 | |
- A. View with steering column cover removed

AIR BAG INTERLOCK UNLOCK : Component Description

INFOID:000000001184378

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.

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BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

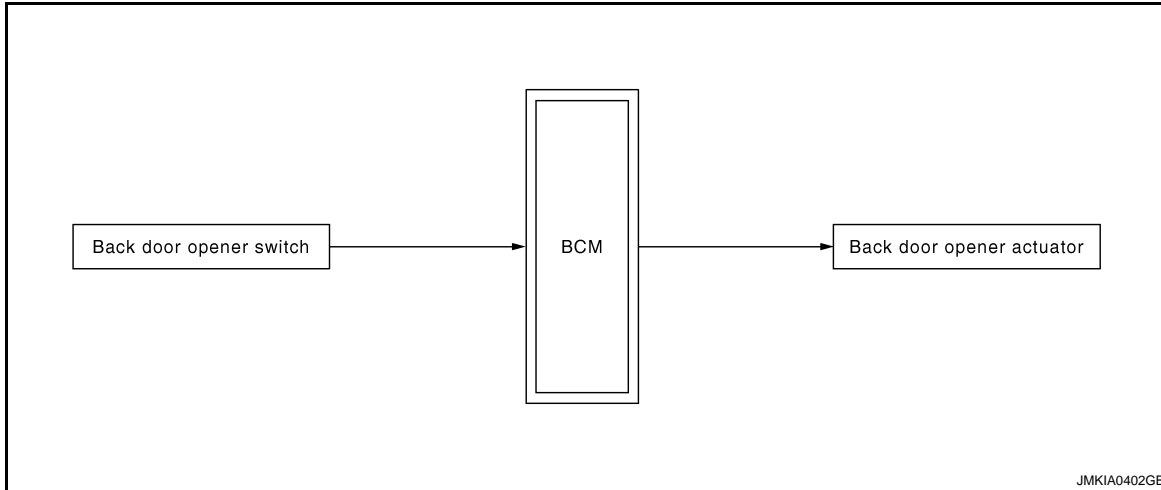
BACK DOOR OPENER FUNCTION

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : System Diagram

INFOID:000000001184379

BACK DOOR OPENER OPERATION



BACK DOOR OPENER SWITCH : System Description

INFOID:000000001184380

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 satisfied, back door opener operation can be 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.

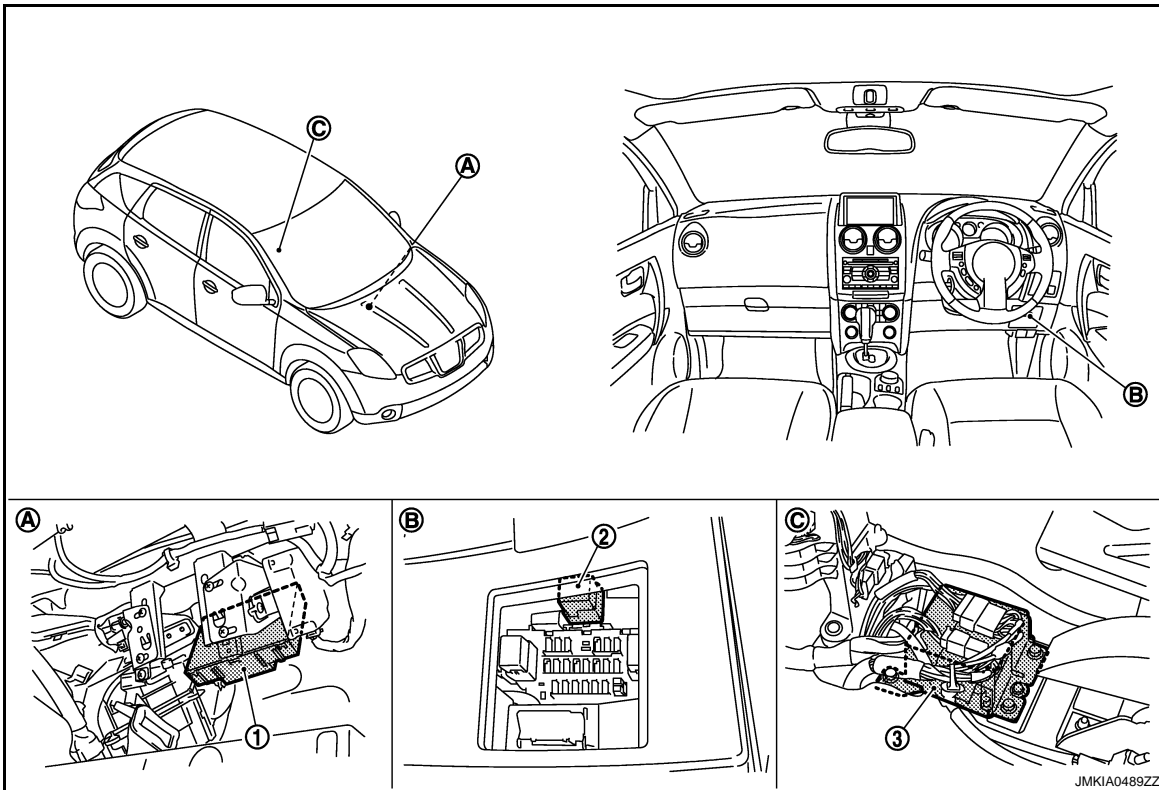
BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR OPENER SWITCH : Component Parts Location

INFOID:000000001184381



- 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

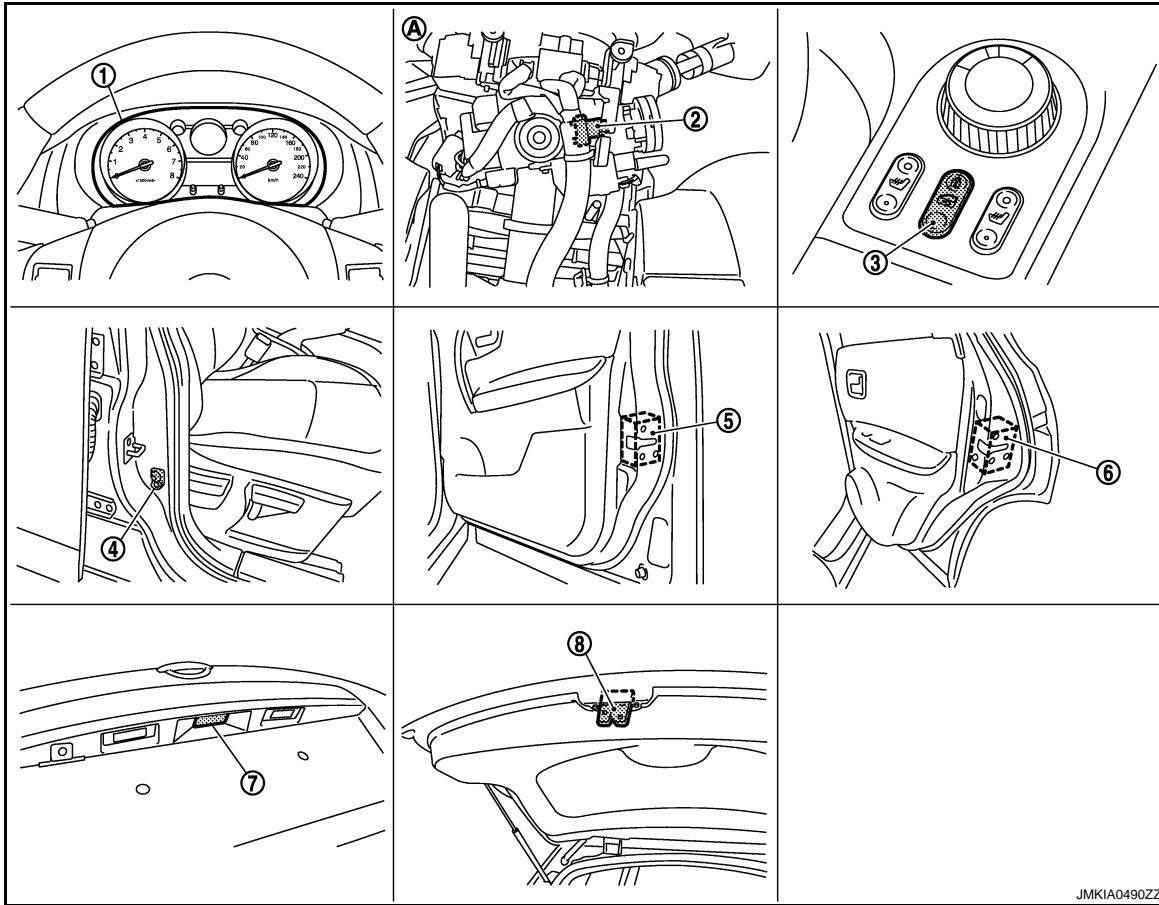
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BACK DOOR OPENER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]



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|---|--|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M24 | 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
D152 | |
- A. View with steering column cover removed

BACK DOOR OPENER SWITCH : Component Description

INFOID:000000001184382

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

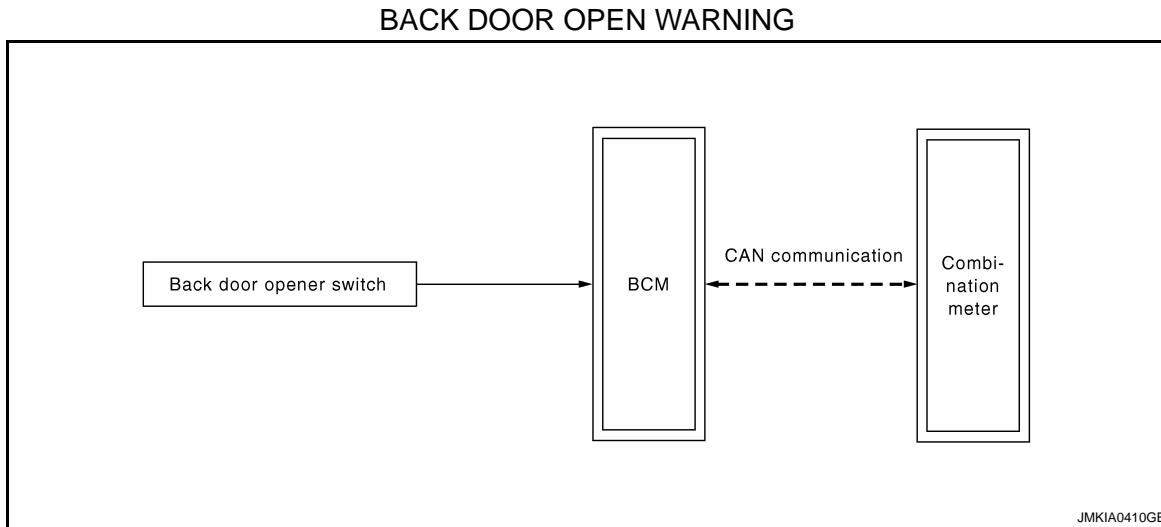
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

WARNING FUNCTION

System Diagram

INFOID:000000001184383



System Description

INFOID:000000001184384

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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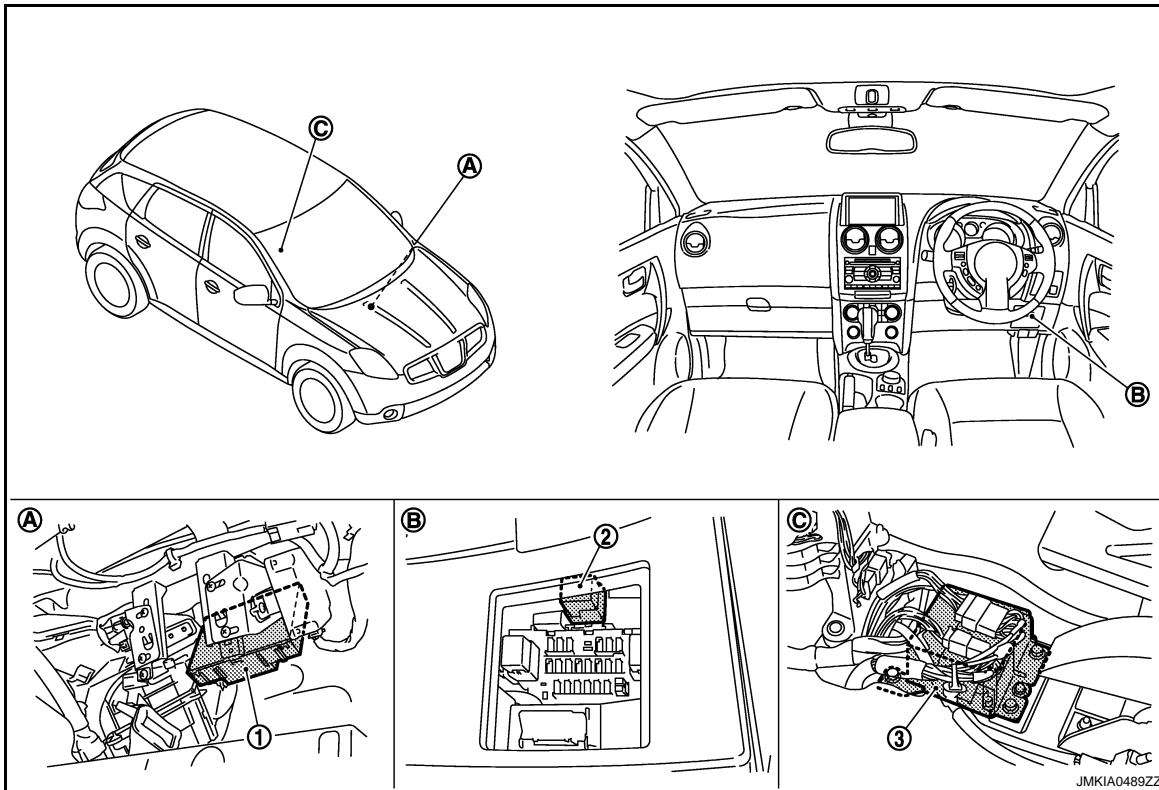
WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Component Parts Location

INFOID:000000001184385



- 1. BCM
M65, M66, M67
- A. Over the glove box

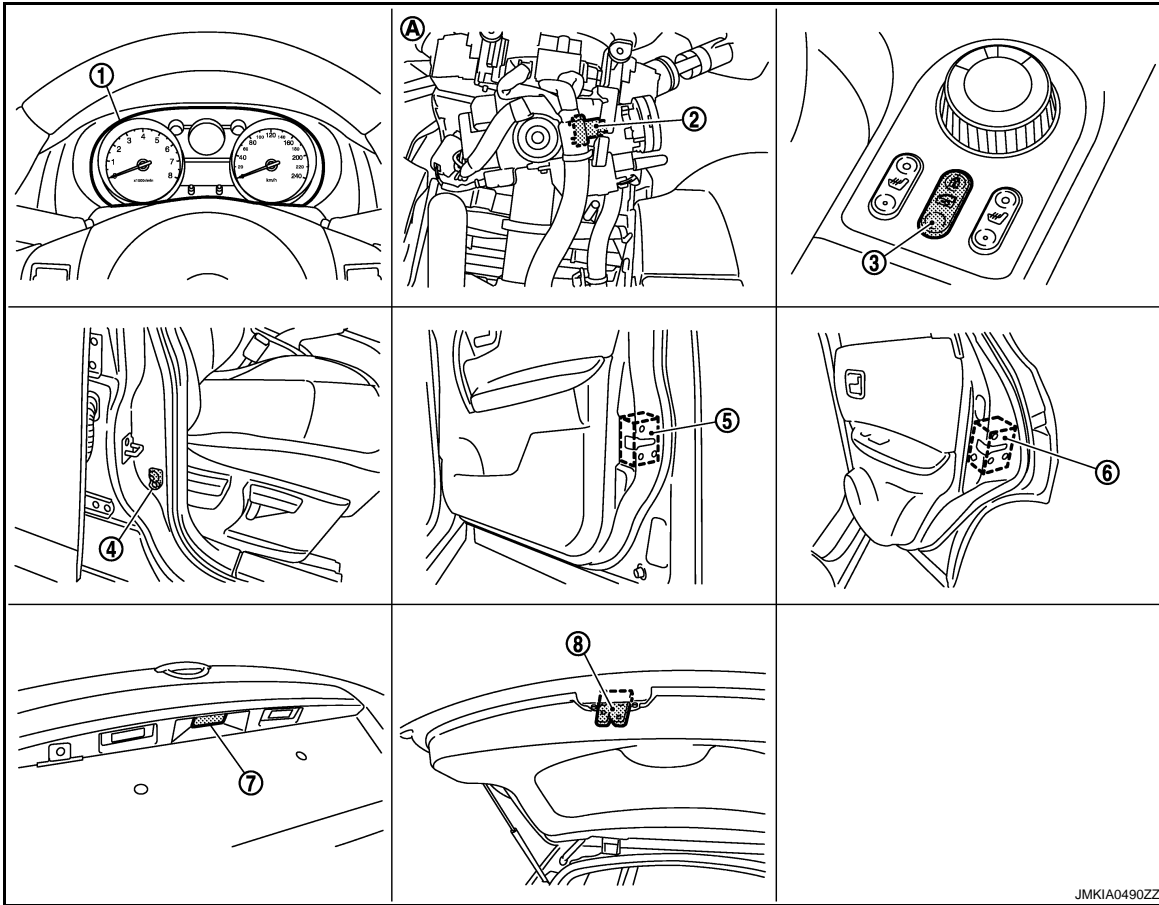
- 2. Passenger side anti-hijack relay
M90
- B. View with fuse box lid removed

- 3. Air bag diagnosis sensor unit
M59
- C. View with center console removed

WARNING FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]



JMKIA0490ZZ

- | | | |
|--|--|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M24 | 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
D152 | |
| A. View with steering column cover removed | | |

Component Description

INFOID:000000001184386

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

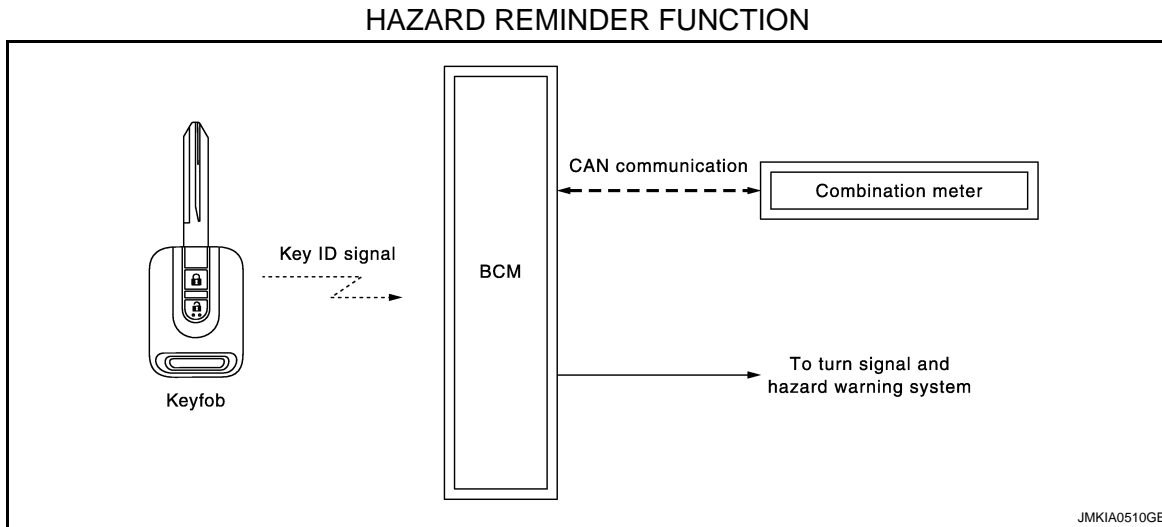
< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

HAZARD REMINDER FUNCTION

System Diagram

INFOID:000000001184387



System Description

INFOID:000000001184388

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-737, "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	

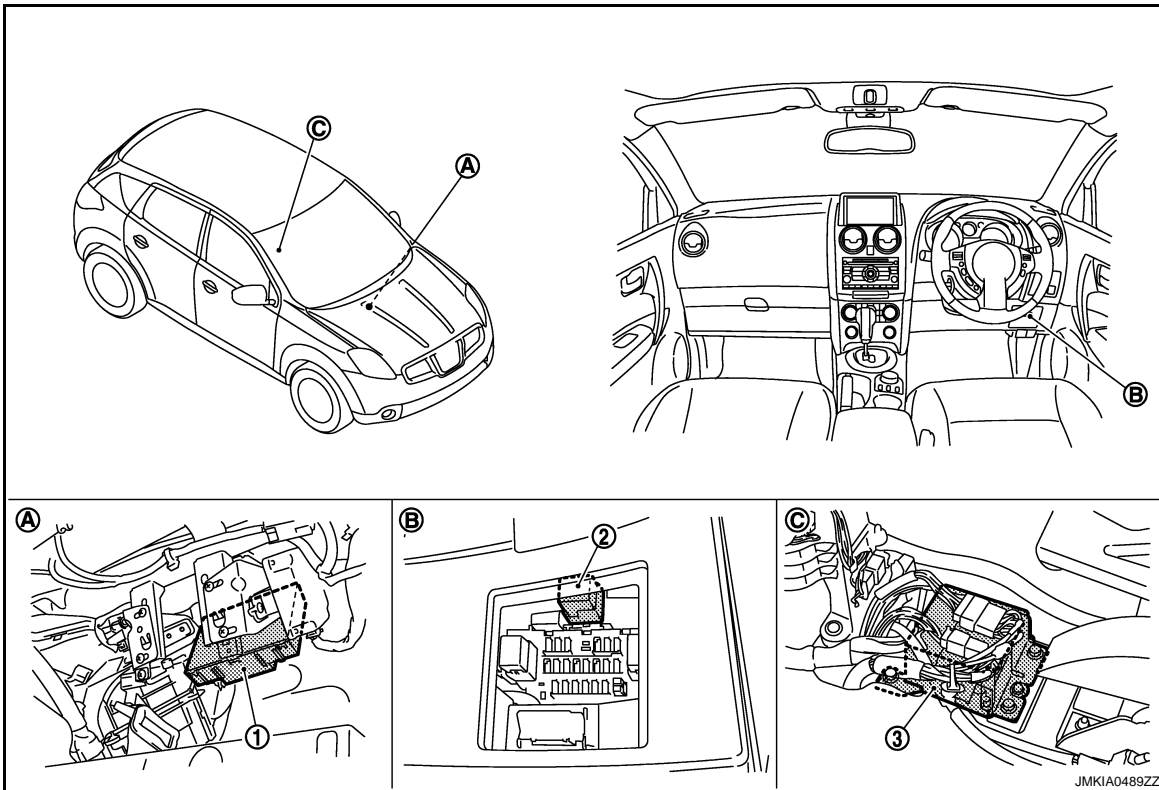
HAZARD REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Component Parts Location

INFOID:000000001184389



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

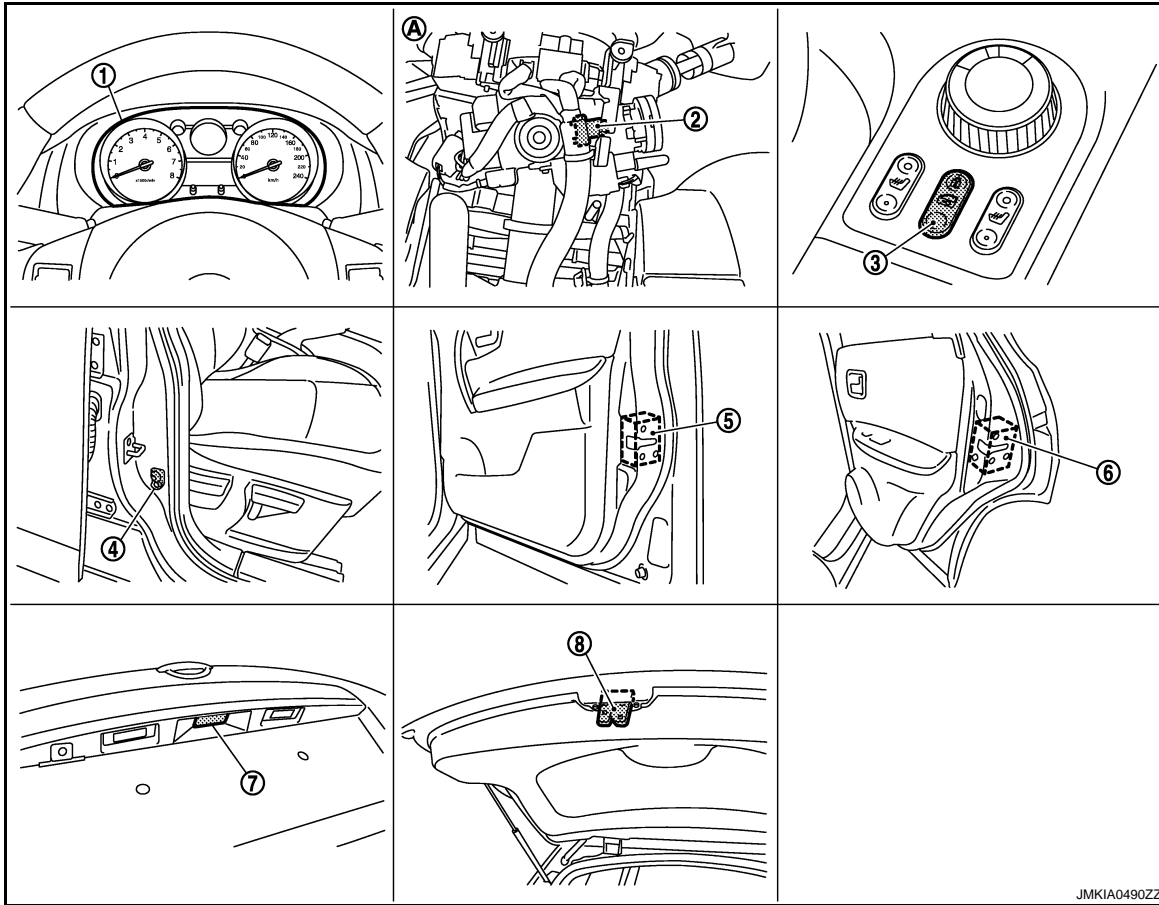
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HAZARD REMINDER FUNCTION

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]



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- | | | |
|--|--|---------------------------------------|
| 1. Combination meter
M34 | 2. Key switch
M24 | 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
D152 | |
| A. View with steering column cover removed | | |

Component Description

INFOID:000000001184390

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, WITH SUPER LOCK]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

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

INFOID:000000001559428

APPLICATION ITEM

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

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM. Refer to BCS-62. "DTC Index" .
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	<ul style="list-style-type: none"> Enables to read and save the vehicle specification. Enables to write the vehicle specification when replacing 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	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	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 system	PTC HEATER		×	×

DOOR LOCK

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

INFOID:000000001559429

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

[WITHOUT I-KEY, WITH SUPER LOCK]

< FUNCTION DIAGNOSIS >

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 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

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

DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

MULTIREMOTE ENT : CONSULT-III Function (BCM - MULTIREMOTE ENT)

INFOID:000000001559430

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.
KEYLESS PANIC	This item is indicated, but not monitored.
MEMORY 1	Indicates [ON/OFF] condition of key fob ID code registration.
MEMORY 2	
MEMORY 3	
MEMORY 4	
MEMORY 5	

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

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-732, "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

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DIAGNOSIS SYSTEM (BCM)

< FUNCTION DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK)

INFOID:000000001559431

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, WITH SUPER LOCK]

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:000000001607760

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-28, "CAN Communication Signal Chart"](#).

DTC Logic

INFOID:000000001607761

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.	Any item (or items) of the following listed below is malfunctioning in CAN communication system. <ul style="list-style-type: none">• Transmission• Receiving (ECM)• Receiving (METER/M&A)• Receiving (TCM)• Receiving (MULTI AV)• Receiving (IPDM E/R)

Diagnosis Procedure

INFOID:000000001607762

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"](#).

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U1010 CONTROL UNIT (CAN)

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:000000001607763

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:000000001607764

1.REPLACE BCM

When "DTC:U1010" is detected, replace BCM.

>> Replace BCM. Refer to [BCS-65, "Exploded View"](#).

Special Repair Requirement

INFOID:000000001607765

1.ADDITIONAL SERVICE WHEN REPLACING BCM

>> Refer to [BCS-3, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description"](#).

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:000000001184401

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	9 (10A)
57		J (40A)

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		Voltage (Approx.)
(+)	(-)	
BCM		Ground Battery voltage
Connector	Terminal	
M66	41	
M67	57	

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		Existed

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 >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH

Description

INFOID:000000001184402

Transmits door lock/unlock operation to BCM.

Component Function Check

INFOID:000000001184403

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?

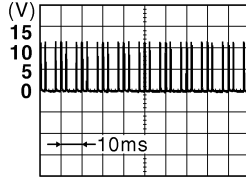
- YES >> Door lock and unlock switch is OK.
- NO >> Refer to [DLK-742, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184404

1. CHECK DOOR LOCK AND UNLOCK INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect door lock and unlock switch connector.
3. Check signal between door lock and unlock harness connector switch and ground with oscilloscope.

Terminal		Signal (Reference value)
(+)	(-)	
Door lock and unlock switch connector	Terminal	
M89	1 6	
	Ground	JPMIA0154GB

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	7	M89	6	Exists
	9		1	

4. Check continuity between BCM harness connector and ground.

DOOR LOCK AND UNLOCK SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BCM connector	Terminal	Ground	Continuity
M65	7		
	9		

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	5		

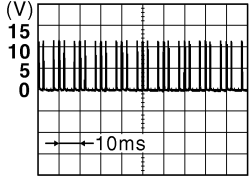
Is the inspection result normal?

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

4. CHECK BCM OUTPUT SIGNAL

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

Terminal		Signal (Reference value)
(+)	(-)	
BCM connector	Terminal	
M65	7	Ground
	9	



JPMA0154GB

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace BCM. Refer to [BCS-65, "Exploded View"](#).

5. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch
Refer to [DLK-74, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace door lock and unlock switch. Refer to [DLK-278, "Exploded View"](#).

Component Inspection

INFOID:000000001184405

1. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Door lock and unlock switch	Terminal		Condition	Continuity
M89	6	5	LOCK	Exists
	1		UNLOCK	

Is the inspection result normal?

- YES >> Door lock and unlock switch is OK.
- NO >> Replace door lock and unlock switch. Refer to [DLK-278, "Exploded View"](#).

DOOR LOCK AND UNLOCK SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR LOCK AND UNLOCK SWITCH INDICATOR

Description

INFOID:000000001184406

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:000000001184407

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-744, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184408

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	4		

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2. CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and door lock and unlock switch 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	24	M89	4	Exists

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	24		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

DOOR LOCK AND UNLOCK SWITCH INDICATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Check continuity between door lock and unlock switch harness connector and ground.

Door lock and unlock switch connector	Terminal	Ground	Continuity
M89	5		Exists

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BCM OUTPUT SIGNAL

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

Terminal		Condition	Voltage (Approx.)
(+)	(-)		
BCM connector	Terminal	Door lock operation is accomplished Any door is OPEN	Battery voltage 0
M65	24		

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> Replace BCM. Refer to [BCS-65. "Exploded View"](#).

5.CHECK DOOR LOCK AND UNLOCK SWITCH INDICATOR

Check door lock and unlock switch

Refer to [DLK-745. "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> Replace door lock and unlock switch. Refer to [DLK-278. "Exploded View"](#).

Component Inspection

INFOID:000000001184409

1.CHECK DOOR LOCK AND UNLOCK SWITCH INDICATOR

Check continuity door lock and unlock switch.

Door lock and unlock switch	Terminal		Continuity
	(+)	(-)	
M89	5	4	Exists
	4	5	Does not exist

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Replace door lock and unlock switch. Refer to [DLK-278. "Exploded View"](#).

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DLK

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001184410

Detects door open/closed condition.

DRIVER SIDE : Component Function Check

INFOID:000000001184411

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 >> Door switch is OK.

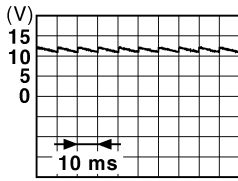
NO >> Refer to [DLK-746, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001184412

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	26	OPEN	0
		CLOSE	

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Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	26	B34	1	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	26		Does not exist

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Is the inspection result normal?

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

3.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-747, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

DRIVER SIDE : Component Inspection

INFOID:000000001184413

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001184414

Detects door open/closed condition.

PASSENGER SIDE : Component Function Check

INFOID:000000001184415

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 >> Door switch is OK.
NO >> Refer to [DLK-747, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001184416

1.CHECK DOOR SWITCH INPUT SIGNAL

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

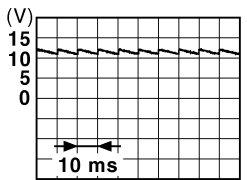
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DLK

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Terminals		Door condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M65	27	OPEN	0
		CLOSE	

JPMIA0011GB

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and door switch harness connector.

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	27	B27	1	Exists

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	27		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 door switch.

Refer to [DLK-748, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
 NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000001184417

1.CHECK DOOR SWITCH

- Turn ignition switch OFF.
- Disconnect door switch connector.
- Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
 NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

REAR LH

REAR LH : Description

INFOID:000000001184418

Detects door open/closed condition.

REAR LH : Component Function Check

INFOID:000000001184419

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 >> Door switch is OK.

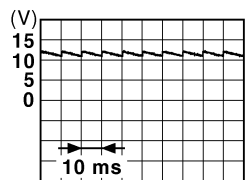
NO >> Refer to [DLK-749. "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001184420

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	25	OPEN	0
		CLOSE	

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Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

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

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	25	B71	1	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M65	25		Does not exist

Is the inspection result normal?

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

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

3.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-750, "REAR LH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

REAR LH : Component Inspection

INFOID:000000001184421

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
- NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

REAR RH

REAR RH : Description

INFOID:000000001184422

Detects door open/close condition.

REAR RH : Component Function Check

INFOID:000000001184423

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 >> Door switch is OK.
- NO >> Refer to [DLK-750, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001184424

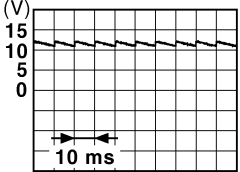
1.CHECK DOOR SWITCH INPUT SIGNAL

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

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Terminals		Door condition	Voltage (V) (Approx.)
(+)			
BCM connector	Terminal	(-)	
M65	29	Ground	0
		Ground	

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Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M65	29	B53	1	Exists

3. 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 between BCM and door switch.

3.CHECK DOOR SWITCH

Check door switch.
Refer to [DLK-751, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace malfunctioning door switch. Refer to [DLK-873, "Exploded View"](#).

REAR RH : Component Inspection

INFOID:000000001184425

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
1	Ground part of door switch	Pressed	Exists
		Released	Does not exist

Is the inspection result normal?

- YES >> Door switch is OK.
- NO >> Replace malfunctioning door switch. Refer to [DLK-270, "Exploded View"](#).

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR

BACK DOOR : Description

INFOID:000000001184426

Detects back door open/close condition.

BACK DOOR : Component Function Check

INFOID:000000001184427

1.CHECK FUNCTION

With CONSULT-III

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

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

Is the inspection result normal?

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

NO >> Refer to [DLK-752. "BACK DOOR : Diagnosis Procedure"](#).

BACK DOOR : Diagnosis Procedure

INFOID:000000001184428

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		
M65	28	OPEN	0
		CLOSE	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

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

1. Disconnect BCM 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	28	D152	4	Exists

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
			Does not exist
M65	28		

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.

DOOR SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Back door lock assembly (door switch) connector	Terminal	Ground	Continuity
D152	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		
M65	28	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace BCM. Refer to [BCS-65, "Exploded View"](#).

5. CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

Check back door lock assembly (door switch).

Refer to [DLK-753, "BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace back door lock assembly (door switch). Refer to [DLK-266, "DOOR LOCK : Removal and Installation"](#).

BACK DOOR : Component Inspection

INFOID:000000001184429

1. CHECK BACK DOOR LOCK ASSEMBLY (DOOR SWITCH)

1. Turn ignition switch OFF.
2. Disconnect back door lock assembly (door switch) connector.
3. Check back door lock assembly (door switch).

Terminal		Trunk condition	Continuity
Back door lock assembly (door switch)			
4	3	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 (door switch). Refer to [DLK-869, "DOOR LOCK : Removal and Installation"](#).

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DLK

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

KEY SWITCH

Description

INFOID:000000001184430

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

Component Function Check

INFOID:000000001184431

1.CHECK KEY SWITCH INPUT SIGNAL

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

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-754, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184432

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 ignition key into key cylinder Remove ignition key from key cylinder	Battery voltage 0
M65	36		Ground

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> GO TO 2.

2.CHECK KEY SWITCH POWER SUPPLY CIRCUIT

1. Remove ignition 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
M25	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 harness connector.

KEY SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BCM connector	Terminal	Key switch connector	Terminal	Continuity
M65	36	M25	1	Existed

2. Check continuity between key switch harness connector and ground.

Key switch connector	Terminal	Ground	Continuity
M25	1	Ground	Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK KEY SWITCH

Check key switch.

Refer to [DLK-755. "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> Replace key switch.

Component Inspection

INFOID:000000001184433

COMPONENT INSPECTION

1.CHECK KEY SWITCH

Check continuity between key switch terminals.

Terminal		Condition	Continuity
key switch connector			
1	2	Insert ignition key into key cylinder	Existed
		Remove ignition key from key cylinder	Not existed

Is the inspection result normal?

YES >> Key switch is OK.

NO >> Replace key switch.

DLK

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001184434

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:000000001184435

1. CHECK FUNCTION

With CONSULT-III

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

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

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-756, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001184436

1. CHECK BCM OUTPUT SIGNAL

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		
	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. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator (driver side) connector.
3. Check continuity between BCM harness connector and front door lock actuator (driver side) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	56	D9	3	Exists
	60		2	

4. 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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

DOOR LOCK ACTUATOR

[WITHOUT I-KEY, WITH SUPER LOCK]

< COMPONENT DIAGNOSIS >

NO >> Repair or replace harness.

3.CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-757. "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-254. "DOOR LOCK : Removal and Installation"](#).

DRIVER SIDE : Component Inspection

INFOID:000000001184437

1.CHECK FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)

Check the actuator operation by connecting the battery voltage to front door lock actuator (driver side).

Front door lock actuator (driver side)	Terminal		Door lock actuator condition
	(+)	(-)	
D9	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

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

NO >> Replace front door lock actuator (driver side). Refer to [DLK-254. "DOOR LOCK : Removal and Installation"](#).

DRIVER SIDE : Special Repair Requirement

INFOID:000000001184438

Refer to [PWC-4. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001184439

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000001184440

DLK

1.CHECK FUNCTION

 **With CONSULT-III**

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

Test item	Condition
DOOR LOCK	:ALL LOCK The all door lock actuator are locked
	:ALL UNLOCK The all door lock actuator are unlocked
	:OTHER UNLOCK The door lock actuator (front passenger side, rear LH and rear RH) are unlocked

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-757. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001184441

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

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

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	56	D48	3	Exists
	54		2	

- 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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace harness.

3. CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-758, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

PASSENGER SIDE : Component Inspection

INFOID:00000000118442

1. CHECK FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)

Check the actuator operation by connecting the battery voltage directly to front door lock actuator (passenger side).

Front door lock actuator (passenger side) connector	Terminal		Door lock actuator condition
	(+)	(-)	
D48	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

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

NO >> Replace front door lock actuator (passenger side). Refer to [DLK-758, "PASSENGER SIDE : Component Inspection"](#).

REAR LH

DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

REAR LH : Description

INFOID:000000001184443

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:000000001184444

1.CHECK FUNCTION

With CONSULT-III

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

Test item	Condition
DOOR LOCK :ALL LOCK	The all door lock actuator are locked
:ALL UNLOCK	The all door lock actuator are unlocked
:OTHER UNLOCK	The door lock actuator (front passenger side, rear LH and rear RH) are unlocked

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-759, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001184445

1.CHECK BCM OUTPUT SIGNAL

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 3.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM and rear door lock actuator (LH) connector.
- Check continuity between BCM harness connector and rear door lock actuator (LH) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	56	D85	3	Exists
	54		2	

- Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Continuity
M67	56	Does not exist
	54	

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace harness.

3.CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-760, "REAR LH : Component Inspection"](#).

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-863, "DOOR LOCK : Removal and Installation"](#).

REAR LH : Component Inspection

INFOID:000000001184446

1.CHECK REAR DOOR LOCK ACTUATOR (LH)

Check the actuator operation by connecting the battery voltage directly to rear door lock actuator (LH).

Rear door lock actuator (LH)	Terminal		Door lock actuator condition
	(+)	(-)	
D85	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

YES >> Rear door lock actuator (LH) is OK.

NO >> Replace rear door lock actuator (LH). Refer to [DLK-260, "DOOR LOCK : Removal and Installation"](#).

REAR RH

REAR RH : Description

INFOID:000000001184447

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:000000001184448

1.CHECK FUNCTION

 **With CONSULT-III**

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

Test item	Condition
DOOR LOCK :ALL LOCK	The all door lock actuator are locked
DOOR LOCK :ALL UNLOCK	The all door lock actuator are unlocked
DOOR LOCK :OTHER UNLOCK	The door lock actuator (front passenger side, rear LH and rear RH) are unlocked

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-760, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001184449

1.CHECK BCM OUTPUT SIGNAL

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 3.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock actuator (RH) connector.

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DOOR LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

3. Check continuity between BCM harness connector and rear door lock actuator (RH) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	56	D105	3	Exists
	54		2	

4. 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 >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Repair or replace harness.

3.CHECK DOOR LOCK ACTUATOR

Check door lock actuator.

Refer to [DLK-761, "REAR RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR RH : Component Inspection

INFOID:000000001184450

1.CHECK REAR DOOR LOCK ACTUATOR (RH)

Check the actuator operation by connecting the battery voltage directly to rear door lock actuator (RH).

Rear door lock actuator (RH)	Terminal		Door lock actuator condition
	(+)	(-)	
D105	3	2	LOCK
	2	3	UNLOCK

Is the inspection result normal?

- YES >> Rear door lock actuator (RH) is OK.
- NO >> Replace rear door lock actuator (RH). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

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SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

SUPER LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000001184451

The super lock system is controlled by BCM.

DRIVER SIDE : Component Function Check

INFOID:000000001184452

1.CHECK FUNCTION

④ 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 >> Door lock actuator (super lock actuator) is OK.

NO >> Refer to [DLK-365, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000001184453

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness 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 harness connector and front door lock actuator (driver side) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	59	D29	1	Exists
	60		2	

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	59	Ground	Does not exist
	60		

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace harness.

SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

3.CHECK SUPER LOCK ACTUATOR

Check super lock actuator.

Refer to [DLK-366, "DRIVER SIDE : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

DRIVER SIDE : Component Inspection

INFOID:000000001184454

1.CHECK SUPER LOCK ACTUATOR

Check the actuator operation by connecting the battery voltage to super lock actuator.

Door lock actuator (super lock actuator) connector	Terminal		Actuator condition
	(+)	(-)	
D29	1	2	LOCK (SET)
	2	1	UNLOCK (RELEASE)

Is the inspection result normal?

YES >> Door lock actuator (super lock actuator) is OK.

NO >> Replace door lock actuator (super lock actuator). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

DRIVER SIDE : Special Repair Requirement

INFOID:000000001184455

Perform initialization procedure. Refer to [PWC-4, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000001184456

The super lock system is controlled by BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000001184457

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 >> Door lock actuator (super lock actuator) is OK.

NO >> Refer to [DLK-763, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001184458

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals		Condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	Ground	0 → Battery voltage → 0
M67	54		
	59	LOCK (SET)	

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SUPER LOCK ACTUATOR

[WITHOUT I-KEY, WITH SUPER LOCK]

< COMPONENT DIAGNOSIS >

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 harness connector and front door lock actuator (passenger side) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	59	D68	1	Exists
	54		2	

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	59	Ground	Does not exist
	54		

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> GO TO 3.

3.CHECK SUPER LOCK ACTUATOR

Check super lock actuator.

Refer to [DLK-764, "PASSENGER SIDE : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Replace door lock actuator. Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

PASSENGER SIDE : Component Inspection

INFOID:000000001184459

1.CHECK SUPER LOCK ACTUATOR

Check the actuator operation by connecting the battery voltage to super lock actuator.

Door lock actuator (super lock actuator) connector	Terminal		Actuator condition
	(+)	(-)	
D68	1	2	LOCK (SET)
	2	1	UNLOCK (RELEASE)

Is the inspection result normal?

- YES >> Door lock actuator (super lock actuator) is OK.
- NO >> Replace door lock actuator (super lock actuator). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR LH

REAR LH : Description

INFOID:000000001184460

The super lock system is controlled by BCM.

REAR LH : Component Function Check

INFOID:000000001184461

1.CHECK FUNCTION

Ⓢ With CONSULT-III

Check "SUPER LOCK" in Active test mode with CONSULT-III.

SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

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 >> Door lock actuator (super lock actuator) is OK.
 NO >> Refer to [DLK-765. "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000001184462

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness 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 (LH) connector.
3. Check continuity between BCM harness connector and rear door lock actuator (LH) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	59	D115	1	Exists
	54		2	

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M67	59	Ground	Does not exist
	54		

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
 NO >> GO TO 3.

3.CHECK SUPER LOCK ACTUATOR

Check super lock actuator.

Refer to [DLK-765. "REAR LH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
 NO >> Replace door lock actuator. Refer to [DLK-254. "DOOR LOCK : Removal and Installation"](#).

REAR LH : Component Inspection

INFOID:000000001184463

1.CHECK SUPER LOCK ACTUATOR

Check the actuator operation by connecting the battery voltage to super lock actuator.

SUPER LOCK ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Door lock actuator (super lock actuator) connector	Terminal		Actuator condition
	(+)	(-)	
D115	1	2	LOCK (SET)
	2	1	UNLOCK (RELEASE)

Is the inspection result normal?

YES >> Door lock actuator (super lock actuator) is OK.

NO >> Replace door lock actuator (super lock actuator). Refer to [DLK-254, "DOOR LOCK : Removal and Installation"](#).

REAR RH

REAR RH : Description

INFOID:000000001184464

The super lock system is controlled by BCM.

REAR RH : Component Function Check

INFOID:000000001184465

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 >> Door lock actuator (super lock actuator) is OK.

NO >> Refer to [DLK-766, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000001184466

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness 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 (RH) connector.
- Check continuity between BCM harness connector and rear door lock actuator (RH) harness connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M67	59	D95	1	Exists
	54		2	

- Check continuity between BCM harness 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 >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> GO TO 3.

3.CHECK SUPER LOCK ACTUATOR

Check super lock actuator.

Refer to [DLK-767. "REAR RH : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).

NO >> Replace door lock actuator. Refer to [DLK-254. "DOOR LOCK : Removal and Installation"](#).

REAR RH : Component Inspection

INFOID:000000001184467

1.CHECK SUPER LOCK ACTUATOR

Check the actuator operate by connecting the battery voltage to super lock actuator.

Door lock actuator (super lock actuator) connector	Terminal		Actuator condition
	(+)	(-)	
D95	1	2	LOCK (SET)
	2	1	UNLOCK (RELEASE)

Is the inspection result normal?

YES >> Door lock actuator (super lock actuator) is OK.

NO >> Replace door lock actuator (super lock actuator). Refer to [DLK-254. "DOOR LOCK : Removal and Installation"](#).

DLK

BACK DOOR OPENER ACTUATOR

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR OPENER ACTUATOR

Description

INFOID:000000001184468

Opens the back door with the signal from BCM.

Component Function Check

INFOID:000000001184469

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 lock opener actuator operation

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-768, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184470

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 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	D152	2	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
D152	1		Exists

Is the inspection result normal?

BACK DOOR OPENER ACTUATOR

[WITHOUT I-KEY, WITH SUPER LOCK]

< COMPONENT DIAGNOSIS >

- YES >> GO TO 4.
- NO >> Repair or replace harness.

4.CHECK BACK DOOR LOCK ASSEMBLY

Check the actuator operation by connecting battery voltage to back door lock assembly.
Refer to [DLK-769. "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39. "Intermittent Incident"](#).
- NO >> Replace back door lock assembly. Refer to [DLK-266. "DOOR LOCK : Removal and Installation"](#).

Component Inspection

INFOID:000000001184471

1.CHECK BACK DOOR LOCK ASSEMBLY

Check the actuator operation by connecting battery voltage to back door lock assembly.

Back door lock assembly connector	Terminal		Back door actuator condition
D152	(+)	(-)	OPEN
	2	1	

Is the inspection result normal?

- YES >> Back door lock assembly (back door lock actuator) is OK.
- NO >> Replace back door lock assembly (back door lock actuator). Refer to [DLK-266. "DOOR LOCK : Removal and Installation"](#).

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BACK DOOR OPENER SWITCH

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR OPENER SWITCH

Description

INFOID:000000001184472

Sends the back door opening signal to BCM.

Component Function Check

INFOID:000000001184473

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-770, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184474

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	12	Pressed	0
		Released	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

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 connector.
3. Check continuity between BCM harness connector and back door opener switch harness connector.

BCM connector	Terminal	Back door opener switch connector	Terminal	Continuity
M65	12	D186	1	Exists

4. 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.

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	Battery voltage
M65	12	
	Ground	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to [BCS-65, "Exploded View"](#).

4.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

Back door 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.

Refer to [DLK-771, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Replace back door opener switch. Refer to [DLK-277, "Exploded View"](#).

Component Inspection

INFOID:000000001184475

1.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Back door opener switch connector	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 is OK.

NO >> Replace back door opener switch. Refer to [DLK-277, "Exploded View"](#).

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BUZZER (COMBINATION METER)

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BUZZER (COMBINATION METER)

Description

INFOID:000000001184476

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:000000001184477

1.CHECK FUNCTION

With CONSULT-III

1. Check the operation with "BUZZER" in Active Test with CONSULT-III.
2. Touch "KEY REMINDER WARN" on screen.

Is the inspection result normal?

- YES >> Warning buzzer into combination meter is OK.
NO >> Refer to [DLK-772, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184478

1.CHECK METER BUZZER CIRCUIT

Refer to [WCS-21, "Component Function Check"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
NO >> Repair or replace meter buzzer circuit.

HAZARD WARNING LAMPS

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

HAZARD WARNING LAMPS

Description

INFOID:000000001184479

Perform answer-back for each operation with number of blinks.

Component Function Check

INFOID:000000001184480

1.CHECK FUNCTION

With CONSULT-III

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

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.

NO >> Refer to [DLK-773, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184481

1.CHECK HAZARD SWITCH CIRCUIT

Check hazard switch circuit.

Refer to [EXL-75, "Component Function Check"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).

NO >> Repair or replace hazard warning switch circuit.

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VEHICLE SPEED SIGNAL CIRCUIT

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

VEHICLE SPEED SIGNAL CIRCUIT

Description

INFOID:000000001184482

Display the vehicle speed signal received from combination meter by numerical value (km/h).

Component Function Check

INFOID:000000001184483

1.CHECK FUNCTION

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

Is the inspection result normal?

- YES >> Vehicle speed signal circuit is OK.
- NO >> Refer to [DLK-775, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184484

1.CHECK VEHICLE SPEED SIGNAL CIRCUIT

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

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-39, "Intermittent Incident"](#).
- NO >> Repair or replace hazard warning switch circuit.

KEYFOB BATTERY

< COMPONENT DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

KEYFOB BATTERY

Description

INFOID:000000001184485

Remote door lock and unlock control entry function available when operating on button.

- Door lock and unlock

Component Function Check

INFOID:000000001184486

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-775. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000001184487

1.CHECK KEYFOB BATTERY

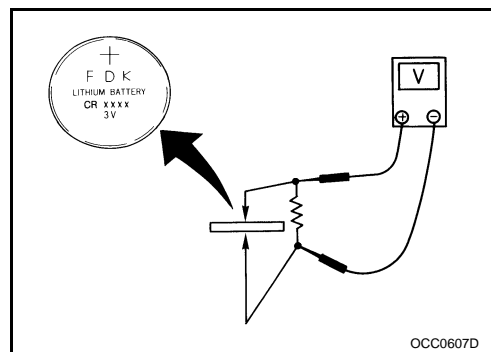
Check by connecting a resistance (approximately 300 Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

YES >> Replace keyfob.

NO >> Replace keyfob battery. Refer to [DLK-875. "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:000000001559434

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status
ACC ON SW	Ignition switch OFF	Off
	Ignition switch ACC or ON	On
AIR COND SW	A/C switch OFF	Off
	A/C switch ON	On
AUT LIGHT SYS	Outside of the room is bright	Off
	Outside of the room is dark	On
AUTO LIGHT SW	Lighting switch OFF	Off
	Lighting switch AUTO	On
AUTO RELOCK	Auto lock function does not operate	Off
	Auto lock function is operating	On
BACK DOOR SW	Back door closed	Off
	Back door opened	On
BATTERY VOLT NOTE: Diesel engine models only	Ignition switch ON	Approximately the same as power supply voltage
BRAKE SW	Brake pedal is not depressed	Off
	Brake pedal is depressed	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-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-RL	Rear LH door closed	Off
	Rear LH door opened	On
DOOR SW-RR	Rear RH door closed	Off
	Rear RH door opened	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Monitor Item	Condition	Value/Status	
ELEC PWR CUT NOTE: Diesel engine models only	Engine running	Fan switch ON (when engine coolant is cool) NOTE: Depending on the ambient temperature, battery voltage, etc.	Off
		The current status maintained with the signal from ECM received.	FREEZ
		<ul style="list-style-type: none"> • Fan switch OFF • Fan switch ON after engine warming UP NOTE: Depending on the engine coolant temperature, ambient temperature, battery voltage, etc.	INHBT
ENG COOLNT T NOTE: Diesel engine models only	Engine running	Approximately the same as water temperature gauge reading	
ENGINE RPM NOTE: Diesel engine models only	Engine running	Approximately the same as tachometer reading	
ENGINE RUN	Engine stopped	Off	
	Engine running	On	
ENGINE STATUS NOTE: Diesel engine models only	Engine stopped	STOP	
	While the engine stalls	STALL	
	Engine running	RUN	
	At engine cranking	CRA	
FAN ON SIG	Fan switch OFF	Off	
	Fan switch ON	On	
FR FOG SW	Front fog lamp switch OFF	Off	
	Front fog lamp switch ON	On	
FR WASHER SW	Front washer switch OFF	Off	
	Front washer switch ON	On	
FR WIPER LOW	Front wiper switch OFF	Off	
	Front wiper switch LO	On	
FR WIPER HI	Front wiper switch OFF	Off	
	Front wiper switch HI	On	
FR WIPER INT	Front wiper switch OFF	Off	
	Front wiper switch INT	On	
FR WIPER STOP	Any position other than front wiper stop position	Off	
	Front wiper stop position	On	
GLS BREAK SEN	The vehicle without glass break sensor	On	
	The vehicle with glass break sensor	Off	
HAZARD SW	When hazard switch is not pressed	Off	
	When hazard switch is pressed	On	
HD LIGHT TIME	—	Displays a setting time of the follow me home function set by the work support	

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Monitor Item	Condition	Value/Status
HEAD LAMP SW 1	Lighting switch OFF	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Lighting switch OFF	Off
	Lighting switch 2ND	On
HI BEAM SW	Lighting switch OFF	Off
	Lighting switch HI	On
HOOD SW	Close the hood NOTE: Vehicles without theft warning system are OFF-fixed	Off
	Open the hood	On
H/L WASH SW	NOTE: The item is indicated, but not monitored	Off
IGN ON SW	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
IGN SW CAN	Ignition switch OFF or ACC	Off
	Ignition switch ON	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	1 - 7
I-KEY LOCK	LOCK button of Intelligent Key is not pressed	Off
	LOCK button of Intelligent Key is pressed	On
I-KEY UNLOCK	UNLOCK button of Intelligent Key is not pressed	Off
	UNLOCK button of Intelligent Key is pressed	On
KEY ON SW	Mechanical key is removed from key cylinder	Off
	Mechanical key is inserted to key cylinder	On
KEYLESS LOCK	LOCK button of key fob is not pressed	Off
	LOCK button of key fob is pressed	On
KEY LESS PANIC	NOTE: The item is indicated, but not monitored	Off
KEYLESS UNLOCK	UNLOCK button of key fob is not pressed	Off
	UNLOCK button of key fob is pressed	On
LIT-SEN FAIL	Light & rain sensor is in normal condition	OK
	Light & rain sensor is with internal error	NOT OK
MEMORY 1	Key fob ID code is not registered in "Memory 1"	Off
	Key fob ID code is registered in "Memory 1"	On
MEMORY 2	Key fob ID code is not registered in "Memory 2"	Off
	Key fob ID code is registered in "Memory 2"	On
MEMORY 3	Key fob ID code is not registered in "Memory 3"	Off
	Key fob ID code is registered in "Memory 3"	On
MEMORY 4	Key fob ID code is not registered in "Memory 4"	Off
	Key fob ID code is registered in "Memory 4"	On
MEMORY 5	Key fob ID code is not registered in "Memory 5"	Off
	Key fob ID code is registered in "Memory 5"	On
OIL PRESS SW	<ul style="list-style-type: none"> • Ignition switch OFF or ACC • Engine running 	Off
	Ignition switch ON	On
OUT SIDE TEMP NOTE: Diesel engine models	Ignition switch ON	Approximately the same as outside air temperature

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

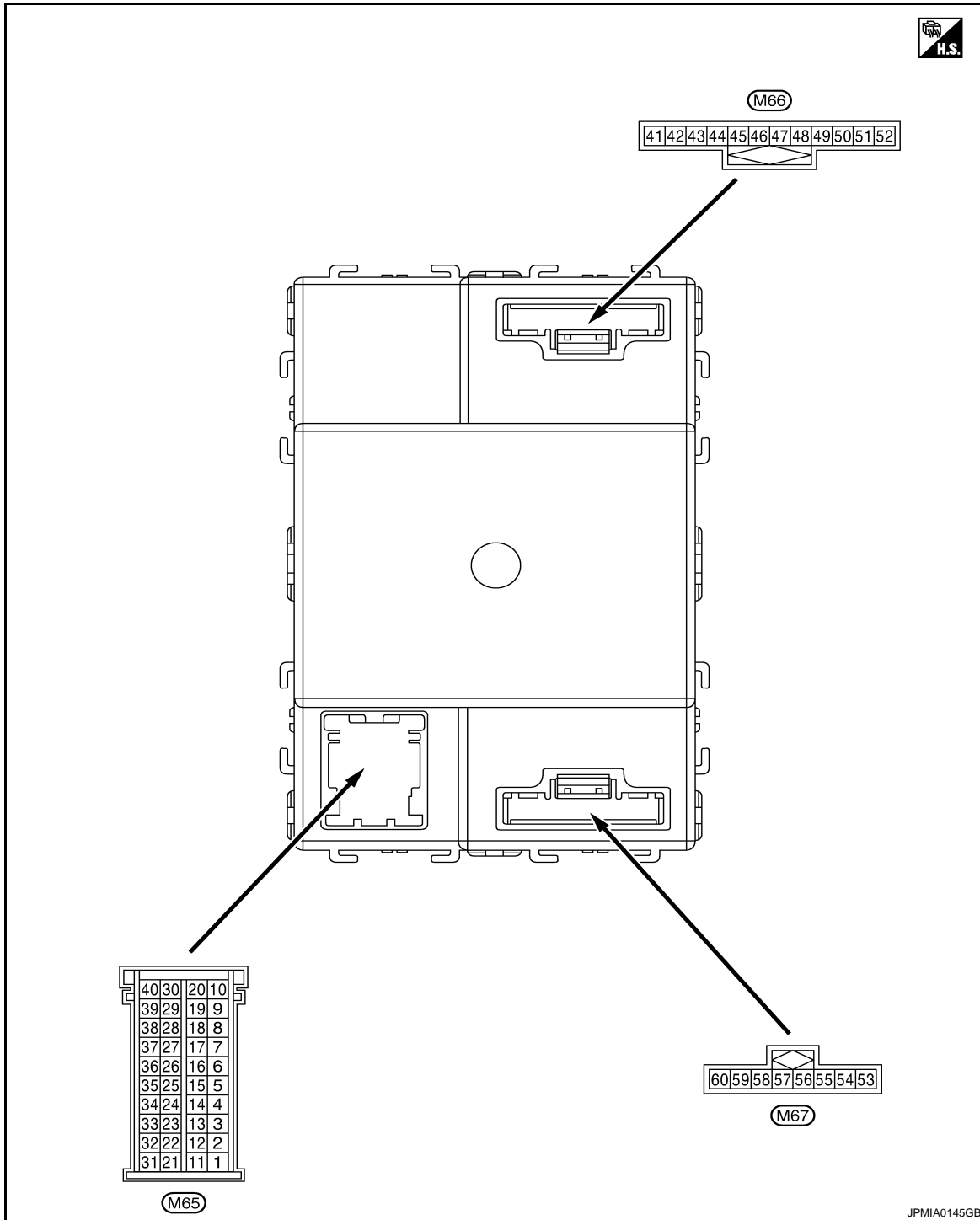
Monitor Item	Condition	Value/Status	
PASSING SW	Other than lighting switch PASS	Off	A
	Lighting switch PASS	On	
REVERSE SW CAN	Except selector lever R position	Off	B
	Selector lever R position	On	
PUSH SW	Return to ignition switch to LOCK position	Off	C
	Press ignition switch	On	
REAR DEF SW	Rear window defogger switch OFF	Off	D
	Rear window defogger switch ON	On	
RR FOG SW	Rear fog lamp switch OFF	Off	E
	Rear fog lamp switch ON	On	
RR WASHER SW	Rear washer switch OFF	Off	F
	Rear washer switch ON	On	
RR WIPER INT	Rear wiper switch OFF	Off	G
	Rear wiper switch INT	On	
RR WIPER ON	Rear wiper switch OFF	Off	H
	Rear wiper switch ON	On	
RR WIPER STOP	Rear wiper stop position	Off	I
	Other than rear wiper stop position	On	
SHOCK SENSOR	Ignition switch ON	NOMAL	J
	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	
TAIL LAMP SW	Lighting switch OFF	Off	K
	Lighting switch 1ST	On	
TRNK OPNR SW	When back door opener switch is not pressed	Off	DLK
	When back door opener switch is pressed	On	
TURN SIGNAL L	Turn signal switch OFF	Off	L
	Turn signal switch LH	On	
TURN SIGNAL R	Turn signal switch OFF	Off	M
	Turn signal switch RH	On	
UNLOCK SHOCK	Other than the following	Off	N
	During the unlock operation interlocked with air bag	On	
VEHICLE SPEED	While driving	Equivalent to speedometer reading	O
			P

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

TERMINAL LAYOUT



PHYSICAL VALUES

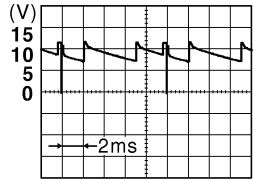
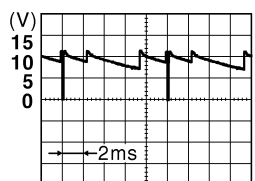
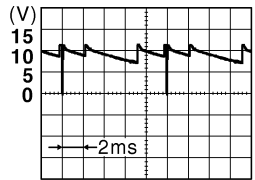
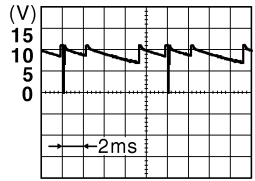
CAUTION:

- 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-27, "COMB SW : CONSULT-III Function \(BCM - COMB SW\)"](#).
- BCM reads the status of the combination switch at 10 ms internal normally. Refer to [BCS-10, "System Description"](#).

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
1 (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;">JPMIA0160GB</p>	
				Rear wiper switch INT (Wiper intermittent dial 4)		
				Any of the condition below with all switch OFF		9.1 V
				<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 		
2 (Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF	0 V
				Lighting switch 2ND	 <p style="text-align: right; font-size: small;">JPMIA0163GB</p>	
				Lighting switch PASS		
				Front fog lamp switch ON		
				Turn signal switch LH	9.3 V	
3 (LG)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF	0 V
				Lighting switch AUTO	 <p style="text-align: right; font-size: small;">JPMIA0162GB</p>	
				Rear fog lamp switch OFF		
				Front wiper switch MIST		
				Front wiper switch INT		
				Front wiper switch LO	9.3 V	
4 (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 wiper switch ON (Wiper intermittent dial 4)		
				Rear washer switch ON (Wiper intermittent dial 4)		
				Any of the condition below with all switch OFF		9.1 V
				<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 		

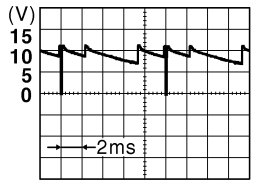
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BCM (BODY CONTROL MODULE)

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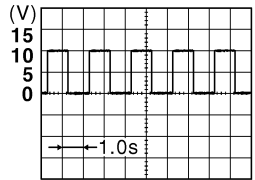
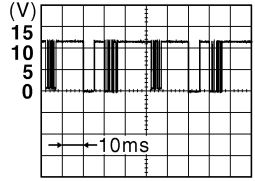
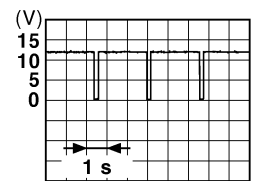
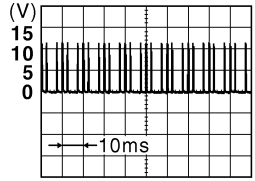
[WITHOUT I-KEY, WITH SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
5 (W)	Ground	Combination switch OUTPUT 5	Output	All switch OFF	0 V
				Lighting switch 1ST	 <p style="text-align: right; font-size: small;">JPMIA0164GB</p>
				Lighting switch 2ND	
				Lighting switch HI	
				Turn signal switch RH	
7 (P)	Ground	Door lock/unlock switch (Lock)	Input	Door lock/un- lock switch	Not pressed
				Pressed to the lock side	0 V
8 (LG)	Ground	Hazard switch	Input	Hazard switch	Not pressed
				Pressed	0 V
9 (BR)	Ground	Door lock/unlock switch (Unlock)	Input	Door lock/un- lock switch	Not pressed
				Pressed to the unlock side	0 V
12 (P)	Ground	Back door opener switch	Input	Back door opener switch	Not pressed
				Pressed	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			
13 (R)	Ground	Shock detect sensor	Input	Ignition switch OFF or ACC		0 V
				Ignition switch ON		 <p style="text-align: right; font-size: small;">JPMIA0155GB</p>
14 (L/R)	Ground	A/C switch	Input	A/C switch	Not pressed	Battery voltage
					Pressed	0 V
15 (LG/B)	Ground	Fan switch	Input	Fan switch	Not pressed	Battery voltage
					Pressed	0 V
16 (GR)	Ground	Alarm link	Output	—	—	
17 (BR)	Ground	Light & rain sensor serial link	Input/ Output	Ignition switch OFF or ACC		Battery voltage
				Ignition switch ON		 <p style="text-align: right; font-size: small;">JPMIA0156GB</p>
18 (SB)	Ground	Security indicator	Output	Security indicator	ON	0 V
					Blinking	 <p style="text-align: right; font-size: small;">JPMIA0014GB</p>
					OFF	Battery voltage
19 (L)	—	CAN-H	Input/ Output	—	—	
20 (P)	—	CAN-L	Input/ Output	—	—	
21 (SB)	Ground	Rear window defogger switch	Input	Rear window defogger switch	Not pressed	 <p style="text-align: right; font-size: small;">JPMIA0154GB</p>
					While pressing	0 V

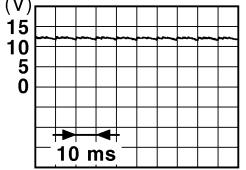
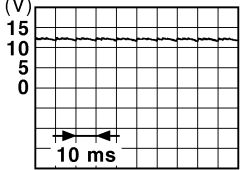
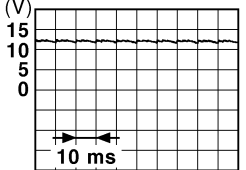
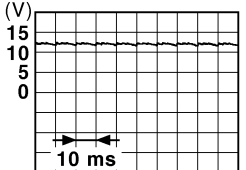
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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

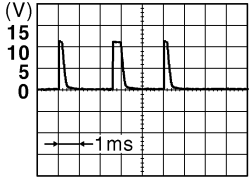
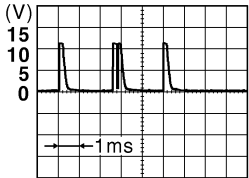
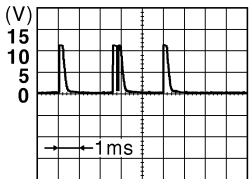
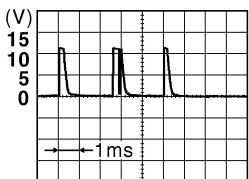
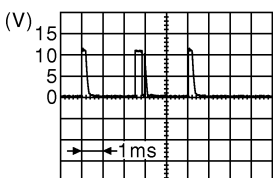
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
24 (GR)	Ground	Door lock status indicator	Output	Door lock status indicator	ON	Battery voltage
					OFF	0 V
25 (GR)	Ground	Rear door switch LH	Input	Rear door switch LH	OFF (When rear door LH closed)	 <p style="text-align: right;">PKID0924E</p>
					ON (When rear door LH opened)	0 V
26 (R)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closed)	 <p style="text-align: right;">PKID0924E</p>
					ON (When driver door opened)	0 V
27 (BR)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closed)	 <p style="text-align: right;">PKID0924E</p>
					ON (When passenger door opened)	0 V
28 (G)	Ground	Back door switch	Input	Back door switch	OFF (When back door closed)	Battery voltage
					ON (When back door opened)	0 V
29 (LG)	Ground	Rear door switch RH	Input	Rear door switch RH	OFF (When rear door RH closed)	 <p style="text-align: right;">PKID0924E</p>
					ON (When rear door RH opened)	0 V
30 (SB)	Ground	Audio link	Input/ Output	—	—	—

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
31 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="font-size: small;">JPMIA0165GB</p> </div>
				Combination switch	Front fog lamp switch ON (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="font-size: small;">JPMIA0167GB</p> </div>
				Combination switch	Rear fog lamp switch ON (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="font-size: small;">JPMIA0168GB</p> </div>
				Combination switch	Rear wiper switch ON (Wiper intermittent dial 4) <div style="text-align: right;">  <p style="font-size: small;">JPMIA0169GB</p> </div>
				Combination switch	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 <div style="text-align: right;">  <p style="font-size: small;">JPMIA0196GB</p> </div>

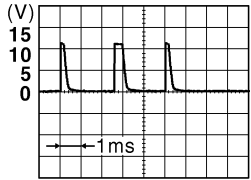
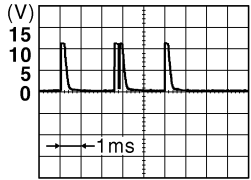
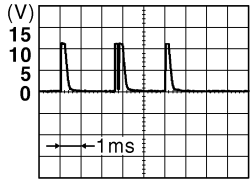
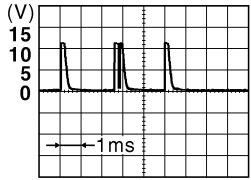
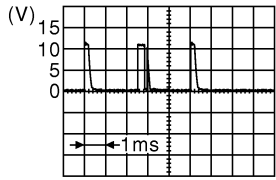
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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

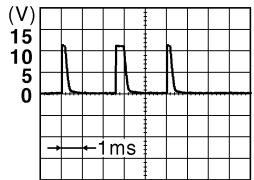
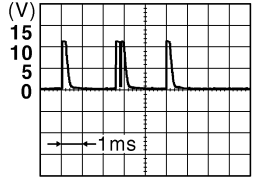
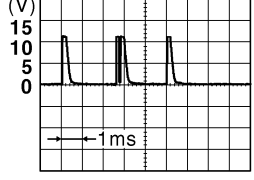
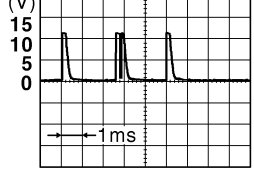
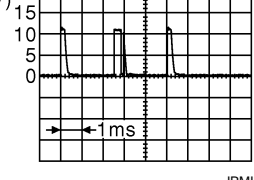
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
32 (G)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermit- tent dial 4)	All switch OFF	 <p style="text-align: center;">1.4 V</p>
					Lighting switch PASS	 <p style="text-align: center;">1.3 V</p>
					Lighting switch 2ND	 <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)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
33 (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 LH <div style="text-align: right;">  <p>1.3 V</p> </div>
					Turn signal switch RH <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>

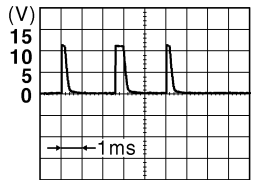
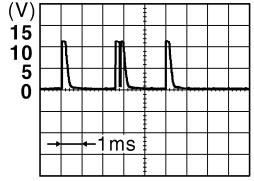
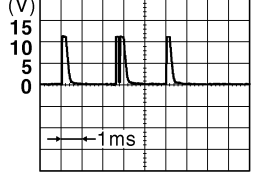
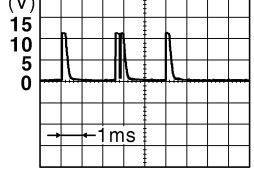
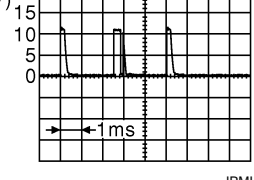
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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

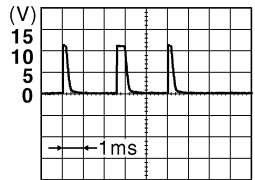
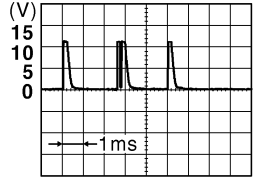
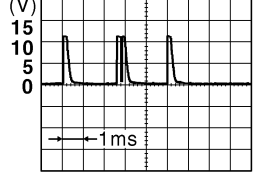
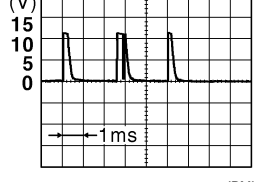
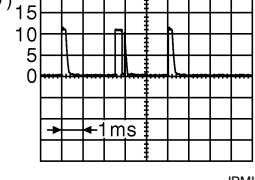
< ECU DIAGNOSIS >

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
34 (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 AUTO (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0167GB</p> <p style="text-align: center;">1.3 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>
					Rear wiper INT (Wiper intermittent dial 4)	 <p style="text-align: right; font-size: small;">JPMIA0167GB</p> <p style="text-align: center;">1.3 V</p>
					Any of the condition below with all switch OFF	 <p style="text-align: right; font-size: small;">JPMIA0196GB</p> <p style="text-align: center;">1.3 V</p>
					<ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 6 	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
35 (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 wiper 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>
36 (V)	Ground	Key switch	Input	Insert mechanical key into ignition key cylinder	Battery voltage	
				Remove mechanical key from ignition key cylinder	0 V	
37 (R)	Ground	ACC power supply	Input	Ignition switch OFF	0 V	
				Ignition switch ACC or ON	Battery voltage	
38 (W)	Ground	Ignition power supply	Input	Ignition switch OFF or ACC	0 V	
				Ignition switch ON	Battery voltage	

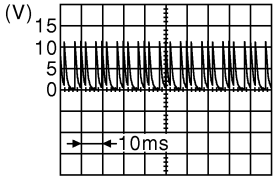
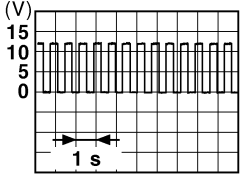
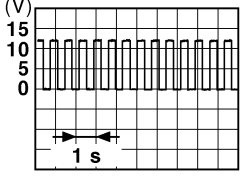
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
39 (P)	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
40 (LG)	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
41 (V)	Ground	Battery power supply	Input	Ignition switch OFF	Battery voltage
42 (V)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time	0 V
				Any other time after passing the interior room lamp battery saver operation time	Battery voltage
43 (L)	Ground	Rear wiper motor	Output	Rear wiper switch OFF	0 V
				Rear wiper switch ON	Battery voltage
44 (L/W)	Ground	Rear wiper auto stop	Input	Rear wiper stop position	0 V
				Ignition switch ON Any position other than rear wiper stop position	 <p style="text-align: right; font-size: small;">JPMIA0197GB</p>
45 (GR)	Ground	Back door lock actuator	Output	Back door opener switch Pressed	Battery voltage (300ms)
				Not pressed	0 V
47 (G/Y)	Ground	Turn signal LH	Output	Turn signal switch OFF	0 V
				Ignition switch ON Turn signal switch LH	 <p style="text-align: right; font-size: small;">PKID0926E</p>
					6.5 V
48 (G/B)	Ground	Turn signal RH	Output	Turn signal switch OFF	0 V
				Ignition switch ON Turn signal switch RH	 <p style="text-align: right; font-size: small;">PKID0926E</p>
					6.5 V
49 (Y)	Ground	Rear fog lamp	Output	Lighting switch 1ST and front fog lamp switch ON Rear fog lamp switch OFF	0 V
				Rear fog lamp switch ON	Battery voltage
51 (R/W)*1 (R)*2	Ground	Stop lamp switch	Input	Depress the brake pedal	Battery voltage
				Release the brake pedal	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			
+	-					
52 (R)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0 V
53 (L)	Ground	Power window power supply	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
54 (O)	Ground	Door unlock (All)	Output	Door lock/unlock switch	Pressed to the unlock side	Battery voltage
					Pressed to the lock side	0 V
55 (B)	Ground	Ground	—	Ignition switch ON		0 V
56 (Y) ^{*1} (SB) ^{*2}	Ground	Door lock (All)	Output	Door lock/unlock switch	Pressed to the unlock side	0 V
					Pressed to the lock side	Battery voltage
57 (Y)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
58 (P)	Ground	Power window power supply	Output	Ignition switch OFF		Battery voltage
59 (BR)	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		Battery voltage
60 (GR)	Ground	Driver door unlock	Output	Door lock/unlock switch	Pressed to the unlock side	Battery voltage
					Pressed to the lock side	0 V

*1: With Intelligent Key system

*2: Without Intelligent Key system

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BCM (BODY CONTROL MODULE)

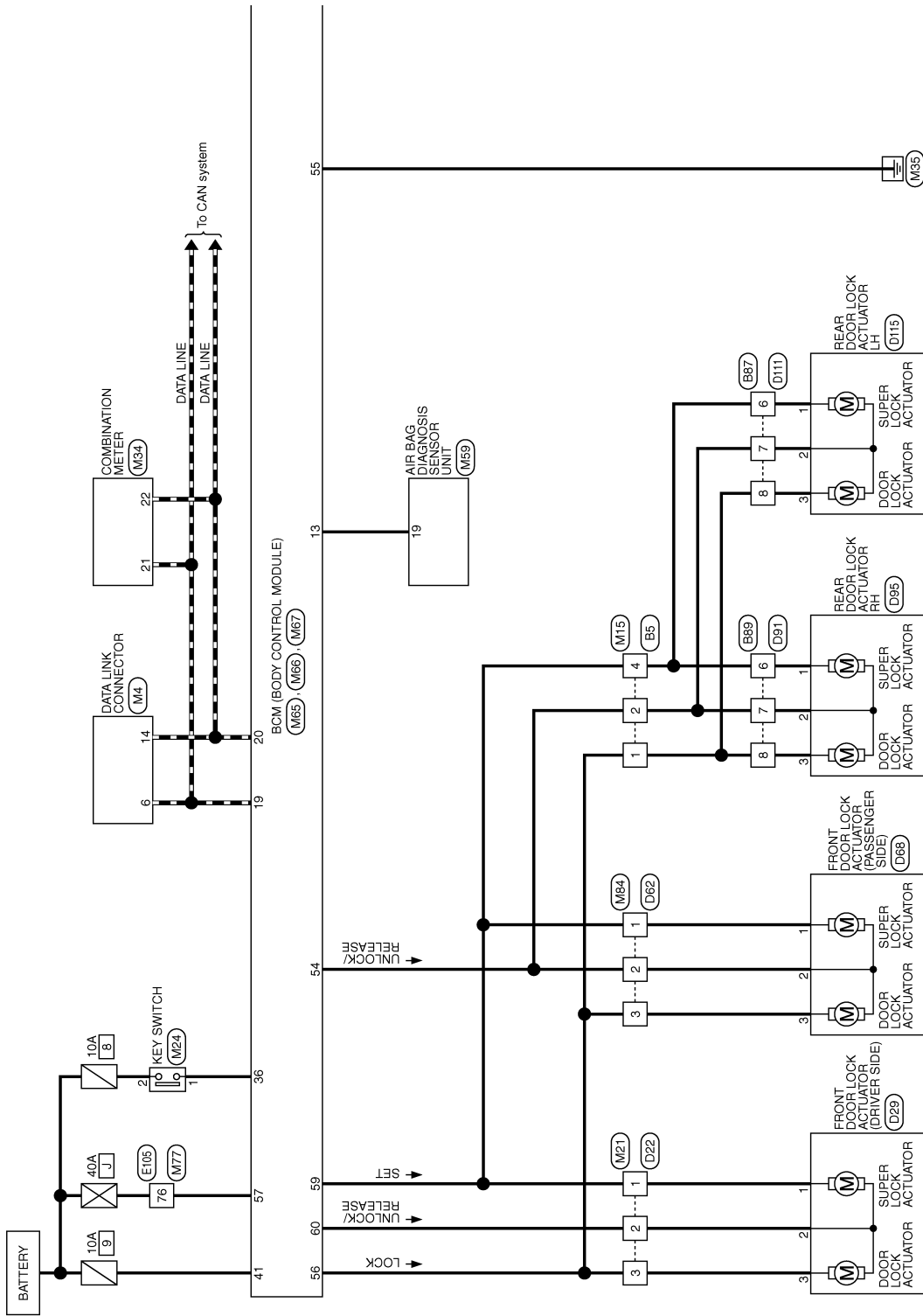
[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - SUPER LOCK CONTROL SYSTEM -

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SUPER LOCK SYSTEM (WITHOUT INTELLIGENT KEY)



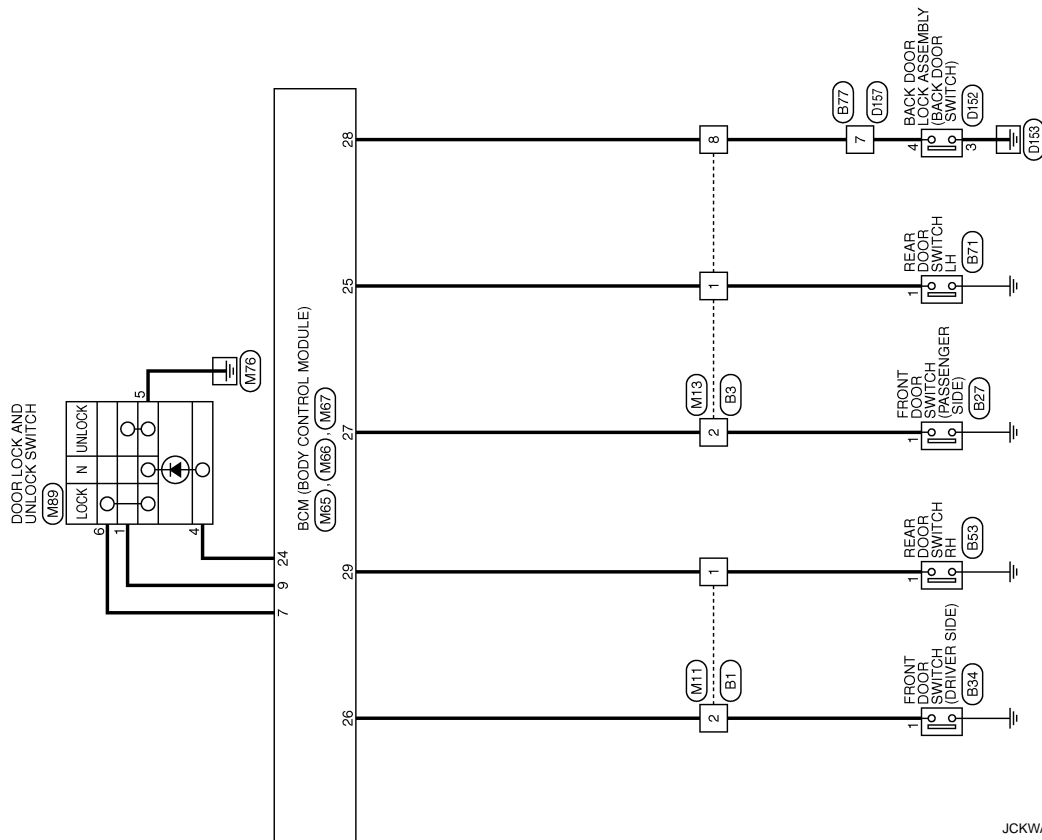
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]



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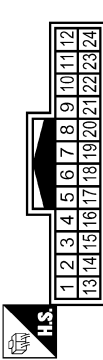
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

SUPER LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



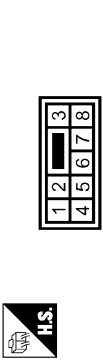
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	
2	R/W	-[RHD models]

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



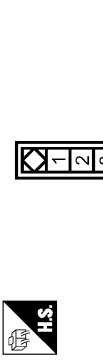
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2	BR	
8	G	-[RHD models]

Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Type	NS30MW-GS



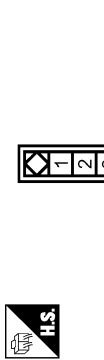
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	
2	O	
4	BR	

Connector No.	B7
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



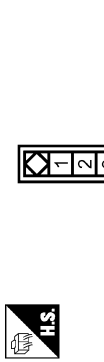
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	

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



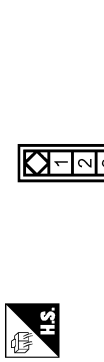
Terminal No.	Color of Wire	Signal Name [Specification]
1	R/W	

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



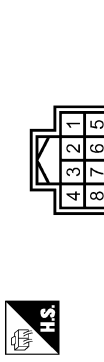
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	

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



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	

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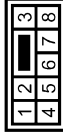
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

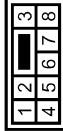
SUPER LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



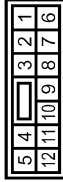
Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



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

Connector No.	D29
Connector Name	FRONT DOOR LOCK ACTUATOR (DRIVER SIDE)
Connector Type	FEA0FB-FHA2



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

Connector No.	D32
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	SB	- [Without Intelligent Key]

Connector No.	D58
Connector Name	FRONT DOOR LOCK ACTUATOR (PASSENGER SIDE)
Connector Type	FEA0FB-FHA2



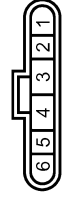
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	O	-
3	SB	- [Without Intelligent Key]

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	D85
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	FEA0FB-FHA2



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

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	NS98FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	-
7	O	-
8	SB	-

Connector No.	D115
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	FEA04FE-FHA2



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

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CH1CH 49309 EV 4M9



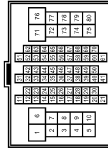
Terminal No.	Color of Wire	Signal Name [Specification]
3	B	-
4	G	-

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



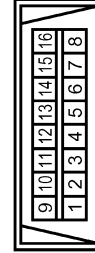
Terminal No.	Color of Wire	Signal Name [Specification]
7	G	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH08MW-NS16-TM4



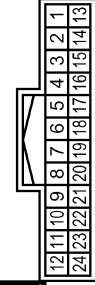
Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	-

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



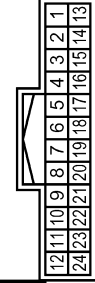
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



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

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	BR	- [RHD models]
8	G	-

JCKWA0268GE

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

SUPER LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



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

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



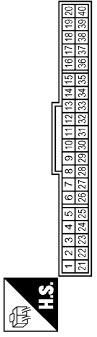
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	GR	-
3	SB	-

Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	AQ2MW



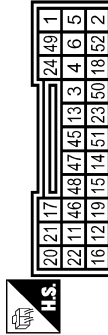
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-

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	TK38FY-EX-SC



Terminal No.	Color of Wire	Signal Name [Specification]
19	R	UNLOCK

Connector No.	M55
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAB40FB



Terminal No.	Color of Wire	Signal Name [Specification]
7	P	LOCK/UNLOCK SW (LOCK)
9	BR	LOCK/UNLOCK SW (UNLOCK)
13	R	SHOCK DETECT SIG
18	L	CAN-H
20	P	CAN-L
24	GR	DOOR LOCK STATUS IND
25	GR	DOOR SW (FL)
26	R	DOOR SW (DR)
27	BR	DOOR SW (AS)
28	G	DOOR SW (BACK)
29	LG	DOOR SW (RR)

36	V	KEY SW
----	---	--------

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FC121PC122S1017



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

JCKWA0269GE

A B C D E F G H I J DLK L M N O P

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

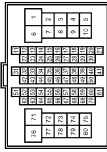
SUPER LOCK SYSTEM (WITHOUT INTELLIGENT KEY)

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 211PC063S0017



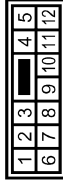
Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER)
55	B	GND(POWER)
56	SB	DOOR LOCK OUTPUT (ALL [Without Intelligent Key])
57	Y	BAT(F/L)
59	BR	SUPER LOCK SET OUTPUT
60	GR	UNLOCK (DR)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH807W-NS16-TM4



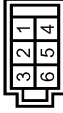
Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	---

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	NS12MM-GS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	---
2	O	---
3	SB	--[Without Intelligent Key]

Connector No.	M89
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	7703197674



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	---
4	GR	---
5	B	---
6	P	---

JCKWA0270GE

BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

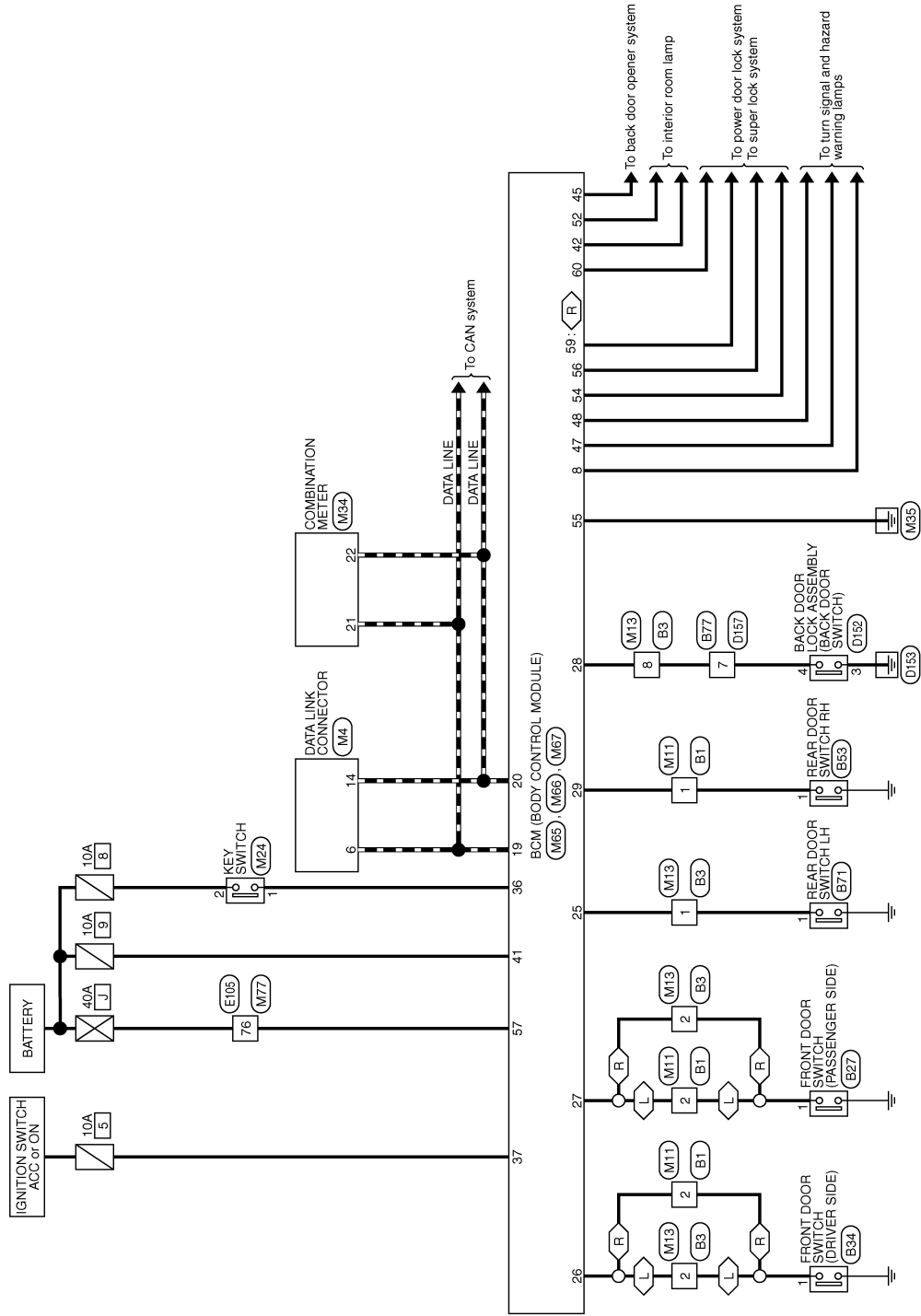
< ECU DIAGNOSIS >

Wiring Diagram - REMOTE KEYLESS ENTRY CONTROL SYSTEM -

INFOID:000000001184490

REMOTE KEYLESS ENTRY SYSTEM

◁ L ▷ : LHD models
 ◁ R ▷ : RHD models



2006/12/08

JCKWA0291GE

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DLK

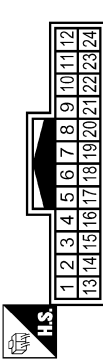
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

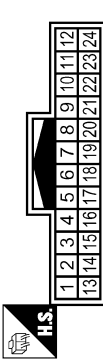
REMOTE KEYLESS ENTRY SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



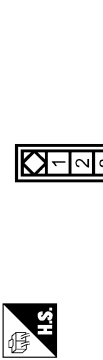
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	—
2	BR	—[LHD models]
2	R/W	—[RHD models]

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



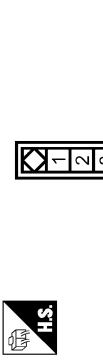
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	—
2	R/W	—[LHD models]
2	BR	—[RHD models]
8	G	—

Connector No.	B7
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	A03FW



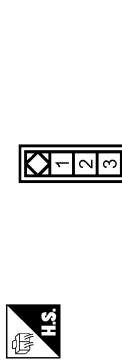
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	—

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



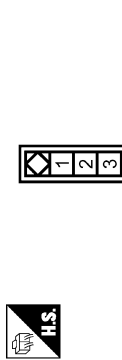
Terminal No.	Color of Wire	Signal Name [Specification]
1	R/W	—

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



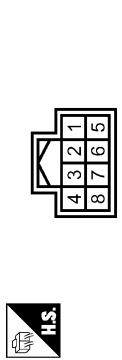
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	—

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



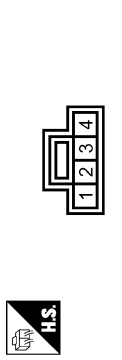
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	—

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	—

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CINCH 43209 EV-4M9



Terminal No.	Color of Wire	Signal Name [Specification]
3	B	—
4	G	—

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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

REMOTE KEYLESS ENTRY SYSTEM

Connector No.	D167
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



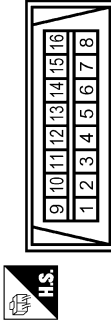
Terminal No.	Color of Wire	Signal Name [Specification]
7	G	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS1(E-TM4)



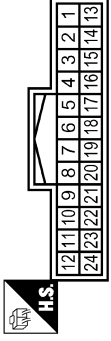
Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	-

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



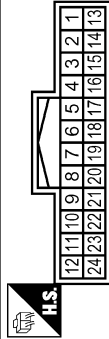
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	-
14	P	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



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

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



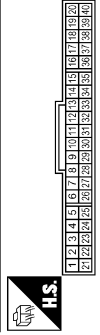
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	R	- [LHD models]
2	BR	- [RHD models]
8	G	-

Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	A02MW



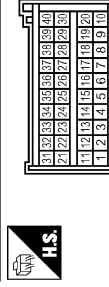
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-

Connector No.	M24
Connector Name	COMBINATION METER
Connector Type	S4B4FW



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	J4B4JFB



Terminal No.	Color of Wire	Signal Name [Specification]
8	LG	HAZARD SW
19	L	CAN-H
20	P	CAN-L
25	GR	DOOR SW (RL)
26	R	DOOR SW (DR)
27	BR	DOOR SW (AS)
28	G	DOOR SW (BACK)
29	LG	DOOR SW (RR)
36	V	KEY SW
37	R	ACC SW

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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

REMOTE KEYLESS ENTRY SYSTEM

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 211PC122S1017



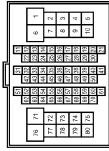
Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BAT(USE)
42	V	ROOM LAMP POWER SUPPLY
45	GR	BACK DOOR OPENER
47	G/Y	FLASHER OUTPUT (LEFT)
48	G/B	FLASHER OUTPUT (RIGHT)
52	R	ROOM LAMP OUTPUT

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 211PC083S0017



Terminal No.	Color of Wire	Signal Name [Specification]
54	O	DOOR UNLOCK OUTPUT (OTHER)
55	B	GN(D)POWER
56	SB	DOOR LOCK OUTPUT (ALL) (Without Intelligent Key)
57	Y	BAT(L)
59	BR	SUPER LOCK SET OUTPUT
60	GR	UNLOCK (DR)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-NS16-TM4



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

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BCM (BODY CONTROL MODULE)

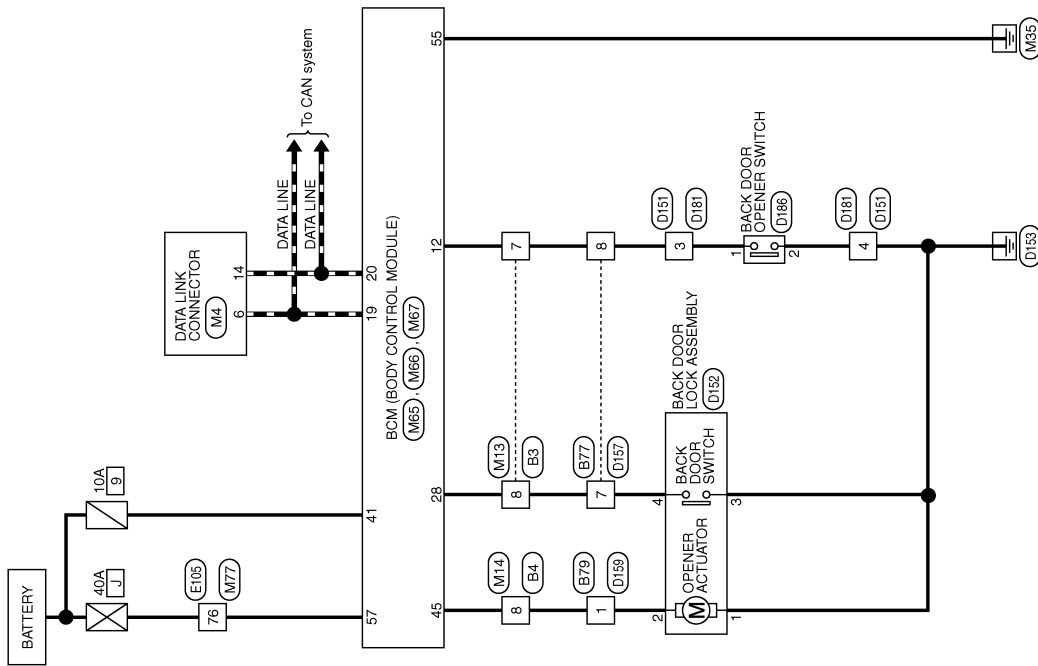
[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

Wiring Diagram - BACK DOOR OPENER CONTROL SYSTEM -

INFOID:000000001609220

BACK DOOR OPENER SYSTEM



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2006/12/08

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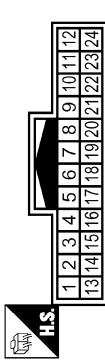
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

BACK DOOR OPENER SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



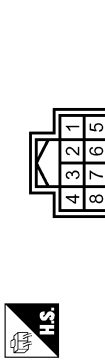
Terminal No.	Color of Wire	Signal Name [Specification]
7	P	
8	G	

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	
8	P	

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC



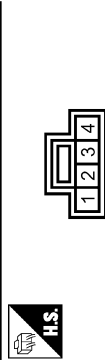
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
3	P	
4	B	

Connector No.	D152
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	CINCH 49309 EV 4M9



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW



Terminal No.	Color of Wire	Signal Name [Specification]
7	G	
8	P	

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC



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

JCKWA0296GE

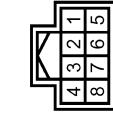
BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

BACK DOOR OPENER SYSTEM

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	TH08FW



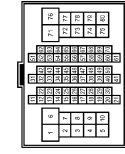
Terminal No.	Color of Wire	Signal Name [Specification]
3	P	
4	B	

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	RK02MGY



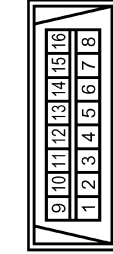
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	
2	B	

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW NS16-TM4



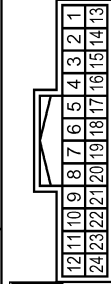
Terminal No.	Color of Wire	Signal Name [Specification]
76	Y	

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



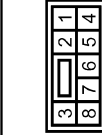
Terminal No.	Color of Wire	Signal Name [Specification]
6	L	
14	P	

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW



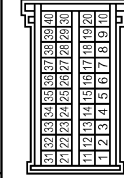
Terminal No.	Color of Wire	Signal Name [Specification]
7	P	
8	G	

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS



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

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	JAN60FB



Terminal No.	Color of Wire	Signal Name [Specification]
12	P	TRUNK/BACK DOOR OPEN SW
19	L	CAN-H
20	P	CAN-L
28	G	DOOR SW (BACK)

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FC121FC122S1017



Terminal No.	Color of Wire	Signal Name [Specification]
41	V	BAT(FUSE)
45	GR	BACK DOOR OPENER

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M
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BCM (BODY CONTROL MODULE)

[WITHOUT I-KEY, WITH SUPER LOCK]

< ECU DIAGNOSIS >

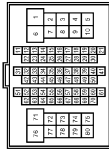
BACK DOOR OPENER SYSTEM

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 211PC083S0017



Terminal No.	Color of Wire	Signal Name [Specification]
55	B	GND(POWER)
57	Y	BAT1(F/L)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH807W-NS16-TM4



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

JCKWA0298GE

Fail Safe

Fail-safe index

BCM performs fail-safe control when any DTC listed below is detected.

INFOID:000000001559435

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Display contents of CONSULT	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 CONTROL

BCM detects a rear wiper stopping position according to a rear wiper auto stop signal.

When a rear wiper auto stop signal is in the condition listed below, BCM stops power supply to rear wiper after rear wiper is activated for five seconds.

Ignition switch	Rear wiper switch	Rear wiper auto stop signal
ON	OFF	The rear wiper auto stop signal (stop position) cannot be input for 5 seconds.
	ON	The rear wiper auto stop signal does not change for 5 seconds.

NOTE:

The above operation is repeated when operating the rear wiper switch one minute after the stop of the rear wiper caused by Fail-safe.

TURN SIGNAL LAMP CONTROL

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.

LIGHT & RAIN SENSOR MALFUNCTION DETECTION FUNCTION

BCM controls the following items when LIGHT & RAIN sensor has a malfunction.

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.

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

DTC Inspection Priority Chart

INFOID:000000001559436

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

DTC Index

INFOID:000000001559437

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.

CONSULT display	TIME		Fail-safe	Refer to
No DTC is detected. further testing may be required.	—	—	—	—
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-45 • Without Intelligent Key system SEC-194
B2191: DIFFERENCE OF KEY	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-47 • Without Intelligent Key system SEC-196
B2192: ID DISCORD BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-48 • Without Intelligent Key system SEC-197
B2193: CHAIN OF BCM-ECM	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-50 • Without Intelligent Key system SEC-199
B2194: DISCORD BCM-I-KEY	CRNT	PAST	×	SEC-51
B2195: ANTI SCANNING	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-52 • Without Intelligent Key system SEC-200
B2196: DONGLE NG	CRNT	PAST	×	<ul style="list-style-type: none"> • With Intelligent Key system SEC-53 • Without Intelligent Key system SEC-201

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

SYMPTOM DIAGNOSIS

DOOR LOCK FUNCTION SYMPTOMS

DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH : Symptom Table

INFOID:000000001184495

DOOR LOCK AND UNLOCK SWITCH OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-709, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Except driver side, doors are closed.
- Doors are not locked by keyfob.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page	
Door lock and unlock function does not operate with door lock and unlock switch.	1. Check BCM power supply and ground circuit.	DLK-741	
	2. Check door lock and unlock switch.	DLK-742	
	3. Check intermittent incident.	GI-39	
Door lock function does not operate with door lock and unlock switch.	1. Check door lock and unlock switch.	DLK-742	
	2. Check door switch.	Passenger side	DLK-747
		Rear LH	DLK-749
		Rear RH	DLK-750
		Back door	DLK-752
3. Check intermittent incident.	GI-39		
Specific door lock actuator does not operate.	1. Check door lock actuator.	Driver side	DLK-756
		Passenger side	DLK-757
		Rear LH	DLK-759
		Rear RH	DLK-760
	2. Check intermittent incident.	GI-39	
Door lock and unlock switch indicator does not illuminate.	1. Check door lock and unlock switch indicator.	DLK-744	
	2. Check Intermittent Incident.	GI-39	

KEYFOB

KEYFOB : Symptom Table

INFOID:000000001184496

KEYFOB OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-709, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of Vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Mechanical key is removed from ignition key cylinder.
- Door lock and unlock operation is normal.

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
All of the keyfob operations do not operate.	1. Check keyfob battery inspection.	DLK-775
	2. Check intermittent incident.	GI-39
Anti-hijack operation does not operate.	1. Check "SECURITY DOOR LOCK SET" setting in "WORK SUPPORT".	DLK-735
	2. Check Intermittent Incident.	GI-39

AUTO DOOR LOCK

AUTO DOOR LOCK : Symptom Table

INFOID:000000001184497

AUTO DOOR LOCK OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-709, "Work Flow"](#).
- Understand the operation when does it work, refer to [DLK-719, "AUTO DOOR LOCK : System Description"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- "SECURITY DOOR LOCK SET" is ON when setting on CONSULT-III.
- Door lock and unlock function is normal.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page	
Auto door lock operation does not operate.	1. Check "SECURITY DOOR LOCK SET" setting in "WORK SUPPORT".	DLK-735	
	2. Check door switch.	Driver side	DLK-746
		Passenger side	DLK-747
		Rear LH	DLK-749
		Rear RH	DLK-750
		Back door	DLK-752
	3. Check key switch.	DLK-754	
4. Check Intermittent Incident.	GI-39		

VEHICLE SPEED SENSING AUTO DOOR LOCK

VEHICLE SPEED SENSING AUTO DOOR LOCK : Symptom Table

INFOID:000000001184498

VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "Work Flow". Refer to [DLK-709, "Work Flow"](#).
- Understand the operation when does it work, refer to [DLK-721, "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.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- Door lock and unlock switch operation is normal.

DOOR LOCK FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Vehicle speed sensing auto door lock operation does not operate.	1. Check vehicle speed signal.	DLK-774
	2. Check Intermittent Incident.	GI-39

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BACK DOOR OPEN FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR OPEN FUNCTION SYMPTOMS

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : Symptom Table

INFOID:000000001184499

BACK DOOR OPENER FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-709, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of Vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Door lock function is normal.
- Vehicle speed is less than 5 km/h (3MPH).
- All doors are unlocked.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Back door opener function does not operate by back door opener switch.	1. Check back door opener switch.	DLK-752
	2. Check vehicle speed signal.	DLK-774
	3. Check back door opener actuator.	DLK-768
	4. Check Intermittent Incident.	GI-39

WARNING FUNCTION SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

WARNING FUNCTION SYMPTOMS

BACK DOOR

BACK DOOR : Symptom Table

INFOID:000000001184500

BACK DOOR OPEN WARNING OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-709, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of Vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- Door lock function and back door opener function is normal.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Back door open warning does not operate properly.	1. Check back door opener switch.	DLK-770
	2. Check intermittent incident.	GI-39

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HAZARD REMINDER FUNCTION

< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

HAZARD REMINDER FUNCTION

HAZARD WARNING LAMP

HAZARD WARNING LAMP : Symptom Table

INFOID:000000001184501

HAZARD REMINDER OPERATION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “Work Flow”. Refer to [DLK-709, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of Vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Conditions of Vehicle (Operating Conditions)

- “HAZARD LAMP SET” is ON when setting on CONSULT-III.
- Door lock function is normal.

Symptom Table

Symptom	Diagnosis/service procedure	Reference page
Buzzer reminder operation dose not operate properly.	1. Check setting of “HAZARD LAMP SET” with CONSULT-III.	DLK-737
	2. Check intermittent incident.	GI-39

SQUEAK AND RATTLE TROUBLE DIAGNOSES

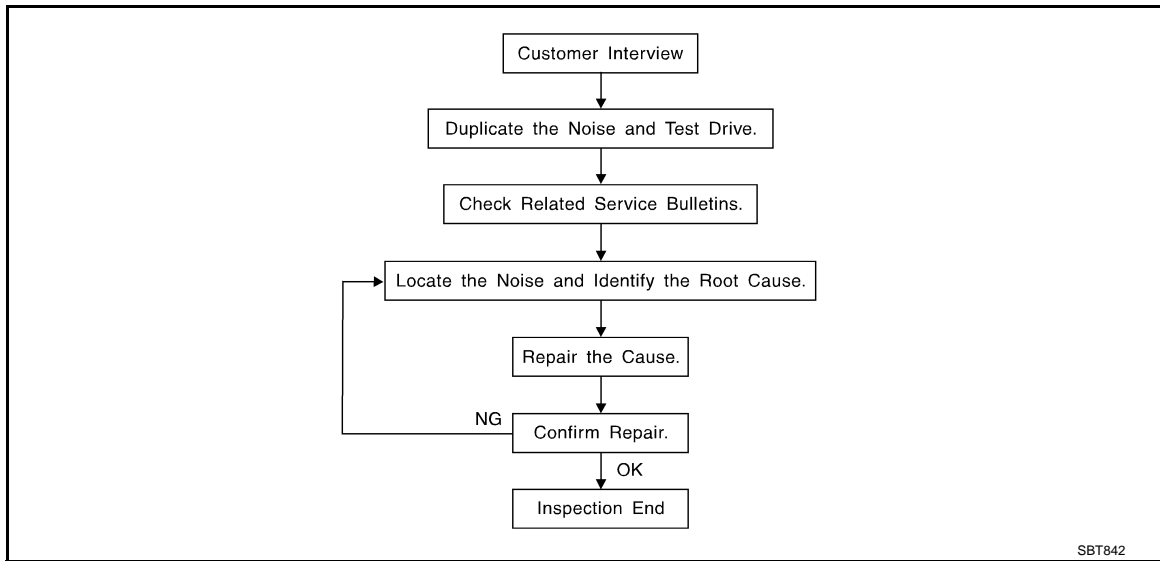
< SYMPTOM DIAGNOSIS >

[WITHOUT I-KEY, WITH SUPER LOCK]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000001184502



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-215, "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-213, "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]

INFOID:000000001184503

Inspection Procedure

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:000000001184504



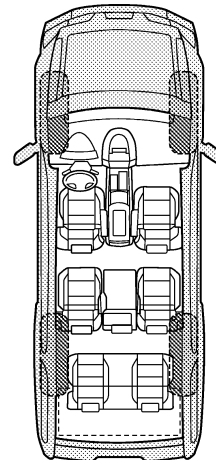
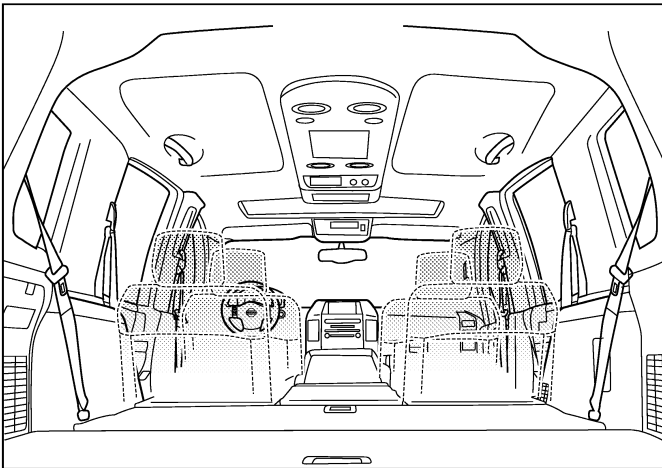
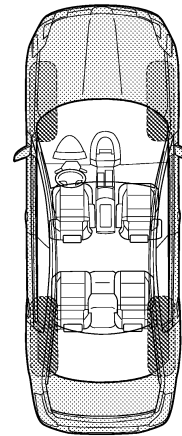
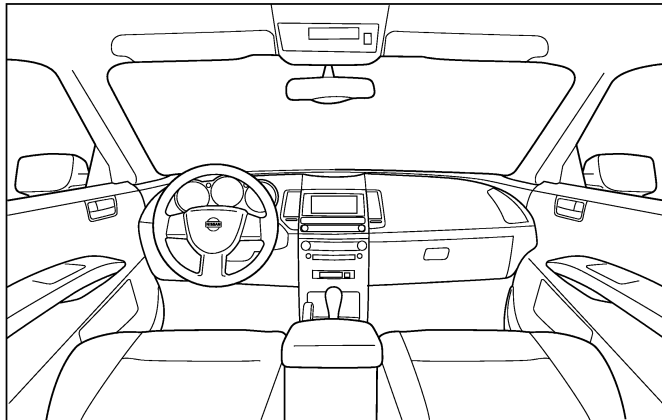
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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

PIIB8742E

PRECAUTIONS

< PRECAUTION >

[WITHOUT I-KEY, WITH SUPER LOCK]

PRECAUTION

PRECAUTIONS

Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000001184505

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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

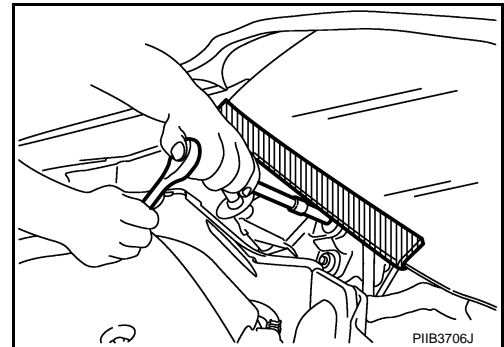
WARNING:

- 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 section.
- 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.

Procedure without Cowl Top Cover

INFOID:000000001184506

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



Steering Wheel Rotation after Battery Disconnect

INFOID:000000001184507

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.

If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.

If turning the steering wheel is required with the battery disconnected or discharged, 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. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)

PRECAUTIONS

< PRECAUTION >

[WITHOUT I-KEY, WITH SUPER LOCK]

3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

Work

INFOID:000000001184508

- 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 >

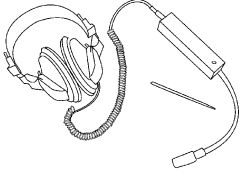
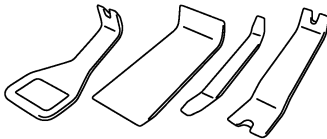

[WITHOUT I-KEY, WITH SUPER LOCK]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000001184509

Tool name	Description
<p>Engine ear</p>  <p>SIIA0995E</p>	<p>Locating the noise</p>
<p>Remover tool</p>  <p>PIIB7923J</p>	<p>Remove the clips, pawls, and metal clips</p>
<p>Power tool</p>  <p>PIIB1407E</p>	

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DLK

PRE-INSPECTION FOR DIAGNOSTIC

< ON-VEHICLE MAINTENANCE >

[WITHOUT I-KEY, WITH SUPER LOCK]

ON-VEHICLE MAINTENANCE

PRE-INSPECTION FOR DIAGNOSTIC

Basic Inspection

INFOID:000000001184510

BASIC INSPECTION

1. CHECK DOOR LOCK AND UNLOCK SWITCH OPERATION

Check door lock and unlock operation by operating door lock and unlock switch.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-809, "DOOR LOCK AND UNLOCK SWITCH : Symptom Table"](#).

2. CHECK KEYFOB OPERATION

Check door lock and unlock operation by operating lock and unlock button of keyfob.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to [DLK-809, "KEYFOB : Symptom Table"](#).

3. CHECK AUTO DOOR LOCK OPERATION

Check auto door lock operation. Refer to [DLK-719, "AUTO DOOR LOCK : System Description"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Refer to [DLK-810, "AUTO DOOR LOCK : Symptom Table"](#).

4. CHECK VEHICLE SPEED SENSING AUTO DOOR LOCK OPERATION

Check vehicle speed sensing auto door lock. Refer to [DLK-721, "VEHICLE SPEED SENSING AUTO DOOR LOCK : System Description"](#)

Is the inspection result normal?

YES >> GO TO 5.

NO >> Refer to [DLK-810, "VEHICLE SPEED SENSING AUTO DOOR LOCK : Symptom Table"](#).

5. CHECK BACK DOOR OPENER SWITCH OPERATION

Check back door opener operation by operating back door opener switch.

Is the inspection result normal?

YES >> GO TO 6.

NO >> Refer to [DLK-812, "BACK DOOR OPENER SWITCH : Symptom Table"](#).

6. CHECK HAZARD REMINDER FUNCTION

Check hazard reminder function by operating the following switches.

- Lock and unlock button of keyfob.

Is the inspection result normal?

YES >> GO TO 7.

NO >> Refer to [DLK-814, "HAZARD WARNING LAMP : Symptom Table"](#).

7. CHECK WARNING FUNCTION

Check that warning function operate properly. Refer to [DLK-729, "System Description"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Refer to [DLK-814, "HAZARD WARNING LAMP : Symptom Table"](#).

8. CHECK OUT

CHECK OUT.

>> INSPECTION END

HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

ON-VEHICLE REPAIR

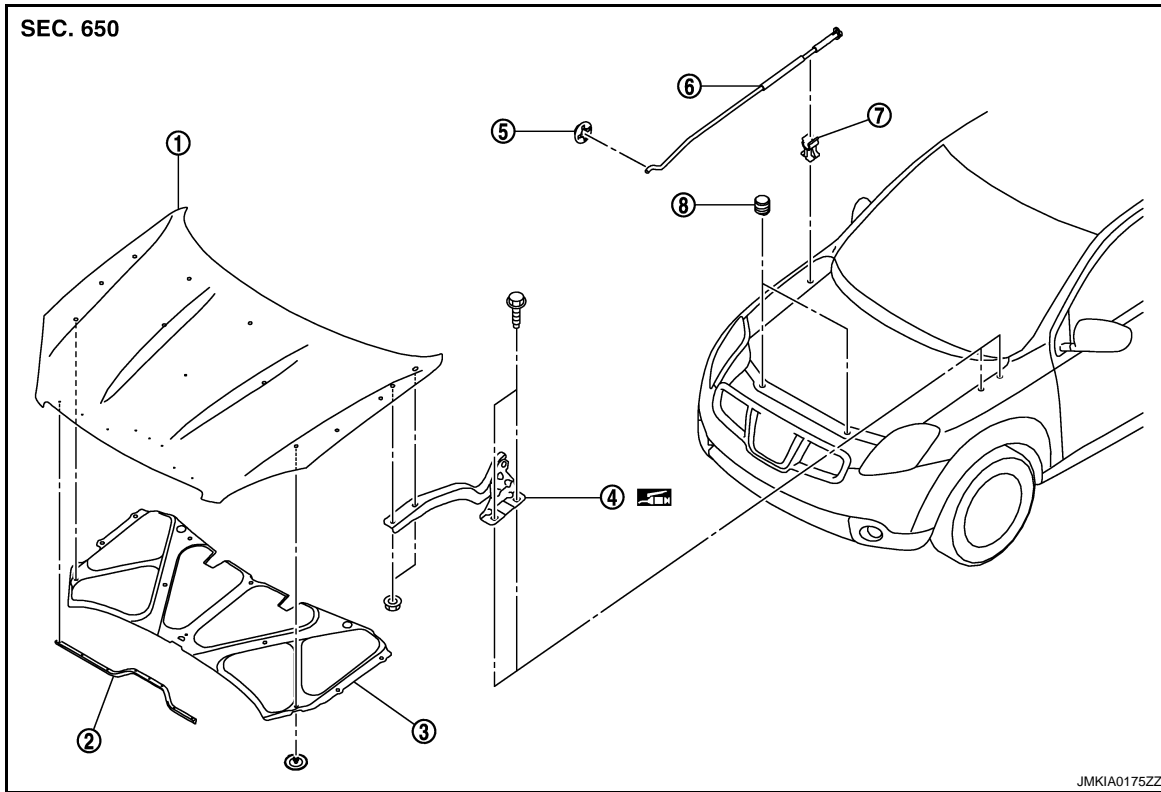
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000001538566

REMOVAL



- | | | |
|------------------|------------------------|---------------------|
| 1. Hood assembly | 2. Hood sealing rubber | 3. Hood insulator |
| 4. Hood hinge | 5. Grommet | 6. Hood support rod |
| 7. Clamp | 8. Hood bumper rubber | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

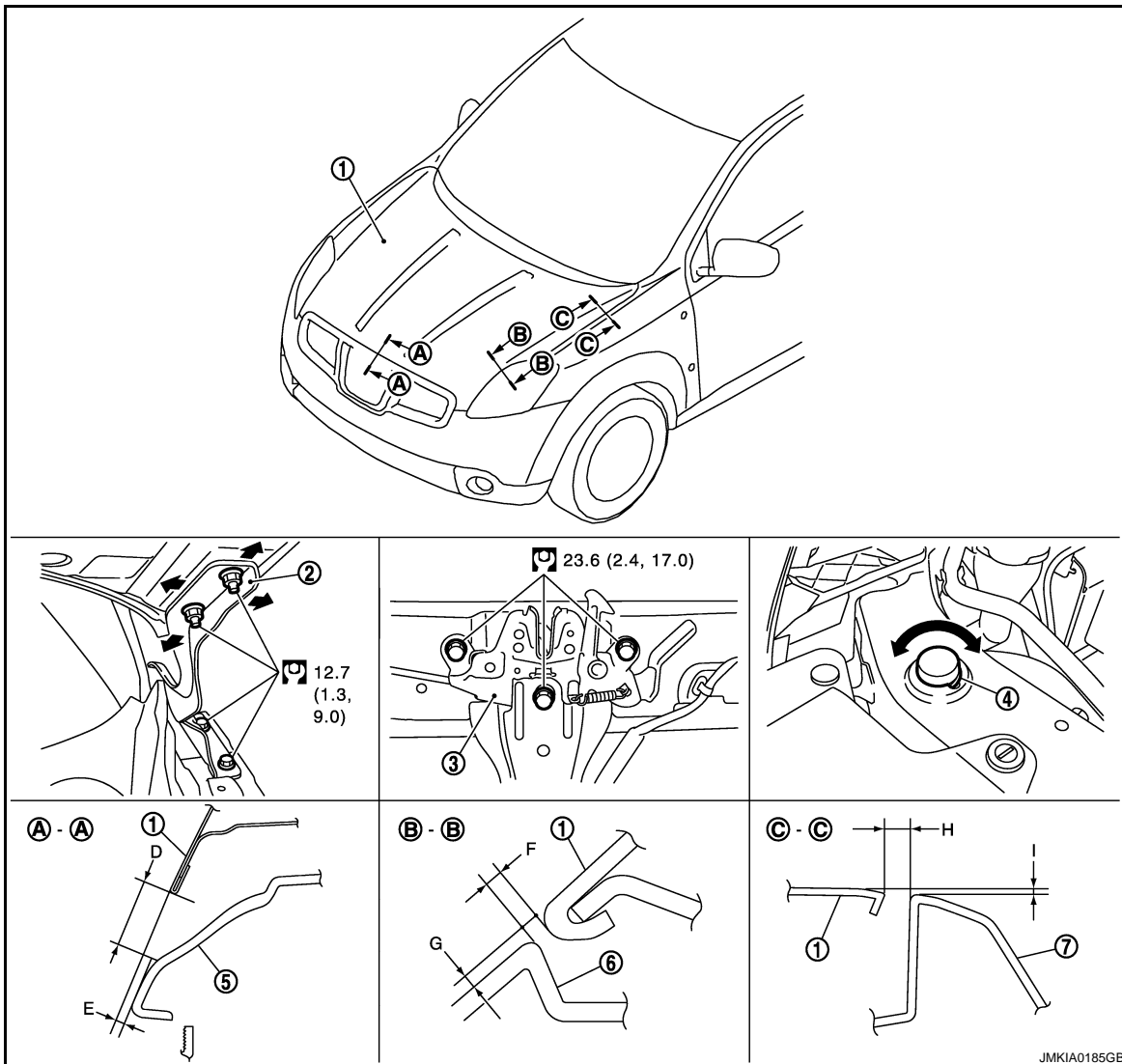
ADJUSTMENT

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HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]



- | | | |
|-----------------------|-----------------|---------------------------|
| 1. Hood assembly | 2. Hood hinge | 3. Hood lock assembly |
| 4. Hood bumper rubber | 5. Front grille | 6. Front combination lamp |
| 7. Front fender | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:000000001538567

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 hinge mounting nuts on the hood to remove the hood assembly.

CAUTION:

Perform work with 2 workers, because of its heavy weight.

3. Remove the following parts after removing the hood assembly.
 - Hood insulator
 - Hood sealing rubber

INSTALLATION

Install in the reverse order of removal.

CAUTION:

HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

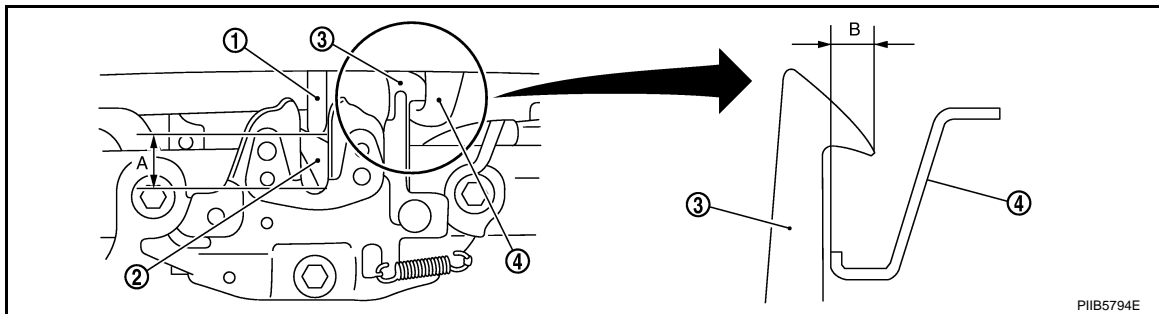
- Perform work with 2 workers, because of its heavy weight.
- Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installing, perform hood fitting adjustment. Refer to [DLK-827. "HOOD ASSEMBLY : Adjustment"](#).

HOOD ASSEMBLY : Adjustment

INFOID:000000001538568

Portion			Standard	Right/left Clearance (MAX)
Hood – Front bumper	A – A	D	Clearance 5.2 – 9.2 mm (0.205 – 0.362 in)	2.0 mm (0.079 in)
		E	Surface height - 0.2 – 3.8 mm (- 0.008 – 0.150 in)	2.0 mm (0.079 in)
Hood – Front combination lamp	B – B	F	Clearance 3.7 – 7.7 mm (0.140 – 0.303 in)	2.0 mm (0.079 in)
		G	Surface height - 2.3 – 2.3 mm (- 0.091 – 0.091 in)	2.3 mm (0.091 in)
Hood – Front fender	C – C	H	Clearance 3.9 – 5.9 mm (0.154 – 0.232 in)	1.5 mm (0.059 in)
		I	Surface height - 1.0 – 1.0 mm (- 0.039 – 0.039 in)	1.5 mm (0.059 in)

1. 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.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the hood lock and adjust the height by rotating the bumper rubber until the hood becomes 1 to 1.5 mm (0.039 to 0.059 in) lower than the fender.
4. 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.
5. Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately. 200 mm (7.874 in) height or by pressing the hood lightly [approximately. 29 N (3 kg)].



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)

6. After adjustment tighten lock bolts to the specified torque.

HOOD HINGE

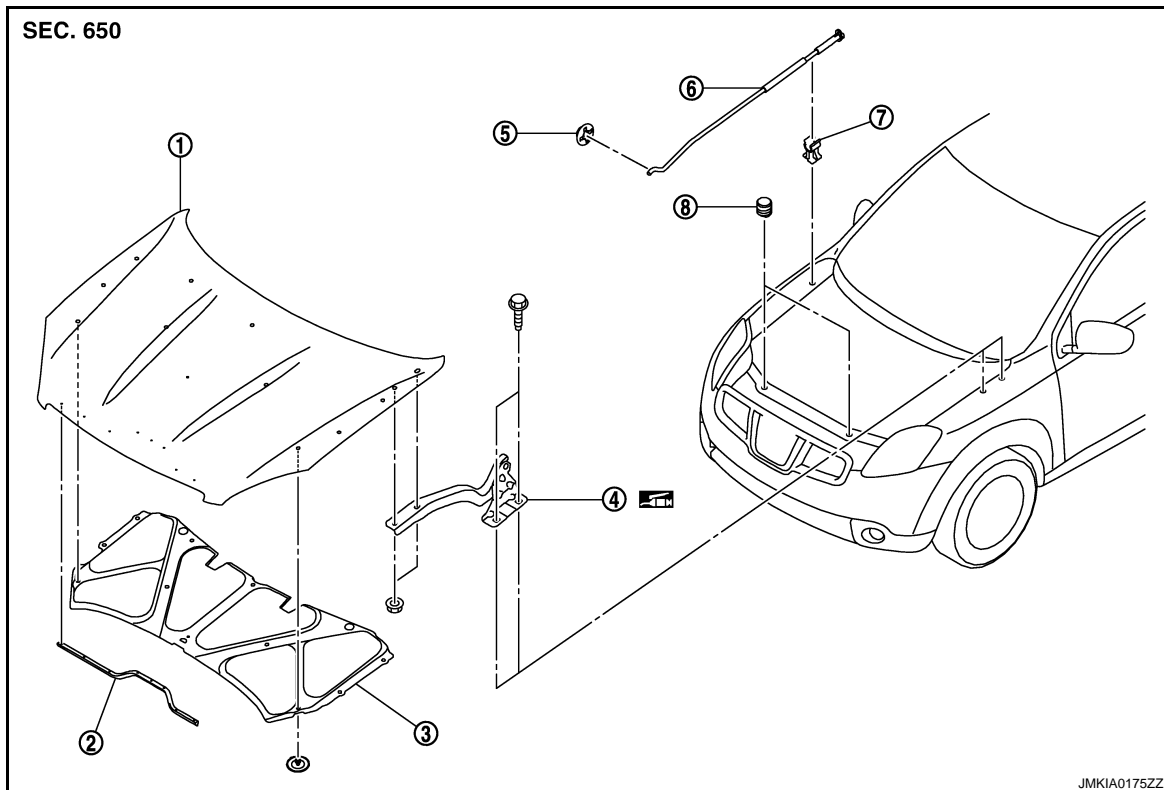
HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

HOOD HINGE : Exploded View

INFOID:000000001538569



- | | | |
|------------------|------------------------|---------------------|
| 1. Hood assembly | 2. Hood sealing rubber | 3. Hood insulator |
| 4. Hood hinge | 5. Grommet | 6. Hood support rod |
| 7. Clamp | 8. Hood bumper rubber | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD HINGE : Removal and Installation

INFOID:000000001538570

REMOVAL

1. Remove the hood assembly. Refer to [DLK-826. "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove the front fender. Refer to [DLK-835. "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:

- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.
- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installation, perform hood fitting adjustment. Refer to [DLK-827. "HOOD ASSEMBLY : Adjustment"](#).

HOOD SUPPORT ROD

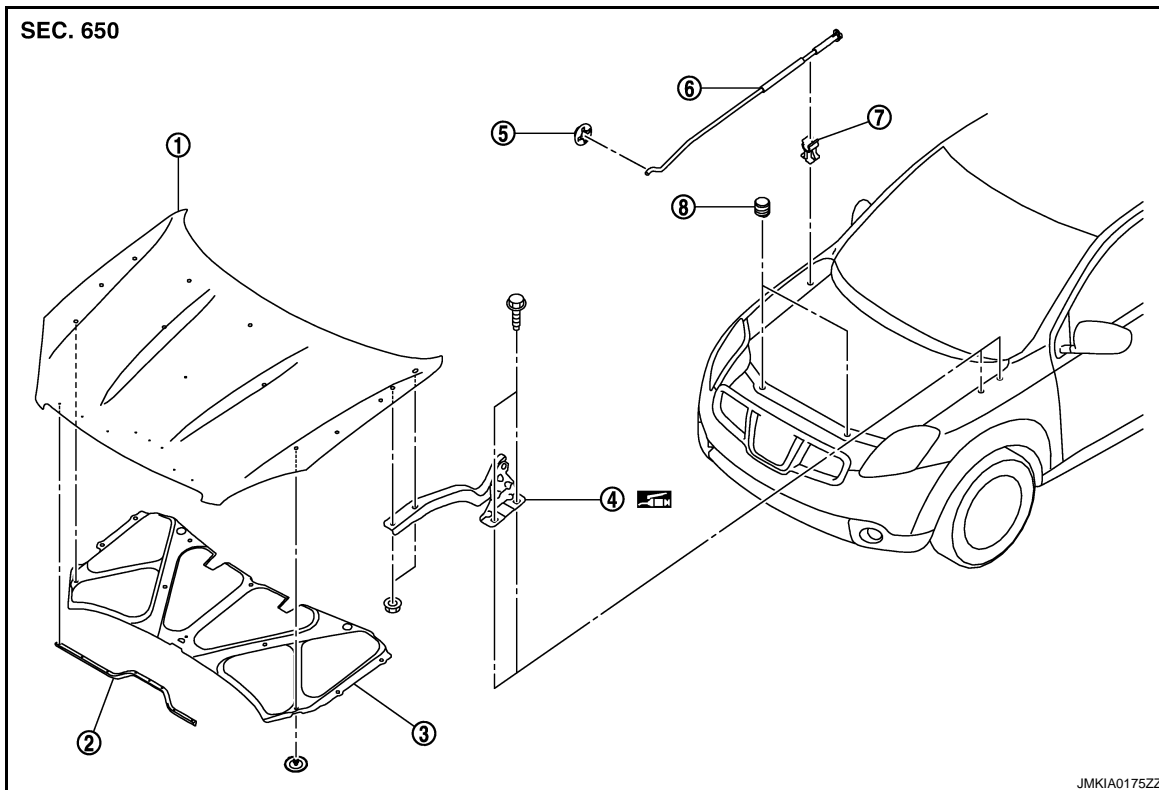
HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

HOOD SUPPORT ROD : Exploded View

INFOID:000000001538571



- | | | |
|------------------|------------------------|---------------------|
| 1. Hood assembly | 2. Hood sealing rubber | 3. Hood insulator |
| 4. Hood hinge | 5. Grommet | 6. Hood support rod |
| 7. Clamp | 8. Hood bumper rubber | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000001538572

DLK

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

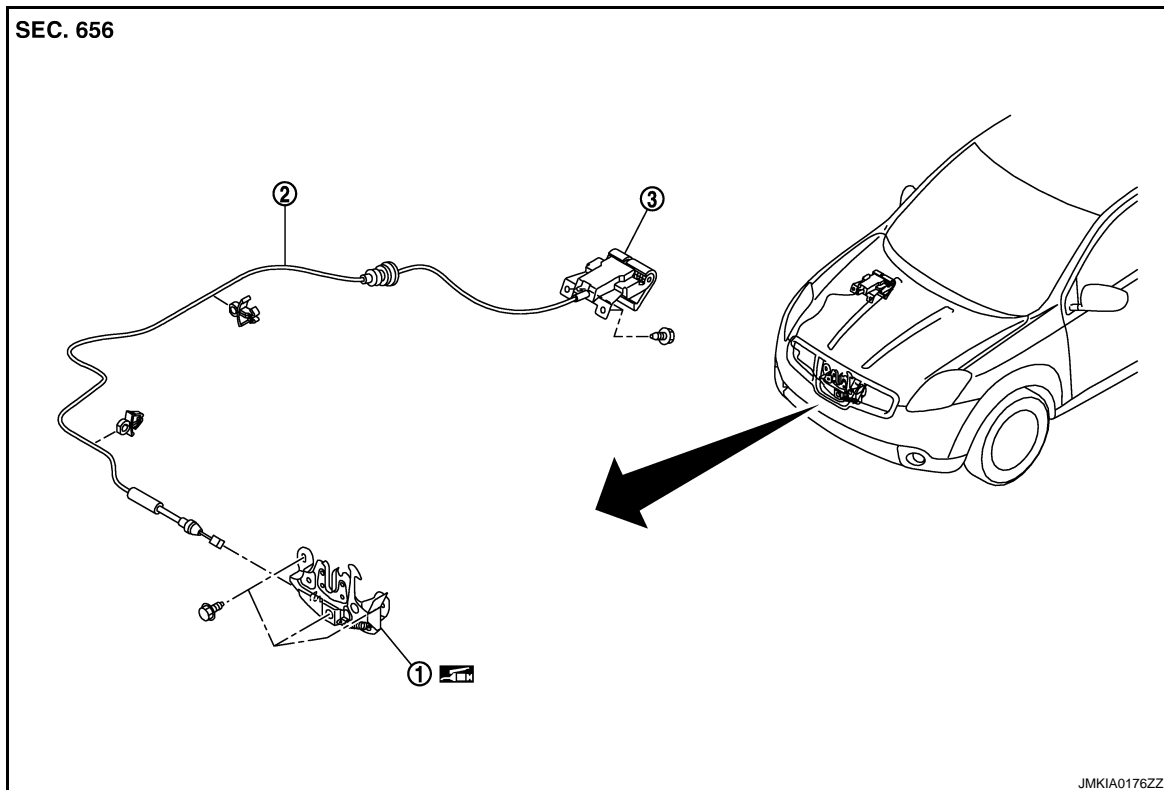
HOOD

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

HOOD LOCK CONTROL : Exploded View

INFOID:000000001538573



1. Hood lock assembly

2. Hood lock control cable

3. Hood lock opener

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD LOCK CONTROL : Removal and Installation

INFOID:000000001538574

REMOVAL

1. Remove the hood lock opener mounting bolts, and then remove the hood lock opener.
2. Remove the front bumper fascia. Refer to [EXT-11. "Removal and Installation"](#).
3. Remove the hood lock mounting bolts, and then remove the hood lock.
4. Remove the fender protector. Refer to [EXT-22. "Removal and Installation"](#).
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:

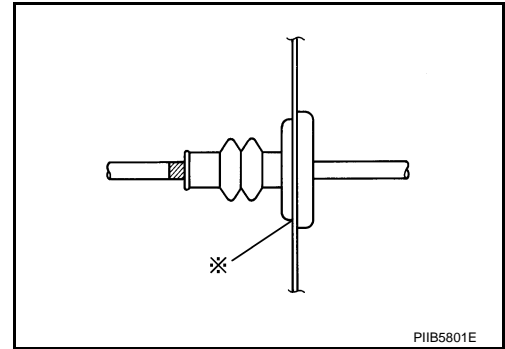
- Do not to bend the cable too much, keeping the radius 100 mm (3.937 in) or more.

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-827, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform the hood lock control inspection. Refer to [DLK-831, "HOOD LOCK CONTROL : Inspection"](#).

HOOD LOCK CONTROL : Inspection

INFOID:000000001538575

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

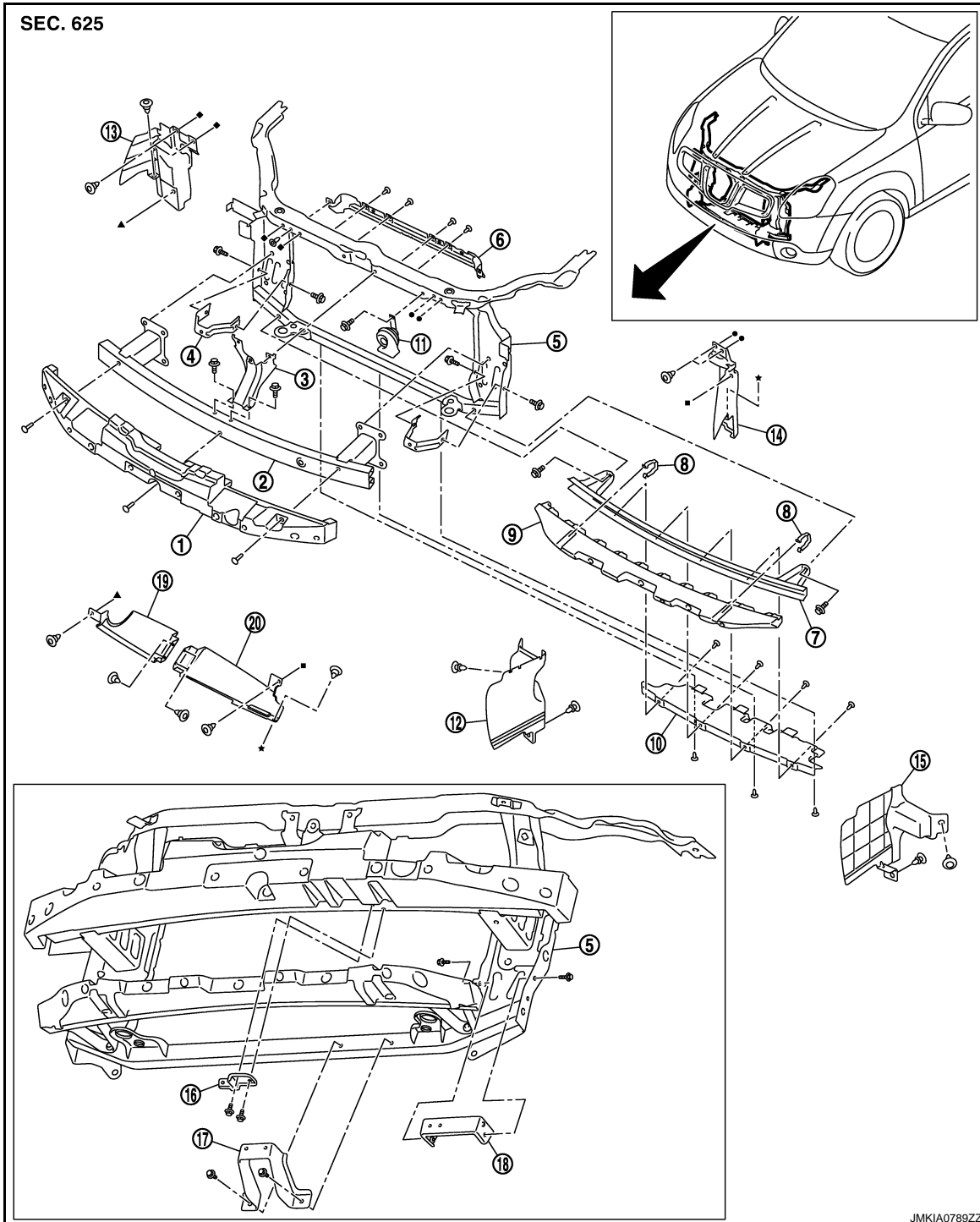
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

RADIATOR CORE SUPPORT

Exploded View

INFOID:000000001538576



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|--|-----------------------------------|-----------------------------------|
| 1. Energy absorber | 2. Bumper reinforcement | 3. Hood lock support stay |
| 4. Intercooler bracket
(with K9K engine models) | 5. Radiator core support assembly | 6. Upper air dam |
| 7. Apron bracket assembly | 8. Fastener | 9. Energy absorber lower |
| 10. Front air guide lower | 11. Horn assembly | 12. Front air guide side lower RH |
| 13. Front air guide side RH | 14. Front air guide side LH | 15. Front air guide side lower LH |

DLK-832

RADIATOR CORE SUPPORT

[WITHOUT I-KEY, WITH SUPER LOCK]

< ON-VEHICLE REPAIR >

- 16. Oil cooler bracket upper
- 19. Front air guide RH

- 17. Oil cooler bracket lower
- 20. Front air guide LH

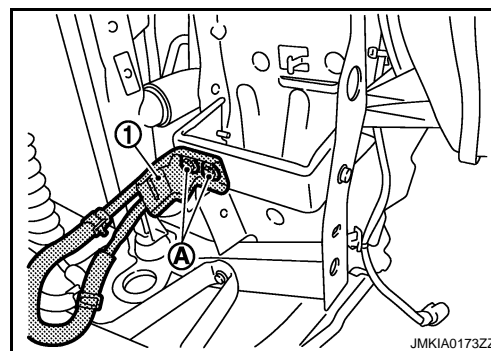
- 18. Oil cooler bracket side

Removal and Installation

INFOID:000000001538577

REMOVAL

1. Remove the front fillet molding. Refer to [EXT-23, "Removal and Installation"](#).
2. Remove the front grille. Refer to [EXT-17, "Removal and Installation"](#).
3. Remove the front bumper fascia and the energy absorber. Refer to [EXT-11, "Removal and Installation"](#).
4. Remove the energy absorber (upper and lower). Refer to [EXT-11, "Removal and Installation"](#).
5. Remove the air cleaner duct. Refer to [EM-28, "Removal and Installation"](#).
6. Remove the all air guides mounting clips, and then remove the all air guides.
7. Remove the front combination lamp (LH/RH). Refer to [EXL-175, "Removal and Installation"](#).
8. Disconnect the hood lock control cable clamp, and then remove the hood lock assembly. Refer to [DLK-830, "HOOD LOCK CONTROL : Removal and Installation"](#).
9. Remove the hood lock stay mounting bolts, and then remove the hood lock stay.
10. Remove the bumper reinforcement. Refer to [EXT-11, "Removal and Installation"](#).
11. Remove the hood switch (with theft warning systems). Refer to [SEC-SEC-166, "Removal and Installation"](#).
12. Remove the crush zone sensor. Refer to [SR-14, "Removal and Installation"](#).
13. Remove the horn. Refer to [HRN-5, "Removal and Installation"](#).
14. Remove the ambient sensor. Refer to [VTL-23, "Removal and Installation"](#).
15. Remove the radiator mounting bracket (LH/RH). Refer to [CO-13, "Removal and Installation"](#).
16. Remove the Intelligent Key warning buzzer (with Intelligent Key systems). Refer to [DLK-275, "Removal and Installation"](#).
17. Remove the charge air cooler assembly (with K9K and M9R engine models). Refer to [EM-267, "Removal and Installation"](#).
18. Remove the A/T fluid cooler assembly and the A/T fluid cooler bracket (with A/T models only). Refer to [TM-563, "FLUID COOLER : Removal and Installation"](#).
19. Remove the A/T fluid cooler pipe bracket (1) mounting bolts (A) (with A/T models only).



20. Remove the washer tank. Refer to [WW-99, "Removal and Installation"](#).

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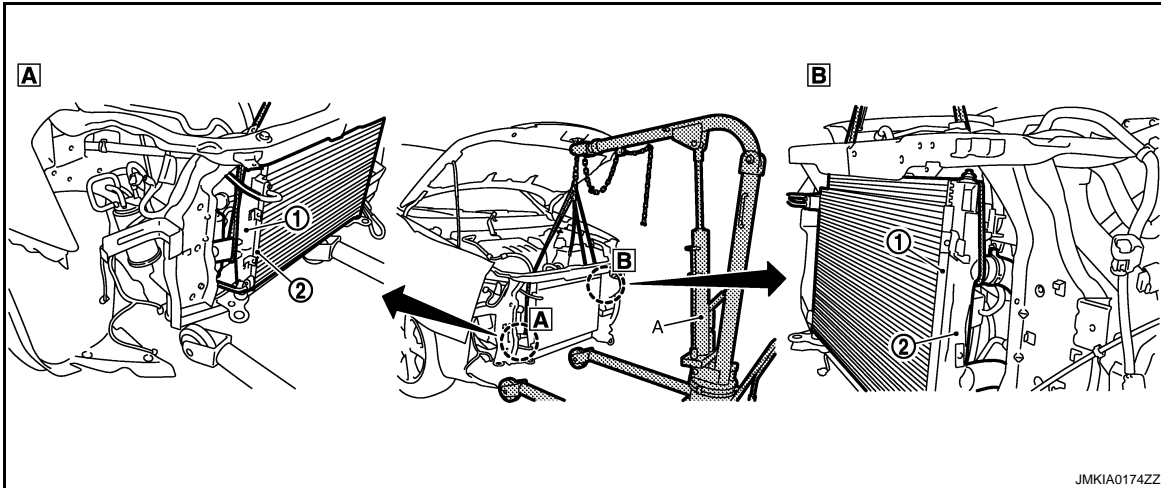
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RADIATOR CORE SUPPORT

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

21. Use the baby crane (A) or another piece of equipment to suspend the radiator (1) and condenser (2).



22. Remove the radiator core support assembly mounting bolts, and draw out the radiator core support assembly to the front of the vehicle.

23. Remove the radiator core support assembly.

24. Remove the following parts after removing the radiator core support assembly.

- Inlet tube bracket (with K9K and M9R engine models)
- Intercooler bracket (with K9K and M9R engine models)
- Apron reinforcement bracket

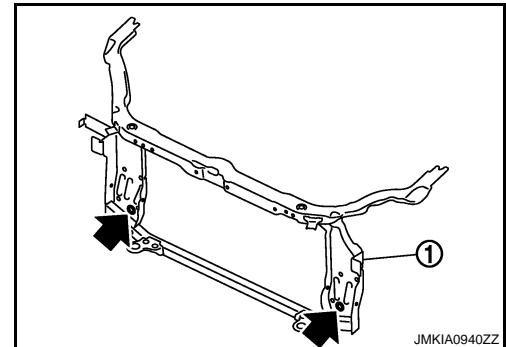
INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, refill the following parts.

- Radiator core support (1) must be aligned to engine side member vertically. Use round pin to locate through both holes.



- A/T fluid. Refer to [TM-530, "Changing"](#).
- Engine coolant. Refer to [CO-9, "Refilling"](#).

FRONT FENDER

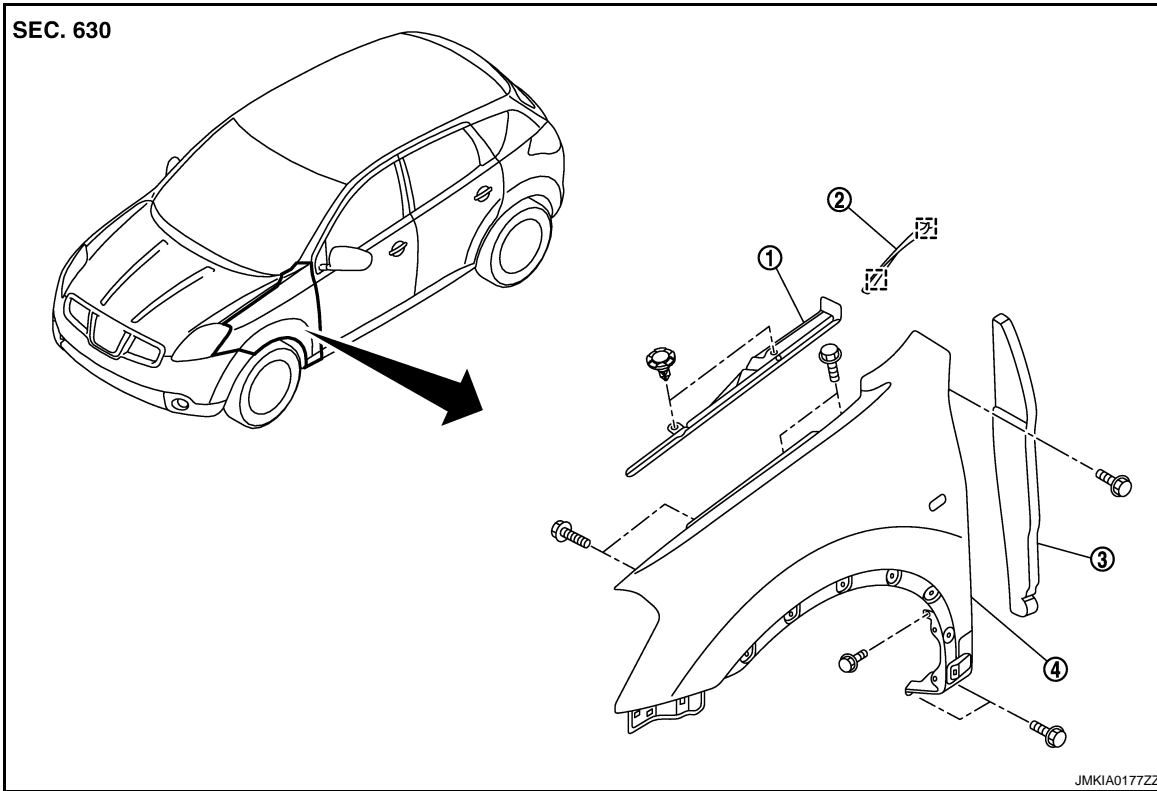
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
FRONT FENDER

Exploded View

INFOID:000000001538578



1. Hood seal assembly (side)
2. Front fender finisher
3. Front fender seal
4. Front fender

 : Metal clip

Removal and Installation

INFOID:000000001538579

REMOVAL

1. Remove the outer fender protector. Refer to [EXT-22, "Removal and Installation"](#).
2. Remove the inner fender protector. Refer to [EXT-22, "Removal and Installation"](#).
3. Remove the side turn signal lamp. Refer to [EXL-181, "Removal and Installation"](#).
4. Remove the front bumper fascia. Refer to [EXT-11, "Removal and Installation"](#).
5. Remove the front combination lamp.
 - XENON TYPE: [EXL-175, "Removal and Installation"](#).
 - HALOGEN TYPE: [EXL-329, "Removal and Installation"](#).
6. Remove the mounting clips and remove hoodledge cover.
7. Remove the center mudguard. Refer to [EXT-28, "Removal and Installation"](#).

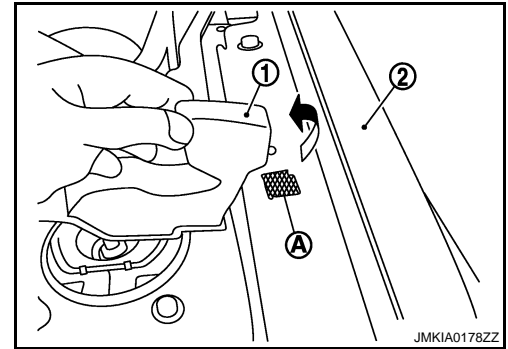
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FRONT FENDER

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

8. Peel away the double-faced adhesive tape (A) of the front fender seal (1) from the front fender (2).



9. Remove the mounting bolts and remove the front fender.

CAUTION:

Use a shop cloth to protect the body from being damaged during removal.

10. Remove the following parts after removing the front fender.
- Front fender seal.
 - Bumper side bracket. Refer to [EXT-11, "Exploded View"](#).

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Replace the double-faced adhesive tape on the back of the cowl top cover seal with new tape.
- Do not wash the vehicle within 24 hours after installation so as to keep adhesive.
- After installation, apply the touch-up paint (the body color) onto the head of the front fender mounting bolts.
- After installation, check the front fender adjustment. Refer to [DLK-827, "HOOD ASSEMBLY : Adjustment"](#) and [DLK-839, "DOOR ASSEMBLY : Adjustment"](#).

FRONT DOOR

< ON-VEHICLE REPAIR >

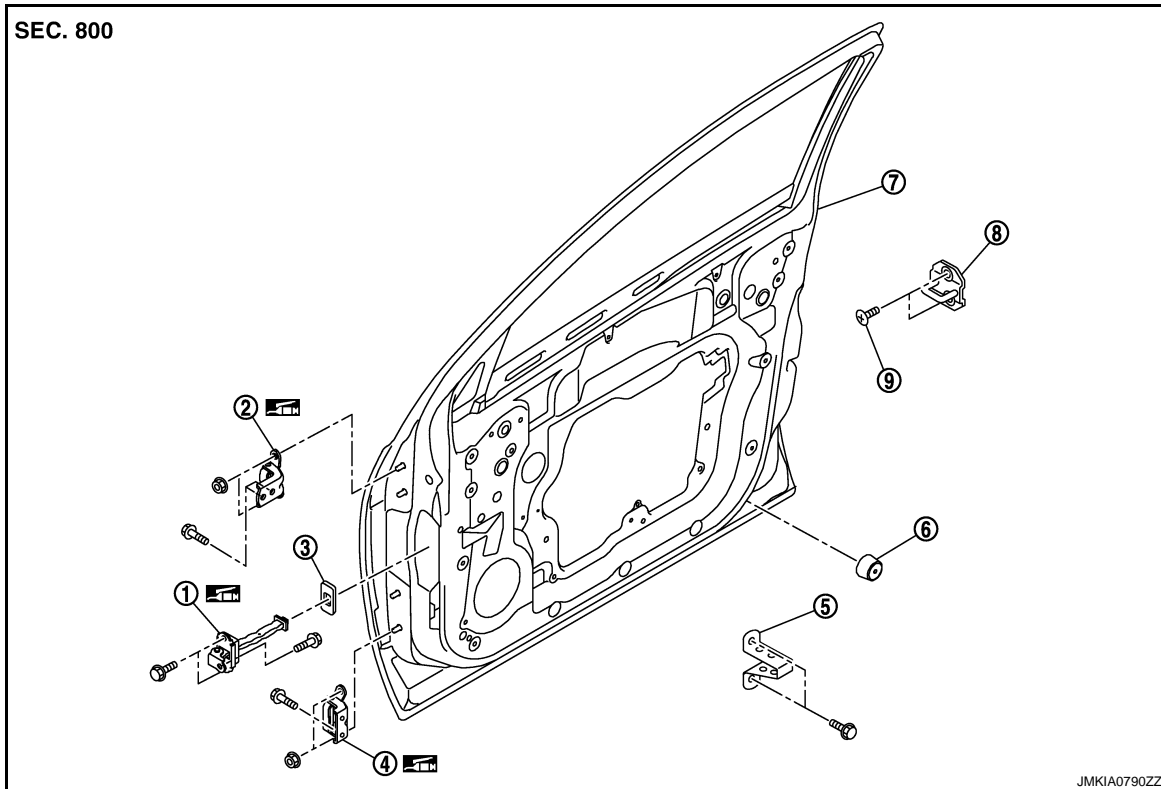
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FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001538580

REMOVAL



- | | | |
|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

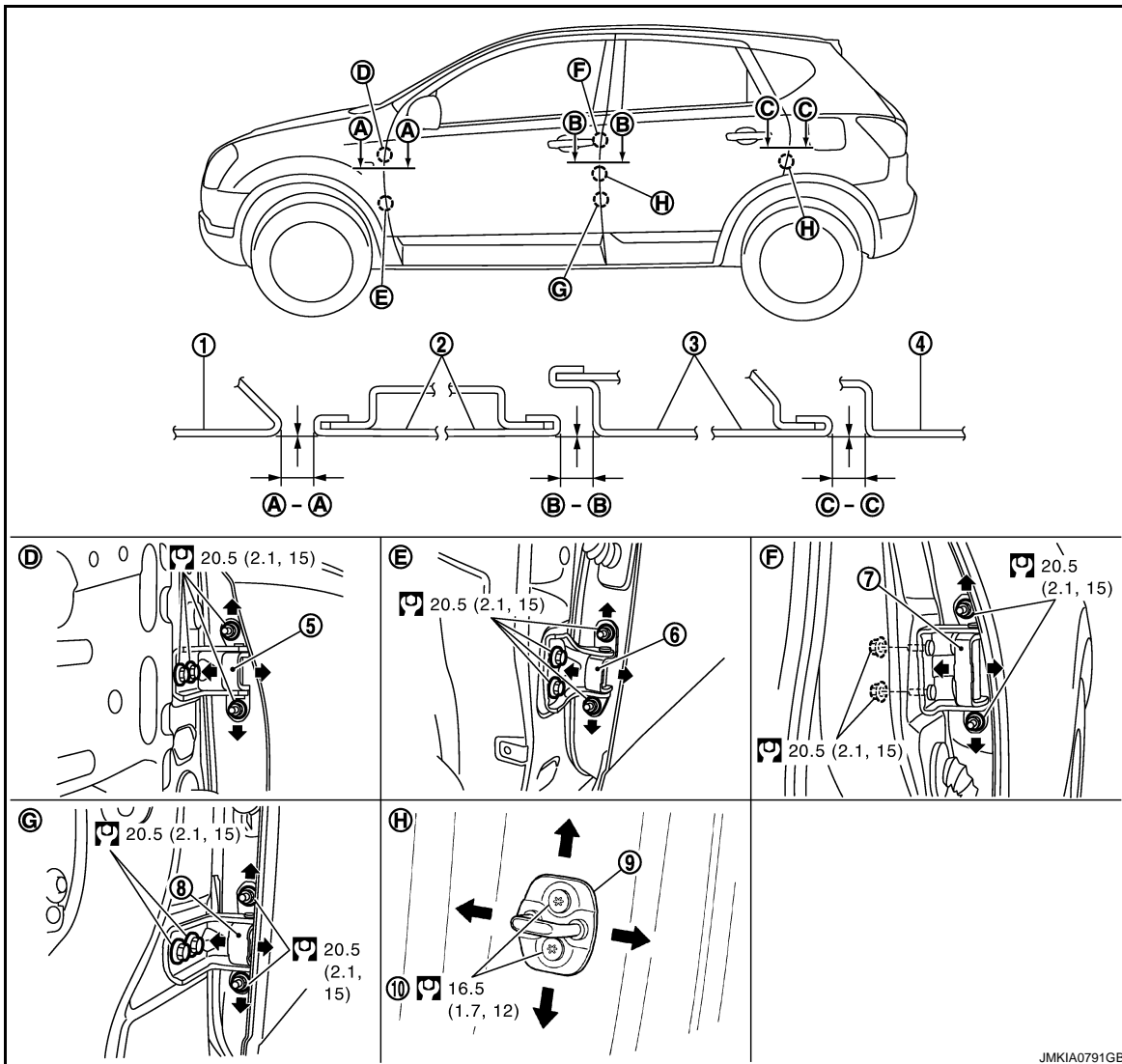
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FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]



- | | | |
|----------------------------|-----------------------------|-----------------------------|
| 1. Front fender | 2. Front door outer | 3. Rear door outer |
| 4. Rear fender | 5. Front door hinge (upper) | 6. Front door hinge (lower) |
| 7. Rear door hinge (upper) | 8. Rear door hinge (lower) | 9. Door striker |
| 10. TORX bolt | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001538581

REMOVAL

1. Remove the mounting bolt 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.

CAUTION:

- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.
- Perform work with 2 workers, because of its heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-839, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- Check the front door open/close operation after installation.

DOOR ASSEMBLY : Adjustment

INFOID:000000001538582

CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

Portion		Clearance	Surface height
Front fender – Front door	A – A	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)
Front door – Rear door	B – B	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)

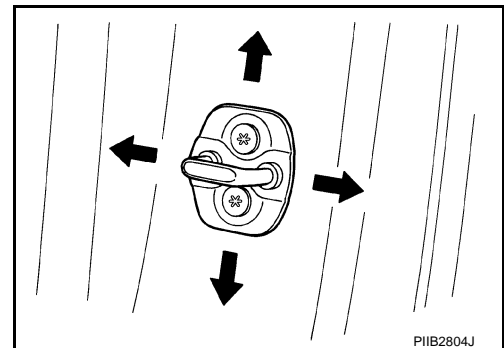
1. Check the clearance and surface height and surface mismatch between the front door and each part visually and by touching. (Fitting standard dimension in the table below shall be satisfied.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Remove the front fender. Refer to refer to [DLK-835, "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-835, "Removal and Installation"](#).

CAUTION:

After installation, check the front fender adjustment. Refer to [DLK-827, "HOOD ASSEMBLY : Adjustment"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.



DOOR STRIKER

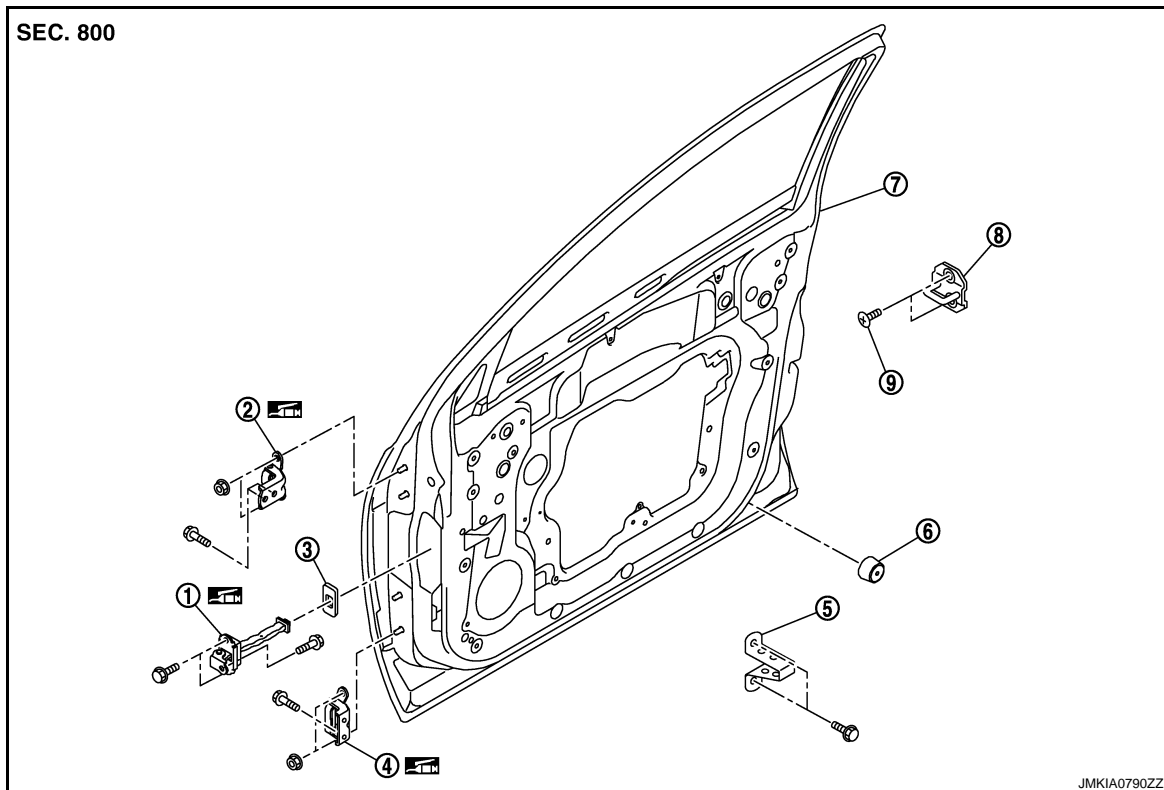
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001538583



- | | | |
|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001538584

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-839. "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

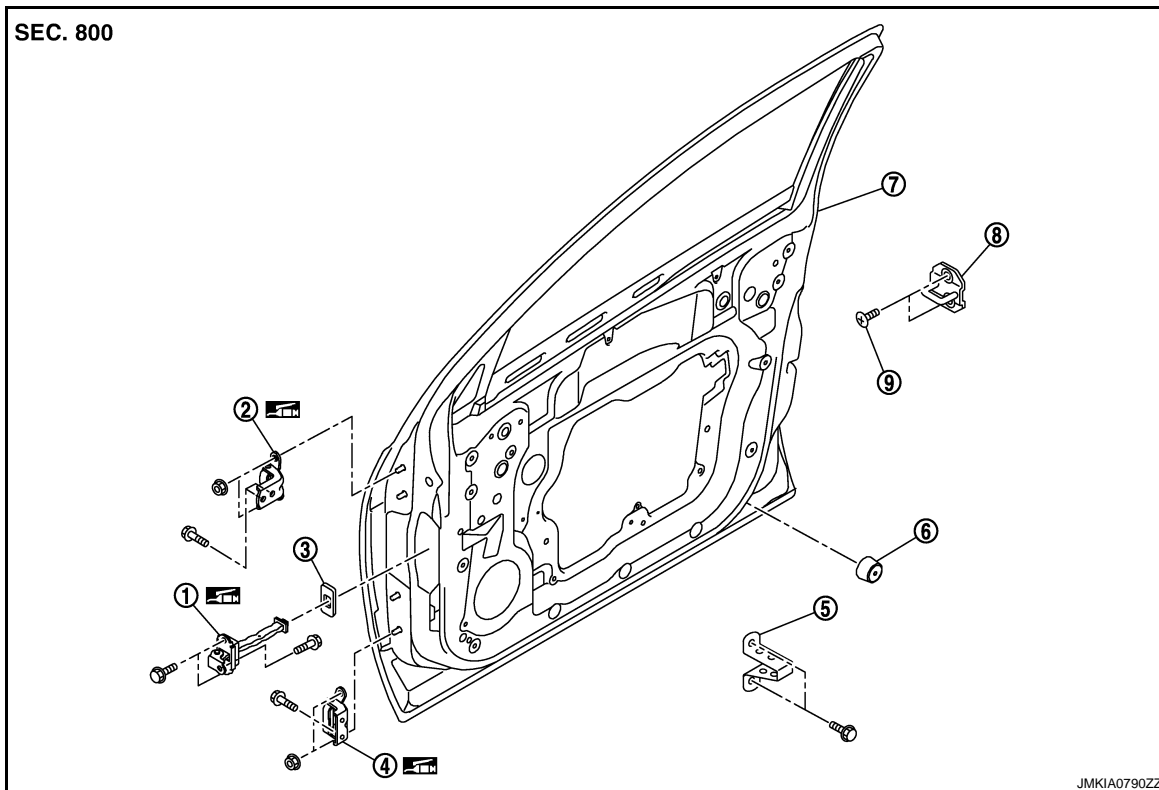
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001538586



- | | | |
|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001538587

DLK

REMOVAL

1. Remove the front door assembly. Refer to [DLK-838. "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:

- When removing and installing the front door assembly, perform the fitting adjustment. Refer to [DLK-839. "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- Check the front door open/close operation after installation.

DOOR CHECK LINK

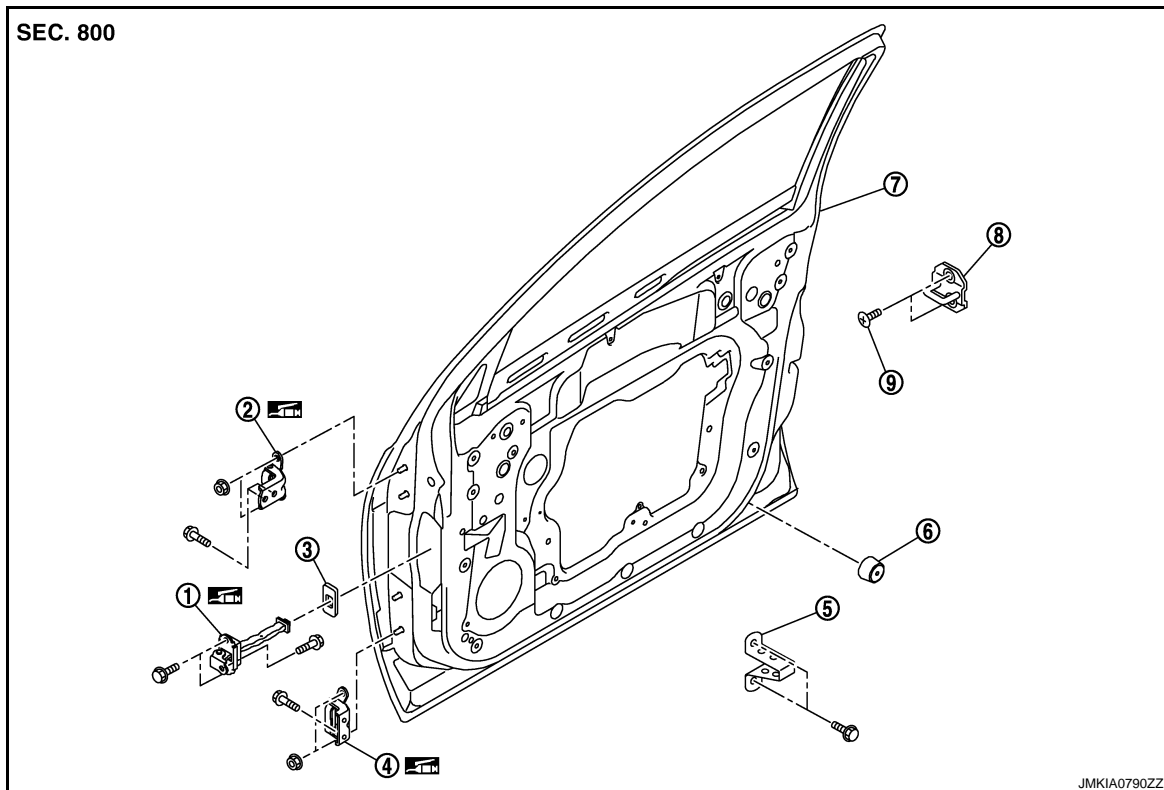
FRONT DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001538589



- | | | |
|-----------------------|-----------------------|--------------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door check link cover |
| 4. Door hinge (lower) | 5. Bracket | 6. Bumper rubber |
| 7. Front door panel | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001538590

REMOVAL

1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the front door speaker. Refer to [AV-36. "Removal and Installation"](#).
3. Remove the mounting bolt of the door check link on the vehicle.
4. Remove the door check link cover, and then remove the door check link mounting bolts.
5. Remove the door check link.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the front door open/close operation after installation.

REAR DOOR

< ON-VEHICLE REPAIR >

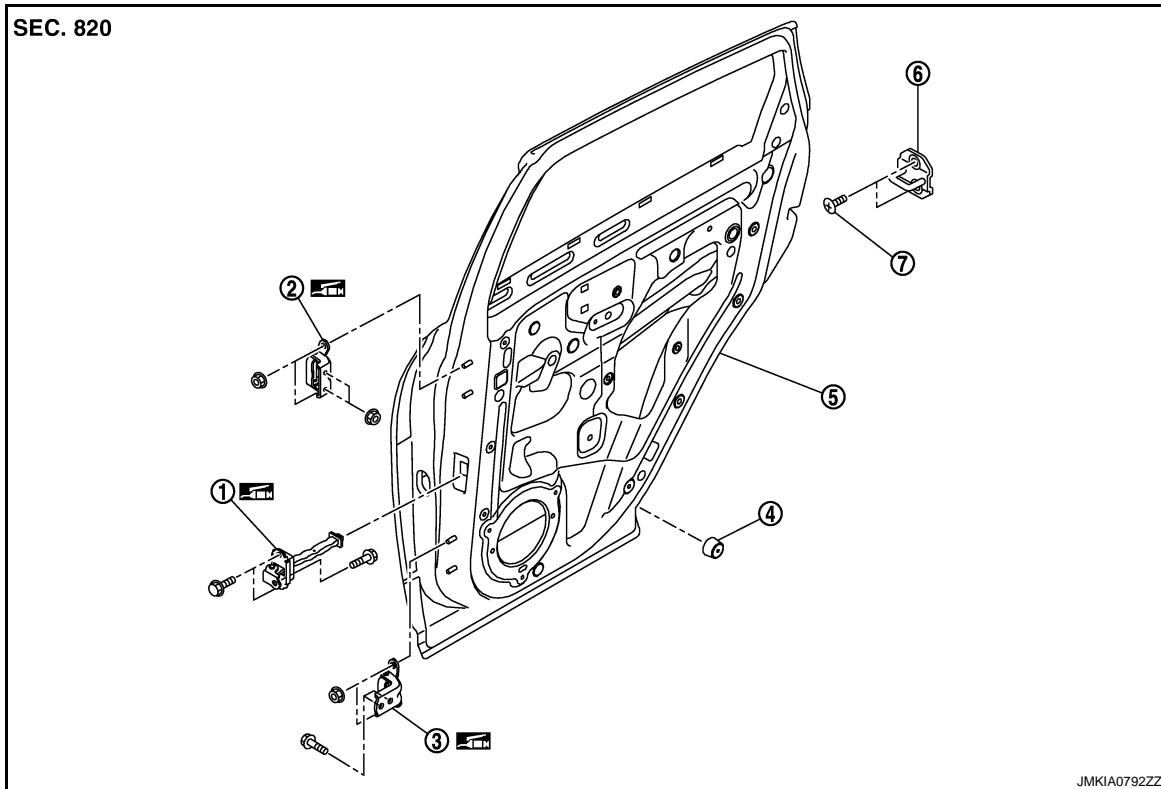
[WITHOUT I-KEY, WITH SUPER LOCK]

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000001538591

REMOVAL



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

ADJUSTMENT

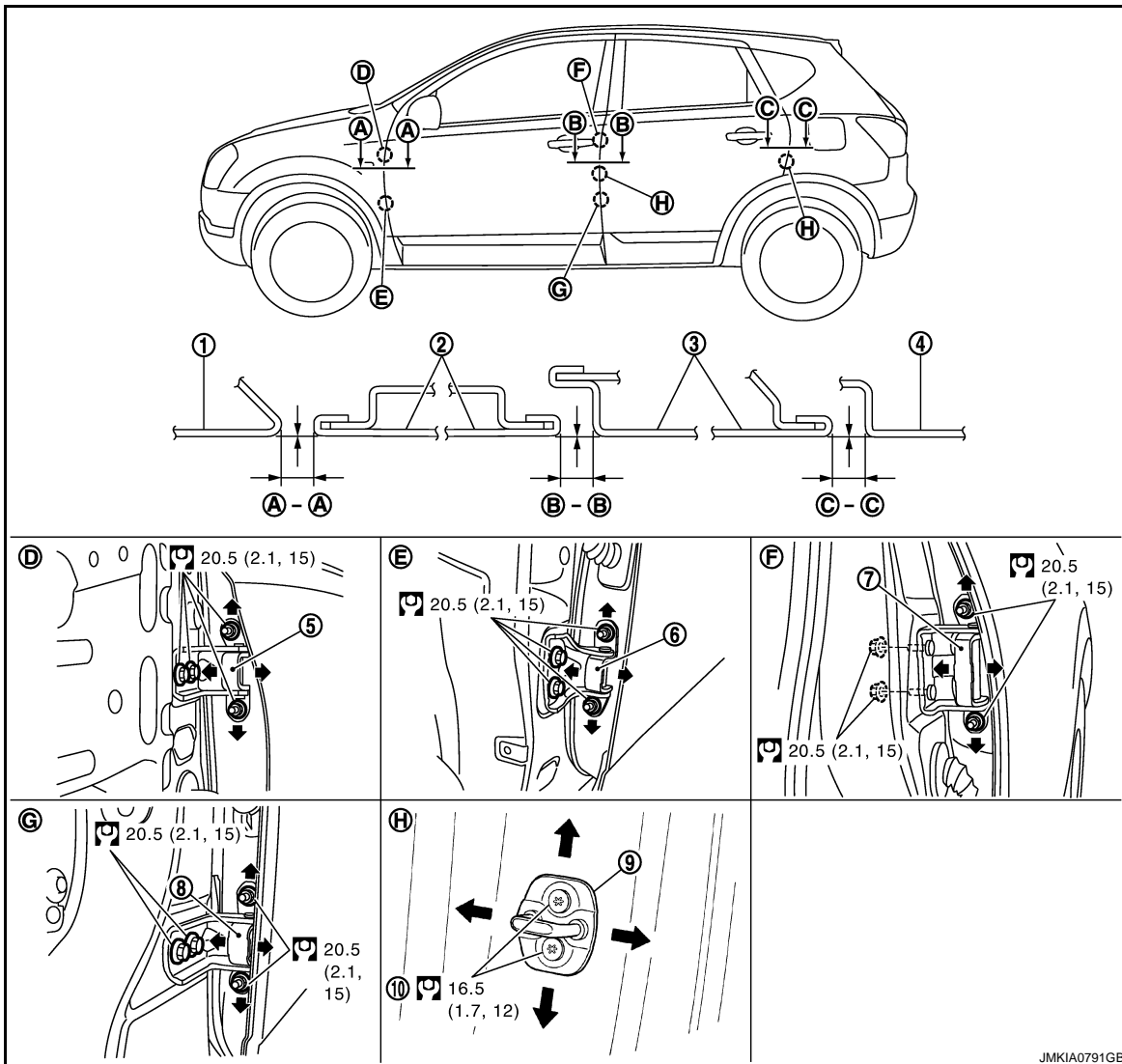
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DLK

REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]



- | | | |
|----------------------------|-----------------------------|-----------------------------|
| 1. Front fender | 2. Front door outer | 3. Rear door outer |
| 4. Rear fender | 5. Front door hinge (upper) | 6. Front door hinge (lower) |
| 7. Rear door hinge (upper) | 8. Rear door hinge (lower) | 9. Striker |
| 10. TORX bolt | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000001538592

REMOVAL

1. Remove the mounting bolt 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.

CAUTION:

- When removing and installing the front door assembly, support the door with a jack and cloth to protect the door and body.
- Perform work with 2 workers, because of it's heavy weight.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

- When removing and installing the rear door assembly, perform the fitting adjustment. Refer to [DLK-845, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- Check the rear door open/close operation after installation.
- Check the rear door lock/unlock operation after installation.

DOOR ASSEMBLY : Adjustment

INFOID:000000001538593

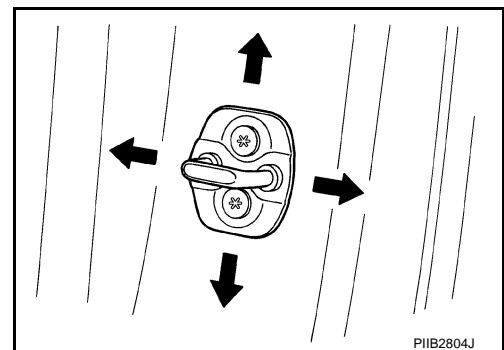
CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

Portion		Clearance	Surface height
Front door – Rear door	B – B	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)
Rear door – Rear fender	C – C	3.5 – 5.5 mm (0.138 – 0.217 in)	- 1.0 – 1.0 mm (- 0.039 – 0.039 in)

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 upper garnish and center pillar lower garnish. Refer to [INT-14, "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 upper garnish and center pillar lower garnish. Refer to [INT-14, "Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust the door striker so that it becomes parallel with the lock insertion direction.



DOOR STRIKER

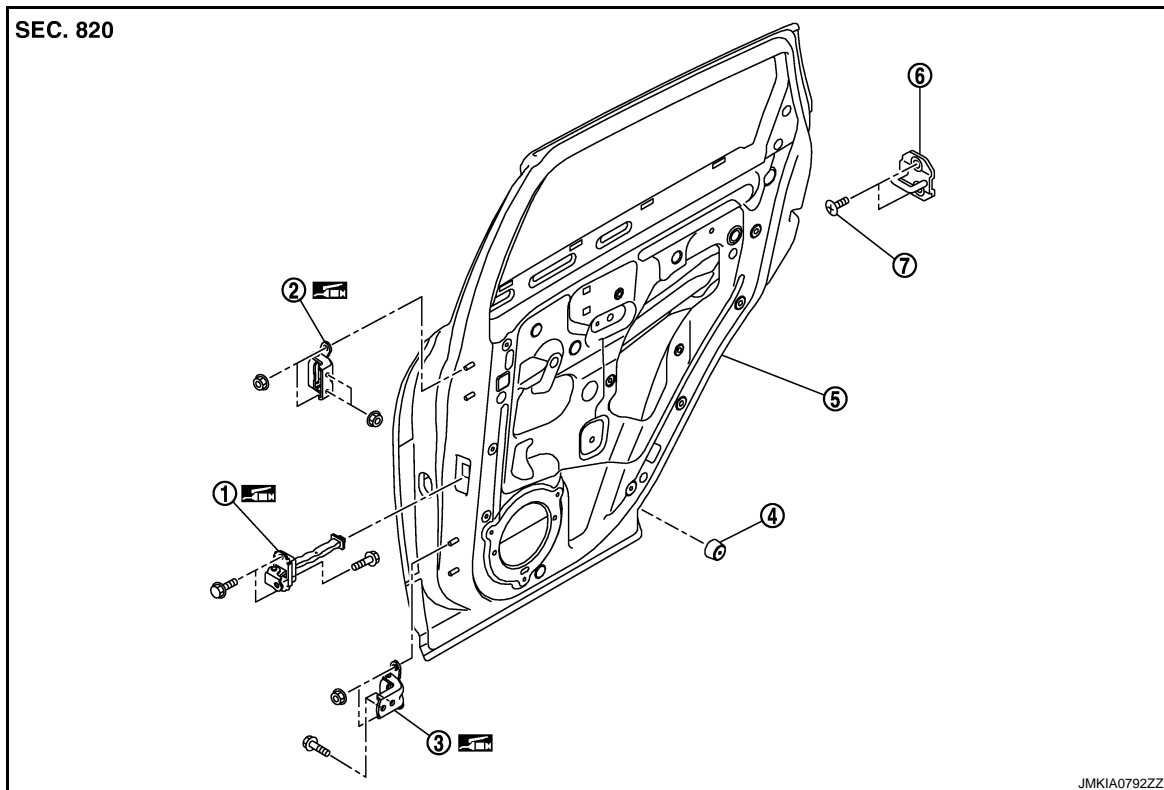
REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR STRIKER : Exploded View

INFOID:000000001538594



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000001538595

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-845. "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

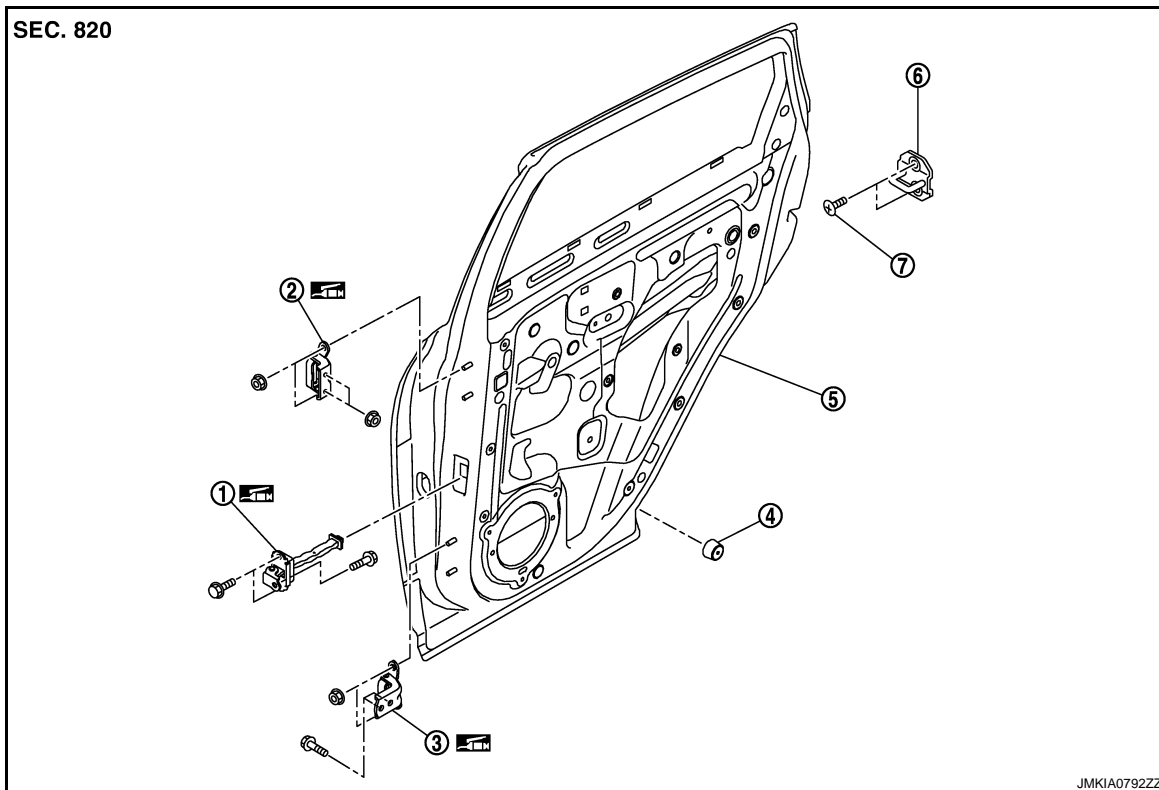
REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR HINGE : Exploded View

INFOID:000000001538597



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000001538598

DLK

REMOVAL

1. Remove the center pillar lower garnish and the center pillar upper garnish. Refer to [INT-14, "Removal and Installation"](#).
2. Remove the rear door assembly. Refer to [DLK-844, "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:

- When removing and installing the rear door assembly, perform the fitting adjustment. Refer to [DLK-845, "DOOR ASSEMBLY : Adjustment"](#).
- Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installing, apply the touch-up paint (the body color) onto the head of the hinge mounting nuts.
- Check the rear door open/close operation after installation.

DOOR CHECK LINK

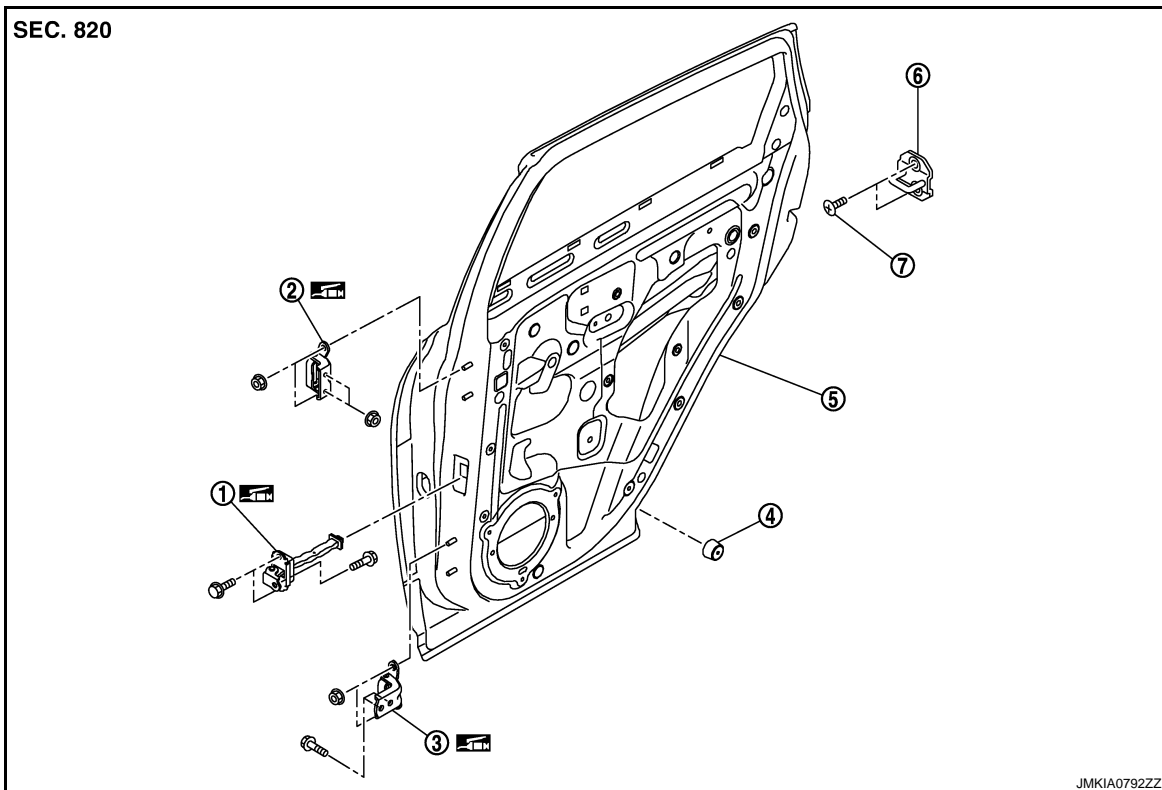
REAR DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR CHECK LINK : Exploded View

INFOID:000000001538600



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Door check link | 2. Door hinge (upper) | 3. Door hinge (lower) |
| 4. Bumper rubber | 5. Rear door panel | 6. Door striker |
| 7. TORX bolt | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000001538601

REMOVAL

1. Remove the rear door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the rear door sealing screen.
3. Remove the mounting bolt of the check link on the vehicle.
4. Remove the door check link cover, and then remove the door check link mounting bolts.
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]

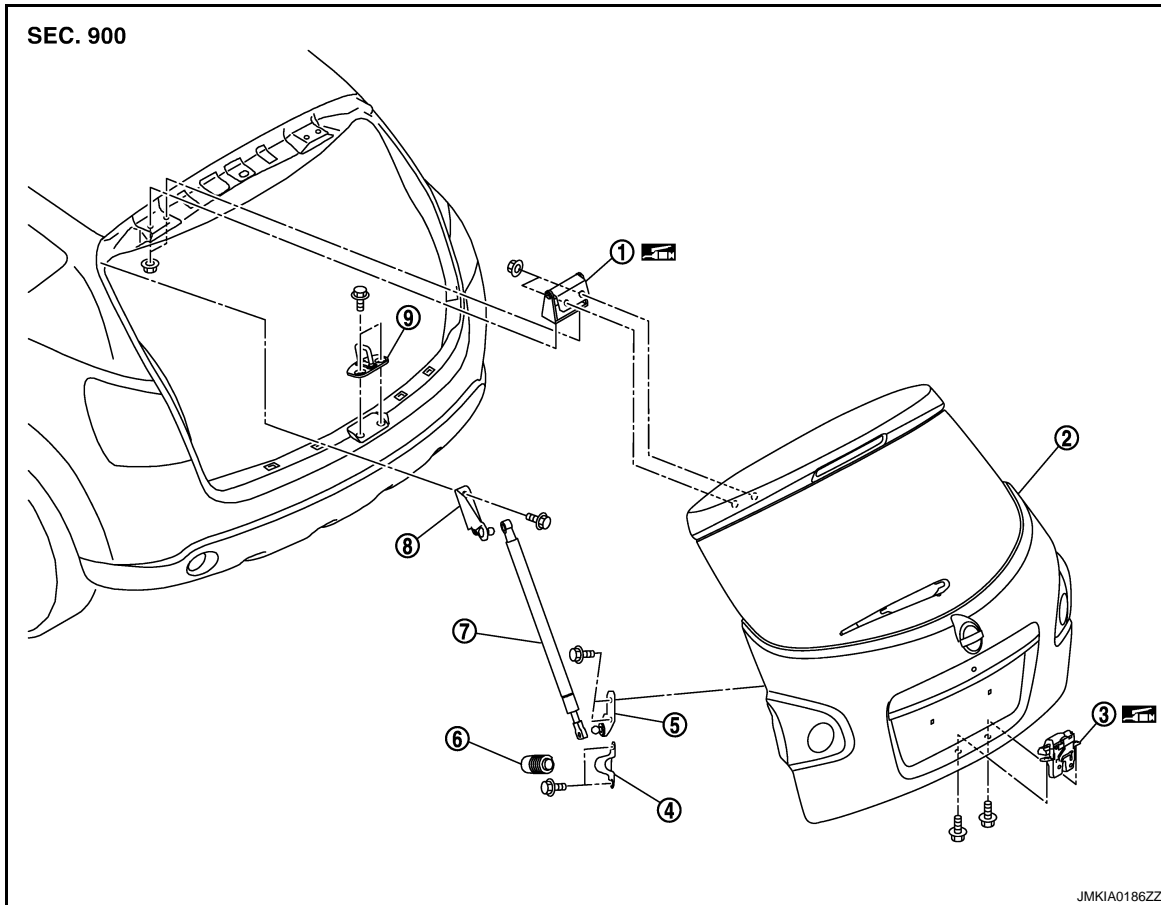
BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:000000001538602

REMOVAL



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4, "Components"](#) for symbols in the figure.

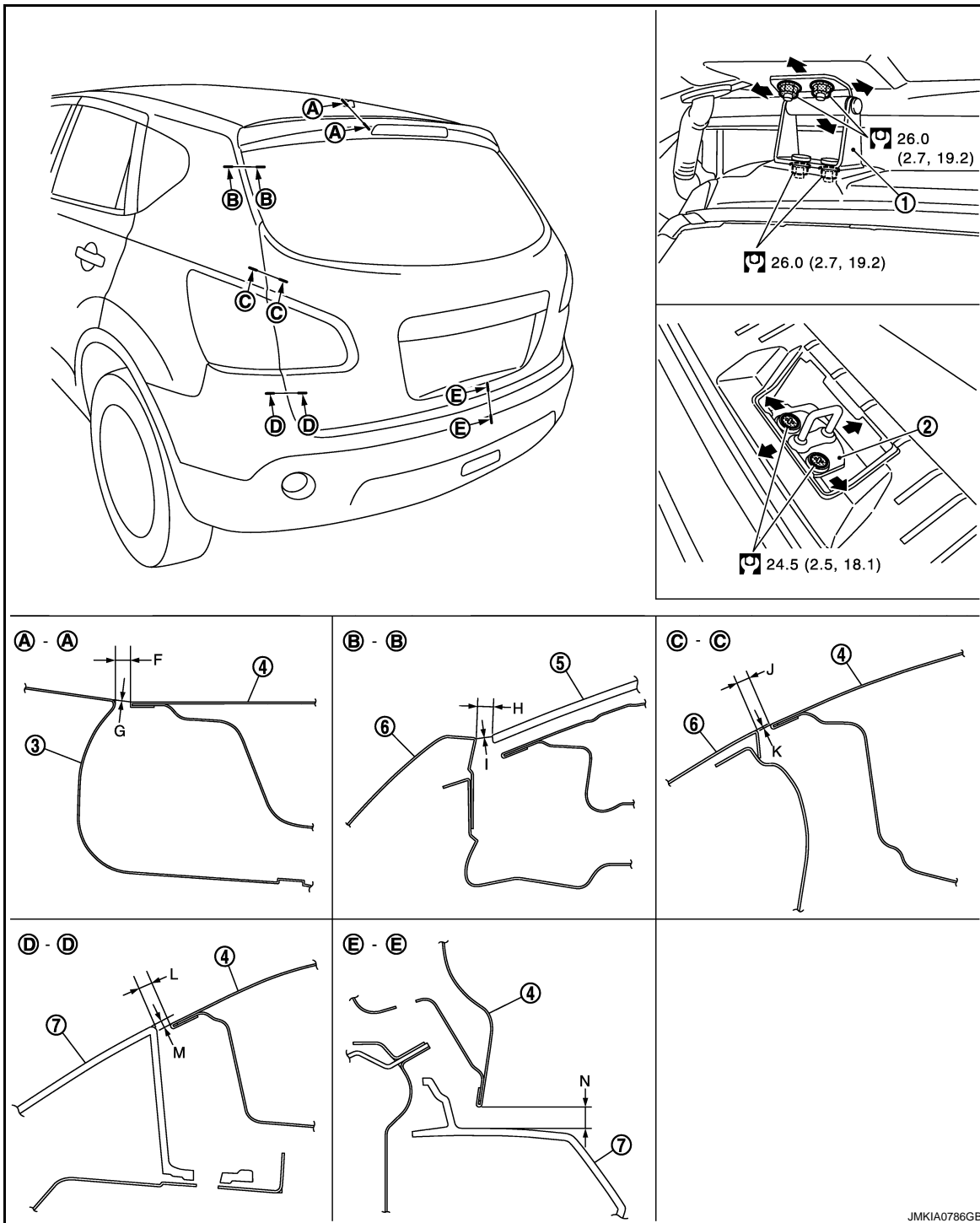
ADJUSTMENT

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BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]



JMKIA0786GB

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|-----------------------|----------------------|--------------------|
| 1. Back door hinge | 2. Back door striker | 3. Roof panel |
| 4. Back door outer | 5. Back door glass | 6. Body side outer |
| 7. Rear bumper fascia | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000001538603

REMOVAL

1. Remove the back door finisher inner. Refer to [INT-26, "Removal and Installation"](#).
2. Remove the back door window glass. Refer to [GW-17, "Removal and Installation"](#).

NOTE:

DLK-850

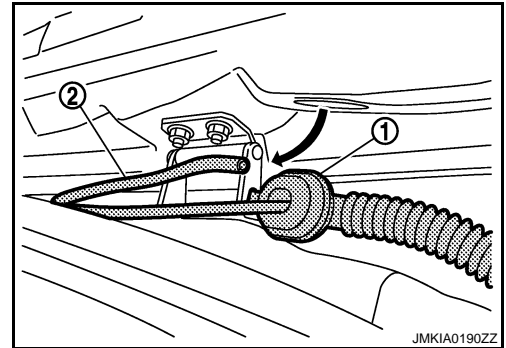
BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

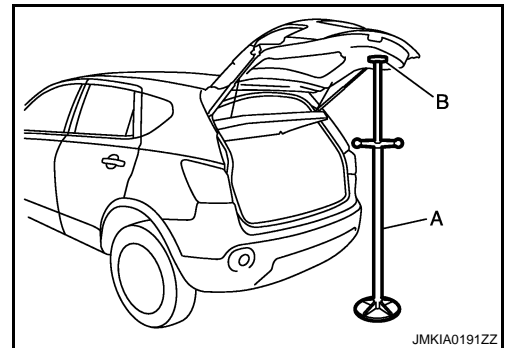
It is necessary to remove back door window glass in order to remove harness, because harness connector interferes with back door window glass pin.

3. Disconnect the connectors in the back door, and then remove the grommet, and pull out the harness.
4. Remove the parcel shelf. Refer to [INT-24. "Removal and Installation"](#).
5. Remove the high-mounted stop lamp. Refer to [EXL-186. "Removal and Installation"](#).
6. Remove the grommet (1), and then pull out the washer tube (2) .

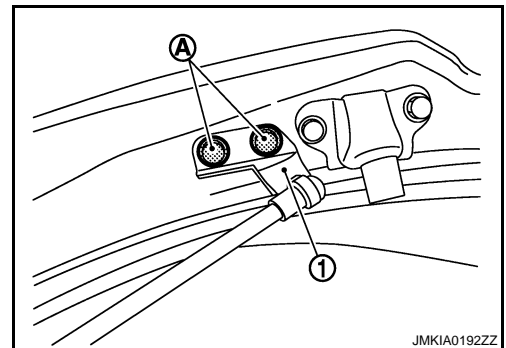


7. Pull the harness out of the back door.
8. Support the back door lock with the proper material to prevent it from falling.

- A : Jack
- B : Shop cloth

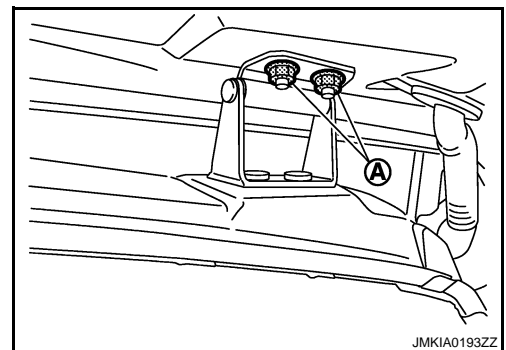


9. Remove the back door stay bracket (1) mounting bolts (A) on the back door.



10. Remove the back door hinge mounting nuts (A) 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:**
- Perform work with 2 workers, because of its heavy weight.

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BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

- After installation, perform fitting adjustment. Refer to [DLK-852, "BACK DOOR ASSEMBLY : Adjustment"](#).
- Check the back door open/close operation after installation.
- Check the back door lock/unlock operation after installation.

BACK DOOR ASSEMBLY : Adjustment

INFOID:000000001538604

Portion			Standard	Difference(RH/LH)
Back door panel – Roof panel	A – A	F	Clearance 5.0 – 7.0 mm (0.197 – 0.276 in)	—
		G	Surface height 0.0 – 2.0 mm (0.000 – 0.079 in)	—
Back door glass – Body side outer	B – B	H	Clearance 3.9 – 8.1 mm (0.154 – 0.319 in)	2.1 mm (0.083 in)
		I	Surface height - 1.0 – 3.1 mm (- 0.039 – 0.122 in)	2.0 mm (0.079 in)
Back door panel – Body side outer	C – C	J	Clearance 3.5 – 6.5 mm (0.138 – 0.256 in)	2.0 mm (0.079 in)
		K	Surface height - 1.0 – 1.0 mm (- 0.039 – 0.039 in)	—
Back door panel – Rear bumper fascia	D – D	L	Clearance 4.0 – 8.0 mm (0.157 – 0.315 in)	2.0 mm (0.079 in)
		M	Surface height 0.1 – 4.1 mm (0.004 – 0.161 in)	2.1 mm (0.083 in)
Back door panel – Rear bumper fascia	E – E	N	Clearance 5.8 – 10.2 mm (0.228 – 0.402 in)	—

FITTING ADJUSTMENT

1. 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.)
2. In case any parts are out of specification, adjust them according to the procedures shown below.
3. Loosen the bumper rubber.
4. Loosen the back door striker mounting bolts.
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

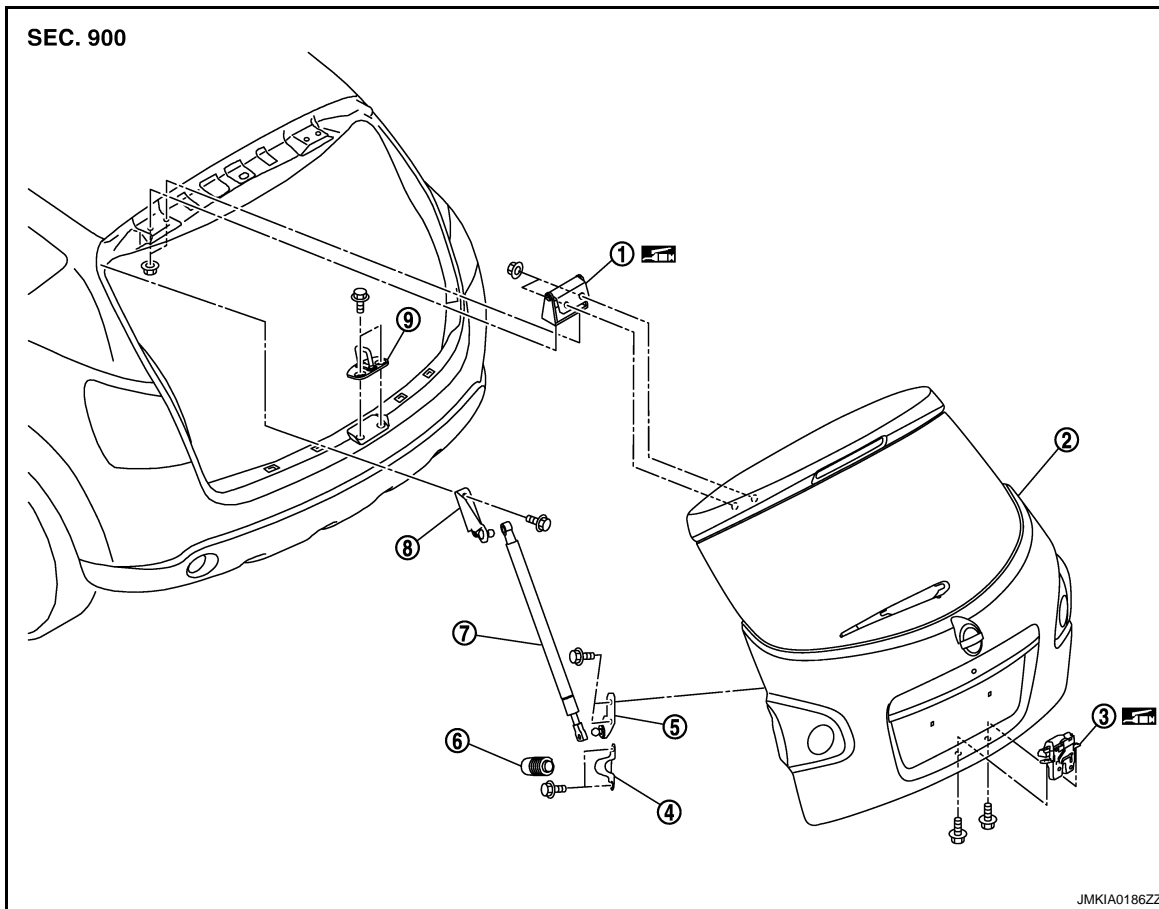
BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR STRIKER : Exploded View

INFOID:000000001538605



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STRIKER : Removal and Installation

INFOID:000000001538606

REMOVAL

1. Remove the luggage rear plate cap. Refer to [INT-24. "Removal and Installation"](#).
2. Remove the mounting bolts, and then remove the back door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- When removing and installing the back door striker, be sure to perform the fitting adjustment. Refer to [DLK-852. "BACK DOOR ASSEMBLY : Adjustment"](#).
- Check the back door open/close operation after installation.

BACK DOOR HINGE

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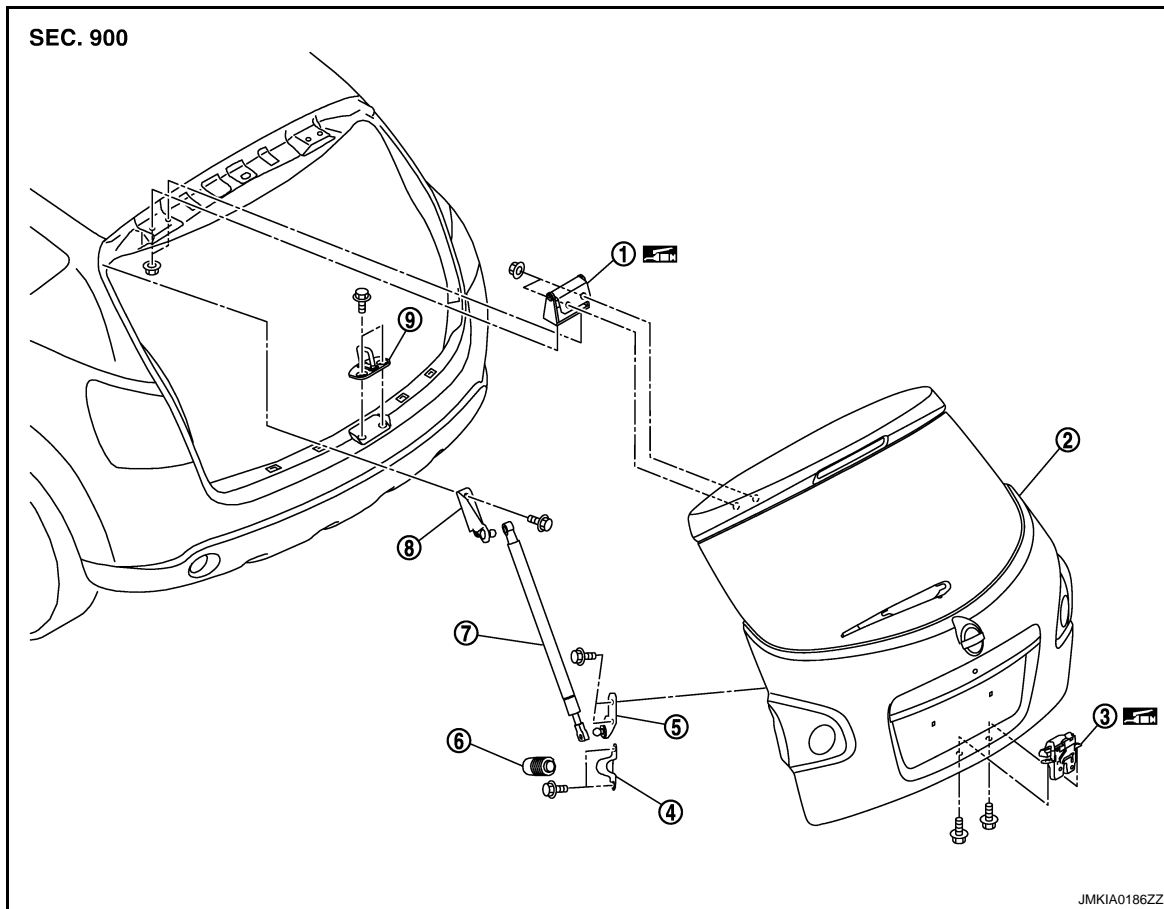
BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR HINGE : Exploded View

INFOID:000000001538608



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR HINGE : Removal and Installation

INFOID:000000001538609

REMOVAL

1. Remove the back door assembly. Refer to [DLK-850, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove upper side of the back door weatherstrip. Refer to [DLK-856, "BACK DOOR WEATHER-STRIP : Removal and Installation"](#).
3. Remove rear seat belt cover. Refer to [INT-21, "Removal and Installation"](#).
4. Using remover tool, remove the headlining clip at the rear side of the headlining.
Refer to [INT-20, "Exploded View"](#).
5. Remove the rear side of the headlining.
6. 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:

- When removing and installing the back door assembly, perform the fitting adjustment. Refer to [DLK-852, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting nuts.
- Check the hinge rotating part for poor lubrication. If necessary, apply body grease.

BACK DOOR

< ON-VEHICLE REPAIR >

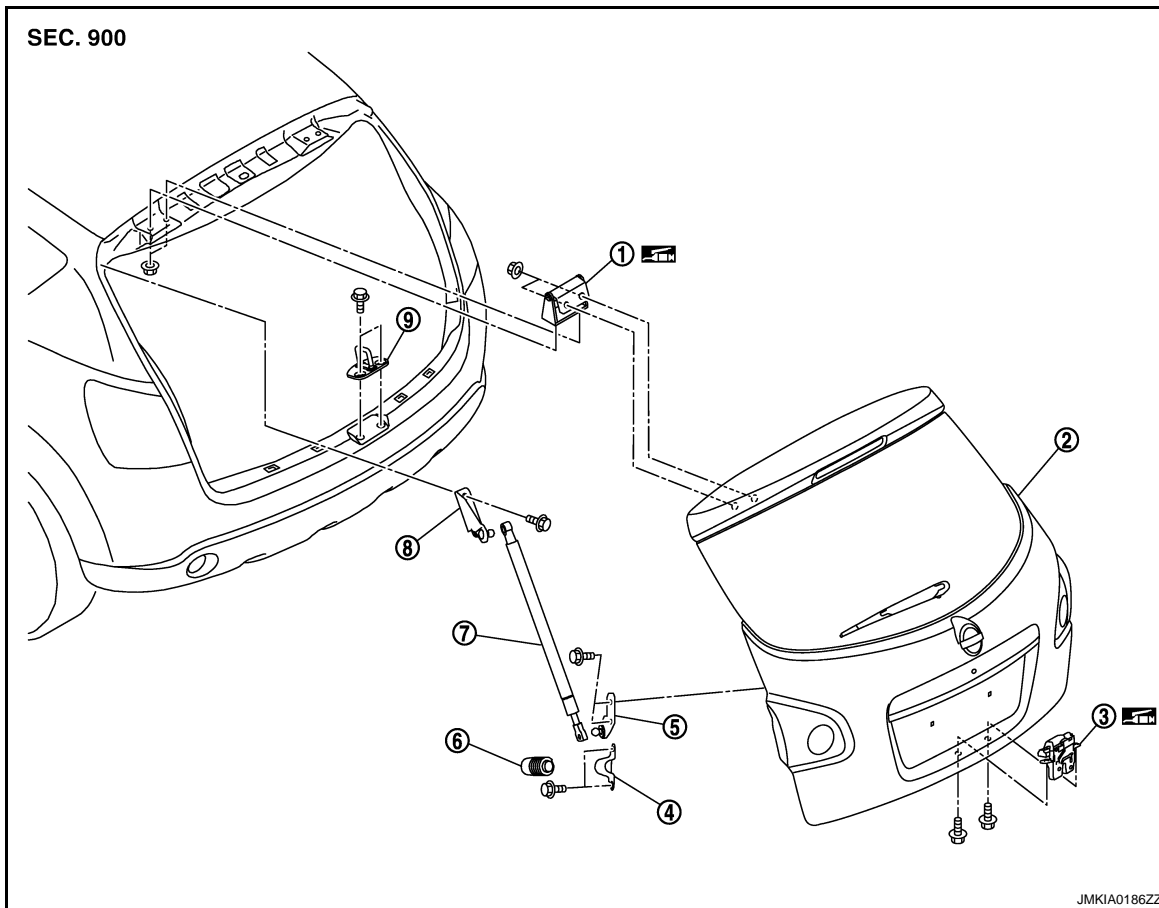
[WITHOUT I-KEY, WITH SUPER LOCK]

• Check the back door open/close operation after installation.

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:000000001538611



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR STAY : Removal and Installation

INFOID:000000001538612

REMOVAL

1. Remove the mounting bolts, and then remove the back door stay bracket on body side.
2. Remove the stud ball, and then remove the back door stay on back door side.

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:000000001538613

REMOVAL

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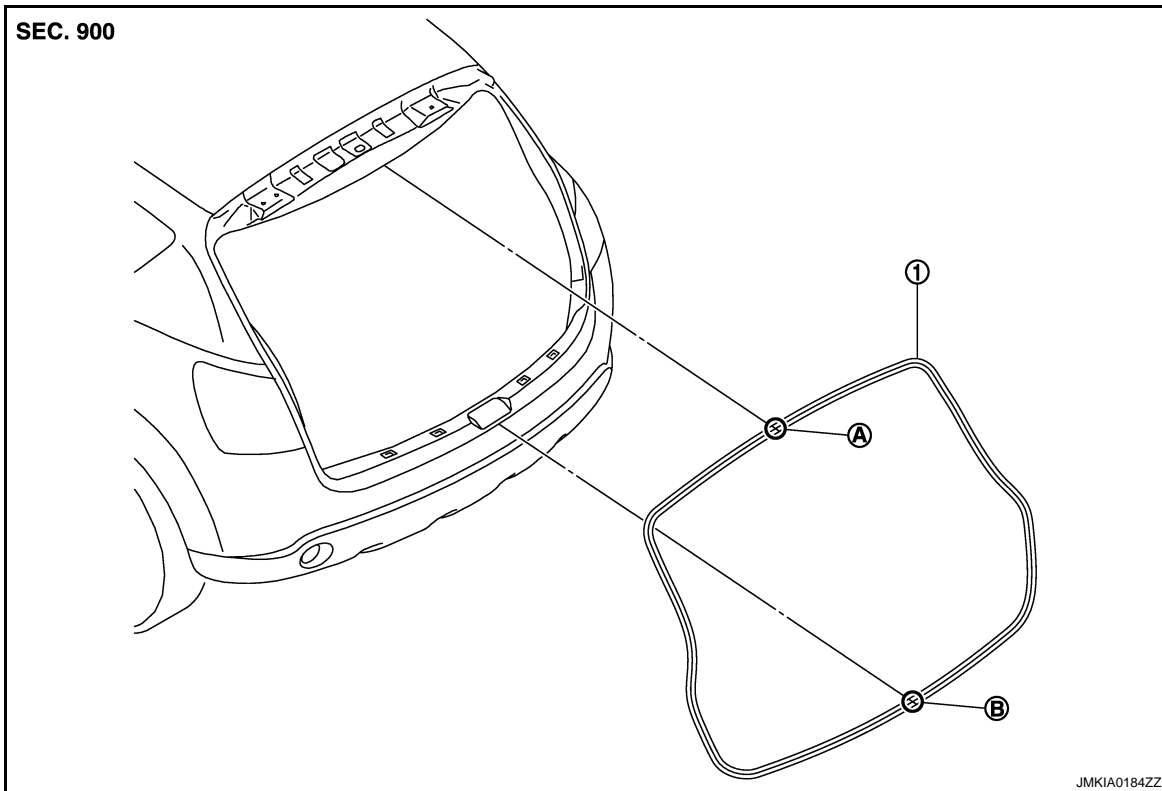
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BACK DOOR

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]



- 1. Back door weatherstrip
- A. Mark (upper)
- B. Mark (lower)

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000001538614

REMOVAL

Pull up and remove engagement with body from the weatherstrip joint.

CAUTION:

After removal, do not pull strongly on the weather-strip.

INSTALLATION

1. Working from the upper section, align the weatherstrip mark with vehicle center position mark and install the weatherstrip onto the vehicle.
2. For the lower section, align the weatherstrip seam with center of the back door striker.
3. After installation, pull the weatherstrip gently to ensure that there is no loose section.

NOTE:

Make sure that the weatherstrip is fit tightly at each corner and the luggage rear plate.

FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

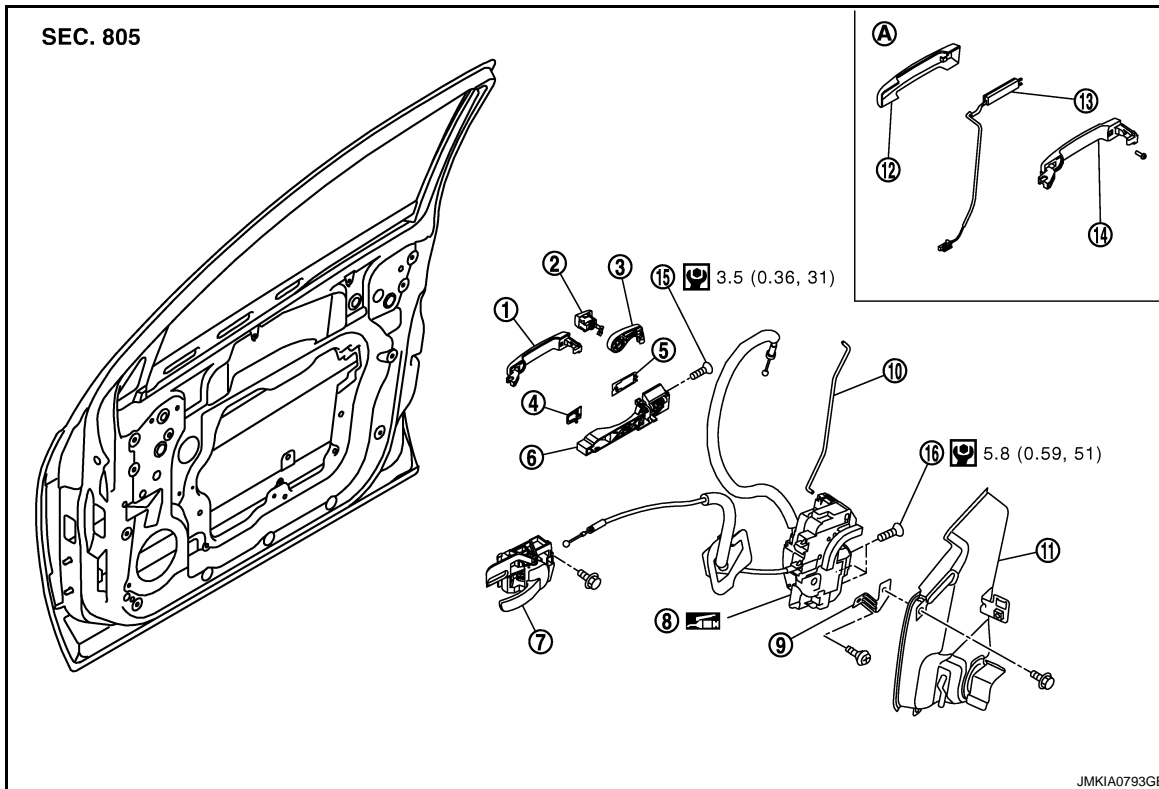
[WITHOUT I-KEY, WITH SUPER LOCK]

FRONT DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001538615



- | | | |
|--|--|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder | 3. Key cylinder lever |
| 4. Front gasket | 5. Rear gasket | 6. Outside handle bracket |
| 7. Inside handle | 8. Door lock assembly | 9. Key cylinder rod |
| 10. Key rod protector(SUPER LOCK model only) | 11. Key rod protector assembly (SUPER LOCK and RH handle model only) | 12. Outside handle cover |
| 13. Antenna | 14. Outside handle base | 15. TORX bolt |
| 16. TORX bolt | | |

A: Intelligent Key only

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001538616

REMOVAL

1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolt, and then disconnect the inside handle cable.
3. Remove the front door glass. Refer to [GW-19. "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-22. "Removal and Installation"](#).
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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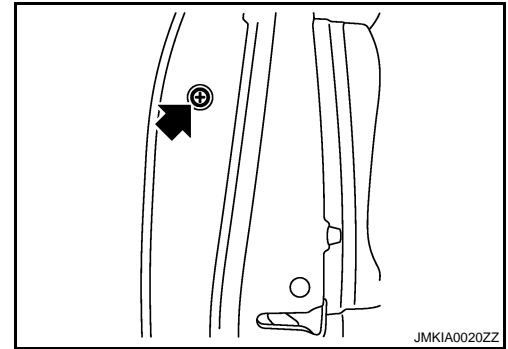
FRONT DOOR LOCK

< ON-VEHICLE REPAIR >

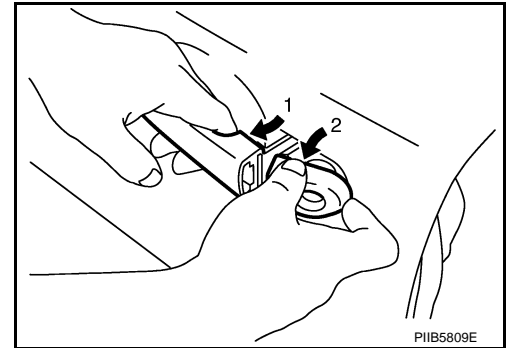
[WITHOUT I-KEY, WITH SUPER LOCK]

6. Remove the door side grommet, and loosen TORX bolt from grommet hole.

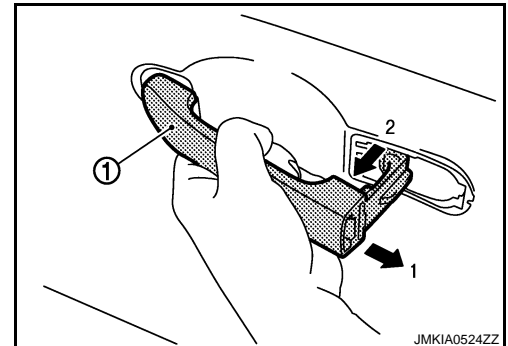
CAUTION:
Do not forcibly remove the bolts.



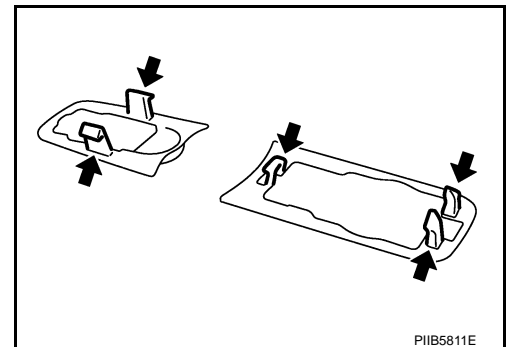
7. Reach in to separate the key cylinder rod connection (on the handle).
8. Disconnect the door key cylinder switch harness connector.
9. Remove the key cylinder lever from the door key cylinder.
10. While pulling the outside handle, remove door key cylinder assembly.



11. Disconnect front door request switch harness connector (models with Intelligent Key system).
12. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



13. Remove the front gasket and the rear gasket.



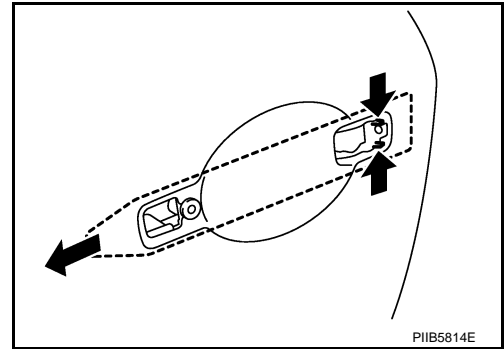
14. Remove the door lock assembly TORX bolts.
15. Disconnect the door lock actuator connector, and then remove the door lock assembly.

FRONT DOOR LOCK

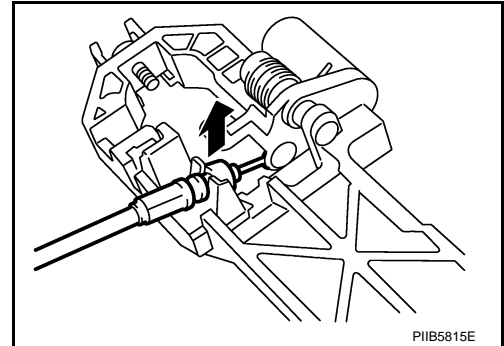
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

16. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



17. Reach in to separate the outside handle cable connection.



INSTALLATION

Install in the reverse order of removal.

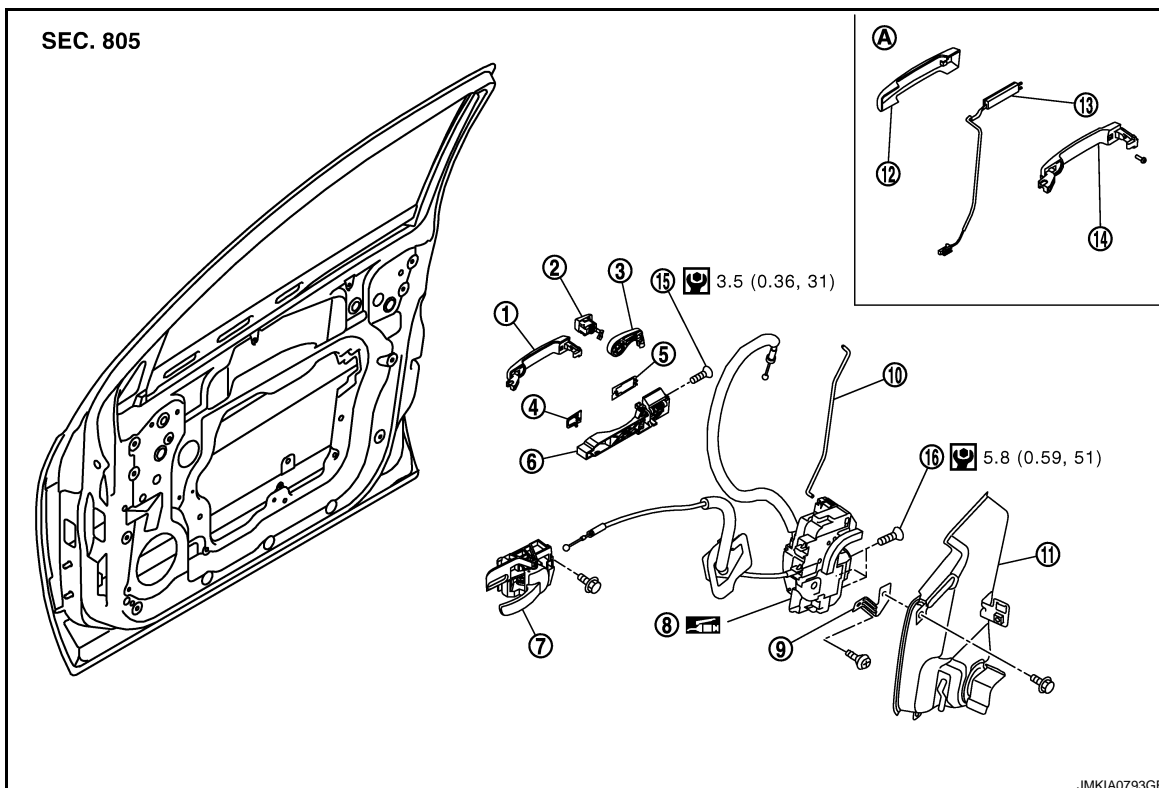
CAUTION:

- 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.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000001538618



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FRONT DOOR LOCK

[WITHOUT I-KEY, WITH SUPER LOCK]

< ON-VEHICLE REPAIR >

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|--|--|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder | 3. Key cylinder lever |
| 4. Front gasket | 5. Rear gasket | 6. Outside handle bracket |
| 7. Inside handle | 8. Door lock assembly | 9. Key cylinder rod |
| 10. Key rod protector(SUPER LOCK model only) | 11. Key rod protector assembly (SUPER LOCK and RH handle model only) | 12. Outside handle cover |
| 13. Antenna | 14. Outside handle base | 15. TORX bolt |
| 16. TORX bolt | | |

A: Intelligent Key only

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001538619

REMOVAL

1. Remove the front door finisher. Refer to [INT-10, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolt.
3. Disconnect the inside handle cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

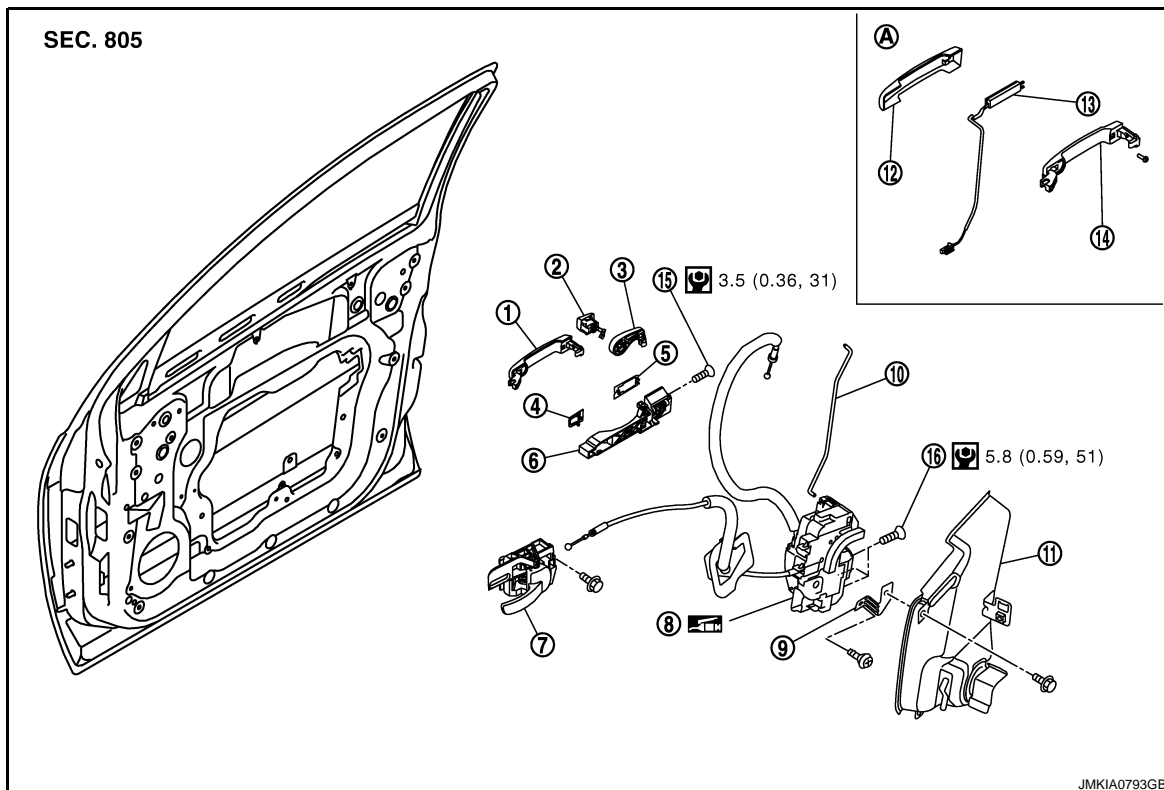
CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:000000001538621



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|----------------------------|-----------------------|---------------------------|
| 1. Outside handle assembly | 2. Door key cylinder | 3. Key cylinder lever |
| 4. Front gasket | 5. Rear gasket | 6. Outside handle bracket |
| 7. Inside handle | 8. Door lock assembly | 9. Key cylinder rod |

FRONT DOOR LOCK

[WITHOUT I-KEY, WITH SUPER LOCK]

< ON-VEHICLE REPAIR >

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| 10. Key rod protector(SUPER LOCK model only) | 11. Key rod protector assembly (SUPER LOCK and RH handle model only) | 12. Outside handle cover |
| 13. Antenna | 14. Outside handle base | 15. TORX bolt |
| 16. TORX bolt | | |

A: Intelligent Key only

Refer to [GI-4. "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

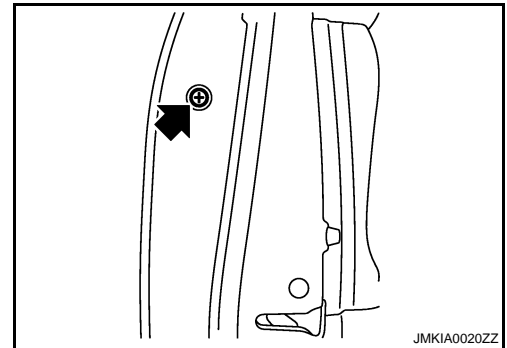
INFOID:000000001538622

REMOVAL

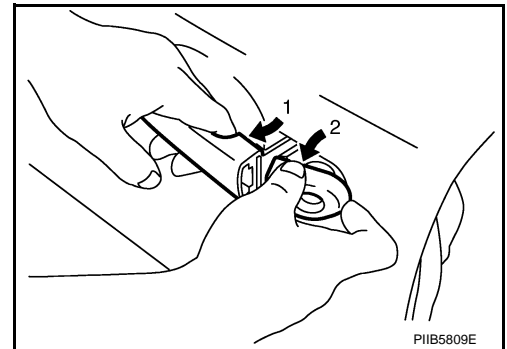
1. Remove the front door finisher. Refer to [INT-10. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove the inside handle mounting bolt, and disconnect the inside handle knob cable and the lock knob cable.
3. Remove the front door glass. Refer to [GW-19. "Removal and Installation"](#).
4. Remove the front door module assembly. Refer to [GW-22. "Removal and Installation"](#).
5. Disconnect the door antenna and the door request switch connector and remove the harness clamp (models with Intelligent Key system).
6. Remove the door side grommet, and loosen TORX bolt from the grommet hole.

CAUTION:

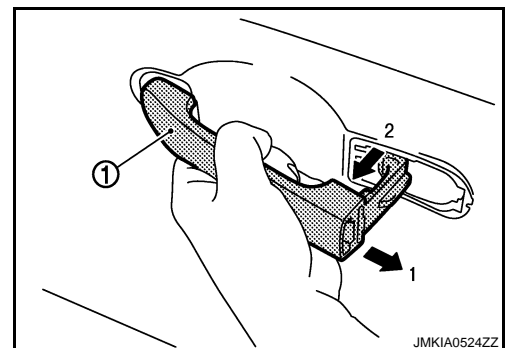
Do not forcibly remove the bolts .



7. Reach in to separate the key cylinder rod connection (on the handle).
8. Disconnect the door key cylinder switch harness connector.
9. Remove the key cylinder lever from the door key cylinder.
10. While pulling the outside handle, remove the door key cylinder assembly.



11. Disconnect the front door request switch harness connector (models with Intelligent Key system).
12. While pulling the outside handle (1), slide toward rear of vehicle to remove the outside handle.



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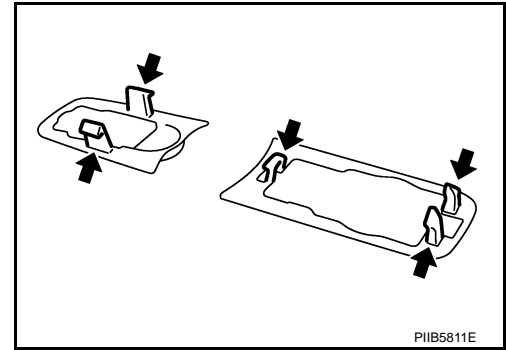
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FRONT DOOR LOCK

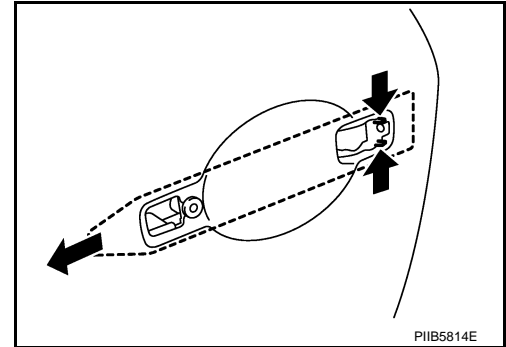
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

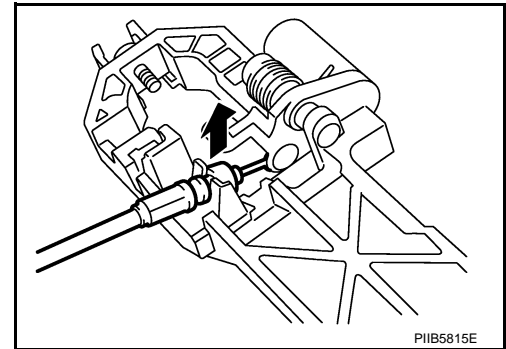
13. Remove the front gasket and rear gasket.



14. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



15. 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

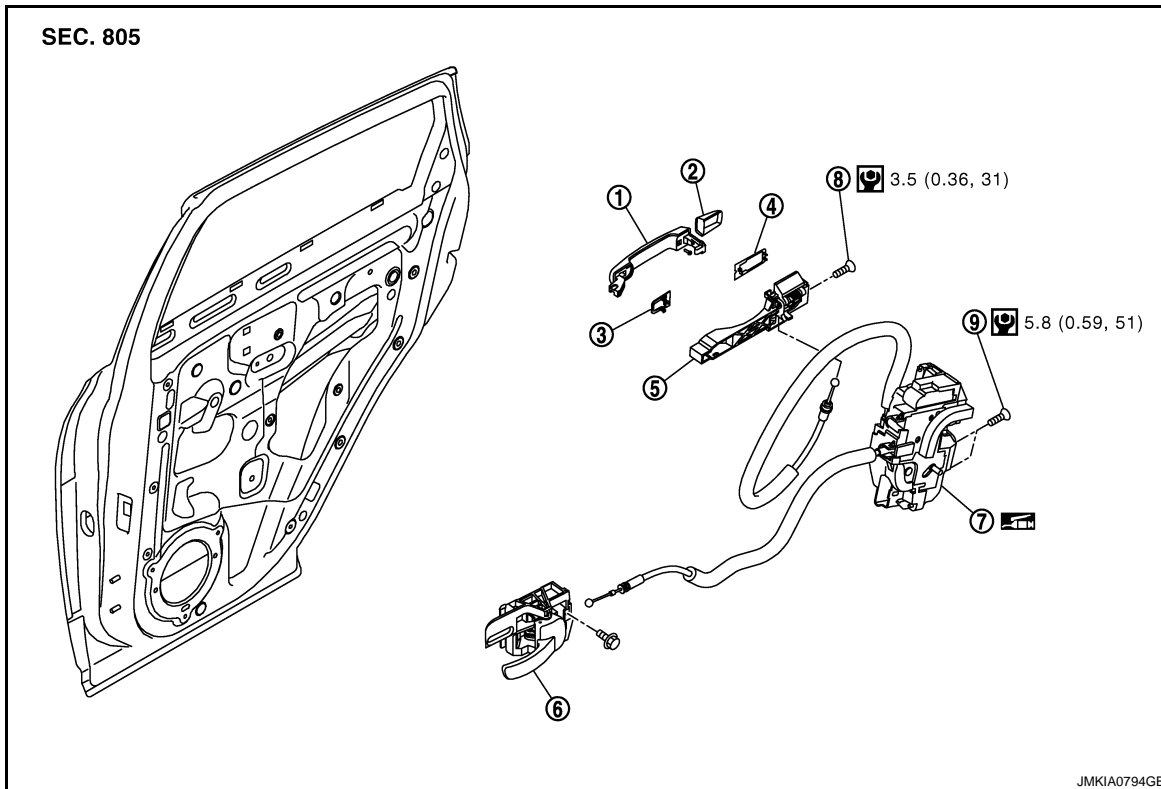
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

REAR DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001538623



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|-----------------------|------------------------------|------------------|
| 1. Outside handle | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. Inside handle |
| 7. Door lock assembly | 8. TORX bolt | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

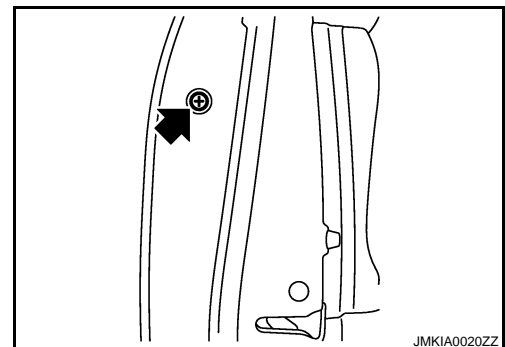
INFOID:000000001538624

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Fully close the front door window.
3. Remove the door sealing screen.
4. Remove the inside handle mounting bolt, and then disconnect the inside handle cable.
5. Remove the door side grommet, and loosen TORX bolt from the grommet hole.

CAUTION:

Do not forcibly remove the bolts.



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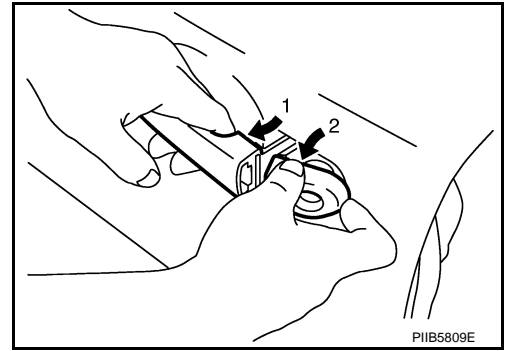
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REAR DOOR LOCK

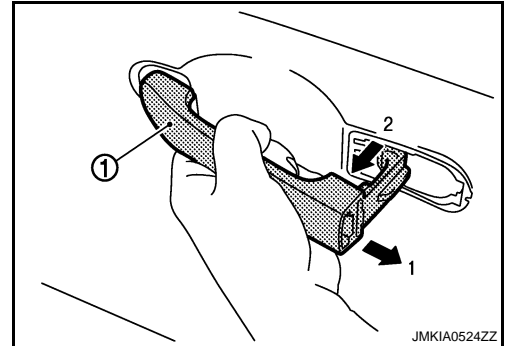
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

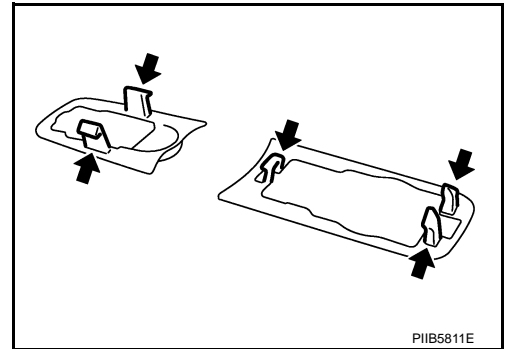
6. While pulling the outside handle, remove the door key cylinder assembly.



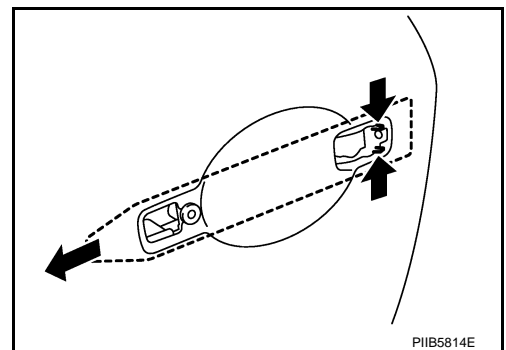
7. While pulling the outside handle (1), slide toward rear of vehicle to remove the outside handle.



8. Remove the front gasket and the rear gasket.



9. Remove the door lock assembly TORX bolts.
10. Disconnect the door lock actuator connector, and then remove the door lock assembly.
11. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.

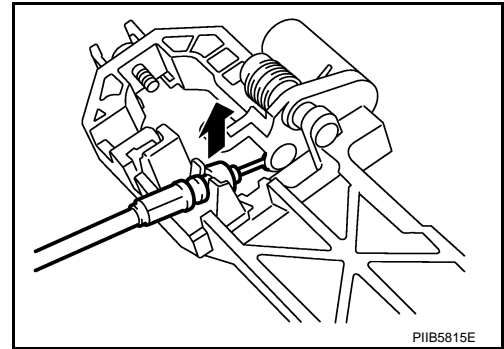


REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

12. Reach in to separate the outside handle cable connection.



INSTALLATION

Install in the reverse order of removal.

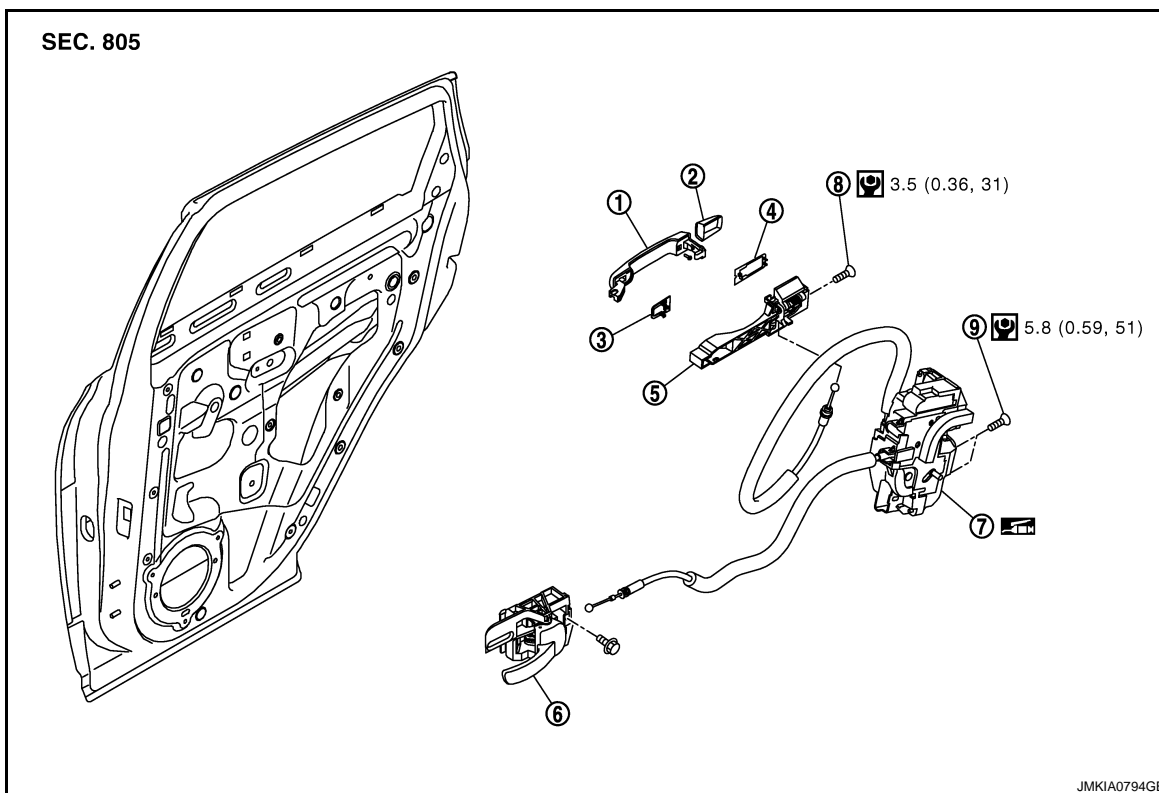
CAUTION:

- 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.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000001538626



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|-----------------------|------------------------------|------------------|
| 1. Outside handle | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. Inside handle |
| 7. Door lock assembly | 8. TORX bolt | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000001538627

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove the door sealing screen.

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REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

3. Remove the inside handle mounting bolt, and then disconnect the inside handle cable.
4. Remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

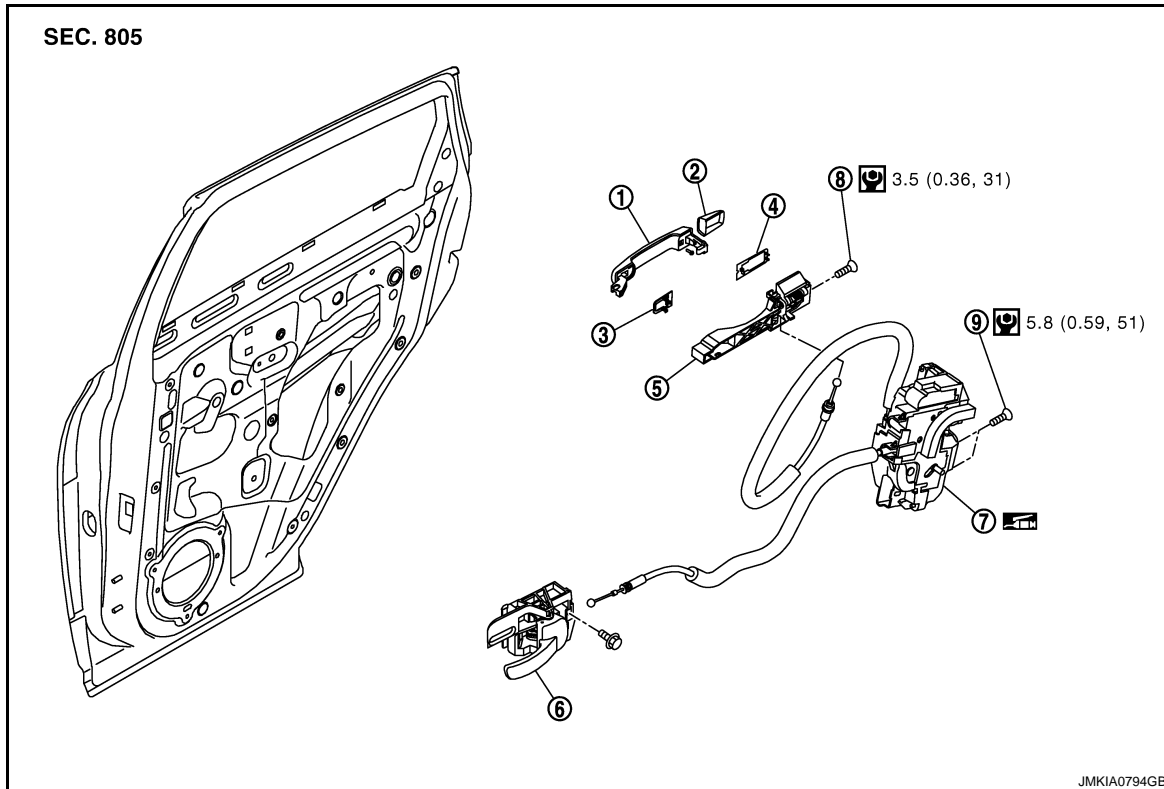
CAUTION:

- Check the door lock/unlock operation after installation.
- Check the door open/close operation after installation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:000000001538629



- | | | |
|-----------------------|------------------------------|------------------|
| 1. Outside handle | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Rear gasket | 5. Outside handle bracket | 6. Inside handle |
| 7. Door lock assembly | 8. TORX bolt | 9. TORX bolt |

Refer to [GI-4, "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

INFOID:000000001538630

REMOVAL

1. Remove the rear door finisher. Refer to [INT-13, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Fully close the front door window.
3. Remove the door sealing screen.
4. Remove the inside handle mounting bolt, disconnect the inside handle cable.

REAR DOOR LOCK

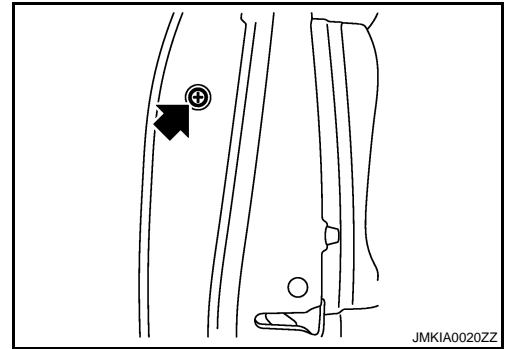
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

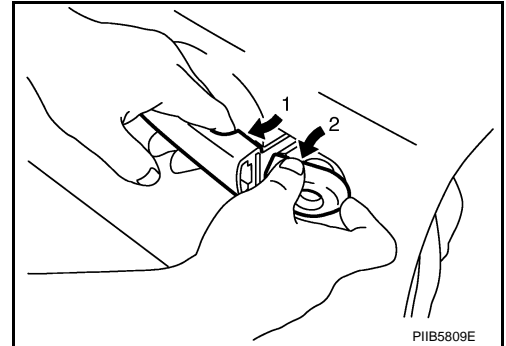
5. Remove the door side grommet, and loosen TORX bolt from the grommet hole.

CAUTION:

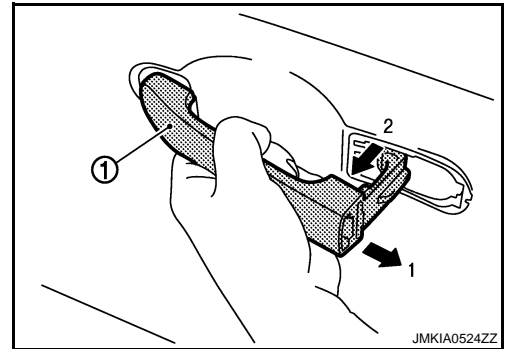
Do not forcibly remove the bolts.



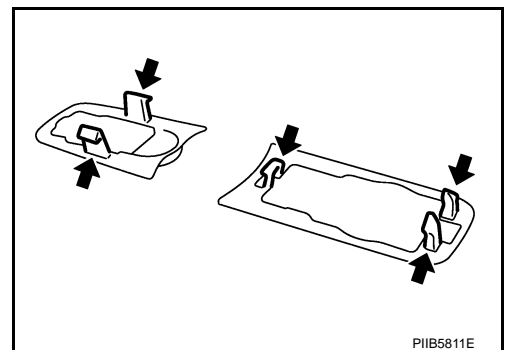
6. While pulling the outside handle, and then remove the door key cylinder assembly.



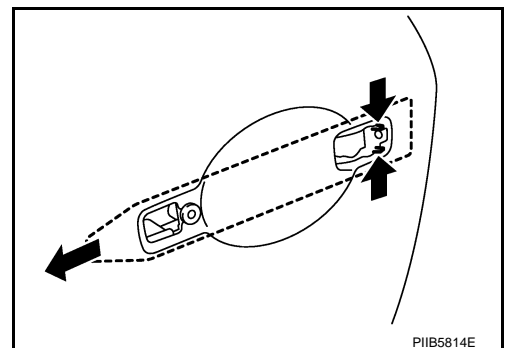
7. While pulling the outside handle (1), slide toward rear of vehicle to remove the outside handle.



8. Remove the front gasket and the rear gasket.



9. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



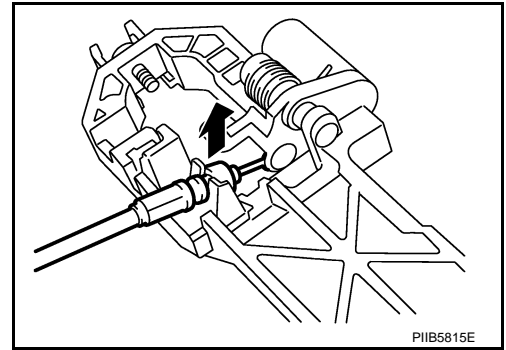
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REAR DOOR LOCK

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

10. Reach in to separate the outside handle cable connection.



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.

BACK DOOR LOCK

< ON-VEHICLE REPAIR >

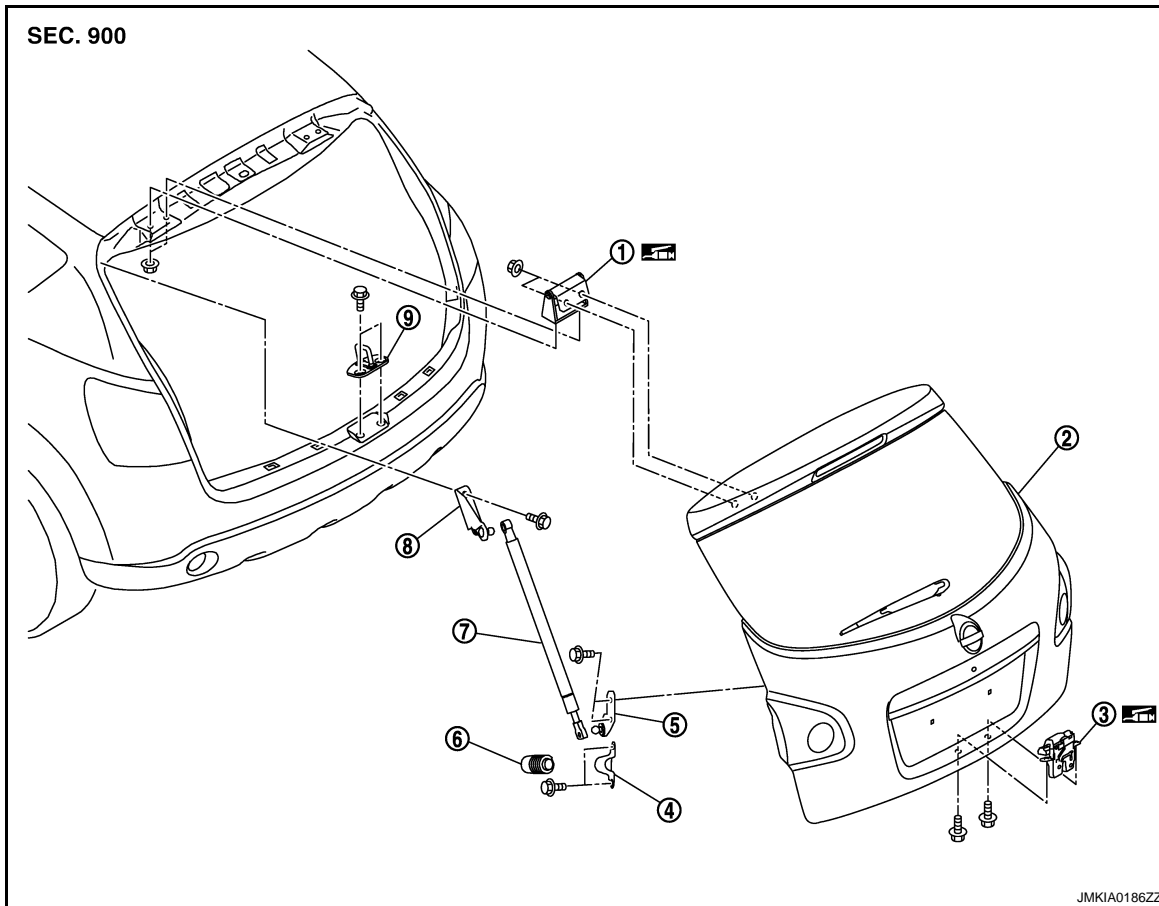
[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000001538631



- | | | |
|--------------------------|-----------------------------------|----------------------------|
| 1. Back door hinge | 2. Back door assembly | 3. Back door lock assembly |
| 4. Bumper rubber bracket | 5. Back door stay bracket (lower) | 6. Bumper rubber |
| 7. Back door stay | 8. Back door stay bracket (upper) | 9. Back door striker |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000001538632

REMOVAL

1. Remove the back door trim finisher lower. Refer to [INT-26. "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 >

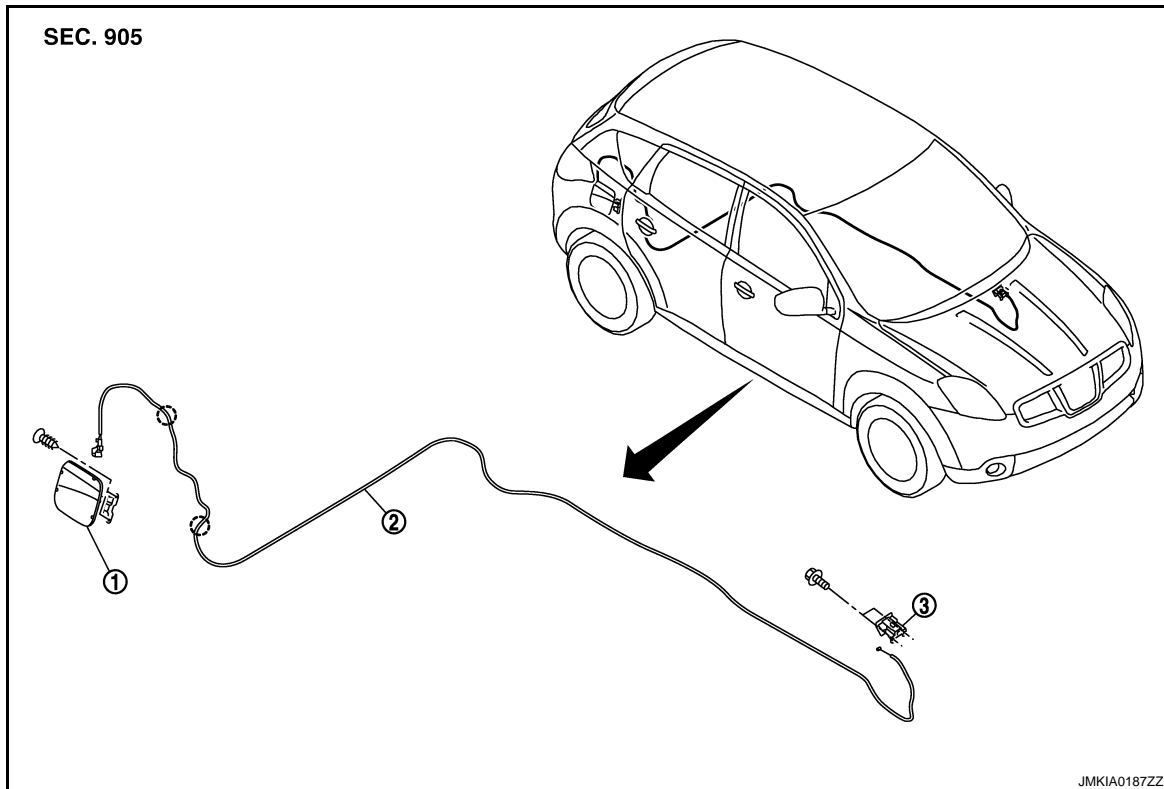
[WITHOUT I-KEY, WITH SUPER LOCK]

FUEL FILLER LID OPENER

FUEL FILLER LID

FUEL FILLER LID : Exploded View

INFOID:000000001538633



1. Fuel filler lid assembly

2. Fuel filler opener cable

3. Fuel opener lever

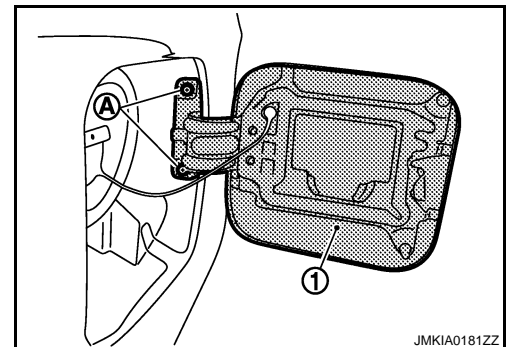
○ : Clip

FUEL FILLER LID : Removal and Installation

INFOID:000000001538634

REMOVAL

1. Fully open the fuel filler lid.
2. Remove the filler cap.
3. Remove the mounting screws (A), and then remove the fuel filler lid (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, apply the touch-up paint (the body color) onto the head of the mounting screws.

FUEL FILLER OPENER CABLE

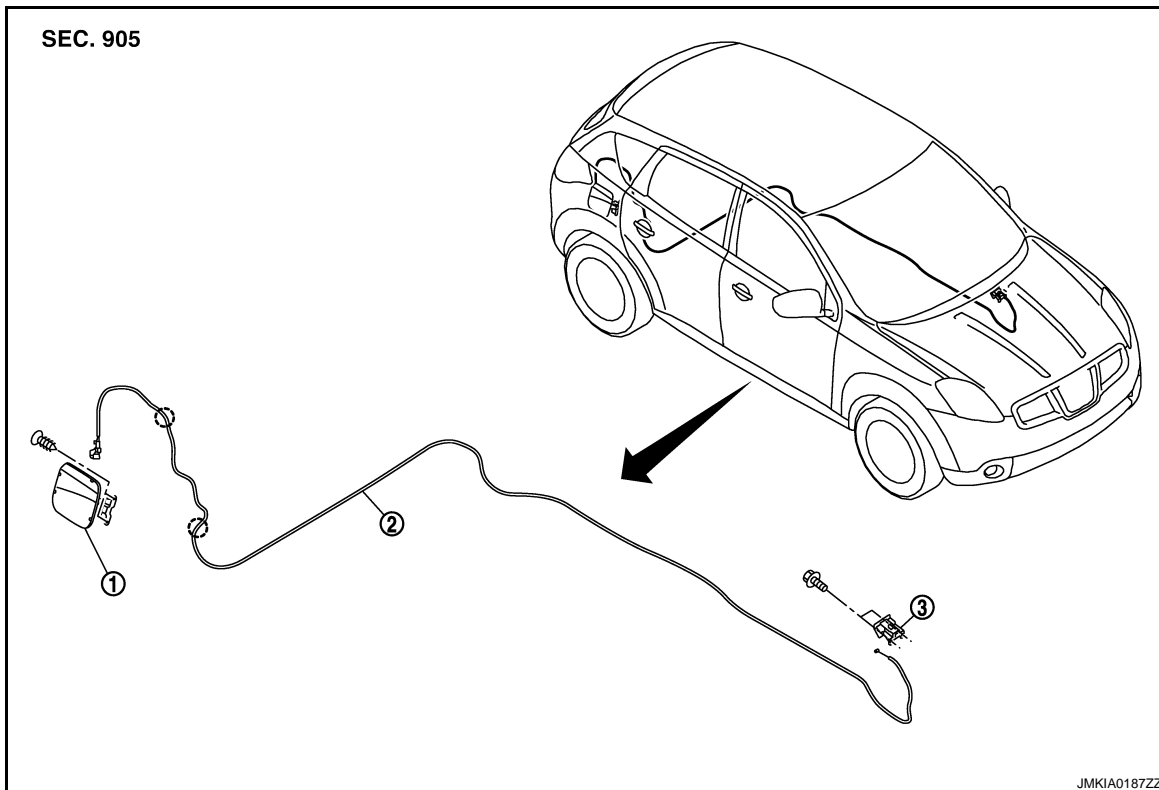
FUEL FILLER LID OPENER

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

FUEL FILLER OPENER CABLE : Exploded View


INFOID:000000001538636



1. Fuel filler lid assembly

2. Fuel filler opener cable

3. Fuel opener lever

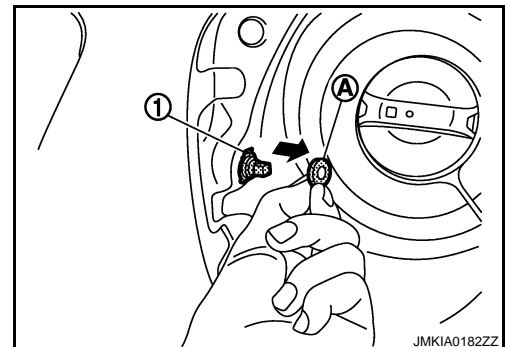
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FUEL FILLER OPENER CABLE : Removal and Installation

INFOID:000000001538637

REMOVAL

1. Remove the rear seat cushion, rear seatback, seatback lower support, and seatback mounting outer bracket. Refer to [SE-21. "Removal and Installation"](#).
2. Remove the dash side finisher, front kicking plate inner, rear kicking plate inner, center pillar lower garnish, and luggage side lower finisher (front). Refer to [INT-14. "Removal and Installation"](#).
3. Remove the parcel shelf, luggage floor carpet, luggage floor spacer, luggage rear plate, luggage side lower finisher, and rear pillar finisher. Refer to [INT-24. "Removal and Installation"](#).
4. Remove the fuel filler lock seal (A) from fuel filler opener cable (1).



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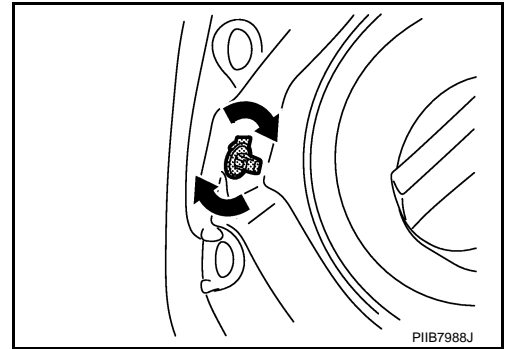
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FUEL FILLER LID OPENER

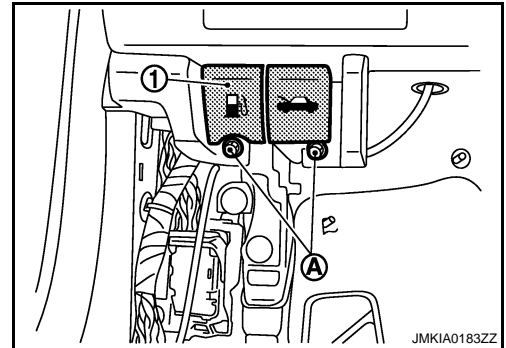
< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

5. Rotate the fuel filler lock, and then remove the fuel filler lock.



6. Remove the fuel filler opener cable mounting clips and the clamps.
7. Remove the mounting bolts (A), and then remove the fuel filler lid opener lever (1).



8. Remove the fuel filler opener cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the fuel filler lid open/close operation after installation.

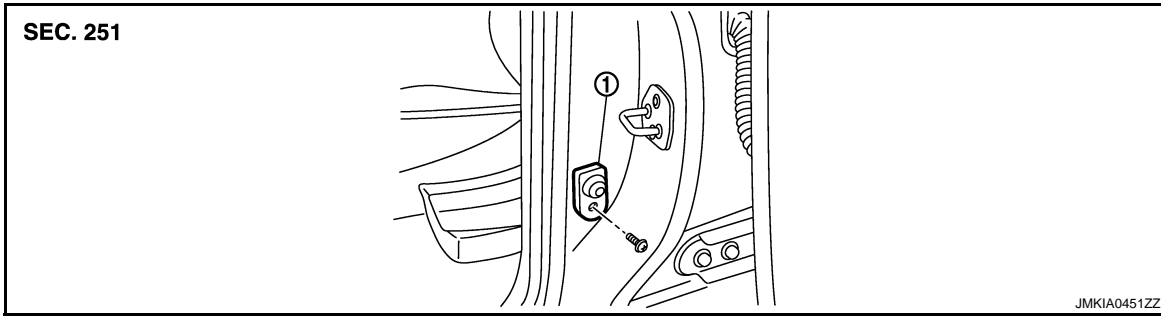
DOOR SWITCH

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

DOOR SWITCH

Exploded View



1. Door switch (driver side)

Refer to [DLK-873. "Removal and Installation"](#).

Removal and Installation

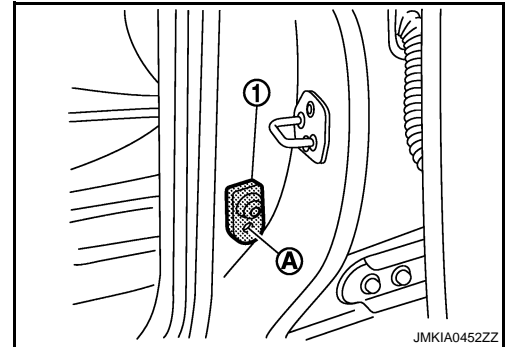
INFOID:000000001184573

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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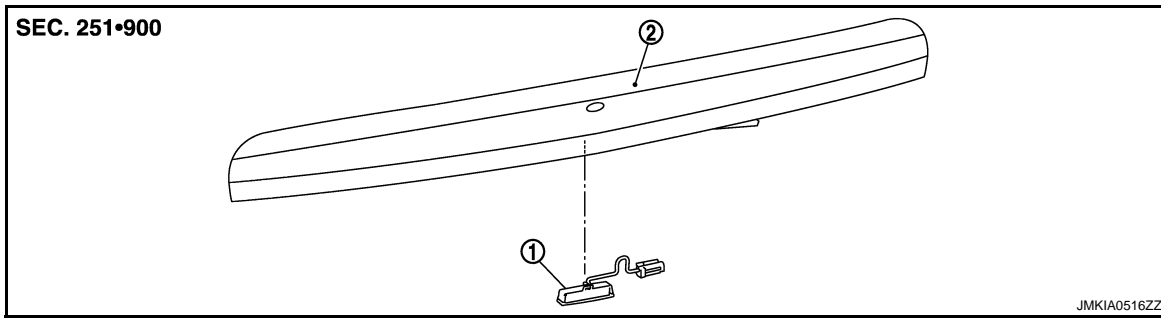
BACK DOOR OPENER SWITCH

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

BACK DOOR OPENER SWITCH

Exploded View



1. Back door opener switch
2. Back door finisher

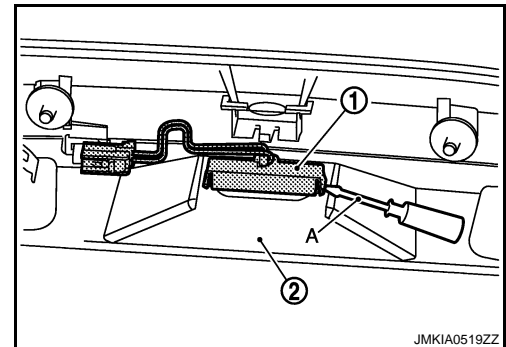
Refer to [DLK-874, "Removal and Installation"](#).

Removal and Installation

INFOID:000000001184575

REMOVAL

1. Remove the back door finisher.
Refer to [EXT-31, "Exploded View"](#) and [EXT-31, "Removal and Installation"](#).
2. Remove the back door opener switch (1) from back door finisher (2) using flat-bladed screw driver (A) etc.



INSTALLATION

Install in the reverse order of removal.

KEYFOB BATTERY

< ON-VEHICLE REPAIR >

[WITHOUT I-KEY, WITH SUPER LOCK]

KEYFOB BATTERY

Exploded View

INFOID:000000001184576

Refer to [DLK-875, "Removal and Installation"](#).

Removal and Installation

INFOID:000000001184577

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:

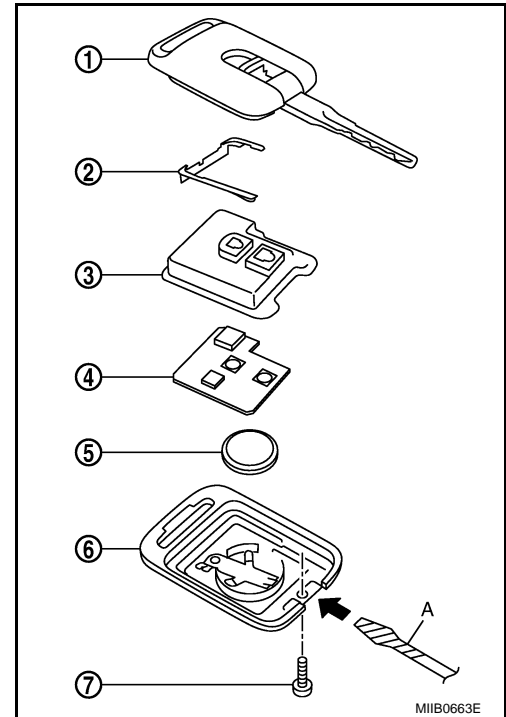
When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.

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-609, "Component Function Check"](#).



INSTALLATION

Install in the reverse order of removal.

A
B
C
D
E
F
G
H
I
J
L
M
N
O
P

DLK