

SECTION DLK
DOOR & LOCK

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HOW TO USE THIS MANUAL**APPLICATION NOTICE****Information**

INFOID:0000000010709172

Check the vehicle type to use the service information in this section.

Service information	Destination		
	Handle	Intelligent Key system	Super lock function
Type 1	RHD	With	With
Type 2	LHD	With	Without
Type 3	RHD	Without	With
Type 4	LHD	Without	Without

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000010708011

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 AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

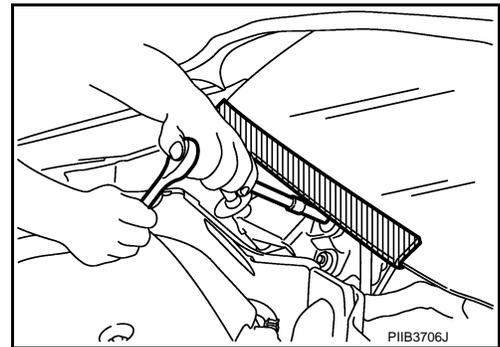
Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Procedure without Cowl Top Cover

INFOID:000000010708012

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



Work

INFOID:000000010708013

- 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 >

[TYPE 1]

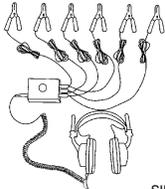
PREPARATION

PREPARATION

Special Service Tools

INFOID:0000000010708014

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
<p>(J-39570) Chassis ear</p>  <p>SIIA0993E</p>	<p>Locates the noise</p>
<p>(J-50397) NISSAN Squeak and Rattle Kit</p>  <p>SIIA0994E</p>	<p>Repairs the cause of noise</p>

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[TYPE 1]

SYSTEM DESCRIPTION

COMPONENT PARTS

DOOR LOCK SYSTEM

DOOR LOCK SYSTEM : Component Parts Location

INFOID:0000000010708015

VIEW WITH REAR

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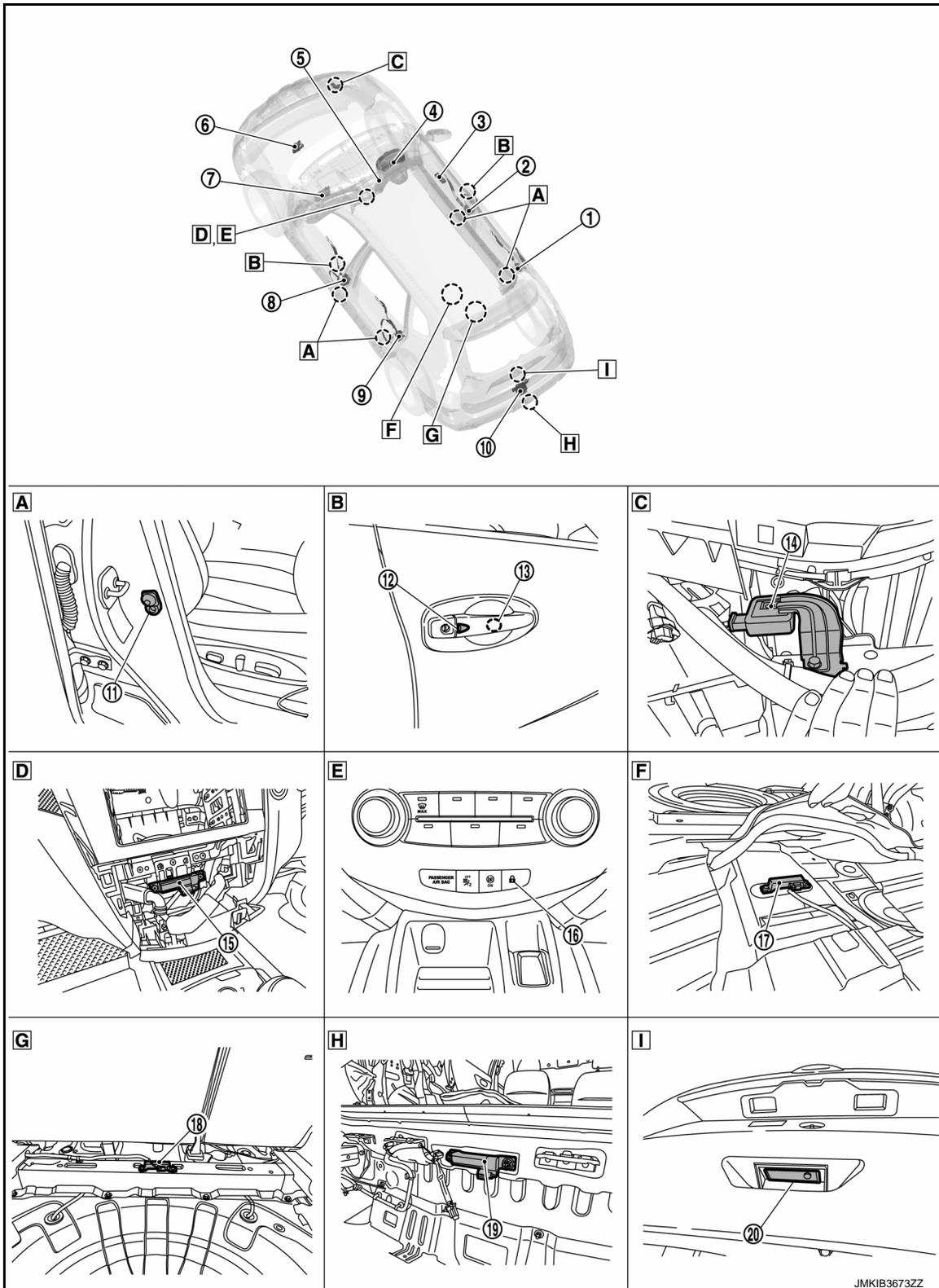
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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[TYPE 1]



- | | | |
|--|--|---|
| A View with door opened | B View with door panel | C View with front bumper fascia assembly removed |
| D View with A/C control removed | E View with instrument panel center | F View with rear seat removed |
| G View with front luggage floor board removed | H View with rear bumper fascia assembly removed | I View with back door panel |

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[TYPE 1]

No.	Component	Function
①	Rear door lock assembly RH	DLK-31, "DOOR LOCK SYSTEM : Door Lock Assembly"
②	Front door lock assembly (driver side)	DLK-31, "DOOR LOCK SYSTEM : Door Lock Assembly"
③	Power window main switch (door lock and unlock switch)	DLK-31, "DOOR LOCK SYSTEM : Door Lock and Unlock Switch"
④	Combination meter	<ul style="list-style-type: none"> Performs operation method guide and warning with buzzer. Transmits vehicle speed signal to CAN communication line.
⑤	Push-button ignition switch	Inputs push-button ignition switch ON/OFF condition to BCM. Refer to PCS-65, "Component Parts Location" for detailed installation location.
⑥	TCM	Transmits shift position signal to BCM and automatic back door control unit via CAN communication line. Refer to TM-235, "CVT CONTROL SYSTEM : Component Parts Location" for detailed installation location.
⑦	BCM	BCM detects the vehicle status according to signals from each door switch and each outside/inside key antenna. BCM transmits drive signal to door lock actuator when BCM receives operation signal from remote keyless entry receiver and each switch. Refer to BCS-6, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
⑧	Front door lock assembly (passenger side)	DLK-31, "DOOR LOCK SYSTEM : Door Lock Assembly"
⑨	Rear door lock assembly LH	DLK-31, "DOOR LOCK SYSTEM : Door Lock Assembly"
⑩	Back door lock assembly	DLK-30, "DOOR LOCK SYSTEM : Back Door Lock Assembly"
⑪	Door switch	DLK-32, "DOOR LOCK SYSTEM : Door Switch"
⑫	Front door request switch	DLK-32, "DOOR LOCK SYSTEM : Door Request Switch"
⑬	Outside key antenna (front door)	DLK-33, "DOOR LOCK SYSTEM : Outside Key Antenna"
⑭	Intelligent Key warning buzzer	DLK-33, "DOOR LOCK SYSTEM : Intelligent Key Warning Buzzer"
⑮	Inside key antenna (instrument center)	DLK-32, "DOOR LOCK SYSTEM : Inside Key Antenna"
⑯	Door lock status indicator	DLK-32, "DOOR LOCK SYSTEM : Door Lock Status Indicator"
⑰	Inside key antenna (luggage room) (For 3 seat rows models)	DLK-32, "DOOR LOCK SYSTEM : Inside Key Antenna"
⑱	Inside key antenna (luggage room) (For 2 seat rows models)	DLK-32, "DOOR LOCK SYSTEM : Inside Key Antenna"
⑲	Outside key antenna (rear bumper)	DLK-33, "DOOR LOCK SYSTEM : Outside Key Antenna"
⑳	Back door opener switch assembly	DLK-30, "DOOR LOCK SYSTEM : Back Door Opener Switch Assembly"

VIEW WITH FRONT

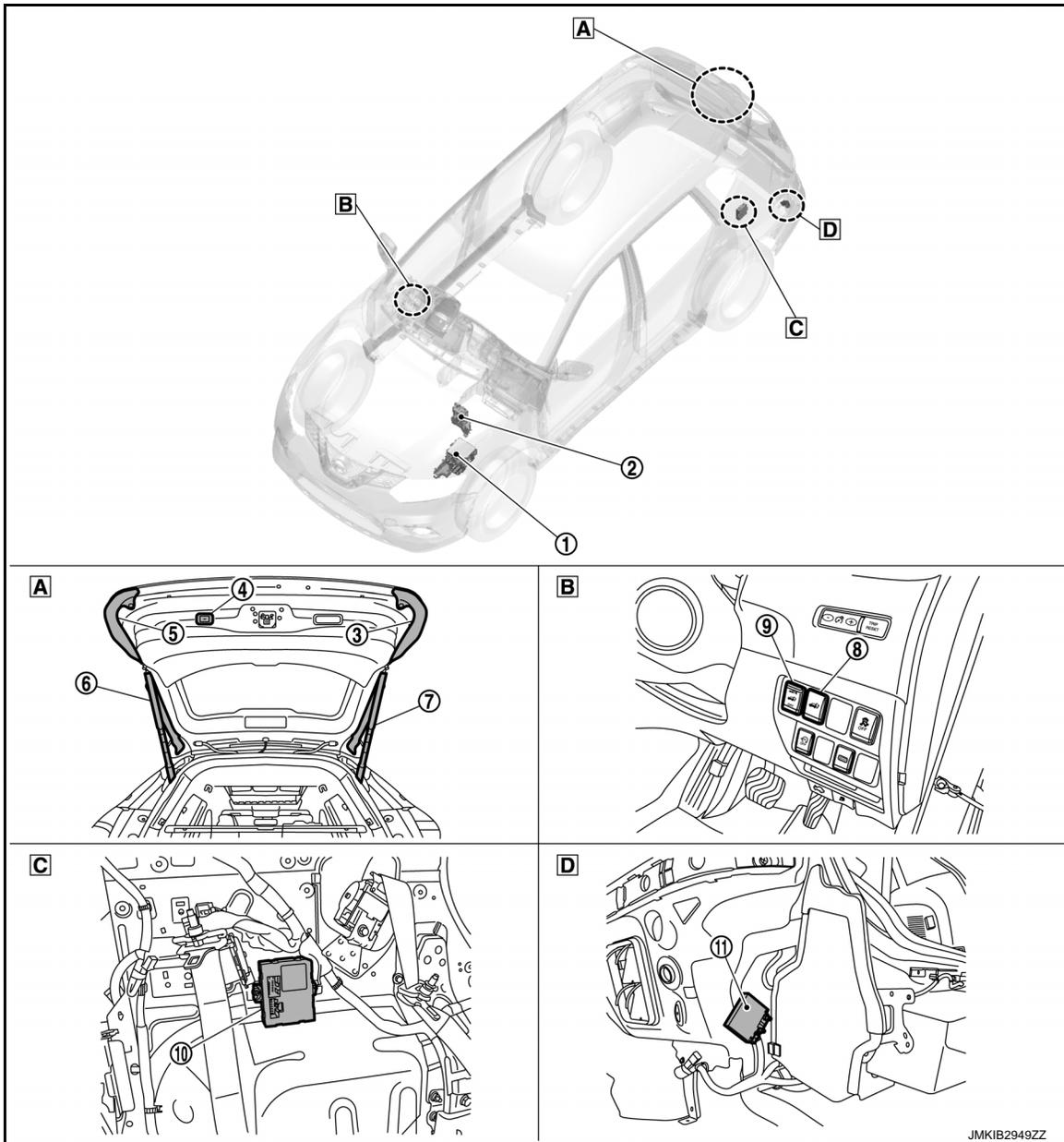
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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[TYPE 1]



- A View with back door opened
 B View with instrument lower panel LH
 C View with luggage side lower finisher removed
D View with rear bumper fascia assembly removed

No.	Component	Function
①	IPDM E/R	Transmits ignition switch ON signal to BCM and automatic back door control unit via CAN communication line. Refer to PCS-5, "Component Parts Location" for detailed installation location.
②	ABS actuator and electric unit (control unit)	Transmits vehicle speed signal to BCM and automatic back door control unit via CAN communication line. Refer to BRC-14, "Component Parts Location" for detailed installation location.
③	Touch sensor RH	DLK-34, "DOOR LOCK SYSTEM : Touch Sensor"
④	Automatic back door close switch	DLK-29, "DOOR LOCK SYSTEM : Automatic Back Door Close Switch"
⑤	Touch sensor LH	DLK-34, "DOOR LOCK SYSTEM : Touch Sensor"

COMPONENT PARTS

< SYSTEM DESCRIPTION >

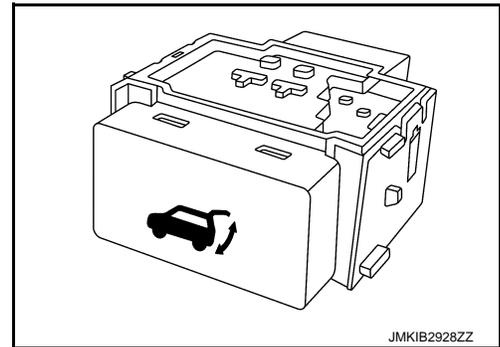
[TYPE 1]

No.	Component	Function
⑥	Spindle unit LH	DLK-33. "DOOR LOCK SYSTEM : Spindle Unit"
⑦	Spindle unit RH	DLK-33. "DOOR LOCK SYSTEM : Spindle Unit"
⑧	Automatic back door switch	DLK-30. "DOOR LOCK SYSTEM : Automatic Back Door Switch"
⑨	Automatic back door main switch	DLK-29. "DOOR LOCK SYSTEM : Automatic Back Door Main Switch"
⑩	Automatic back door control unit	DLK-29. "DOOR LOCK SYSTEM : Automatic Back Door Control Unit"
⑪	Automatic back door warning buzzer	DLK-30. "DOOR LOCK SYSTEM : Automatic Back Door Warning Buzzer"

DOOR LOCK SYSTEM : Automatic Back Door Close Switch

INFOID:0000000010708016

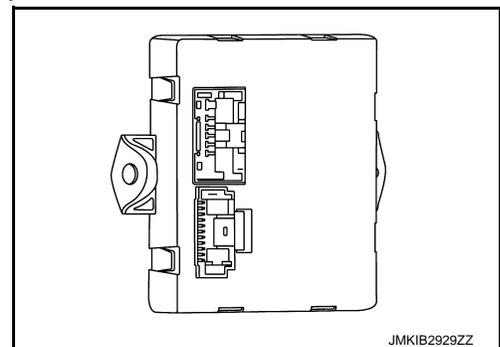
- When automatic back door close switch is pressed, back door auto close or reverse operation is detected and transmits automatic back door close switch signal to automatic back door control unit.
- Automatic back door close switch is installed in the back door panel.



DOOR LOCK SYSTEM : Automatic Back Door Control Unit

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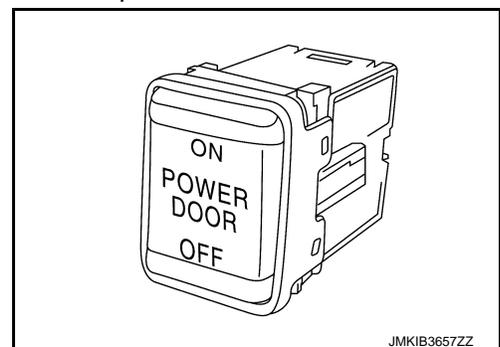
- Automatic back door control unit controls the automatic back door system.
- Automatic back door control unit is installed behind luggage side lower finisher.



DOOR LOCK SYSTEM : Automatic Back Door Main Switch

INFOID:0000000010708018

- Controls automatic back door open/close operation of automatic back door open/close function.
- Automatic back door main switch is installed in the instrument lower panel RH.



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COMPONENT PARTS

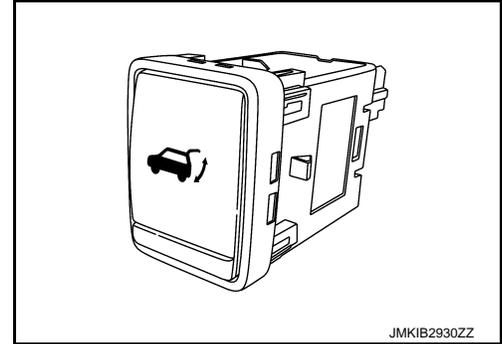
< SYSTEM DESCRIPTION >

[TYPE 1]

DOOR LOCK SYSTEM : Automatic Back Door Switch

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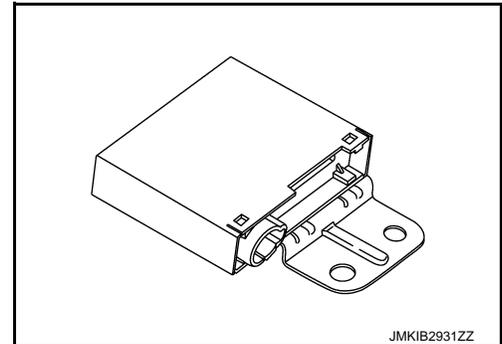
- When automatic back door switch is pressed, back door auto open/close operation is detected and transmits automatic back door switch signal to automatic back door control unit.
- Automatic back door switch is installed in the instrument lower panel LH.



DOOR LOCK SYSTEM : Automatic Back Door Warning Buzzer

INFOID:000000010708020

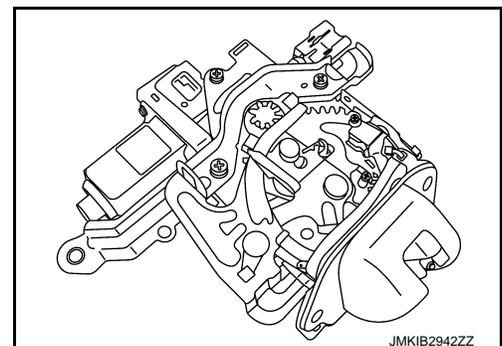
- Warns the user of the automatic back door condition and inappropriate operations with the buzzer sounds.
- Automatic back door warning buzzer is installed behind rear bumper fascia assembly.



DOOR LOCK SYSTEM : Back Door Lock Assembly

INFOID:000000010708021

- Back door lock assembly integrates back door closure motor, half latch switch, open switch, close switch and back door switch.
- Closure motor: Inputs open/close signal from automatic back door control unit and activates the back door auto closure operation.
- Half latch switch: Starts the closure motor close operation.
- Open switch: Stops the closure motor open operation.
- Close switch: Stops the closure motor close operation
- Back door switch: Detects open/close status of back door.
- Back door lock assembly is installed in the back door panel.



DOOR LOCK SYSTEM : Back Door Opener Switch Assembly

INFOID:000000010708022

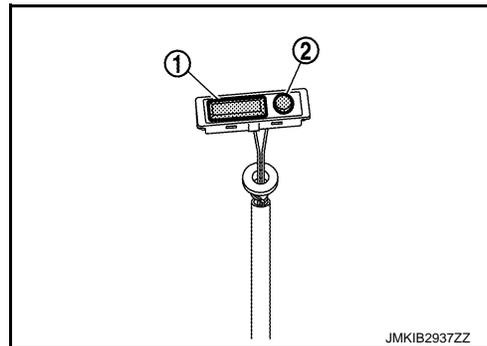
- Back door opener switch assembly integrates back door opener switch and back door opener request switch.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[TYPE 1]

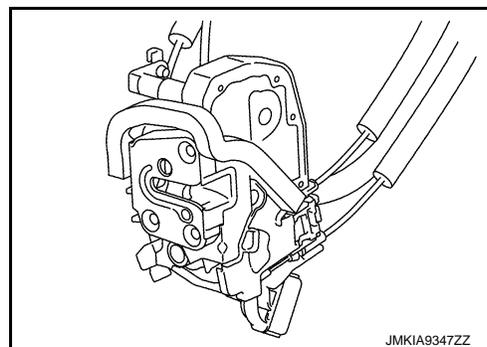
- Back door opener switch ① detects open operation of back door and transmits back door opener switch signal to BCM.
- Back door request switch ② detects door lock/unlock operation and transmits door request switch signal to BCM.
- Back door opener switch assembly is installed in the back door



DOOR LOCK SYSTEM : Door Lock Assembly

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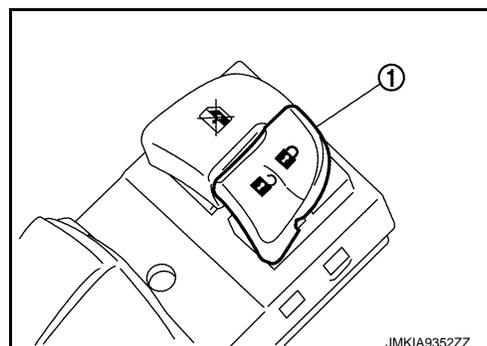
- Door lock actuator and unlock sensor are integrated in front door lock assembly (driver side).
- Door lock actuator receives lock/unlock signal from BCM, and then locks/unlocks door.
- Only front door lock assembly (driver side) integrates unlock sensor. Unlock sensor transmits lock/unlock status of driver side door to BCM.



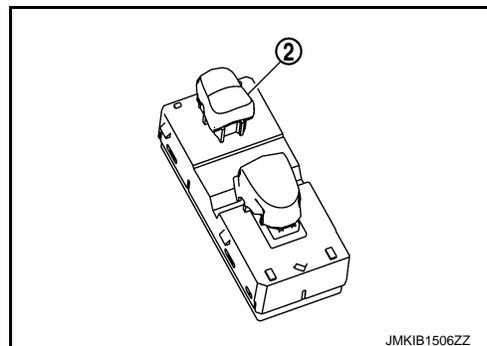
DOOR LOCK SYSTEM : Door Lock and Unlock Switch

INFOID:000000010708024

- Door lock and unlock switch transmits door lock/unlock signal operation to BCM.
- Driver side door lock and unlock switch ① is integrated in the power window main switch.



- Passenger side door lock and unlock switch ② is integrated in front power window switch (passenger side).



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COMPONENT PARTS

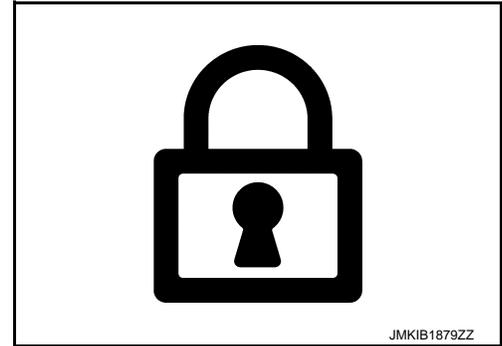
< SYSTEM DESCRIPTION >

[TYPE 1]

DOOR LOCK SYSTEM : Door Lock Status Indicator

INFOID:0000000010713165

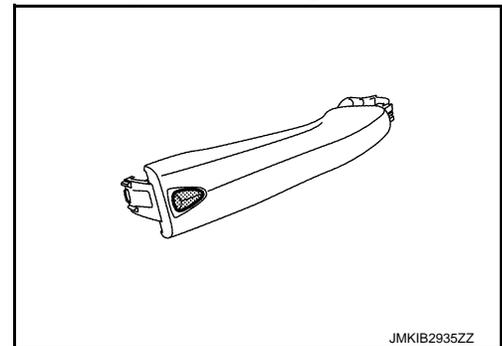
- Door lock status indicates door lock status.
- The indicator illuminates when a lock operation is successful.
- Door lock status indicator is integrated in the integral switch.



DOOR LOCK SYSTEM : Door Request Switch

INFOID:0000000010708025

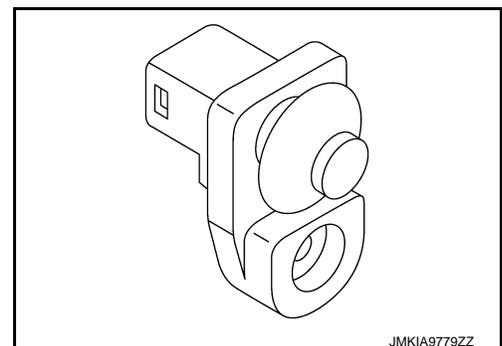
- Door request switch detects door lock/unlock operation and transmits door request switch signal to BCM.
- Door request switch is integrated in the outside handle grip.



DOOR LOCK SYSTEM : Door Switch

INFOID:0000000010708026

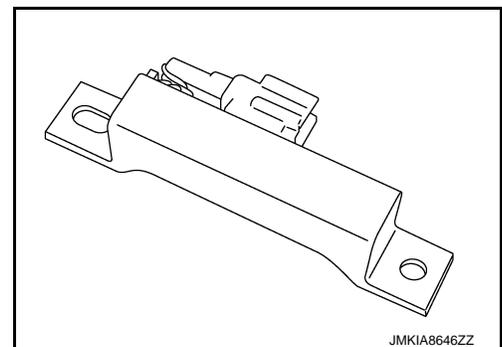
Detects door open/close condition.



DOOR LOCK SYSTEM : Inside Key Antenna

INFOID:0000000010708028

- Inside key antenna detects that Intelligent Key is within the inside detection area, and then transmits detection status to BCM.
- Inside key antenna (instrument center) is installed behind instrument lower cover.
- Inside key antenna (luggage room) is installed behind rear seat.



COMPONENT PARTS

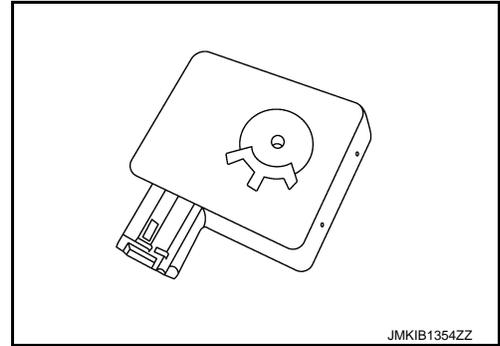
< SYSTEM DESCRIPTION >

[TYPE 1]

DOOR LOCK SYSTEM : Intelligent Key Warning Buzzer

INFOID:000000010708029

- Intelligent Key warning buzzer warns the user, who is outside vehicle, of operation confirmation according to Intelligent Key operation and door request switch operation, or of an inappropriate operation.
- Intelligent Key warning buzzer is installed in the rear of front bumper fascia assembly.

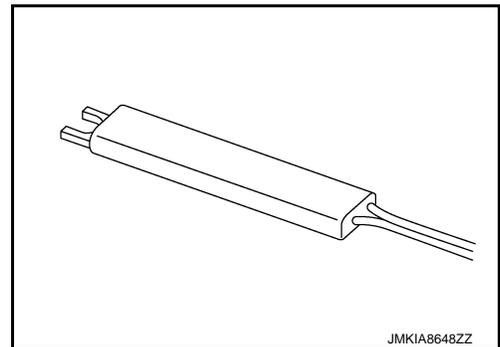


DOOR LOCK SYSTEM : Outside Key Antenna

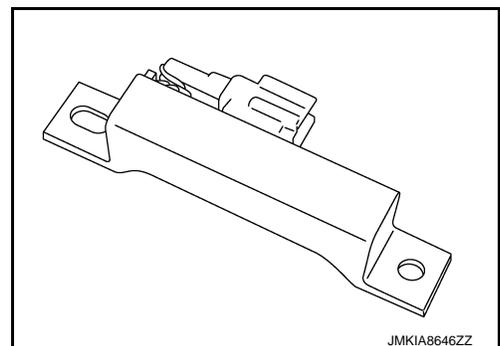
INFOID:000000010708030

- Outside key antenna detects that Intelligent Key is within the outside detection area, and then transmits detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.
- Outside key antenna (driver side) and outside key antenna (passenger side) are installed in the outside handle.
- Outside key antenna (rear bumper) is installed in the rear of bumper fascia assembly.

DRIVER SIDE AND PASSENGER SIDE



REAR BUMPER



DOOR LOCK SYSTEM : Spindle Unit

INFOID:000000010708031

- Spindle unit integrates encoder
- Encoder: Automatic back door control unit receives the pulse signals from encoders A and B that occurred due to synchronization with the back door operation. The automatic back door control unit calculates the back door position, operation direction, and operation speed according to the received pulse signals.

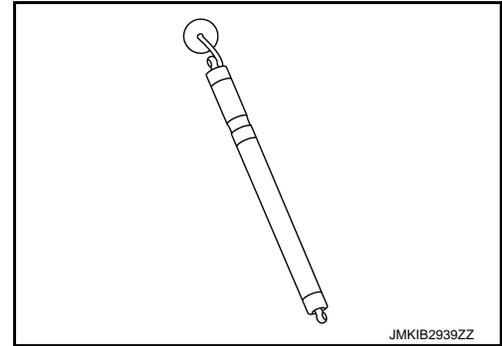
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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[TYPE 1]

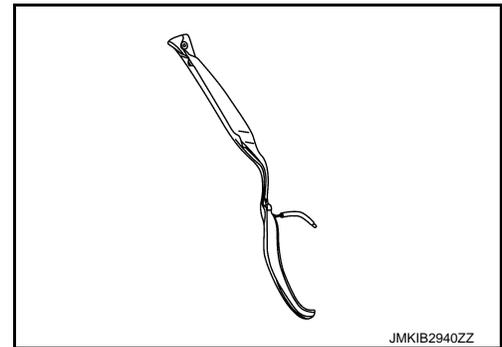
- Spindle motor: Inputs open/close signal from automatic back door control unit and activates the automatic back door open/close operation.



DOOR LOCK SYSTEM : Touch Sensor

INFOID:000000010708032

During back door close operation, the touch sensor detects any trapped foreign material.



SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

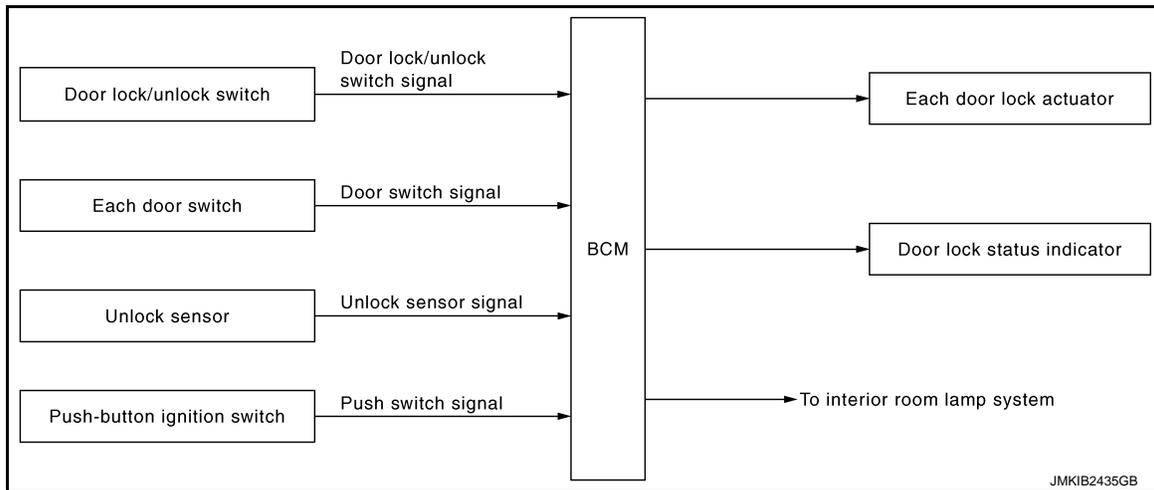
[TYPE 1]

SYSTEM (POWER DOOR LOCK SYSTEM)

System Description

INFOID:000000010708033

SYSTEM DIAGRAM



DOOR LOCK FUNCTION

Door Lock and Unlock Switch

- The door lock and unlock switches are built into power window main switch and front power window switch (passenger side).
- Interlocked with the locking operation of door lock and unlock switch, door lock actuator of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuator of all doors are unlocked.

Unlock Sensor

- BCM locks all doors or unlocks all doors, when driver door lock knob is operated.
- With the mechanical key inserted in the door key cylinder on driver side, turning it to lock position, locks door lock actuator of all doors.
- With the mechanical key inserted in the door key cylinder on driver side, turning it to unlock position once unlocks the driver door, turning it to unlock position again within 5 seconds after the first unlock operation unlocks all of the other doors actuator. (Anti-hijack function operation)

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Anti-hijack function operation mode can be changed using CONSULT. Refer to [DLK-74, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\) \(With Intelligent Key System and Super Lock\)"](#).

Operation Condition

If all of the following conditions are satisfied, door lock and unlock operation is performed using the door lock and unlock switch.

Door lock and unlock switch operation	Operation condition
LOCK/UNLOCK	<ul style="list-style-type: none"> • Doors are not locked by Intelligent Key, door request switch and auto door lock function • Ignition position warning function is not activated • Key remainder function (driver door opened) is not activated. Refer to DLK-49, "KEY REMINDER FUNCTION : System Description"

IGNITION POSITION WARNING FUNCTION

When ignition switch position is ON and any door is open, all doors cannot locked when door lock and unlock switch is operated in lock direction.

INTERIOR ROOM LAMP CONTROL FUNCTION

Interior room lamp is controlled according to door lock /unlock state, refer to [INL-11, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"](#).

OVERRIDE FUNCTION

SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

When inside handle of driver door is operated while doors are in lock states, lock state of the applicable door lock becomes invalid and the door is open.

UNLOCK LINK FUNCTION

When driver door is opened using the override function, all doors are unlocked.

Unlock function operates when driver door is open while all of the following conditions are satisfied.

Operation condition	<ul style="list-style-type: none"> • Doors are locked by door lock/unlock switch or by automatic lock/unlock function • Driver side door switch is switched from OFF to ON • Anti-hijack function is not activated • Vehicle speed is 5 km/h (3 MPH) or less
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NOTE:

When anti-hijack function is activated, only the applicable door is unlocked.

DOOR LOCK STATUS INDICATOR OPERATION

The door lock status indicator indicates door lock status under the following condition.

Indicator operation	Ignition position	Door status	Lock operation
ON (30 minutes timer)	OFF	All doors are closed and door is locked	Door lock and unlock switch
ON	ON	All doors are closed and door is locked	Door lock and unlock switch
ON (1 minute timer)	OFF	All doors are closed and door is locked	Intelligent Key, door request switch or auto door lock function
ON	ON	All doors are closed and door is locked	Intelligent Key, door request switch or auto door lock function
ON → OFF	–	(All doors are closed → any door is open) or (All doors are locked → any door is unlocked)	–
ON (timer is running) → ON (timer is stop)	OFF → ON	–	–
ON → ON (30 minutes timer)	ON → OFF	–	Door lock and unlock switch
ON → ON (1 minute timer)	ON → OFF	–	Intelligent Key, door request switch or auto door lock function

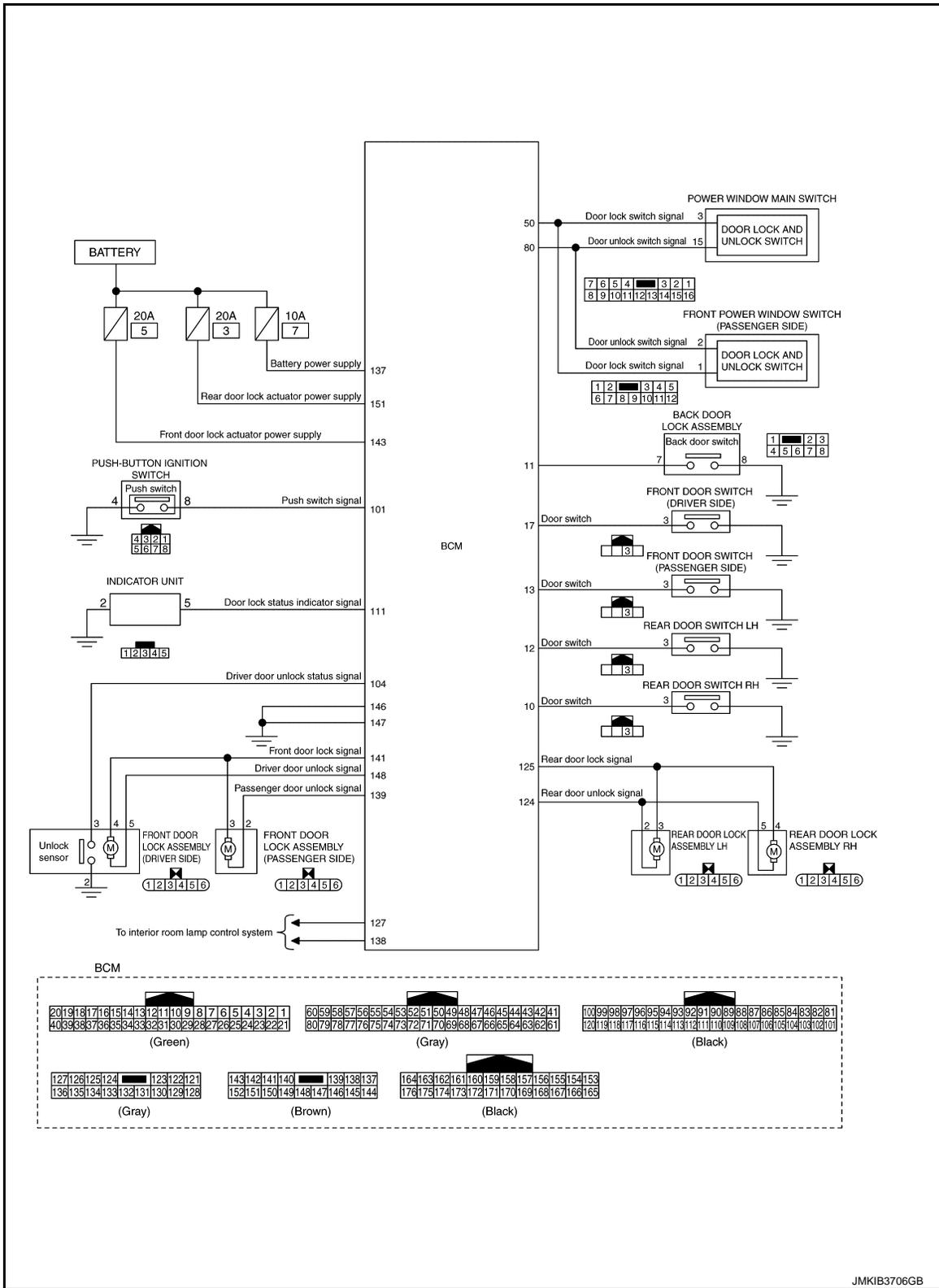
SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

Circuit Diagram

INFOID:000000010708034



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SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

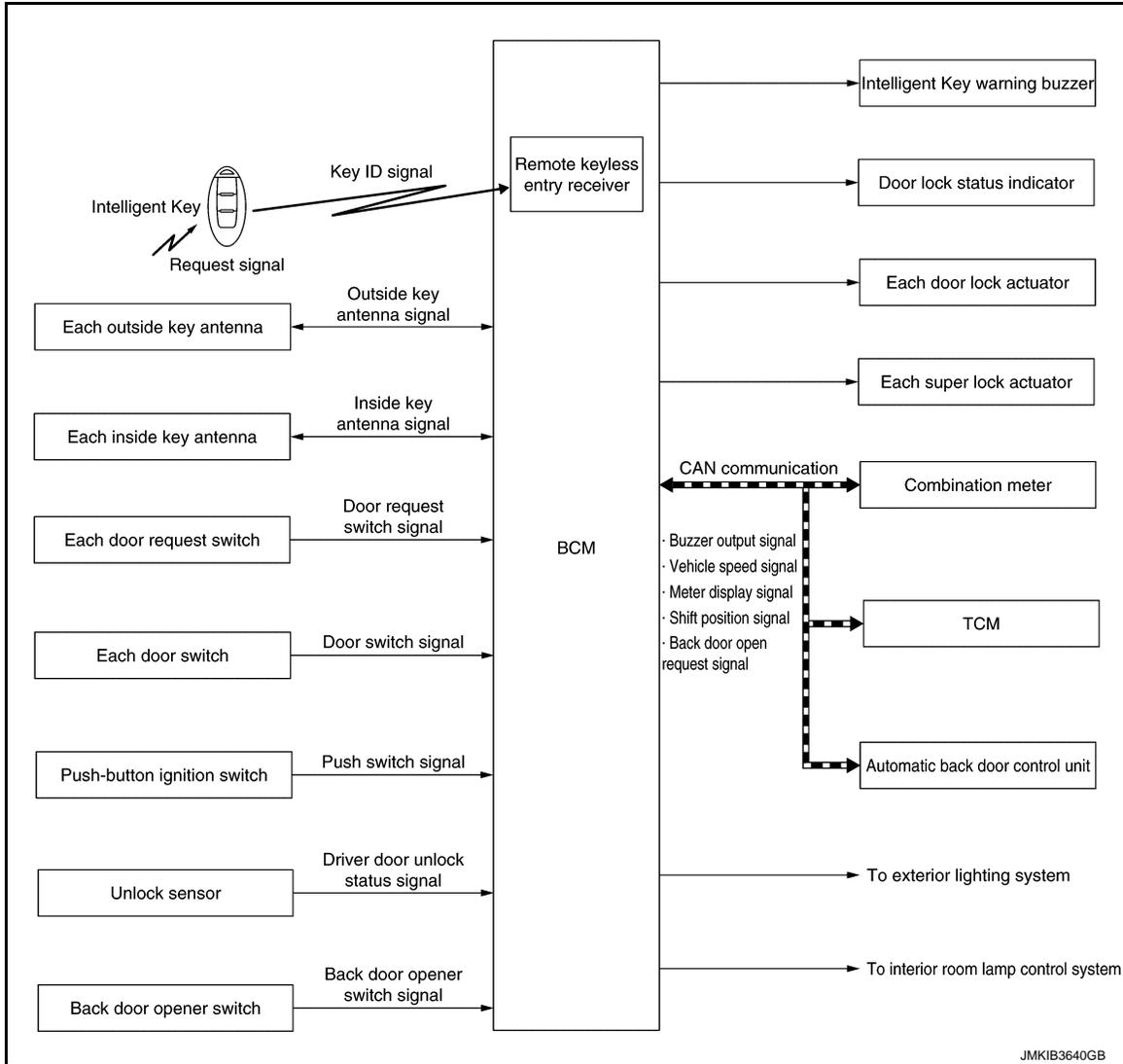
[TYPE 1]

SYSTEM (INTELLIGENT KEY SYSTEM) INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Description

INFOID:000000010708035

SYSTEM DIAGRAM



SYSTEM DESCRIPTION

- The Intelligent Key system is a system that makes it possible to lock and unlock the door locks (door lock/unlock function) by carrying the Intelligent Key, which operates based on the results of electronic ID verification using two-way communication between the Intelligent Key and the vehicle (BCM).

NOTE:

The driver should always carry the Intelligent Key

- The settings for each function can be changed with CONSULT.
- If an Intelligent Key is lost, a new Intelligent Key can be registered. A maximum of 4 Intelligent Keys can be registered.
- It is possible to perform a diagnosis on the system and register an Intelligent Key with CONSULT.

Function	Description	Refer
Door lock	Lock/unlock can be performed by pressing the door request switch.	DLK-42
Back door open	The back door can be opened by carrying the Intelligent Key and pressing the back door opener switch.	DLK-44

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

Function	Description	Refer
Super lock	When all doors are closed super lock system can be set/release by Intelligent Key or door request switch	DLK-46
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.	DLK-47
Key reminder	The Intelligent Key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.	DLK-49
Warning (information display)	If an action that does not meet the operating condition of the Intelligent Key system is taken, the information display displays to inform the driver.	DLK-61
Warning (buzzer)	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver.	DLK-61
Engine start	The engine can be turned on while carrying the Intelligent Key.	SEC-15
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state.	INL-11

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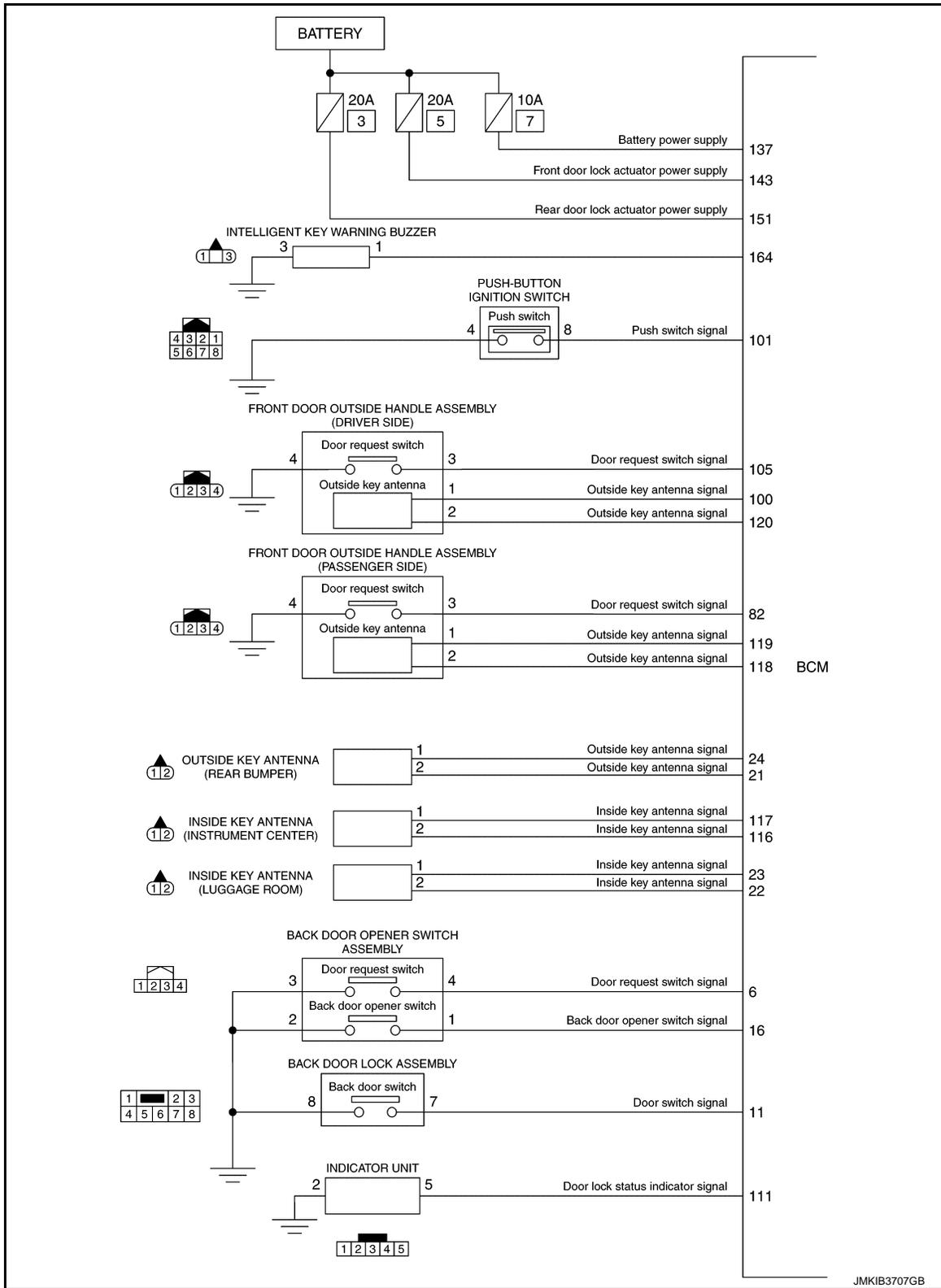
SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

INTELLIGENT KEY SYSTEM : Circuit Diagram

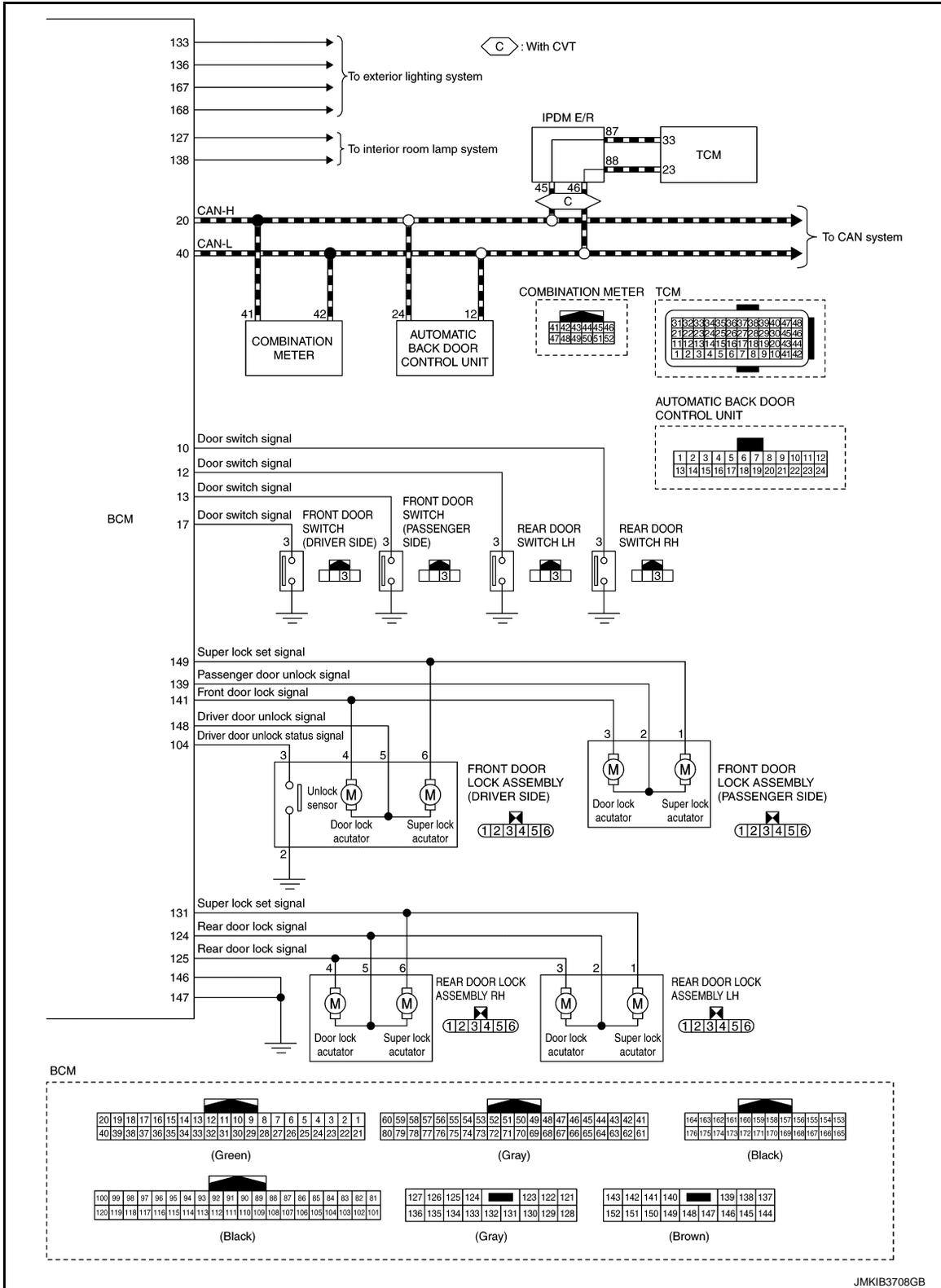
INFOID:000000010708036



SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]



DOOR LOCK FUNCTION

SYSTEM (INTELLIGENT KEY SYSTEM)

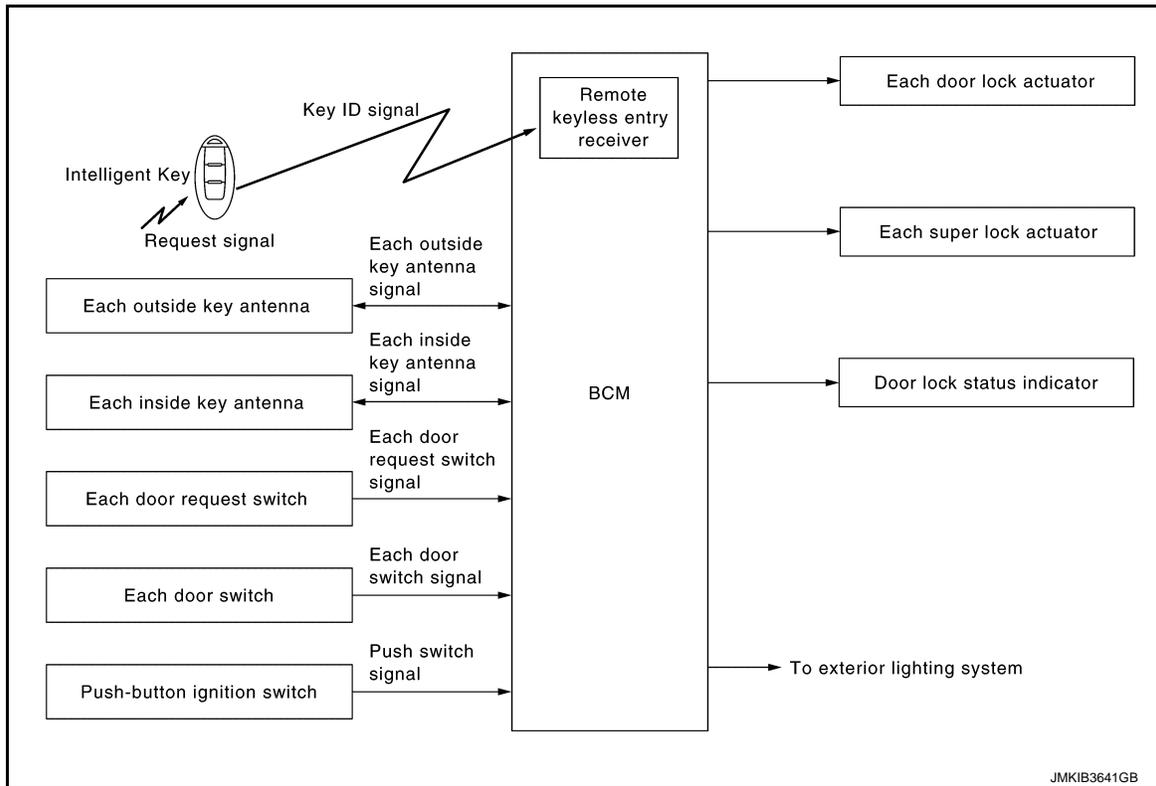
< SYSTEM DESCRIPTION >

[TYPE 1]

DOOR LOCK FUNCTION : System Description

INFOID:000000010708037

SYSTEM DIAGRAM



Door lock function controls operation function of the following items.

- Door lock and unlock function (door request switch)
- Anti-hijack function (door request switch)
- Reminder function (door request switch)
- Auto door lock function (door request switch)
- Door lock status indicator operation

DOOR LOCK AND UNLOCK FUNCTION (DOOR REQUEST SWITCH)

When pressing the door request switch, it is possible to lock and unlock the door by carrying the Intelligent Key.

Operation Description

- When the BCM detects that each door request switch is pressed, it starts the outside key antenna and inside key antenna corresponding to the pressed door request switch and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is 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 BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM lock/unlock each door lock actuator.

Operation Condition

If the following conditions are satisfied, door lock and unlock operation is performed if the door request switch is operated.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

Each door request switch operation	Operation condition
Lock	<ul style="list-style-type: none"> All doors are closed Ignition switch is in the OFF position P position warning is not activated Intelligent Key is outside the vehicle Intelligent Key is within outside key antenna detection area
Unlock	<ul style="list-style-type: none"> All doors are closed Ignition switch is in the OFF position Intelligent Key is outside 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.

How to Change Door Lock and Unlock Function Operation Mode

Door lock and unlock function (door request switch) operation mode can be changed using CONSULT.

Refer to [DLK-75, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\) \(With Super Lock\)"](#).

ANTI-HIJACK FUNCTION

Information of super lock system with anti-hijack function.

Refer to [DLK-46, "SUPER LOCK FUNCTION : System Description"](#).

REMINDER FUNCTION (DOOR REQUEST SWITCH)

When doors are locked or unlocked by door request switch, BCM blinks hazard warning lamps as a reminder. Reminder function does not operate if ignition switch in ON position.

Door lock operation (With door request switch)	Hazard warning lamp blink
Lock	Once
Unlock (all door unlock)	Twice
Unlock (anti-hijack operation)	Twice (quick)

How to Change Reminder Function Operation Mode

With CONSULT

Reminder function operation mode can be changed using CONSULT.

Refer to [DLK-75, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\) \(With Super Lock\)"](#).

AUTO DOOR LOCK FUNCTION (DOOR REQUEST SWITCH)

After door is unlocked by door request switch operation and if 30 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.

Operating condition	<ul style="list-style-type: none"> Door switch is ON (each door is open) BCM receives door lock signal Push switch is pressed
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How to Change Auto Door Lock Function Operation Time

With CONSULT

Auto door lock function operation time can be changed using CONSULT.

Refer to [DLK-75, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\) \(With Super Lock\)"](#).

DOOR LOCK STATUS INDICATOR OPERATION

- Door lock status indicator turns indicator lamp ON or OFF and indicates door lock or unlock state.
- For door lock status indicator operation, refer to [DLK-35, "System Description"](#).

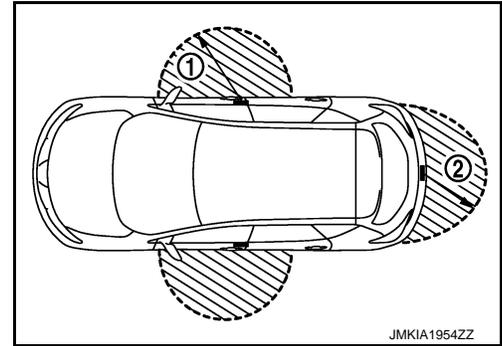
OUTSIDE KEY ANTENNA DETECTION AREA

SYSTEM (INTELLIGENT KEY SYSTEM)

[TYPE 1]

< SYSTEM DESCRIPTION >

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 outside door handle, passenger outside door handle ① and back door request switch ②. However, this operating range depends on the ambient conditions.



LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

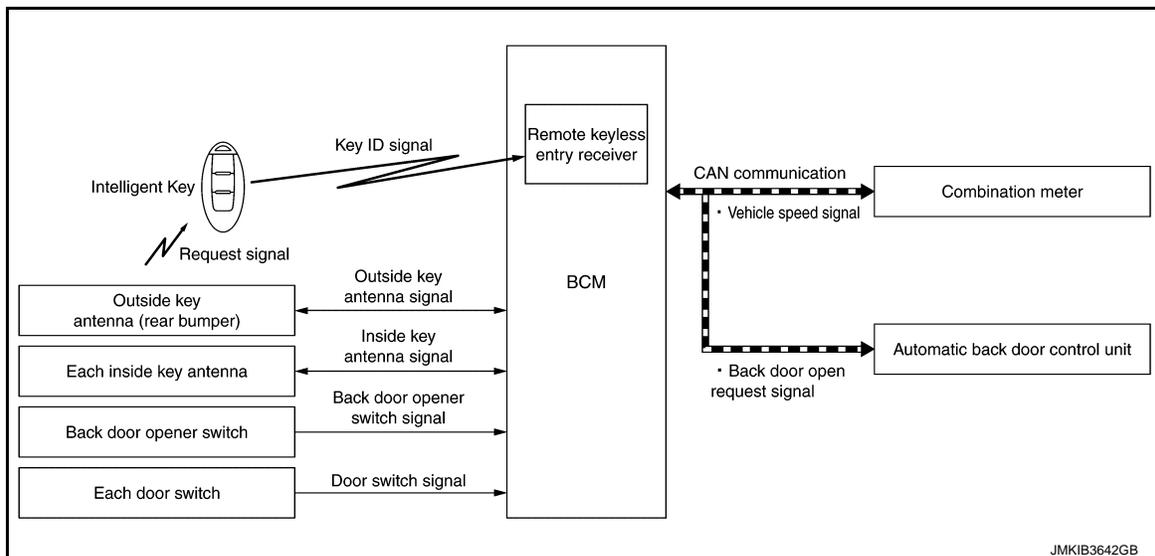
Function	Intelligent Key	Remote keyless entry receiver	Door switch	Door request switch	Door lock actuator	Inside key antenna	Outside key antenna	CAN communication system	BCM	Hazard warning lamp	Push-button ignition switch	Combination meter
Door lock and unlock function (door request switch)	×	×	×	×	×	×	×		×			
Anti-hijack function (door request switch)	×	×	×	×	×	×	×		×			
Reminder function (door request switch)								×	×	×		×
Auto door lock function (door request switch)	×		×	×	×				×		×	

BACK DOOR OPEN FUNCTION

BACK DOOR OPEN FUNCTION : System Description

INFOID:000000010708038

SYSTEM DIAGRAM



BACK DOOR OPEN FUNCTION

- When the BCM detects that back door opener switch is pressed, it activates the outside key antenna (rear bumper) and inside key antenna and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the back door.

SYSTEM (INTELLIGENT KEY SYSTEM)

[TYPE 1]

< SYSTEM DESCRIPTION >

- 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 BCM via remote keyless entry receiver.
 - BCM receives the key ID signal and compares it with the registered key ID.
 - If the verification result is OK, BCM transmits the back door open request signal to automatic back door control unit via CAN communication.
 - BCM unlocks all doors (except back door) and blinks hazard lamp 2 times as a reminder.
 - Automatic back door control unit transmits back door open request signal to back door lock assembly and back door is open.
 - When the back door is open, automatic back door system performs waiting operation for next back door close operation.
- The operation of then back door open is the same as the automatic back door system, refer to [DLK-62, "System Description"](#).

OPERATION CONDITION

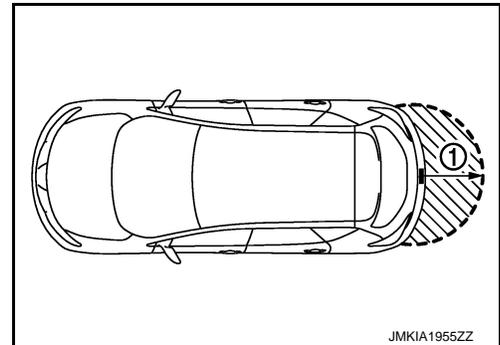
If the following conditions are satisfied, the back door can be opened.

Back door opener switch operation	Operation condition
Open	<ul style="list-style-type: none"> • All door: locked • Ignition switch: OFF • Intelligent Key is within outside key antenna (rear bumper) detection area*

*: Even with a registered Intelligent Key remaining inside the vehicle, back door can be opened 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 back door open function is in the range of approximately 80 cm (31.50 in) surrounding back door opener switch ①. However, this operating range depends on the ambient conditions.



LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Function	Intelligent Key	Remote keyless entry receiver	Back door switch	Inside key antenna	Outside key antenna (rear bumper)	CAN communication system	BCM	Automatic back door control unit	Back door opener switch
Back open function (back door opener switch)	×	×	×	×	×	×	×	×	×

SUPER LOCK FUNCTION

SYSTEM (INTELLIGENT KEY SYSTEM)

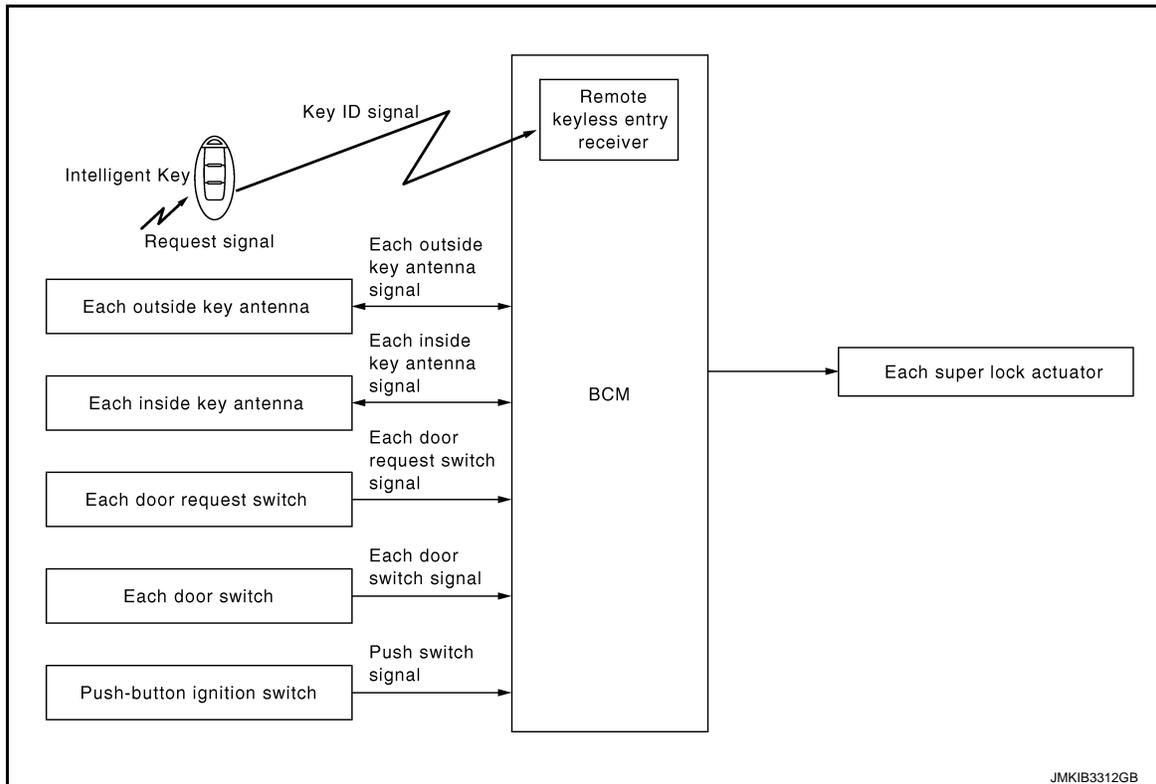
< SYSTEM DESCRIPTION >

[TYPE 1]

SUPER LOCK FUNCTION : System Description

INFOID:000000010709247

SYSTEM DIAGRAM



- Super lock provides a higher anti-theft performance than a conventional door lock function.
- BCM controls the super lock function.
- When all doors are closed super lock system can be set/release by Intelligent Key or door request switch.
- When super lock is set, inside handle of doors do not work.

SUPER LOCK SET OPERATION (LOCK OPERATION)

Super Lock Set by Intelligent Key

When Intelligent Key lock button is operated while all doors are in unlock state, super lock of all doors is set, and simultaneously, all doors are locked.

Super Lock Set by Door Request Switch

When door request switch (driver side, passenger side, or back door) is operated while all doors are in unlock state, super lock of all doors is set, and simultaneously, all doors are locked.

SUPER LOCK RELEASE OPERATION (UNLOCK OPERATION) WITH ANTI-HIJACK MODE

Super Lock Release by Intelligent Key

When Intelligent Key unlock button is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, driver door are unlocked. When Intelligent Key unlock button is operated again, all doors are unlocked.

Super Lock Release by Door Request Switch (Driver Side)

When driver side door request switch is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, driver door are unlocked. When driver side door request switch is operated again within 5 seconds of the 1st driver side door request switch operation, all doors are unlocked.

Super Lock Release by Door Request Switch (Passenger Side)

When passenger side door request switch is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, all doors are unlocked.

Super Lock Release by Door Request Switch (Back Door)

When back door request switch is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, back door are unlocked. When back door request switch is operated again within 5 seconds of the 1st back door request switch operation, all doors are unlocked.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

SUPER LOCK RELEASE OPERATION (UNLOCK OPERATION) WITHOUT ANTI-HIJACK MODE

Super Lock Release by Intelligent Key

When Intelligent Key unlock button is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, all doors are unlocked.

Super Lock Release by Door Request Switch

When door request switch (driver side, passenger side or back door) is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, all doors are unlocked.

SUPER LOCK RELEASE OPERATION (UNLOCK OPERATION) CHANGE IGNITION SWITCH

Super Lock Release by Ignition Switch is Changed from OFF to ON

When the super lock is set, release super lock when the ignition switch is changed from OFF to ON.

ANTI-HIJACK FUNCTION SETTING

☐ With CONSULT

Anti-hijack function can be set to ON/OFF using CONSULT.

Refer to [DLK-74, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\) \(With Intelligent Key System and Super Lock\)"](#).

☒ Without CONSULT

Anti-hijack function can be set to ON/OFF by user with a registered Intelligent Keyfob.

- ON/OFF can be switched when Intelligent Key lock button and unlock button are pressed simultaneously for 5 seconds or more while steering lock is locked.
- When mode is switched, hazard warning lamp blinks.

OFF → ON : 1 blink

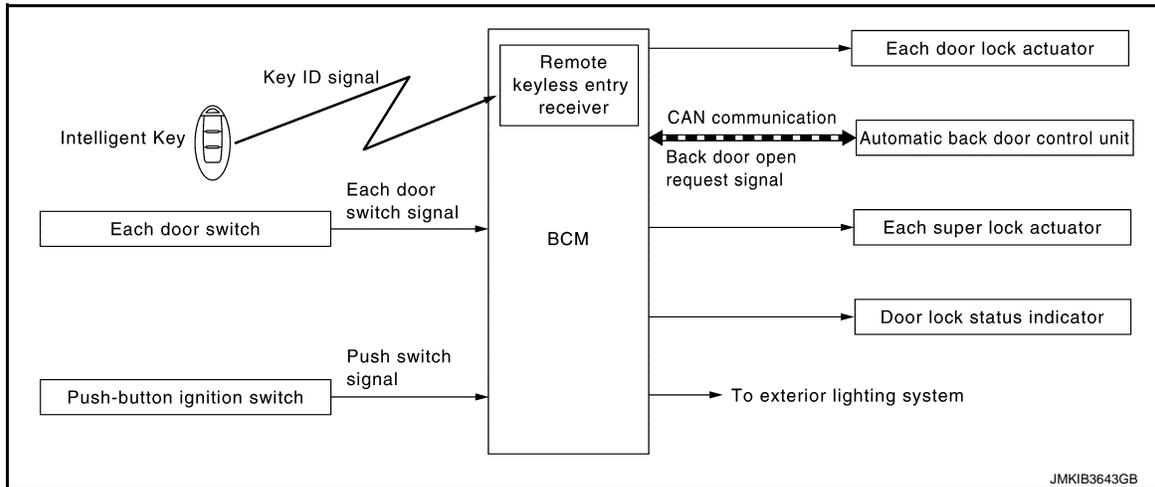
ON → OFF : 3 blinks

REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:000000010708039

SYSTEM DIAGRAM



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

Remote keyless entry function controls operation function of the following items.

- Door lock and unlock function (Intelligent Key)
- Anti-hijack function
- Reminder function (Intelligent Key)
- Auto door lock function (Intelligent Key)
- Automatic back door open/close function
- Door lock status indicator operation

DOOR LOCK AND UNLOCK FUNCTION (INTELLIGENT KEY)

SYSTEM (INTELLIGENT KEY SYSTEM)

[TYPE 1]

< SYSTEM DESCRIPTION >

Operation Description

- When door lock/unlock button of the Intelligent Key is pressed, lock signal or unlock signal is transmitted from Intelligent Key to BCM via remote keyless entry receiver.
- BCM receives the signal and compares it with the registered key ID to the vehicle.
- BCM lock/unlock each door lock actuator, when key ID matches.

Operation Condition

If the following condition is satisfied, door lock and unlock operation is performed if the Intelligent Key button is pressed.

Intelligent Key button operation	Operation condition
Lock/set	<ul style="list-style-type: none">• All doors are closed• Ignition switch: OFF position• P position warning is not activated
Unlock/release	Ignition switch: OFF position

ANTI-HIJACK FUNCTION

Information of super lock system with anti-hijack function.

Refer to [DLK-46, "SUPER LOCK FUNCTION : System Description"](#).

REMINDER FUNCTION (INTELLIGENT KEY)

Operation Description

When doors are locked or unlocked by Intelligent Key button operation, BCM blinks hazard warning lamps as a reminder.

Door lock operation (With Intelligent Key button)	Hazard warning lamp blink
Lock	Once
Unlock (all door unlock)	Twice
Unlock (anti-hijack operation)	Twice (quick)

Operation Condition

- Reminder function does not operate if ignition switch in ON position.
- When any door is open, reminder function does not operate according to door lock operation.

How to Change Reminder Function Operation Mode

With CONSULT

Reminder function operation mode can be changed using CONSULT.

Refer to [DLK-75, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\) \(With Super Lock\)"](#).

AUTO DOOR LOCK FUNCTION (INTELLIGENT KEY)

After door is unlocked by Intelligent Key button operation and if 30 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.

Operating condition	<ul style="list-style-type: none">• Door switch is ON (door is open)• BCM receives lock signal• Push switch is pressed
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How to Change Auto Door Lock Function Operation Time

Auto door lock function operation time can be changed using CONSULT.

Refer to [DLK-75, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\) \(With Super Lock\)"](#).

AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

When back door open button is pressed, back door open automatically for detailed description.

Refer to [DLK-62, "System Description"](#).

DOOR LOCK STATUS INDICATOR OPERATION

- Door lock status indicator turns indicator lamp ON or OFF and indicates door lock or unlock state.
- For door lock status indicator operation, refer to [DLK-35, "System Description"](#).

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

OPERATION AREA

To check that the Intelligent Key works normally, use within 1 m (3 ft.) range of each door, however the operable range may differ according to surroundings.

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

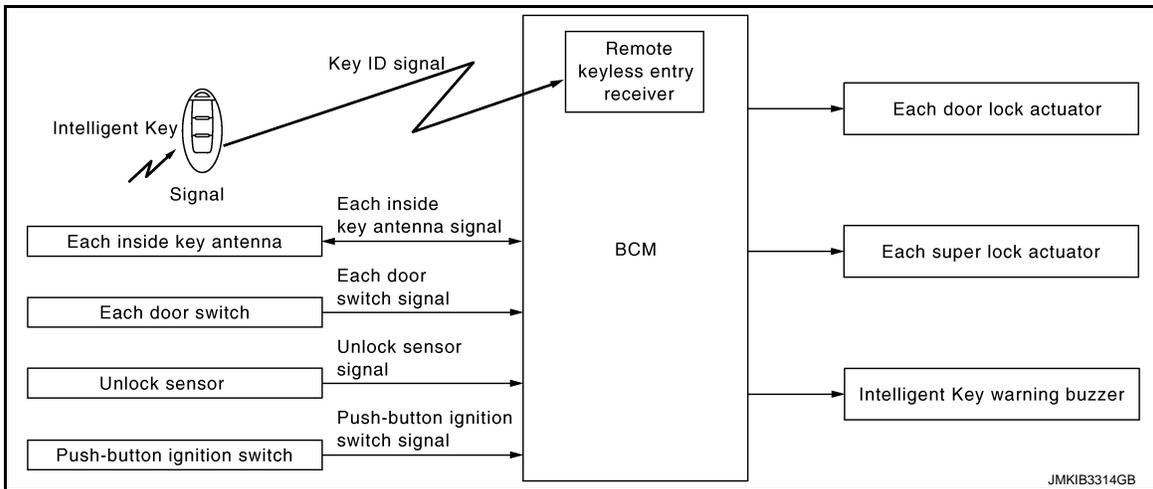
Function	Intelligent Key	Remote keyless entry receiver	Door switch	Door lock actuator	Push-button ignition switch	CAN communication system	BCM	IPDM E/R	Automatic back door control unit	Combination meter	Hazard warning lamp
Door lock and unlock function (Intelligent Key)	×	×		×		×	×				
Reminder function (Intelligent Key)	×	×	×			×	×	×		×	×
Auto door lock function (Intelligent Key)	×	×	×	×	×		×				
Automatic back door open/close function	×	×				×	×		×		

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION : System Description

INFOID:0000000010708040

SYSTEM DIAGRAM



BASIC OPERATION

Key reminder is the function that prevents the key from being left in the vehicle. Key reminder has the following 3 functions.

Key remainder function	Operation condition	Operation
Driver door opened	Right after door is locked by door lock/unlock switch or driver door lock knob operation under the following conditions <ul style="list-style-type: none"> • Ignition switch: LOCK or OFF position • Registered Intelligent Key is inside the vehicle • Driver door is opened 	All doors unlock

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

Key remainder function	Operation condition	Operation
Driver door closed*	When all doors are locked by door lock/unlock switch or driver door lock knob within 0.2 seconds after driver door is closed	All doors unlock
Door is open to closed	When all of the following conditions are satisfied <ul style="list-style-type: none"> • Locked all doors • [Any door: open] → [all doors: closed] • Registered Intelligent Key is inside the vehicle 	<ul style="list-style-type: none"> • All doors unlock • Honk Intelligent Key warning buzzer

*:If the door closing impact shocks the door lock knob, or contacts against baggage with the door lock knob might activate the door locks accidentally but unlock operation is perform in these cases.

NOTE:

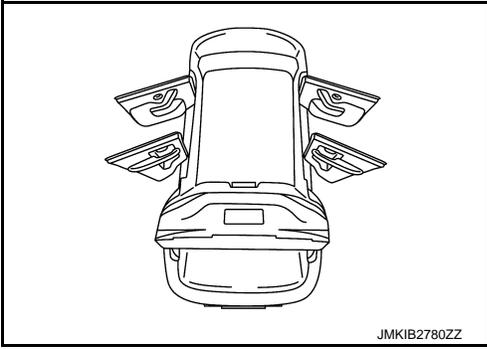
The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function does not operate when the Intelligent Key is on the instrument panel, rear parcel shelf, or in the glove box. Also, this system sometimes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

INFORMATION DISPLAY (COMBINATION METER)

INFORMATION DISPLAY (COMBINATION METER) : Door Open Warning INFOID:000000010708041

DESIGN/PURPOSE

Information display warns the driver that each door is open or is not fully closed.

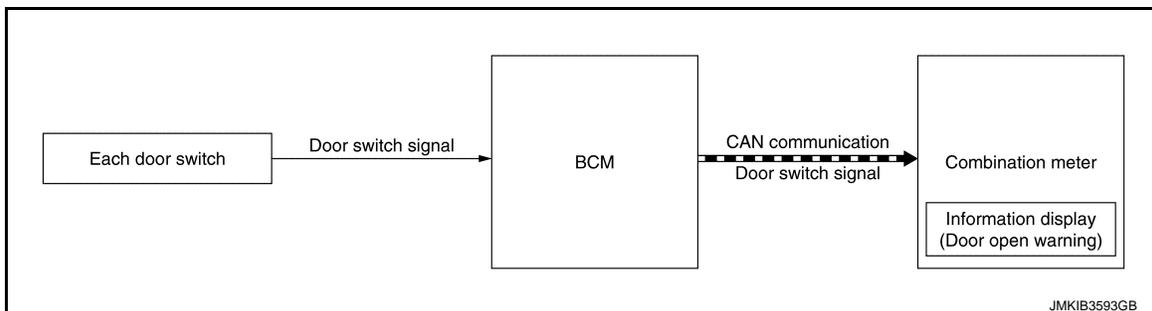
Symbol	Message
	-

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

Refer to [MWI-47. "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYSTEM DIAGRAM



SIGNAL PATH

- BCM transmits door switch signal to combination meter via CAN communication.
- When combination meter judges according to received door switch signal that a door is open or not fully closed, door open warning displays.

WARNING/INDICATOR OPERATING CONDITION

Each door switch is ON

WARNING/INDICATOR CANCEL CONDITION

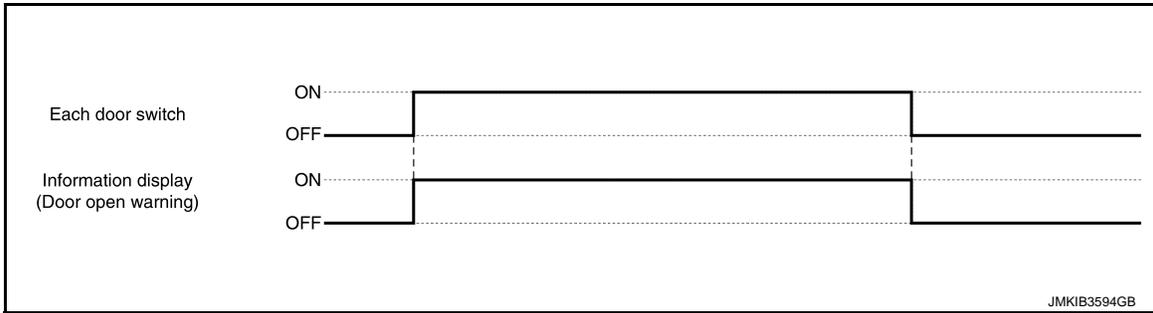
All door switches are OFF

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

TIMING CHART



INFORMATION DISPLAY (COMBINATION METER) : Engine Start Information

INFOID:000000010708042

DESIGN/PURPOSE

Information display informs the driver that the engine can be started.

	Symbol	Message
CVT models	<p>JMKIB1883ZZ</p>	-
M/T models	<p>JMKIB1884ZZ</p>	-

SYNCHRONIZATION WITH MASTER WARNING LAMP

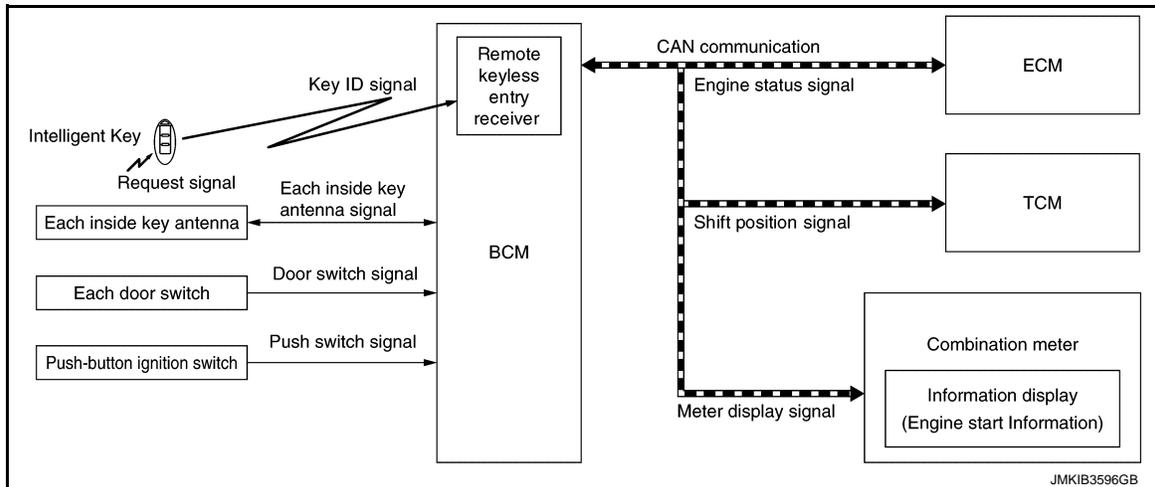
No applicable

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

SYSTEM DIAGRAM



SIGNAL PATH

- BCM receives shift position signal and engine status signal from TCM and ECM via CAN communication and checks that the engine can be started.
- When BCM detects that the engine can be started, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, engine start information displays.

WARNING/INDICATOR OPERATING CONDITION

When Ignition Switch is ON.

When all of the following conditions are satisfied.

- Ignition switch is in ON position.
- Shift position: P position
- Engine can be started.

When Ignition Switch is Other Than ON.

When all of the following conditions are satisfied.

- One condition of A
- All conditions of B

A condition	B condition
<ul style="list-style-type: none"> • Any door is open → All door is closed • Push-button ignition switch: Pressed • Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed. 	<ul style="list-style-type: none"> • Ignition switch: Other than ON position • Shift position: P position • Registered Intelligent Key is detected inside vehicle.

When Ignition Switch is Turned From ON to OFF.

When all of the following conditions are satisfied.

- Ignition switch: ON → OFF
- Shift position: P position
- Registered Intelligent Key is detected inside vehicle.

NOTE:

Engine start information turns ON for several seconds and then turns OFF, when ignition switch is turned to the ON position from the OFF position. Engine start information does not turn ON until opening and closing of driver door is detected again.

WARNING/INDICATOR CANCEL CONDITION

When Ignition Switch is ON.

When any of the following conditions are satisfied.

- Shift position: Other than P position
- Engine is started.
- Engine cannot start.

When Ignition Switch is Other than ON.

When any of the following conditions are satisfied.

SYSTEM (INTELLIGENT KEY SYSTEM)

[TYPE 1]

< SYSTEM DESCRIPTION >

- Shift position: Other than P position
- Registered Intelligent Key is not detected inside the vehicle.
- When BCM receives Intelligent Key button operation via remote keyless entry receiver.
- When BCM receives door request switch signal from door request switch.
- After 15 seconds are passed since the engine start information is displayed.

When Ignition Switch is Turned From ON to OFF.

- After several seconds are passed since the engine start information is displayed.

INFORMATION DISPLAY (COMBINATION METER) : Intelligent Key Low Battery Warning

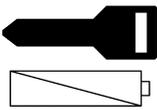
INFOID:000000010708043

DESIGN/PURPOSE

Information display warns the driver that Intelligent Key battery level is low.

NOTE:

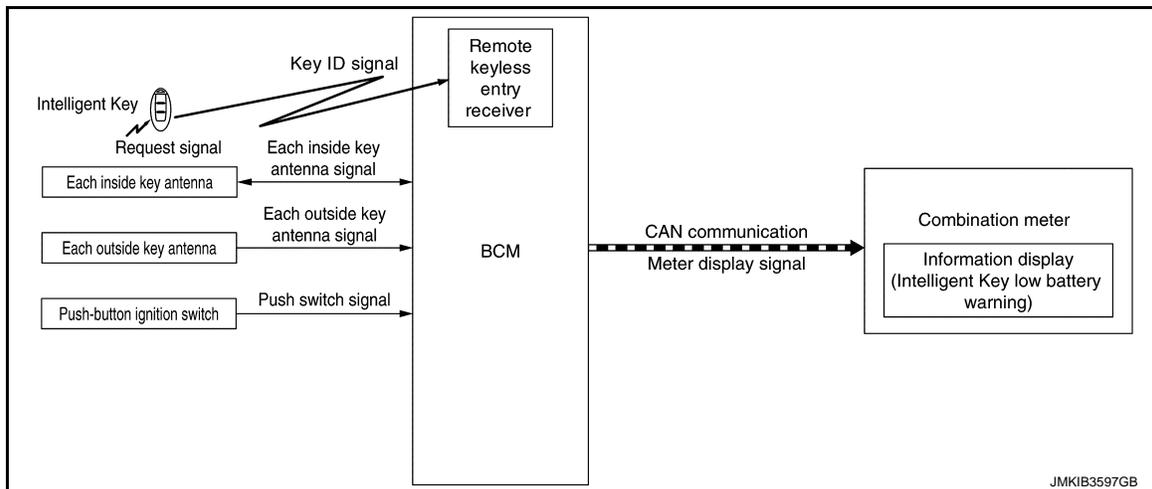
Information display does not display when Intelligent Key battery is discharged.

Symbol	Message
 <p style="text-align: right; font-size: small;">JMKIB1397ZZ</p>	Key Battery Low

SYNCHRONIZATION WITH MASTER WARNING LAMP

No applicable

SYSTEM DIAGRAM



SIGNAL PATH

- When Intelligent Key receives request signal from inside key antenna or outside key antenna, transmits key ID signal is transmitted from Intelligent Key to remote keyless entry receiver.
- BCM receives key ID signal via remote keyless entry receiver and detects that Intelligent Key battery level is low.
- When BCM detects that ignition switch is ON, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, Intelligent Key low battery warning displays.

WARNING/INDICATOR OPERATING CONDITION

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N

O

P

SYSTEM (INTELLIGENT KEY SYSTEM)

[TYPE 1]

< SYSTEM DESCRIPTION >

When all of the following conditions are satisfied.

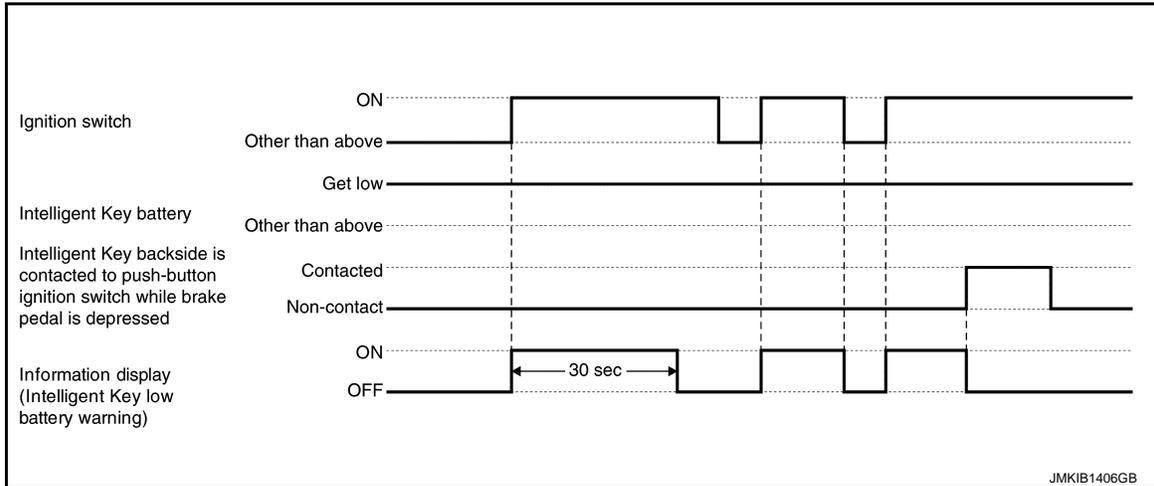
- Ignition switch is in ON position.
- Intelligent Key battery level is low.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

- After 30 seconds are passed since the Intelligent Key low battery warning is displayed
- Ignition switch is in a position other than ON.
- When Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed.

TIMING CHART



INFORMATION DISPLAY (COMBINATION METER) : Intelligent Key System Malfunction

INFOID:000000010708044

DESIGN/PURPOSE

Information display warns the driver that Intelligent Key system malfunctions or that engine cannot be started.

Symbol	Message
 <p style="text-align: right; font-size: small;">JMKIB1398ZZ</p>	<p>Key System Error See Owner's Manual</p>

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

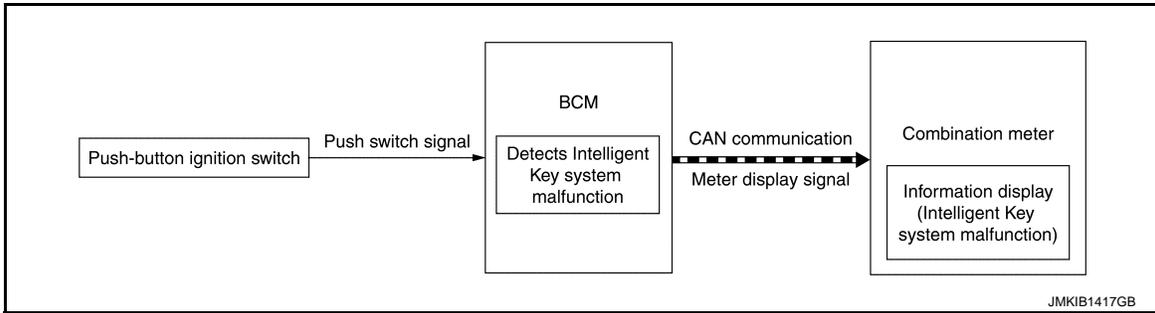
Refer to [MWI-47. "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

SYSTEM DIAGRAM



SIGNAL PATH

- When BCM detects that Intelligent Key system malfunctions or that the engine cannot be started, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, Intelligent Key system malfunction displays.

WARNING/INDICATOR OPERATING CONDITION

When any of the following conditions are satisfied.

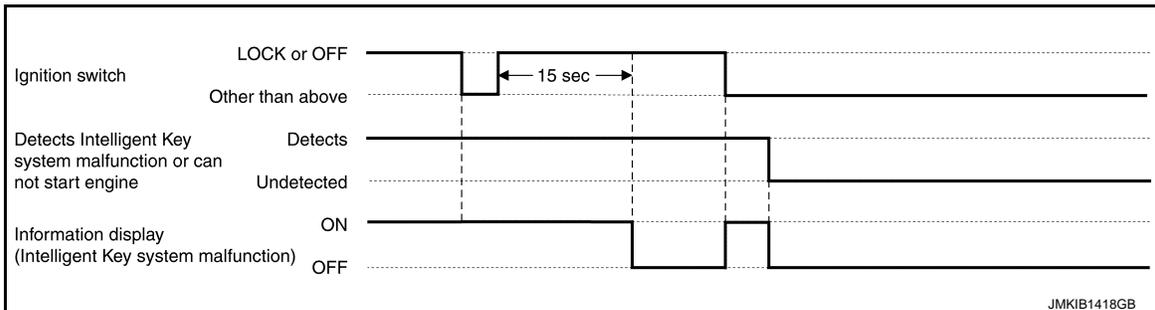
- The engine cannot be started.
- Intelligent Key system malfunction is detected.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

- Intelligent Key system malfunction or engine non-start status is resolved.
- Ignition switch is turned to LOCK or OFF, and 15 seconds are passed.

TIMING CHART



INFORMATION DISPLAY (COMBINATION METER) : Key ID Verification Information

INFOID:000000010708045

DESIGN/PURPOSE

If the system cannot detect a registered Intelligent Key inside the vehicle, it informs the driver that it is necessary for the vehicle to detect a registered Intelligent Key.

Symbol	Message
<p>JMKIB1887ZZ</p>	-

SYNCHRONIZATION WITH MASTER WARNING LAMP

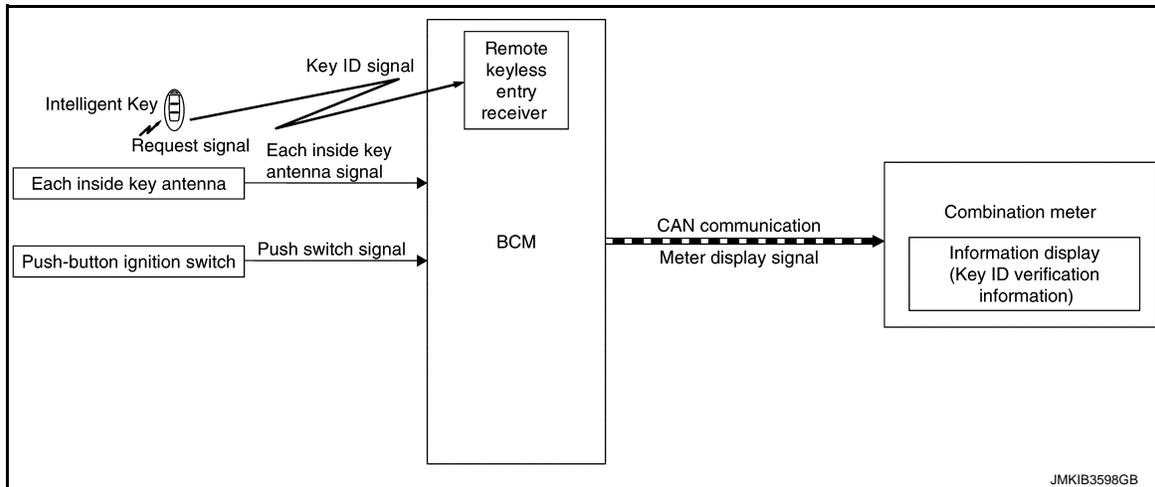
No applicable

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

SYSTEM DIAGRAM



SIGNAL PATH

- BCM activates inside key antenna and checks that Intelligent Key is in vehicle, when push-button ignition switch operation is performed while ignition switch position is LOCK.
- When BCM does not detect a registered Intelligent Key in vehicle, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, key ID warning displays.
- After 5 seconds are passed since the key ID warning is displayed, key ID verification information displays.

WARNING/INDICATOR OPERATING CONDITION

When all of the following conditions are satisfied.

- Ignition switch: LOCK position
- Push-button ignition switch operation is performed.
- Registered Intelligent Key is not detected inside the vehicle.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

- After 25 seconds are passed since the key ID verification information is displayed.
- When all door is locked with Intelligent Key or door request switch
- Lock the doors after all doors are closed
- When Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed.

INFORMATION DISPLAY (COMBINATION METER) : Key ID Warning

INFOID:000000010708046

DESIGN/PURPOSE

Information display warns the driver that Intelligent Key is not detected in vehicle.

Symbol	Message
 <p style="text-align: right; font-size: x-small;">JMKIB1398ZZ</p>	Key ID Incorrect

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

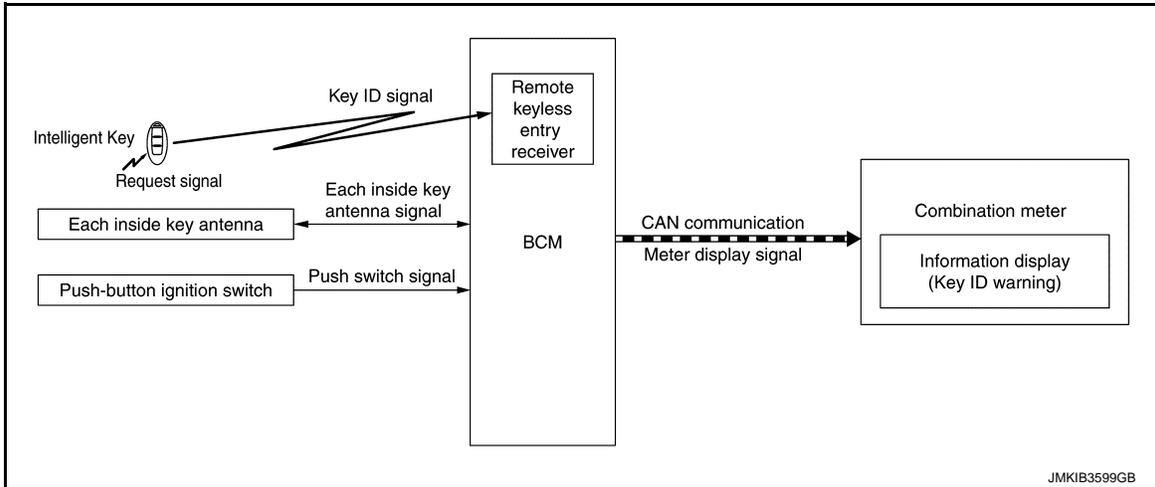
Refer to [MWI-47, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

SYSTEM DIAGRAM



SIGNAL PATH

- BCM activates inside key antenna and checks that Intelligent Key is in vehicle, when push-button ignition switch operation is performed while ignition switch position is LOCK.
- When BCM does not detect a registered Intelligent Key in vehicle, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, key ID warning displays.

WARNING/INDICATOR OPERATING CONDITION

When all of the following conditions are satisfied.

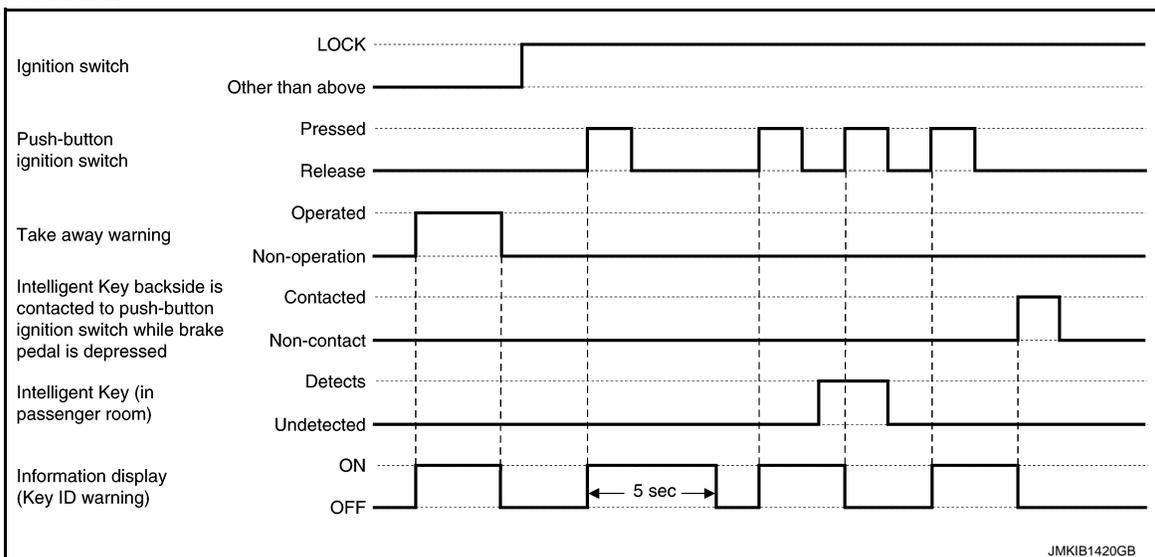
- Ignition switch is in LOCK position
- Push-button ignition switch operation is performed.
- A registered Intelligent Key is not detected inside the vehicle.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

- 5 seconds are passed since operation start.
- A registered Intelligent Key is detected in passenger room when push-button ignition switch is operated.
- Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed (when Intelligent Key battery is discharged).

TIMING CHART



INFORMATION DISPLAY (COMBINATION METER) : P Position Warning (Information Display)

INFOID:000000010708047

DESIGN/PURPOSE

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

Information display warns the driver of egression from the vehicle while shift is other than P position.

Symbol	Message
 <p style="text-align: right; font-size: small;">JMKIB1400ZZ</p>	<p>Shift to Park</p>

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

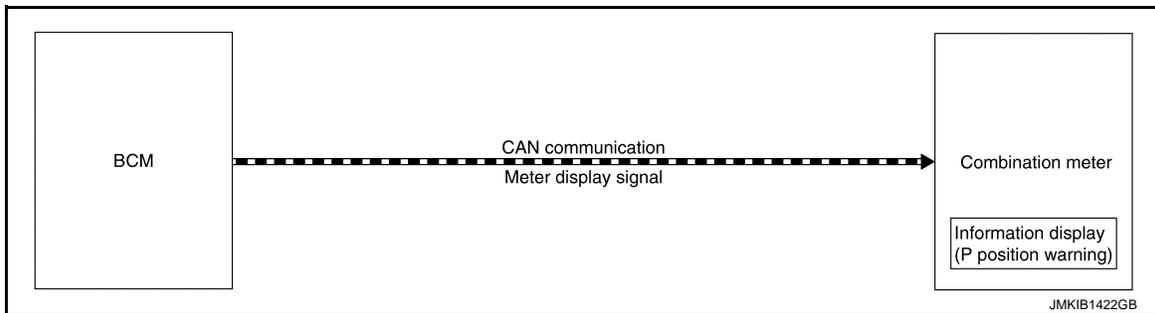
Refer to [MWI-47. "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYNCHRONIZATION WITH WARNING CHIME

Synchronization is applied. [P position warning (buzzer)]

Refer to [WCS-15. "WARNING CHIME : P Position Warning \(Buzzer\)"](#).

SYSTEM DIAGRAM



SIGNAL PATH

- BCM transmits meter display signal to combination meter via CAN communication, when P position warning (buzzer) is operated.
- When combination meter receives meter display signal, P position warning displays.

WARNING/INDICATOR OPERATING CONDITION

P position warning (buzzer) is operated.

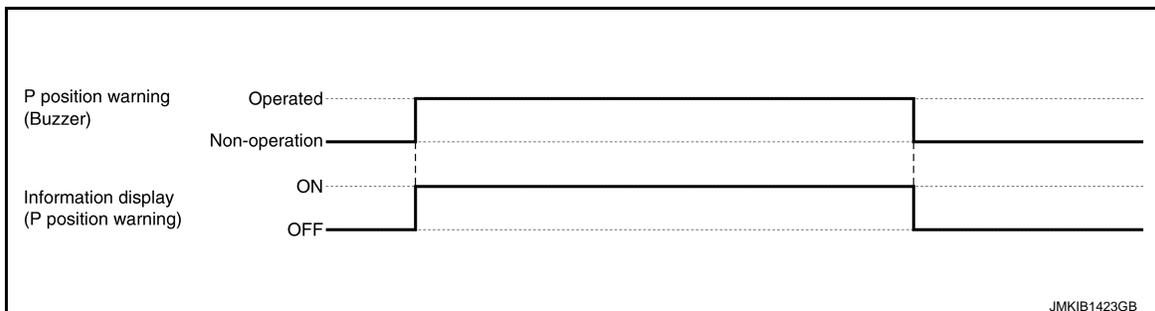
Refer to [WCS-15. "WARNING CHIME : P Position Warning \(Buzzer\)"](#).

WARNING/INDICATOR CANCEL CONDITION

P position warning (buzzer) is canceled.

Refer to [WCS-15. "WARNING CHIME : P Position Warning \(Buzzer\)"](#).

TIMING CHART



SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

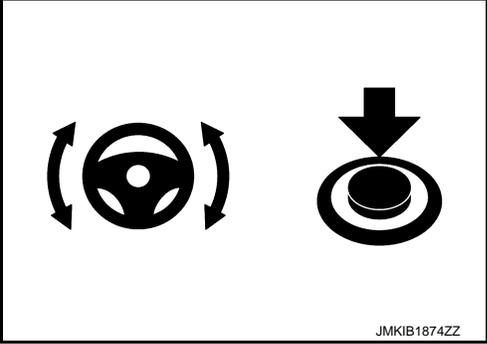
[TYPE 1]

INFORMATION DISPLAY (COMBINATION METER) : Steering Lock Information

INFOID:000000010708048

DESIGN/PURPOSE

When unlocking steering the lock, the system informs the driver that it cannot be unlocked unless the steering wheel is turned.

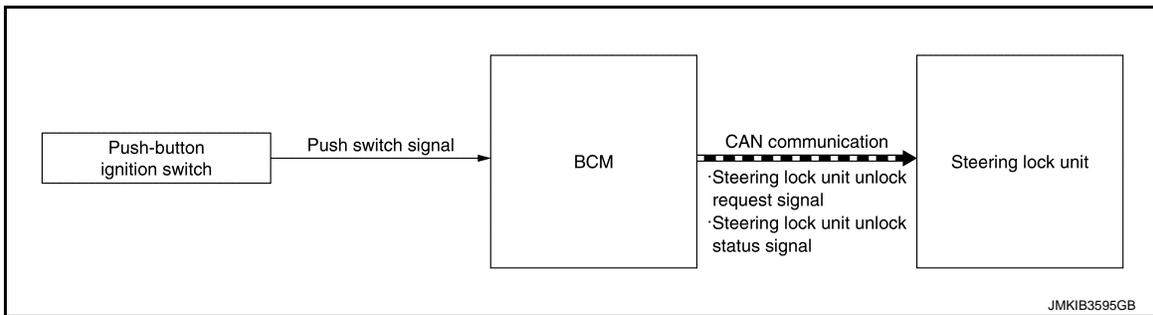
Symbol	Message
	-

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

Refer to [MWI-47, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYSTEM DIAGRAM



SIGNAL PATH

- BCM transmits the steering lock unit unlock request signal to the steering lock unit, and simultaneously the steering lock unit checks that the steering lock can be unlocked.
- If the LOCK status of the steering lock unit is detected by the steering lock unit even after BCM is transmitted to the steering unlock request signal, the meter display signal is sent to the combination meter via CAN communication.
- When combination meter receives meter display signal, steering lock information displays.

WARNING/INDICATOR OPERATING CONDITION

When the steering lock cannot be unlocked.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

- When the steering lock is unlocked. (Press the push-button ignition switch while turning the steering wheel to the left and right gently.)
- After 15 seconds are passed since the steering lock information is displayed.

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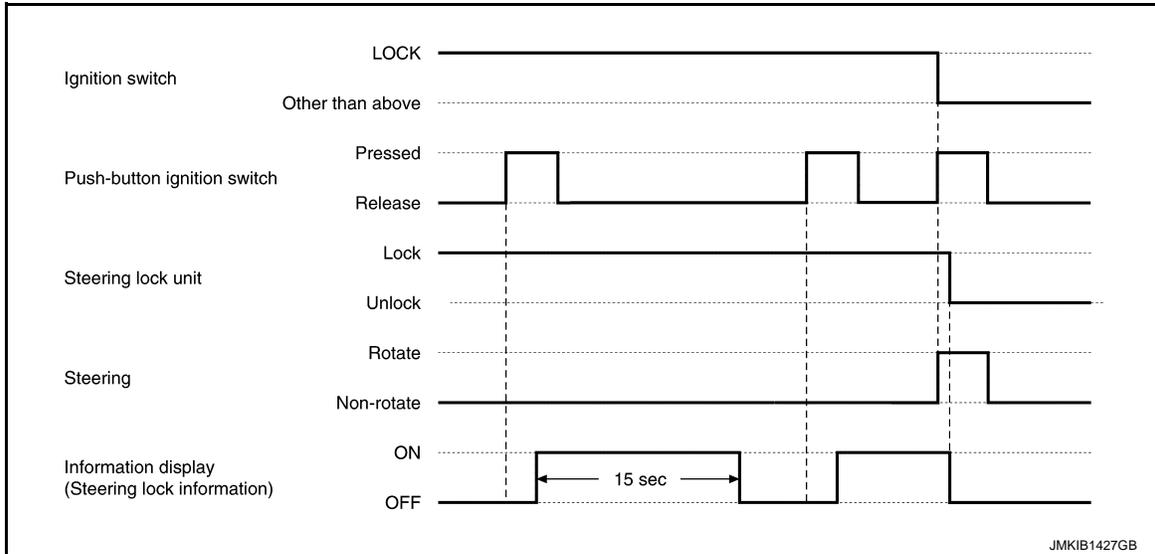
DLK

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

TIMING CHART



INFORMATION DISPLAY (COMBINATION METER) : Take Away Warning (Information Display)

INFOID:000000010708049

DESIGN/PURPOSE

Information display warns the driver that Intelligent Key is not detected in vehicle.

Symbol	Message
 <p>JMKIB1398ZZ</p>	No Key Detected

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

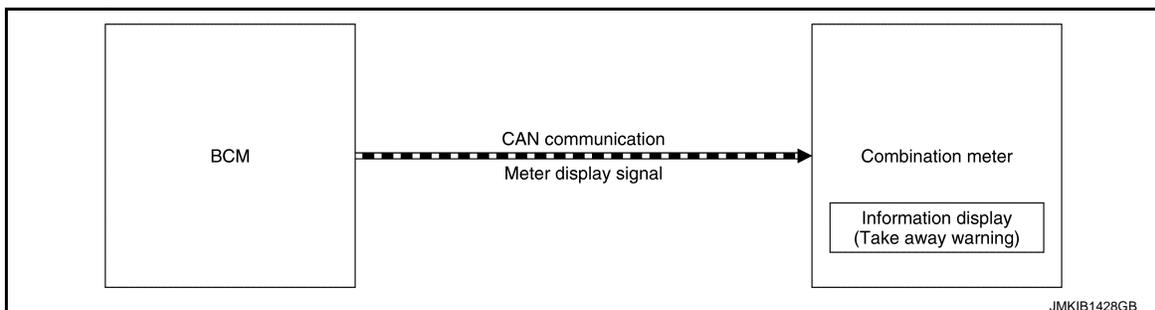
Refer to [MWI-47, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYNCHRONIZATION WITH WARNING CHIME

Take away warning

Refer to [WCS-20, "WARNING CHIME : Take Away Warning \(Buzzer\)"](#).

SYSTEM DIAGRAM



SIGNAL PATH

SYSTEM (INTELLIGENT KEY SYSTEM)

[TYPE 1]

< SYSTEM DESCRIPTION >

- BCM transmits meter display signal to combination meter via CAN communication, when take away warning (buzzer) is operated.
- When combination meter receives meter display signal, take away warning displays.

WARNING/INDICATOR OPERATING CONDITION

Take away warning (buzzer) operates.

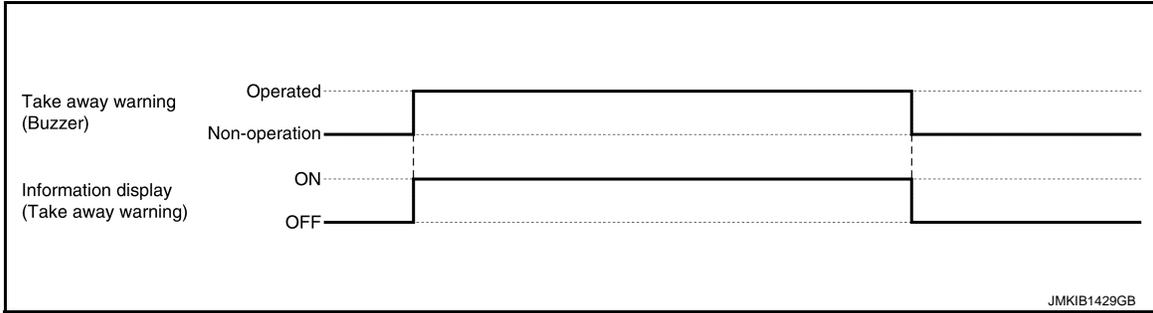
Refer to [WCS-20, "WARNING CHIME : Take Away Warning \(Buzzer\)"](#).

WARNING/INDICATOR CANCEL CONDITION

Take away warning (buzzer) is canceled.

Refer to [WCS-20, "WARNING CHIME : Take Away Warning \(Buzzer\)"](#)

TIMING CHART



WARNING/INDICATOR/CHIME LIST

WARNING/INDICATOR/CHIME LIST : Warning Lamp/Indicator (Information Display)

INFOID:000000010708050

Item	Reference
Door open warning	Refer to DLK-50, "INFORMATION DISPLAY (COMBINATION METER) : Door Open Warning"
Engine start information	Refer to DLK-51, "INFORMATION DISPLAY (COMBINATION METER) : Engine Start Information"
Intelligent Key low battery warning	Refer to DLK-53, "INFORMATION DISPLAY (COMBINATION METER) : Intelligent Key Low Battery Warning"
Intelligent Key system malfunction	Refer to DLK-54, "INFORMATION DISPLAY (COMBINATION METER) : Intelligent Key System Malfunction"
Key ID verification information	Refer to DLK-55, "INFORMATION DISPLAY (COMBINATION METER) : Key ID Verification Information"
Key ID warning	Refer to DLK-56, "INFORMATION DISPLAY (COMBINATION METER) : Key ID Warning"
P position warning	Refer to DLK-57, "INFORMATION DISPLAY (COMBINATION METER) : P Position Warning (Information Display)"
Steering lock information	Refer to DLK-57, "INFORMATION DISPLAY (COMBINATION METER) : P Position Warning (Information Display)"
Take away warning	Refer to DLK-60, "INFORMATION DISPLAY (COMBINATION METER) : Take Away Warning (Information Display)"

WARNING/INDICATOR/CHIME LIST : Warning Chime

INFOID:000000010708051

Item	Reference
Door lock operation warning	Refer to WCS-10, "WARNING CHIME : Door Lock Operation Warning" .
OFF position warning	Refer to WCS-13, "WARNING CHIME : OFF Position Warning" .
P position warning (buzzer)	Refer to WCS-15, "WARNING CHIME : P Position Warning (Buzzer)" .
Take away warning (buzzer)	Refer to WCS-20, "WARNING CHIME : Take Away Warning (Buzzer)" .

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

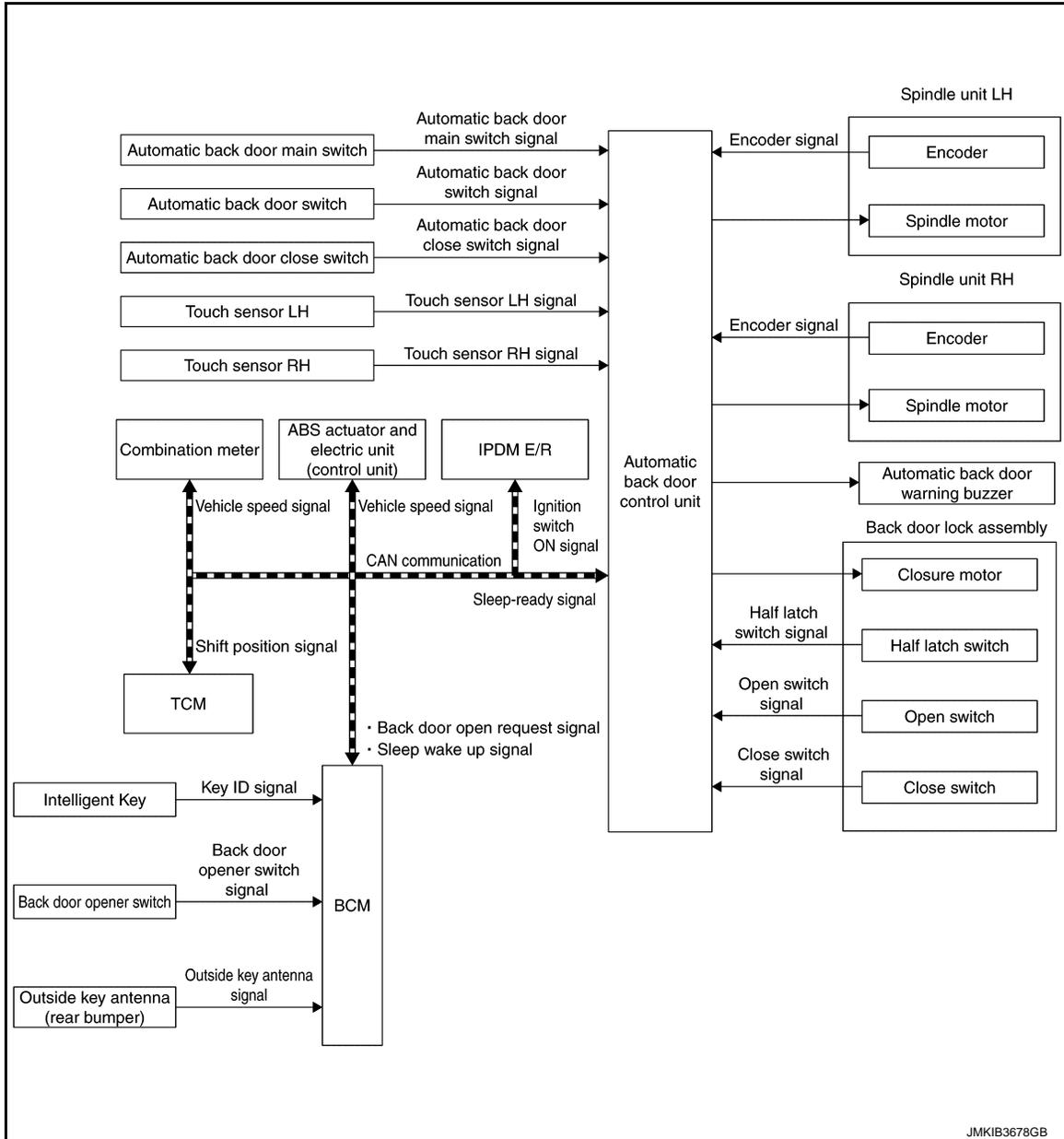
[TYPE 1]

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

System Description

INFOID:000000010708054

SYSTEM DIAGRAM



The automatic back door system performs the auto open/close operation of the back door by operating the automatic back door switch, the automatic back door close switch, the back door opener switch, and Intelligent Key.

Automatic back door system controls operation function of the following items.

- Automatic open/close temporary stop function
- Back door open position setting function
- Automatic back door open/close function
- Warning function
- Back door auto closure function
- Anti-pinch function

AUTOMATIC OPEN/CLOSE TEMPORARY STOP FUNCTION

Automatic open/close temporary stop function temporarily stops the open/close operation by operating back door opener switch during auto open/close operation or by turning automatic back door main switch OFF.

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

Back Door Opener Switch Operation

- Automatic open/close operation stops when back door opener switch is operated during auto open/close operation. A
- Back door performs auto open operation in an open direction when back door opener switch is operated again during automatic open/close temporary stop function operation. B
- Back door performs auto close operation in a close direction when automatic back door close switch is operated during automatic open/close temporary stop function operation.

Automatic Back Door Main Switch Operation

- While automatic back door main switch is ON, automatic open/close operation stops when automatic back door main switch is turned OFF during automatic open/close operation. C
- While automatic back door main switch is OFF, automatic open/close operation stops when automatic back door main switch is turned ON then turned OFF during automatic open/close operation. D
- Back door performs automatic open operation in an open direction when back door opener switch is operated again during auto open/close temporary stop function operation.
- Back door performs automatic close operation in a close direction when automatic back door close switch is operated during automatic open/close temporary stop function operation. E

BACK DOOR OPEN POSITION SETTING FUNCTION

Back door fully open position setting function is a function that enables users to set the full opening stop position of automatic open operation when back door may contact an obstacle if fully opened by the automatic open operation.

CAUTION:

- It is not possible to set the position farther than the initial setting fully open position in the open direction. F
- If a vehicle is parked on a steep slope after setting the fully open position of back door to half open or less, the door may open to near the half open position instead of stopping at the set position. G
- When more than one user uses the vehicle, the back door fully open position setting function may be changed. Be careful when operating automatic open operation for the first time. H

Setting Procedure

By performing the following operations, stop position of the back door open position setting function can be set. I

1. Set the shift position to P range. J
2. Fully close the back door.
3. After turning OFF the automatic back door main switch, release the latch by back door opener switch operation. DLK
4. Manually move the back door to the desired stop position.
5. While maintaining the back door position, press and hold the automatic back door close switch for 3 seconds or more. When the setting is successfully completed, automatic back door buzzer sounds (pattern D). L

Reset Procedure

By performing the following operation, the setting of the back door fully open position setting function can be canceled. M

1. Set the shift position to P range. N
2. Open the back door to the fully open position.
3. Manually move the back door to the upper limit position in the opening direction. O
4. Press and hold the automatic back door close switch for 3 seconds or more. When the setting is successfully completed, automatic back door buzzer sounds (pattern D). P

AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

- In the case of the back door fully closed, operate the automatic back door switch, Intelligent Key or back door opener switch with the back door unlock. The back door closure motor releases the latch, then the spindle motor opens the back door to the fully open position. The closure motor reverses to the neutral position simultaneously.
- In the case of the back door fully open, operate the automatic back door switch, Intelligent Key or automatic back door close switch. The spindle motor closes the back door to the half-latch position, then the back door closure motor to the full latch position. Then, the closure motor reverses to the neutral position.

Operation Condition

When all of the following conditions are satisfied.

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

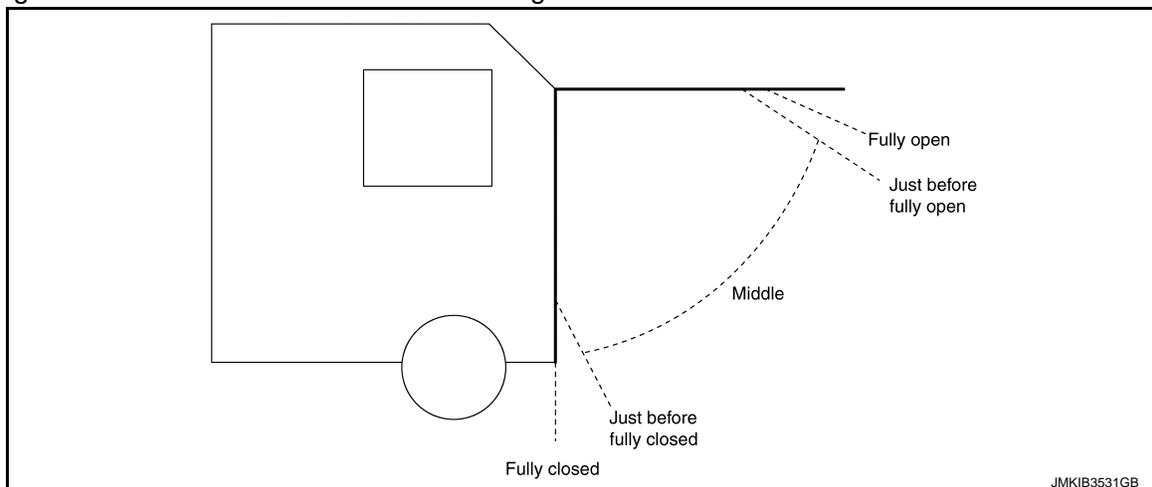
[TYPE 1]

< SYSTEM DESCRIPTION >

- Shift position: P position (CVT models)
- Parking brake: ON (M/T models)
- Vehicle speed: 0 km/h
- Power supply (automatic power back door control unit): Approx. 11 V or more

Automatic Open/close Operation When Each Switch is Operated

The automatic open/close operation when each switch is operated differs according to the stop position or operating status of back door. Refer to the following.



Automatic back door switch

Condition				Back door operation
Back door position	Automatic back door main switch	Back door condition	Automatic back door switch	
Full open	ON	Stop	Long press (1 sec)	Perform the auto close function
Fully open to just before fully open	ON	Stop	Long press (1 sec)	Perform the auto close function
	–	Auto open function operating	Press	Perform the auto close function (reverse operation)
	–	Auto close function operating	Press	Operation is continued
Middle	–	Stop	Press	Non-operation (manual movement only)
	–	Auto open function operating	Press	Perform the auto close function (reverse operation)
	–	Auto close function operating	Press	Perform the auto open function (reverse operation)
Just before fully closed to fully closed	–	Stop	Press	Non-operation (manual movement only)
	–	Auto open function operating	Press	Operation is continued
	–	Auto close function operating	Press	Perform the auto open function (reverse operation)
Full closed	ON	Stop	Long press (1 sec)	Perform the auto open function

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

Intelligent Key

Back door position	Condition				Back door operation
	Ignition switch	Automatic back door main switch	Back door condition	Intelligent Key	
Full open	OFF	–	Stop	Long press (1 sec)	Perform the auto close function
Fully open to just before fully open	OFF	–	Stop	Long press (1 sec)	Perform the auto close function
	OFF	–	Auto open function operating	Long press (1 sec)	Perform the auto close function (reverse operation)
	OFF	–	Auto close function operating	Long press (1 sec)	Operation is continued
Middle	OFF	–	Stop	Long press (1 sec)	Non-operation (manual movement only)
	OFF	–	Auto open function operating	Long press (1 sec)	Perform the auto close function (reverse operation)
	OFF	–	Auto close function operating	Long press (1 sec)	Perform the auto open function (reverse operation)
Just before fully closed to fully closed	OFF	–	Stop	Long press (1 sec)	Non-operation (manual movement only)
	OFF	–	Auto open function operating	Long press (1 sec)	Operation is continued
	OFF	–	Auto close function operating	Long press (1 sec)	Perform the auto open function (reverse operation)
Full closed	OFF	–	Stop	Long press (1 sec)	Perform the auto open function

Automatic back door close switch

Back door position	Condition			Back door operation
	Automatic back door main switch	Back door condition	Automatic back door close switch	
Full open	ON	Stop	Press	Perform the auto close function
Fully open to just before fully open	ON	Stop	Press	Perform the auto close function
	–	Auto open function operating	Press	Perform the auto close function (reverse operation)
	–	Auto close function operating	Press	Operation is continued
Middle	ON	Stop	Press	Perform the auto close function
	–	Auto open function operating	Press	Perform the auto close function (reverse operation)
	–	Auto close function operating	Press	Perform the auto open function (reverse operation)

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SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

Condition				Back door operation
Back door position	Automatic back door main switch	Back door condition	Automatic back door close switch	
Just before fully closed to fully closed	–	Stop	Press	Non-operation (manual movement only)
	–	Auto open function operating	Press	Operation is continued
	–	Auto close function operating	Press	Perform the auto open function (reverse operation)

Back door opener switch

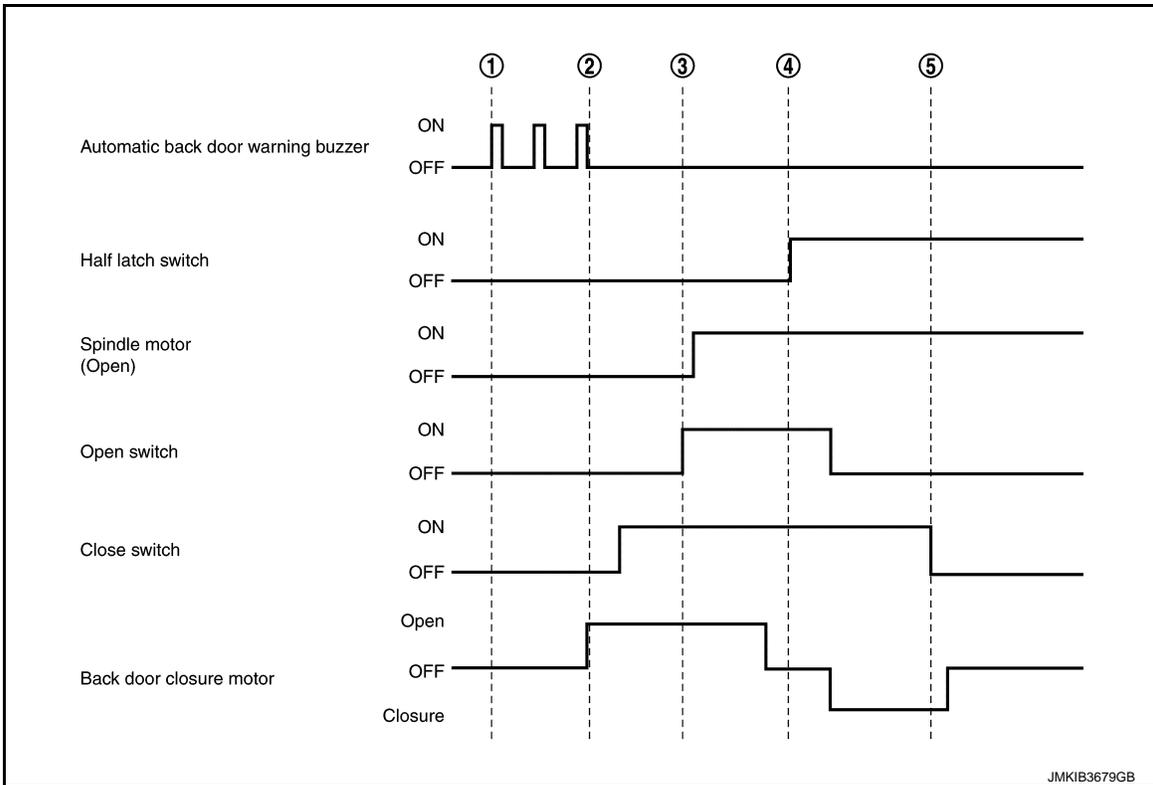
Condition				Back door operation
Back door position	Automatic back door main switch	Back door condition	Back door opener switch	
Full open	–	Stop	Press	Non-operation
Fully open to just before fully open	–	Stop	Press	Non-operation
	–	Auto open function operating	Press	Operation stop (automatic open/close temporary stop function)
	–	Auto close function operating	Press	Operation stop (automatic open/close temporary stop function)
Middle	ON	Stop	Press	Perform the auto open function
	–	Auto open function operating	Press	Operation stop (automatic open/close temporary stop function)
	–	Auto close function operating	Press	Operation stop (automatic open/close temporary stop function)
Just before fully closed to fully closed	ON	Stop	Press	Perform the auto open function
	–	Auto open function operating	Press	Operation stop (automatic open/close temporary stop function)
	–	Auto close function operating	Press	Operation stop (automatic open/close temporary stop function)
Full closed	ON	Stop	Press	Perform the auto open function
	OFF	Stop	Press	Back door open

Timing Chart (Full Closed to Fully Open Operation)

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

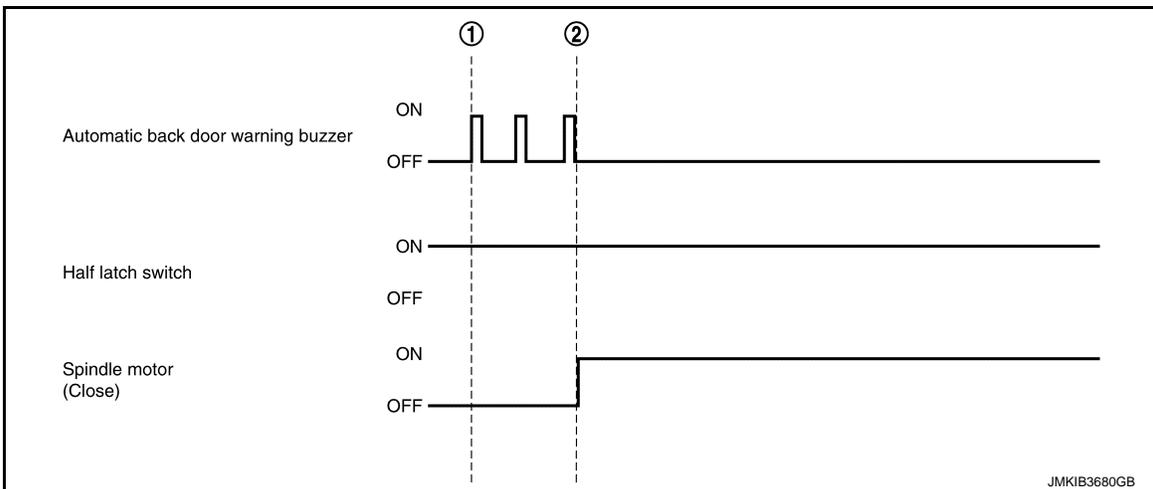
< SYSTEM DESCRIPTION >

[TYPE 1]



Timing	Operation
①	Buzzer operate after operation permission conditions are satisfied.
②	After buzzer operation (A pattern) ends, back door closure motor starts the open operation.
③	Open SW turns ON, and back door latch release operation completes.
④	Half latch SW turns ON, and then back door closure motor performs reverse operation and returns to the neutral position.
⑤	When close SW turns OFF, back door closure motor reverse operation stops, and then completes returning to the neutral position.

Timing Chart (Fully Open to Fully Closed Operation)



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SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

Timing	Operation
①	Buzzer operate after operation permission conditions are satisfied.
②	After buzzer operation (A pattern) ends, spindle motor starts the close operation.

CONTROL IF NOT WITHIN THE OPERATION CONDITIONS DURING THE OPERATION

If the back door is not within the operation conditions during the operation, the automatic back door control unit performs the control as follows.

Item (Condition)	Back door operation status	
Automatic back door main switch: ON→OFF	Operation stops	
Operation condition release during the operation start announcement	Automatic back door function is not operating	
CVT models: Shift position: P position→other than P position	Operation continues (once back door fully closed state is detected, automatic operation does not become available again until the shift position is shifted to P range)	
M/T models: Parking brake: ON→OFF	Operation continues (once back door fully closed state is detected, automatic operation does not become available again until the parking brake is set to ON)	
Vehicle speed (0 km/h → More than 1 km/h)	Auto open function operating	Operation stop [Back door fully closed or buzzer sounds until the vehicle stops (pattern C)]
	Auto close function operating	The operation is continued [buzzer sounds (pattern C) until back door fully closed]
Operation time (More than approx. 180 sec.)	Operation stops	
Malfunction detected (Power supply circuit, half latch switch, and back door condition)	Operation stops	
Touch sensor circuit (Normal → Open)	Open operation	Operation continues (operation stops when pinching is detected afterwards.)
	Close operation	Operation stops
	Closure (close) operation	Closure closing operation, or warning buzzer operates (B pattern)
	Closure [open (return the latch to the neutral position)]	Operation continues

WARNING FUNCTION

The warning function is as follows and gives the user warning information using automatic back door warning buzzer.

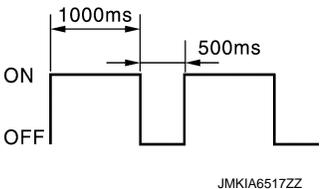
Automatic back door warning buzzer

Pattern	Description	Time
	<ul style="list-style-type: none"> • Operation start announcement • Anti-pinch operation start announcement 	0.75 sec
B Pi---	During the closure operation, when touch sensor detects any trapped foreign material, the back door stops halfway	2.0 sec

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

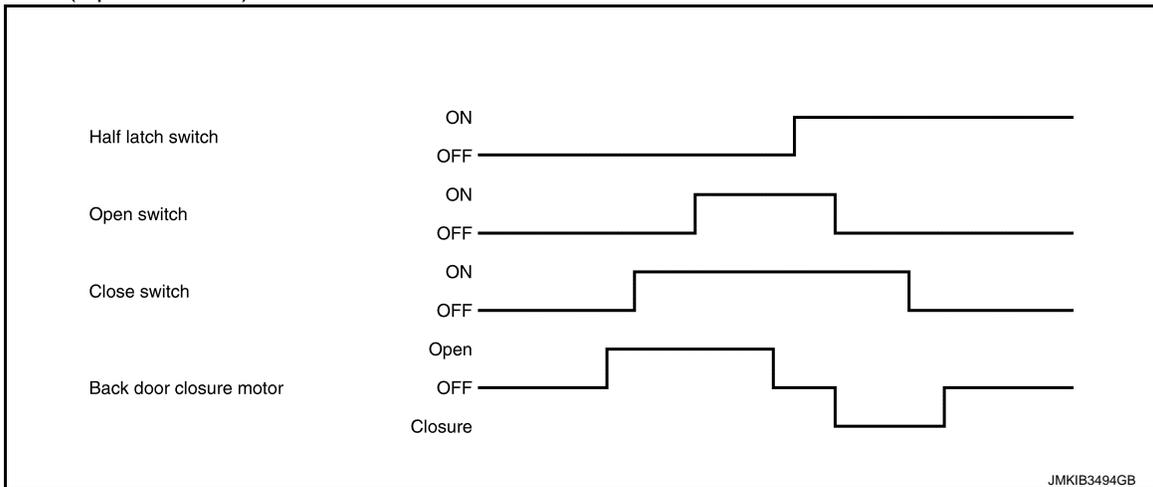
Pattern	Description	Time
C Pi-----●●●●●●	The conditions are not satisfied in the fully open position or during the operation, and then the operation continues	Back door fully closed or vehicle is stopped
D 	<ul style="list-style-type: none"> • Calibration of automatic back door position information is complete • Back door open position setting procedure is complete 	2.5 sec

BACK DOOR AUTO CLOSURE FUNCTION

Open Function

When back door opener switch is pressed and automatic back door main switch in the OFF position, BCM transmits the back door open request signal to automatic back door control unit via CAN communication, and automatic back door control unit opens back door lock assembly.

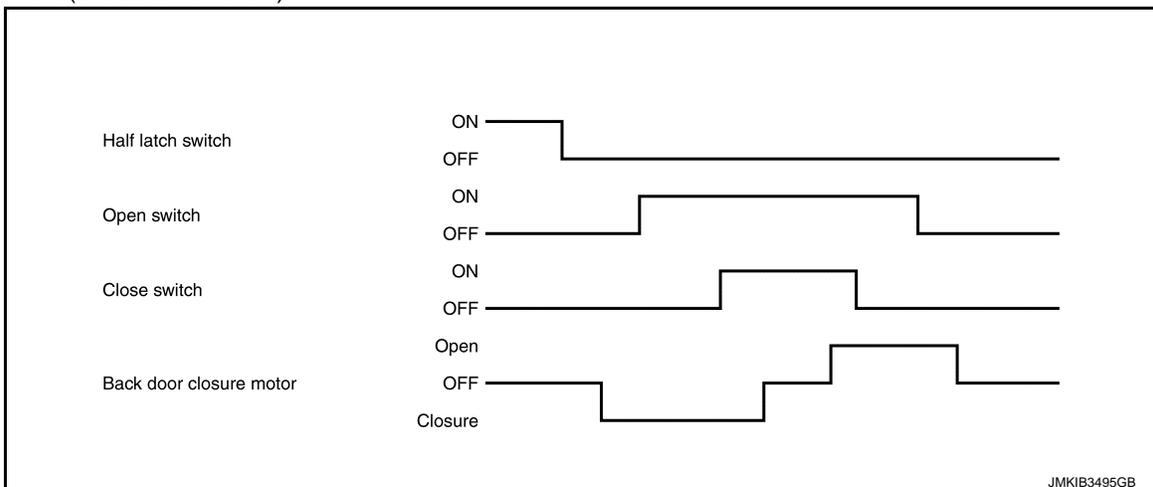
Timing Chart (Open function)



Closure Function

When the back door is closed to the half-latch position, the motor drives to rotate the latch lever and pulls it in from half latched to fully latched and automatically closes the door. Then, the closure motor reverses to the neutral position.

Timing Chart (Closure Function)



ANTI-PINCH FUNCTION

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SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]

During auto open operation, if an object is detected by encoder pulse in the door's path, a warning chime sounds and the back door operates in the reverse direction to prevent pinching.
 During auto close operation, if an object is detected by the touch sensors and encoder pulse in the door's path, a warning chime sounds and the back door operates in the open direction until it is fully open.

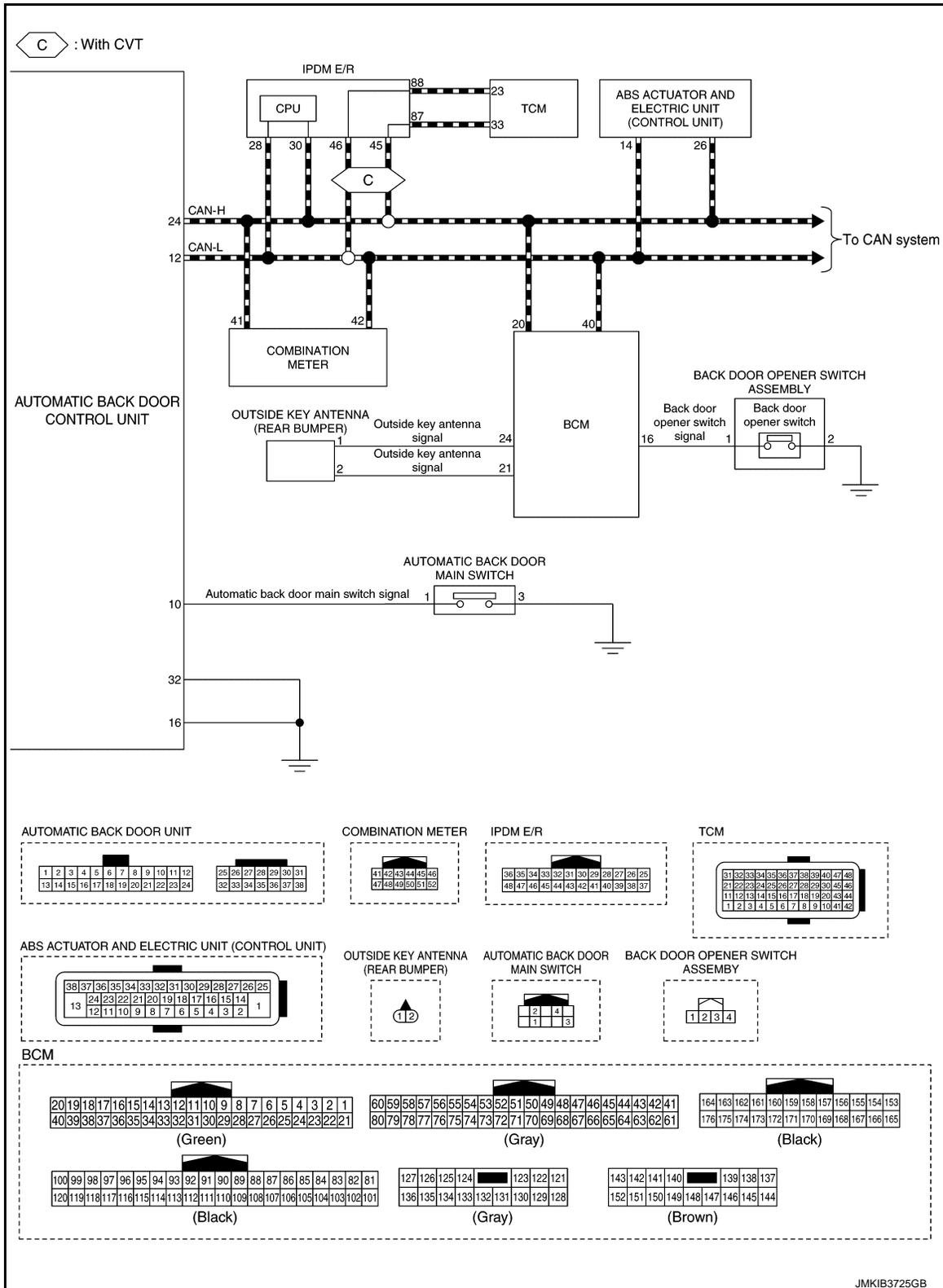
Operation Condition

Detection method		Encoder pulse	Touch sensor
Applicable operation		Open/close operation	Close operation
Operation when any trapped foreign material is detected	Stop the vehicle	Buzzer sounds (pattern A) and reverse operation	<ul style="list-style-type: none"> Buzzer sounds (pattern A) and the back door stops in the fully-open position after reverse operation During closure (close) operation (at main switch OFF): Closure [open (neutral position return)] operation
	Running the vehicle	No reverse operation (buzzer sounds, pattern C)	<ul style="list-style-type: none"> The back door reverses a certain amount, and then it reverses automatically to perform the auto close operation During closure (close) operation (at main switch ON): Closure (open) operation
Non-reverse area		<ul style="list-style-type: none"> Just after starting the motor operation Full range of closure operation Driving 	<ul style="list-style-type: none"> Back door open operation Closure [open (return the latch to the neutral position)]
Switch operation during reverse operation		Receive	
Number of allowable reverse operations		Perform the automatic open/close temporary stop function after 2 reverse operations regardless of the operation direction	

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 1]



DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 1]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010869004

APPLICATION ITEM

CONSULT 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.
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"> Read and save the vehicle specification. 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
Door lock	DOOR LOCK	×	×	
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Exterior lamp	HEAD LAMP	×	×	×
Interior room lamp control	INT LAMP		×	
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	
—	AIR CONDITONER*		×	×
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	
Interior room lamp battery saver	BATTERY SAVER		×	
Back door open	TRUNK		×	
Vehicle security	THEFT ALM	×	×	
RAP	RETAINED PWR		×	
Remote keyless entry system	MULTI REMOTE ENT	×	×	
Signal buffer system	SIGNAL BUFFER		×	×

NOTE:

*: This item is displayed, but not used.

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 1]

CONSULT screen item	Indication/Unit	Description
BATTERY VOLTAGE	V	Battery voltage of the moment a particular DTC is detected.
VEHICLE SPEED	km/h	Vehicle speed of the moment a particular DTC is detected.
EXTERNAL TEMP	°C	External temperature of the moment a particular DTC is detected
VEHICLE COND	—	NOTE: This item is displayed, but cannot be use this item.
DOOR LOCK STATUS	—	NOTE: This item is displayed, but cannot be use this item.
POWER SUPPLY COUNTER	min	Displays the cumulative time from the time that the battery terminal is connected.

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK) (With Intelligent Key System and Super Lock)

INFOID:0000000010708057

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

WORK SUPPORT

Monitor item	Description
DOOR LOCK-UNLOCK SET	Anti-hijack function mode can be changed to operation with this mode <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
AUTO UNLOCK TYPE	NOTE: This item is displayed, but cannot be used
SIGNATURE LIGHT SETTING	Signature light function can be changed to operation with this mode <ul style="list-style-type: none"> • On: Operate • Off: Non-operation

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Contents
REQ SW-DR	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-BD/TR	Indicated [On/Off] condition of back door request switch
DOOR SW-DR	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK	Indicated [On/Off] condition of back door switch
CDL LOCK SW	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEY CYL LK-SW	NOTE: This item is displayed, but cannot be monitored
KEY CYL UN-SW	NOTE: This item is displayed, but cannot be monitored

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 1]

Monitor Item	Contents
SHOCK SENSOR	NOTE: This item is displayed, but cannot be monitored
KEY SW	NOTE: This item is displayed, but cannot be monitored

ACTIVE TEST

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation <ul style="list-style-type: none"> The all door lock actuators are locked when "ALL LOCK" on CONSULT screen is touched The all door lock actuators are unlocked when "ALL UNLK" on CONSULT screen is touched
SUPER LOCK	This test is able to check super lock actuator operation <ul style="list-style-type: none"> The all door lock actuators are set when "LOCK" on CONSULT screen is touched The all door lock actuators are released when "UNLOCK" on CONSULT screen is touched
DOOR LOCK IND	This test is able to check door lock status indicator operation <ul style="list-style-type: none"> On: Operate Off: Non-operation

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY) (With Super Lock)

INFOID:000000010708058

WORK SUPPORT

Monitor item	Description
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch mode can be changed to operation in this mode <ul style="list-style-type: none"> On: Operate Off: Non-operation
ENGINE START BY I-KEY	Engine start function mode can be changed to operation with this mode <ul style="list-style-type: none"> On: Operate Off: Non-operation
TRUNK/GLASS HATCH OPEN	NOTE: This item is displayed, but cannot be monitored
AUTO LOCK SET	Auto door lock operation time can be changed in this mode <ul style="list-style-type: none"> MODE 1: OFF MODE 2: 30 sec MODE 3: 1 minute MODE 4: 2 minutes MODE 5: 3 minutes MODE 6: 4 minutes MODE 7: 5 minutes
SHORT CRANKING OUTPUT	NOTE: This item is displayed, but cannot be monitored
IGN/ACC BATTERY SAVER	Ignition battery saver system mode can be changed to operation with this mode <ul style="list-style-type: none"> On: Operate Off: Non-operation
ANSWER BACK	NOTE: This item is displayed, but cannot be used
ANSWER BACK I-KEY LOCK UNLOCK	NOTE: This item is displayed, but cannot be monitored
ANSWER BACK KEYLESS LOCK UNLOCK	NOTE: This item is displayed, but cannot be monitored

SELF-DIAG RESULT

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DIAGNOSIS SYSTEM (BCM)

[TYPE 1]

< SYSTEM DESCRIPTION >

Refer to [BCS-78, "DTC Index"](#).

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition
REQ SW -DR	Indicates [On/Off] condition of door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of door request switch (passenger side)
REQ SW -BD/TR	Indicates [On/Off] condition of back door request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
CLUTCH SW*1	Indicates [On/Off] condition of clutch interlock switch
BRAKE SW 1	Indicates [On/Off]*2 condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
DETE/CANCL SW	Indicates [On/Off] condition of P position
START CLUTCH SW	Indicates [On/Off] condition of clutch pedal position switch
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
NEUTRAL SW - IPDM	Indicates [On/Off] condition of reverse/neutral position switch
SFT PN -IPDM	Indicates [On/Off] condition of P or N position
STARTER RELAY - IPDM	Indicates [On/Off] condition of starter relay
ENGINE STATE	Indicates [Stop/Stall/Crank/Run] condition of engine states
ST/INHIRELAY-IPDM	Display the starter relay/starter control relay status signal from IPDM E/R via CAN communication
REVERSE SIGNAL - IPDM	Indicates [On/Off] condition of R position
CRANKING PERMIT - ECM	Display the engine cranking permit signal from ECM via CAN communication
IS STATUS - ECM	Indicates [On/Off] condition of stop/start system
STARTER CUT RELAY - ECM	Indicates [On/Off] condition of starter control relay signal from ECM via CAN communication
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h]
VEH SPEED 2	Display the vehicle speed signal received from ABS actuator and electric unit (control unit) by numerical value [Km/h]
IGN REQ - IPDM	Display the ignition request signal from IPDM E/R via CAN communication
STARTER REQ - IPDM	Display the starter request signal from IPDM E/R via CAN communication
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	NOTE: This item is displayed, but cannot be monitored
ID OK FLAG	Indicates [Set/Reset] condition of Intelligent Key ID
PRMT ENG STRT	Indicates [Set/Reset] condition of engine start possibility
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored
I-KEY OK FLAG	Indicates [KEY On/NOT On] condition of Intelligent Key ID and Intelligent Key is detected inside vehicle
PRBT ENG STRT	Indicates whether or not the engine is in start prohibited status
ID AUTHENT CANCEL TIMER	Indicates whether or not it is in engine start possible status when Intelligent Key verification is unnecessary

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 1]

Monitor Item	Condition
ACC BATTERY SAVER	Indicates [On/Off] whether or not ignition battery saver is in operation
CRNK PRBT TMR	Indicates [On/Off] whether or not in cranking prohibited status due to starter motor protection function operation
AUT CRANK TMR	Indicates [On/Off] whether or not in AUTO CRANKING MODE status
CRNK PRBT TME	Indicates the time for changing from cranking prohibited status to cranking possible status
AUT CRANK TMR	Indicates the time that AUTO CRANKING MODE operates
CRANKING TME	Indicates the cranking operation time
SHORT CRANK	NOTE: This item is displayed, but not used
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored
S/L IGN OFF POSITION	Indicates [On/Off] condition of Ignition OFF signal
S/L SENSOR CIRCUIT 1	Indicates [Gnd/On] condition of steering lock unit sensor circuit
S/L SENSOR CIRCUIT 2	Indicates [On/Off] condition of steering lock unit sensor circuit
S/L POWER OUTPUT	Indicates [On/Off] condition of steering lock unit power supply
S/L POWER CHECK	Indicates [On/Off] condition of steering lock unit power supply
ANTICIPATED POWER	Indicates [On/Off] condition of anticipated power supply
S/L LOCK REQ	Indicates [On/Off] condition of steering lock unit lock request signal
S/L - BCM (CAN)	Indicates [On/Off] condition of CAN communication
S/L POWER ERROR	Indicates [On/Off] condition of steering lock unit power supply error
VEH SPEED ERROR (S/L)	Indicates [On/Off] condition of vehicle speed signal
VEH SPEED NORMAL (S/L)	Indicates [On/Off] condition of vehicle speed signal
ENGINE RUNNING (S/L)	Indicates [On/Off] condition of engine running
S/L ID DISCORD	Indicates [Correct/Incorrect] condition of ID verification
S/L ANTI-SCAN MODE	Indicates [On/Off] condition of antiscan mode
S/L LOCK NOT PERMIT	Indicates [Inhibition/No inhbt] condition of inhibit steering lock
S/L UNLOCK (CAN)	Indicates [Finished/Unfinished] condition of steering lock unit unlock
S/L ID STATUS (CAN)	Indicates [Coded/Blank] condition of registration ID
S/L RESET STATUS (CAN)	Indicates [Exit/No exit] condition of steering lock unit reset signal
S/L LO-LEVEL MALFUNC (CAN)	Indicates [Malf/No malf] condition of lo-level malfunction
S/L LOCK POSITION (CAN)	Indicates [Armed/Malf/Unlocked/Undefined] condition of lock/unlock position signal
S/L ACT MALFUNCTION (CAN)	Indicates [Malf/No malf] condition of steering lock unit malfunction
S/L HI-LEVEL MALFUNC (CAN)	Indicates [Malf/No malf] condition of hi-level malfunction
S/L OPERATION PRHBT (SPD)	Indicates [On/Off] condition of vehicle speed signal
S/L OPERATION PRHBT (PWR)	Indicates [Allowed/Forbid] condition of safety line inhibition
S/L SENSOR POWER (CAN)	Indicates [On/Off] condition of sensor test power supply
S/L SEN TEST PERMIT (CAN)	Indicates [Forbid/Authorize] condition of sensor test
S/L STAT NOT DETECT (CAN)	Indicates [Ok/Unfind] condition of steering lock undefined position signal
S/L LOCKING FINISHED (CAN)	Indicates [Unfinshd/Finished] condition of steering lock unit lock status signal
STOP/START SW	Indicates [On/Off] condition of stop/start off switch
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 1]

Monitor Item	Condition
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored
RKE-PANIC	NOTE: This item is displayed, but cannot be monitored
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from Intelligent Key
RKE PBD	Indicates [On/Off] condition of back door open request signal from Intelligent Key
KEY SW	NOTE: This item is displayed, but cannot be monitored
IGN SW	NOTE: This item is displayed, but cannot be monitored
START SW	NOTE: This item is displayed, but cannot be monitored

*1: It is displayed but does not operate on CVT models.

*2: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
INSIDE BUZZER	This test is able to check warning chime in combination meter operation <ul style="list-style-type: none"> • Buzzer 1: Combination meter buzzer sounds (pipipi...) when CONSULT screen is touched • Buzzer 2: Combination meter buzzer sounds (pipi-pipi-...) when CONSULT screen is touched • Buzzer 3: Combination meter buzzer sounds (pipipipi-pipipipi-...) when CONSULT screen is touched • Off: Non-operation
INDICATOR	This test is able to check warning lamp operation <ul style="list-style-type: none"> • KEY ON: [Intelligent Key system malfunction] displays when CONSULT screen is touched • KEY IND: "KEY" Warning lamp blinks when CONSULT screen is touched • Off: Non-operation
FLASHER	This test is able to check security hazard lamp operation The hazard lamps are activated after "LH/RH/Off" on CONSULT screen is touched
HORN	NOTE: This item is displayed, but cannot be used
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) <ul style="list-style-type: none"> • On: Operates • Off: Non-operation
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation Push-ignition switch illumination illuminates when "ON" on CONSULT screen is touched
ENGINE START REQUEST	This test is able to check BCM sends starter request signal to IPDM E/R via CAN communication <ul style="list-style-type: none"> • MODE 1: IGN ON, START request OFF • MODE 2: IGN OFF, START request ON • MODE 3: IGN ON, START request ON • Off: Non-operation
IGNITION RELAY	NOTE: This item is displayed, but cannot be used
STARTER CUT RELAY	This test is able to operate the starter control relay <ul style="list-style-type: none"> • On: Operates • Off: Non-operation
ENGINE START	NOTE: This item is displayed, but cannot be used

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 1]

Test item	Description
TRUNK/BACK DOOR	NOTE: This item is displayed, but cannot be used
RETRACTABLE MIRROR	NOTE: This item is displayed, but cannot be used
AUTO ACC 2	This test is able to check BCM sends power supply to audio unit or NAVI control unit <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
AUTOMATIC BACK DOOR	NOTE: This item is displayed, but cannot be used
AUTO ACC 1	This test is able to check BCM sends power supply to ignition relay <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk/luggage room lamp operation <ul style="list-style-type: none"> • On: Operates • Off: Non-operation

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK) (With Intelligent Key System and Super Lock)

INFOID:000000010708059

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Contents
PUSH SW	Indicates [On/Off] condition of push switch
STARTER CUT RELAY	Indicates [On/Off] condition of starter control relay
DETECTION SENSOR (BK)	NOTE: This item is displayed, but cannot be monitored
VEH SPEED 1	Indicates [Km/h] condition of vehicle speed signal from combination meter
KEY CYL SW-TR	NOTE: This item is displayed, but cannot be monitored
TR CANCEL SW	NOTE: This item is displayed, but cannot be monitored
TRUNK LID OPENER SW	NOTE: This item is displayed, but cannot be monitored
BACK DOOR OPENER SW	Indicates [On/Off] condition of back door opener switch
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored

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DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[TYPE 1]

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

CONSULT Function (AUTOMATIC BACK DOOR CONTROL UNIT)

INFOID:000000010708060

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with automatic back door control unit.

Diagnosis mode	Function Description
Work Support	Changes the setting for system function
Self Diagnostic Result	Displays the diagnosis results judged by automatic back door control unit
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from automatic back door control unit
Data Monitor	The automatic back door control unit input/output signals are displayed
Ecu Identification	The automatic back door control unit part number is displayed

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Description
SPINDLE SENSOR LH	Indicates [Pulse] condition of encoder LH
SPINDLE LH SPEED	Indicates [mm/s] condition of spindle motor LH operation speed
SPINDLE MOTOR LH DUTY	Indicates [%] condition of spindle motor LH duty
VHCL SPEED MTR	Display the vehicle speed signal received from unified meter and A/C amp. by numerical value [km/h]
VHCL SPEED ABS	Display the vehicle speed signal received from ABS actuator and electrical unit by numerical value [km/h]
MAIN SW	Indicates [ON/OFF] condition of automatic back door main switch
AUTO BD SW	Indicates [ON/OFF] condition of automatic back door switch
BK DOOR CL SW	Indicates [ON/OFF] condition of automatic back door close switch
PKB SW	Indicates [ON/OFF] condition of parking brake status from combination meter via CAN communication
BACK DOOR LOCK STATUS	Indicates [ON/OFF] condition of back door lock status
OPEN SW	Indicates [ON/OFF] condition of open switch
CLOSE SW	Indicates [ON/OFF] condition of close switch
HALF LATCH SW	Indicates [ON/OFF] condition of half latch switch
TOUCH SEN RH	Indicates [ON/OFF/OPEN] condition of touch sensor RH
TOUCH SEN LH	Indicates [ON/OFF/OPEN] condition of touch sensor LH
P RANGE IND	Indicates [ON/OFF] condition of P range signal from unified meter and A/C amp.
RKE REQ	Indicates [OFF/MOVE/REV] condition of remote keyless entry signal from BCM
IGN SW	Indicates [ON/OFF] condition of IGN power supply
SPINDLE LH ENCODER A	Indicates [LO/HI] condition of encoder signal A from encoder LH
SPINDLE LH ENCODER B	Indicates [LO/HI] condition of encoder signal B from encoder LH
UNLOCK SEN BD	NOTE: This item is displayed, but cannot be monitored
DESTINATION	Indicates [Type 1/Type 2/Type 3/Type 4] specification of destination of the automatic back door system Normal: [Type 3] is monitored
TRANSMISSION TYPE	Indicates [MT/(AT/CVT)] type of transmission

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[TYPE 1]

Monitor Item	Description
AUTO BCK DR POS INITIAL	Indicates [YET/DONE] condition of [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]
AUTO BCK DR POS LEARN	Indicates [YET/DONE] condition of [ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL]
SPINDLE SENSOR RH	Indicates [Pulse] condition of encoder RH
SPINDLE RH SPEED	Indicates [mm/s] condition of spindle motor RH operation speed
SPINDLE MOTOR RH DUTY	Indicates [%] condition of spindle motor RH duty
SPINDLE RH ENCODER A	Indicates [LO/HI] condition of encoder signal A from encoder RH
SPINDLE RH ENCODER B	Indicates [LO/HI] condition of encoder signal B from encoder RH
DETECT SENSOR PWR	NOTE: This item is displayed, but cannot be monitored
CLOSURE OPERATION	Indicates [ON/OFF] condition of back door auto closure function
IGN SW	Indicates [ON/OFF] condition of IGN power supply from IPDM E/R via CAN communication
DETECT SENSOR SIG 1	NOTE: This item is displayed, but cannot be monitored

WORK SUPPORT

Monitor Item	Description
RESET AUTO BACK DOOR STATUS	This item is able to calibration of automatic back door position information

SELF-DIAG RESULT

Refer to [DLK-88. "DTC Index"](#).

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ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000010708061

ECU	Reference
BCM	BCS-53, "Reference Value"
	BCS-76, "Fail-safe"
	BCS-77, "DTC Inspection Priority Chart"
	BCS-78, "DTC Index"

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[TYPE 1]

AUTOMATIC BACK DOOR CONTROL UNIT

Reference Value

INFOID:0000000010708062

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT MONITOR ITEM

Monitor Item	Condition	Value/Status	
SPINDLE SENSOR LH	Back door: Moving	0 – 1000	
SPINDLE LH SPEED	Back door: Moving	0 – 6553.5	
SPINDLE MOTOR LH DUTY	Back door: Moving	0 – 255	
VHCL SPEED MTR	While driving	Equivalent to speedometer reading	
VHCL SPEED ABS	While driving	Equivalent to speedometer reading	
MAIN SW	Automatic back door main switch	OFF	OFF
		Other than above	ON
AUTO BD SW	Automatic back door switch	Release	OFF
		Press	ON
BK DOOR CL SW	Automatic back door close switch	Release	OFF
		Press	ON
PKB SW	Parking brake	OFF	OFF
		ON	ON
BACK DOOR LOCK STATUS	Back door lock	Lock	OFF
		Unlock	ON
OPEN SW	Open switch	OFF	OFF
		ON	ON
CLOSE SW	Close switch	OFF	OFF
		ON	ON
HALF LATCH SW	Half latch switch	OFF	OFF
		ON	ON
TOUCH SEN RH	Touch sensor RH	Other than bellow	OFF
		Detect obstruction	ON
TOUCH SEN LH	Touch sensor LH	Other than bellow	OFF
		Detect obstruction	ON
P RANGE IND	Selector lever	Other than P position	OFF
		P position	ON
RKE REQ	Intelligent Key button (back door)	Release	OFF
		Press (auto open/close operation)	MOVE
		Press (reverse operation)	REV
IGN SW	Ignition switch	Other than ON position	OFF
		ON position	ON
SPINDLE LH ENCODER A	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO

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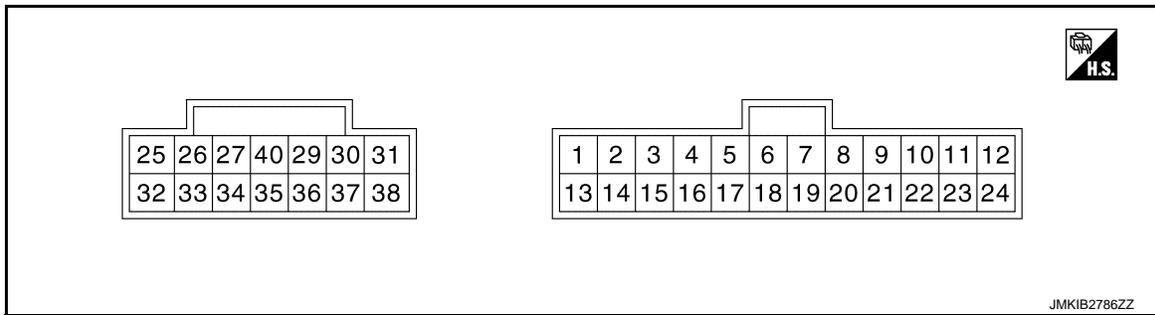
AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[TYPE 1]

Monitor Item	Condition		Value/Status
SPINDLE LH ENCODER B	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO
UNLOCK SEN BD	NOTE: The item is indicated, but not monitored		OFF
DESTINATION	—		TYPE3
TRANSMISSION TYPE	M/T models		MT
	<ul style="list-style-type: none"> • Ignition switch: ON position • CVT models 		AT/CVT
AUTO BCK DR POS INITIAL	Calibration of automatic back door position information	Not complete	YET
		Complete	DONE
AUTO BCK DR POS LEARN	Additional service when removing battery negative terminal	Not complete	YET
		Complete	DONE
SPINDLE SENSOR RH	Back door: Moving		0 – 1000
SPINDLE RH SPEED	Back door: Moving		0 – 6553.5
SPINDLE MOTOR RH DUTY	Back door: Moving		0 – 255
SPINDLE RH ENCODER A	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO
SPINDLE RH ENCODER B	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO
DETECT SENSOR PWR	—		OFF
CLOSURE OPERATION	Back door	Other than bellow	OFF
		Open operation	ON
IGN SW	Ignition switch	Other than ON position	OFF
		ON position	ON
DETECT SENSOR SIG 1	—		OFF

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition	Voltage (Approx.)	
(+)	(-)	Signal name	Input/ Output			
1 (LG)	Ground	Touch sensor RH signal	Input	Touch sensor RH	Detect obstruction	0.4 V
					Other than above	6.1 V
2 (G)	Ground	Touch sensor LH signal	Input	Touch sensor LH	Detect obstruction	0.4 V
					Other than above	6.1 V

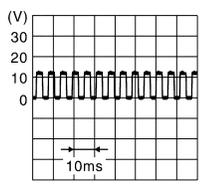
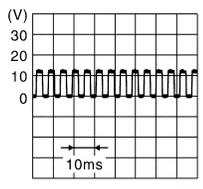
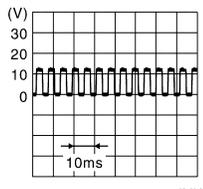
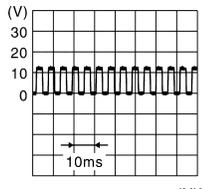
AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[TYPE 1]

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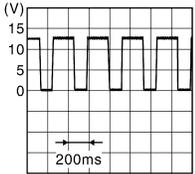
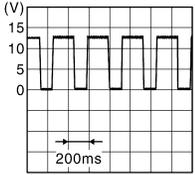
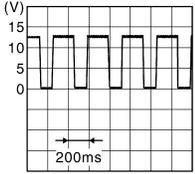
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Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(-)	Signal name	Input/ Output			
3 (SB)	Ground	Half latch switch signal	Input	Back door	Open	12 V
					Fully closed/half latch	0 V
5 (BR)	Ground	Close switch signal	Input	Back door	Fully closed	0 V
					Open/half latch	12.2 V
6 (W)	Ground	Encoder LH A signal	Input	Back door	Moving (auto)	 JMKIB2762ZZ
					When stopped	0 V or 12 V
7 (L)	Ground	Encoder LH B signal	Input	Back door	Moving (auto)	 JMKIB2762ZZ
					When stopped	0 V or 12 V
8 (R)	Ground	Encoder RH A signal	Input	Back door	Moving (auto)	 JMKIB2762ZZ
					When stopped	0 V or 12 V
9 (SB)	Ground	Encoder RH B signal	Input	Back door	Moving (auto)	 JMKIB2762ZZ
					When stopped	0 V or 12 V
10 (BG)	Ground	Automatic back door main switch	Input	Automatic back door main switch	ON	12.2 V
					OFF	0 V
11 (V)	Ground	Open switch signal	Input	Back door	Closure operation	0 V
					Other than above	12.2 V
12 (P)	Ground	CAN - L	Input/ Output	—	—	
13 (GR)	Ground	Touch sensor ground	Input	—	0 V	

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[TYPE 1]

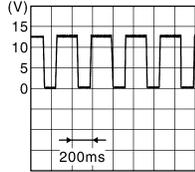
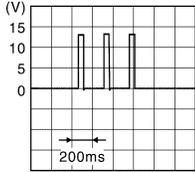
Terminal No. (Wire color)		Description		Condition	Voltage (Approx.)	
(+)	(-)	Signal name	Input/ Output			
16 (B)	Ground	Ground	Input	—	0 V	
19 (V)	Ground	Encoder LH power supply	Output	—	12.7 V	
20 (P)	Ground	Encoder RH power supply	Output	—	12.3 V	
21 (G)	Ground	Encoder ground	—	—	0 V	
22 (LG)	Ground	Automatic back door switch	Input	Automatic back door switch	Pressed	12.6 V
				Released	0 V	
23 (W)	Ground	Automatic back door close switch	Input	Automatic back door close switch	Pressed	12.6 V
				Released	0 V	
24 (L)	Ground	CAN - H	Input/ Output	—	—	
25 (W)	Ground	Power supply (BAT)	Input	—	13.6 V	
27 (BR)	Ground	Spindle motor LH (open)	Output	Spindle motor LH	Auto open operation	12 V
				Auto close operation		
29 (BR)	Ground	Spindle motor RH (open)	Output	Spindle motor RH	Auto open operation	12 V
				Auto close operation		
31 (L)	Ground	Back door closure motor (open)	Output	Back door	Closure operation	13 V
				Other than above	0 V	
32 (B)	Ground	Ground	—	—	0 V	
34 (G)	Ground	Spindle motor LH (close)	Output	Spindle motor LH	Auto open operation	
				Auto close operation	13.4 V	

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[TYPE 1]

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Terminal No. (Wire color)		Description		Condition	Voltage (Approx.)
(+)	(-)	Signal name	Input/ Output		
35 (B)	Ground	Ground (noise shield)	—	—	0 V
36 (G)	Ground	Spindle motor RH (close)	Output	Spindle motor RH	Auto open operation  JMKIB2776ZZ
					Auto close operation 13.4 V
37 (Y)	Ground	Automatic back door warning buzzer	Output	Automatic back door warning buzzer	Sounding (auto open/close operation)  JMKIB2777ZZ
					Not sounding 0 V
38 (SB)	Ground	Back door closure mo- tor (close)	Output	Back door	Closure opera- tion 13 V
					Other than above 0 V

Fail-safe

INFOID:0000000010708063

Display contents of CONSULT	Fail-safe	Cancellation
U1000 CAN COMM	Inhibit automatic back door operation	Return to normal status
U1010 CONTROL UNIT (CAN)	Inhibit automatic back door operation	Return to normal status
B2401 IGN OPEN	Inhibit automatic back door operation	Automatic back door control unit de- tects ignition switch ON signal via CAN communication
B2409 HALF LATCH SW	Inhibit automatic back door operation	Automatic back door control unit de- tects that half latch switch changes from ON to OFF when back door ful- ly closes
B2416 TOUCH SEN R OPEN	Inhibit automatic back door operation	Return to normal status
B2417 TOUCH SEN L OPEN	Inhibit automatic back door operation	Return to normal status
B2419 OPEN SW	Inhibit automatic back door operation	Reconnect battery
B2420 CLOSE SW	Inhibit automatic back door operation	Reconnect battery
B2422 BACK DOOR STATE	Inhibit automatic back door operation	Half latch switch is ON from OFF
B2423 ABD MTR TIME OUT	Inhibit automatic back door operation	At least 180 seconds are passed af- ter automatic back door operation is inhibited
B2426 SPINDLE SENSOR LH	Inhibit automatic back door operation	Return to normal status
B2427 SPINDLE SENSOR RH	Inhibit automatic back door operation	Return to normal status
B2428 AUTO BACK DR CNT UNIT	Inhibit automatic back door operation	Return to normal status
B242A CLSR CONDITION	Inhibit automatic back door operation	Reconnect battery

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AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[TYPE 1]

DTC Inspection Priority Chart

INFOID:000000010708064

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"> • B2428 AUTO BK DR CNT UNIT • U1000 CAN COMM • U1010 CONTROL UNIT (CAN) • B2401 IGN OPEN
2	<ul style="list-style-type: none"> • B2409 HALF LATCH SW • B2416 TOUCH SEN R OPEN • B2417 TOUCH SEN L OPEN • B2419 OPEN SW • B2420 CLOSE SW • B2422 BACK DOOR STATE • B2423 ABD MTR TIME OUT • B2426 SPINDLE SENSOR LH • B2427 SPINDLE SENSOR RH • B242A CLSR CONDITION

DTC Index

INFOID:000000010708065

NOTE:

Details of time display

- 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.

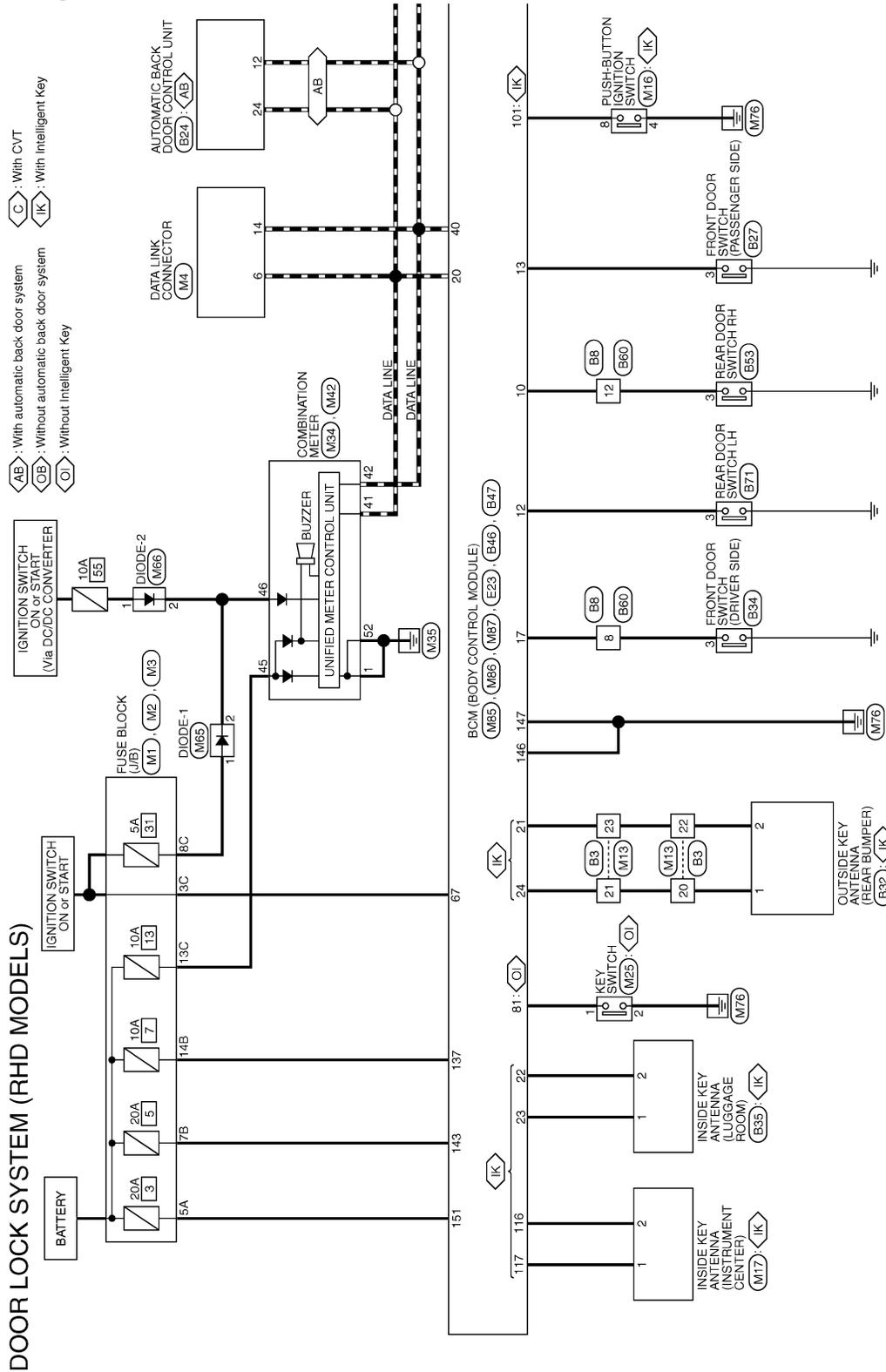
CONSULT display	Fail-safe	Reference page
U1000: CAN COMM	×	DLK-155
U1010: CONTROL UNIT(CAN)	×	DLK-156
B2401: IGN OPEN	×	DLK-118
B2409: HALF LATCH SW	×	DLK-120
B2416: TOUCH SEN R OPEN	×	DLK-123
B2417: TOUCH SEN L OPEN	×	DLK-126
B2419: OPEN SW	×	DLK-129
B2420: CLOSE SW	×	DLK-132
B2422: BACK DOOR STATE	×	DLK-134
B2423: ABD MTR TIME OUT	×	DLK-137
B2426: SPINDLE SENSOR LH	×	DLK-139
B2427: SPINDLE SENSOR RH	×	DLK-142
B2428: AUTO BACK DR CNT UNIT	×	DLK-145
B242A: CLSR CONDITION	×	DLK-146

WIRING DIAGRAM

DOOR & LOCK SYSTEM

Wiring Diagram

INFOID:000000010708066



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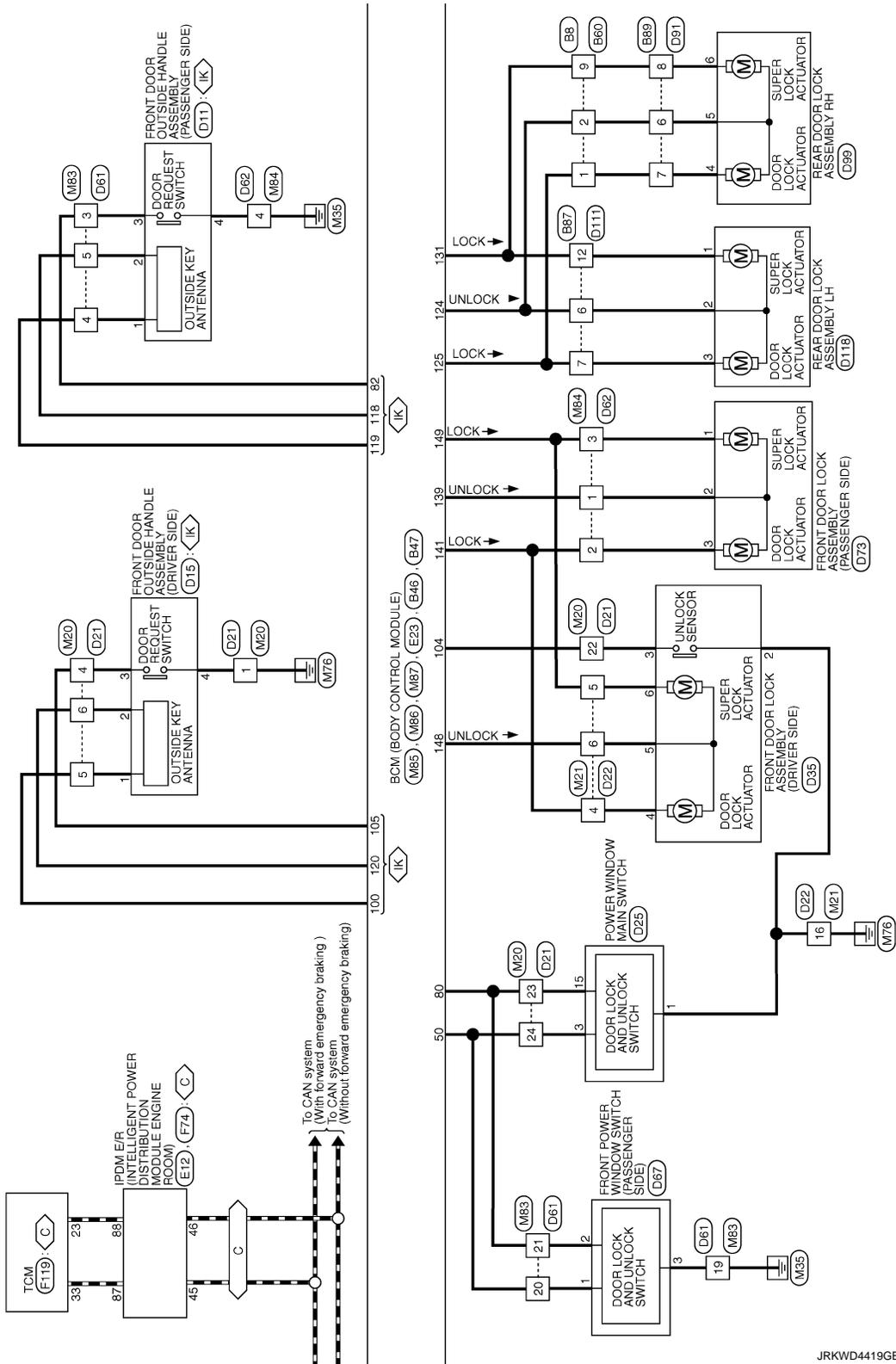
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JRKWD44186G

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 1]

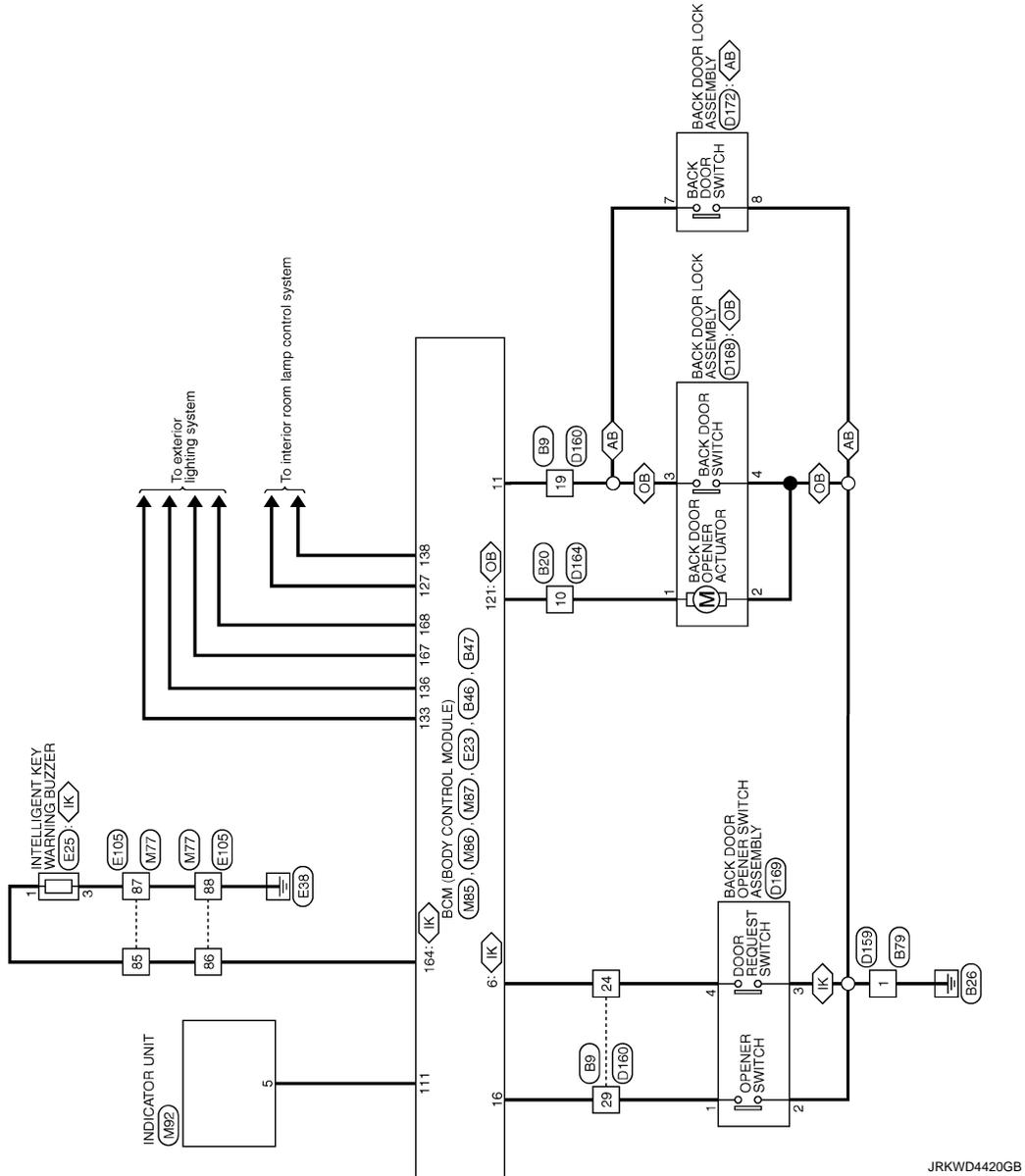


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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 1]



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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 1]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MV-AH



16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	V	-
3	LA/R	-
4	V	-
5	GR	-
6	Y	-
7	LG	-
8	BG	-
9	W	-
10	LAV	-
11	BR	-
12	Y	-
13	W	-
14	V	-
15	L	-
16	BR	-
17	Y	-
18	LA/L	- [Without PSM]
20	LG	- [With FSM]
21	G	-
22	V	-
23	BR	-
24	P	-
25	L	-
26	G	-
29	SHIELD	-
30	W	-
31	B	-
32	R	-

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Type	NS16MV-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	P	-
4	L	-
5	L	-
6	SB	-
7	R	-
8	LA/V	-
10	LA/R	-
11	LA/R	-
12	W	-
13	P	-
14	R	-
15	P	-
16	P	-

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	TH32MV-AH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	W	-
8	SHIELD	-

13	W	-
14	V	-
15	BR	-
16	SB	-
17	LA/V	-
18	LA/R	-
19	LG	-
20	LA/G	-
21	LA/G	-
22	LA/R	-
23	LA/R	-
24	R	-
29	Y	-
30	G	-
31	GR	-
32	LG	-



Connector No.	B20
Connector Name	WIRE TO WIRE
Connector Type	NS16MV-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
8	LA/G	-
9	LA/R	-
10	LA/V	-
12	L	-
13	SB	-
14	R	-
15	G	-
16	W	-

Connector No.	B24
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	AA02HFB



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	TOUCH SENS RH
2	G	TOUCH SENS LH
3	SB	HALF LATCH SW
4	BR	CLOSE SW
5	W	A-SIGN LH
6	L	B-SIGN LH
7	R	A-SIGN RH
8	SB	B-SIGN RH
9	SB	MAIN SW
10	BG	OPEN SW
11	V	CAN LOW
12	P	TOUCH SENS GND
13	GR	GROUND
16	B	POWER LH
19	V	POWER RH
20	P	ENCODER GROUND
21	G	DRIVER SW
22	LG	INSIDE CLOSE SW
23	W	CAN HI
24	L	

JRKWD4421GB

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 1]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	GR	- [For LHD models]
3	SB	- [For RHD models]

Connector No.	B29
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY



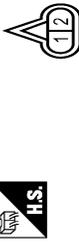
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	V	-

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	-

Connector No.	B35
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	RK02FGY



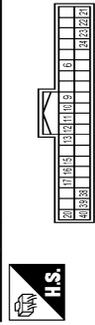
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	B46
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FGY-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
121	LAV	BACK DOOR OPENER CONT
122	Y	REAR FOG LAMP OUTPUT
123	LA/R	REAR WIPER OUTPUT
124	W	REAR DOOR UNLOCK OUTPUT
125	L	REAR DOOR LOCK OUTPUT
127	R	LUGGAGE ROOM LAMP CONT
129	LAV	STOP LAMP LH OUT
131	R	REAR DOOR SUPERLOCK OUTPUT
133	GR	TURN SIG LH (REAR)
134	LAV	STOP LAMP RH OUT
136	P	TURN SIG RH (REAR)

Connector No.	B47
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH06FG-NH



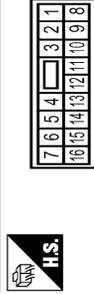
Terminal No.	Color Of Wire	Signal Name [Specification]
6	R	BACK DOOR OPENER REQUEST SW
9	G	HANDS FREE SENSOR
10	W	REAR RH DOOR SW
11	LG	BACK DOOR SW
12	R	REAR LH DOOR SW
13	SB	PASSENGER DOOR SW
15	LAV	REAR WIPER AUTO STOP
16	Y	BACK DOOR OPENER SW
17	SB	DRIVER DOOR SW
20	L	CANH
21	BR	BUMPER ANTENNA(-)
22	Y	REAR ANTENNA(-)
23	L	REAR ANTENNA(+)
24	G	BUMPER ANTENNA(+)
38	V	SIREN
39	LAV	HIGH-MOUNTED STOP LAMP
40	P	CANL

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	W	-

Connector No.	B60
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LALG	-
2	LA/GR	-
3	P	-
6	L	-
7	L	-
8	GR	- [For LHD models]
8	SB	- [For RHD models]
9	LA/R	-
10	LAV	-
11	LA/R	-
12	W	-
13	LAV	-
14	R	-
15	P	-
16	P	-

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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 1]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	B71
Connector Name	REAR DOOR SWITCH-LH
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	R	-
3	LAV	-
6	W	-
7	L	-
8	LA/R	-
9	LAL	-
12	G	-

Terminal No.	3	R	Signal Name [Specification]	-
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Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC



Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	1	B	Signal Name [Specification]	-
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Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Connector No.	D11
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE)
Connector Type	RH04FB



Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	SB	-
3	P	-
4	B	-

Connector No.	D15
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE)
Connector Type	RH04FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	B	-
4	W	-
5	V	-
6	SB	-
7	L	-
8	G	-
9	Y	-
10	B	-
11	G	-
13	LAW	-
14	LAG	-
15	LAGR	-
16	LAP	-
17	LA/SB	-
18	LA/R	-
19	LA/SB	-
20	GR	-
21	LA/G	-
22	R	-
23	BG	-
24	L	-

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

DOOR & LOCK SYSTEM

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[TYPE 1]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/B	-
2	Y	-
3	G	-
4	V	-
5	LG	-
6	G	-
7	SB	-
8	LA/B	-
9	LA/R	-
10	LA/V	-
11	LA/L	-
12	LA/G	-
13	LA/R	-
14	LA/G	-
15	LA/R	-
16	B	-

Connector No.	D25
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	LA/R	FRONT POWER WINDOW MOTOR/UP SIGNAL
3	L	-
4	P	ENCODER SIGNAL 2

Terminal No.	Color Of Wire	Signal Name [Specification]
5	W	ENCODER SIGNAL 1
6	LA/L	REAR POWER WINDOW MOTOR/RE/DOWN SIGNAL
7	LA/G	REAR POWER WINDOW MOTOR/R/UP SIGNAL
8	Y	REAR POWER WINDOW MOTOR/L/DOWN SIGNAL
9	G	REAR POWER WINDOW MOTOR/L/UP SIGNAL
10	SB	IGN ON POWER SUPPLY
12	LG	ENCODER GROUND
13	GR	-
14	G	ENCODER POWER SUPPLY
15	BG	-
16	LAV	FRONT POWER WINDOW MOTOR/ PASSENGER SIDE/UP SIGNAL

Connector No.	D35
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	FEA04FB-FHA2-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	R	-
4	V	-
5	G	-
6	LG	-

Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



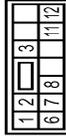
Terminal No.	Color Of Wire	Signal Name [Specification]
2	LAV	-
3	P	-
4	R	-
5	SB	-
6	LG	-
7	L	-
8	V	-
9	Y	-
10	B	-
11	R	-
13	B	-
14	LAV	-
15	LA/G	-
16	LA/R	-
17	LA/P	-
18	LA/SE	-
19	B	-
20	LG	-
21	BR	-
22	LAG	-

Connector No.	D62
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



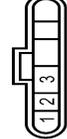
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	V	-
3	R	-
4	B	-
5	B	-
6	LA/L	-
7	LA/R	-
8	LA/Y	-
10	LA/R	-
11	LAL	-

Connector No.	D67
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS12FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	BR	-
3	B	-
6	LA/Y	-
7	LA/R	-
8	LAL	-
11	LAY	-
12	LABR	-

Connector No.	D73
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2-LC



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[TYPE 1]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	D91
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC



Terminal No.	31	W
Terminal No.	32	W

Connector No.	D164
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAV	-
2	LAIB	-
3	LAIG	-
4	LAV	-
5	LAV	- [For LHD models]
6	W	- [For RHD models]
7	LG	- [For LHD models]
8	LAV	- [For RHD models]
9	LAL	-
7	SB	-
8	P	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAV	-
2	LAIB	-
3	LAIG	-
6	LAV	-
7	W	- [For LHD models]
8	LAV	- [For RHD models]
9	LG	- [For LHD models]
8	LAV	- [For RHD models]
9	LAL	-
12	W	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-

Connector No.	D160
Connector Name	WIRE TO WIRE
Connector Type	TH2FW-NH



Connector No.	D99
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	FEA04FB-FHA2-LC



Connector No.	D118
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	FEA04FB-FHA2-LC



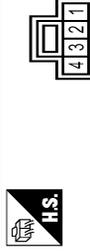
Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	-
5	W	-
6	W	-
7	W	-
8	W	-
13	W	-
14	W	-
15	W	-
16	W	-
17	W	-
18	W	-
19	W	-
20	W	-
21	W	-
22	W	-
23	W	-
24	W	-
29	W	-
30	W	-

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	LG	-

Terminal No.	Color Of Wire	Signal Name [Specification]
8	W	-
9	W	-
10	W	-
12	W	-
13	W	-
14	W	-
15	W	-
16	W	-

Connector No.	D168
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	W	-
4	GR	-

DOOR & LOCK SYSTEM

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[TYPE 1]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	D169
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH4MMV-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	GR	- [Without PBD]
4	BR	- [With PBD]

Connector No.	D172
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08FW-GS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
4	W	-
5	W	-
6	W	-
7	W	-
8	B	-

Connector No.	E12
Connector Name	POWER INTELLIGENT POWER-DS PRETRUCK MODULE (ENGINE ROOM)
Connector Type	TH24FGY-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
25	LG	-
26	W	-
27	SB	-
28	P	-
30	L	-
31	G	-
32	B	-
33	BG	-
34	LG	-
35	V	-
36	Y	-
37	B	-
38	GR	-
39	BR	-
45	L	-
46	P	-
47	W	-
48	R	-

Connector No.	E23
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
156	V	CLUTCH INTERLOCK SW
157	LG	STOP LAMP SW 2
158	W	STOP LAMP SW 1
159	R	ASCD CLUTCH SWITCH
164	Y	INTELLIGENT KEY WARNING BUZZER
165	P	STEERING LOCK UNIT POWER SUPPLY
167	BR	TURN SIG LH (FRONT)
168	GR	TURN SIG RH (FRONT)
170	L	PTC RELAY-3 CONTROL
171	G	STARTER RELAY CONT
172	V	PTC RELAY-1 CONTROL
173	BG	PTC RELAY-2 CONTROL

Connector No.	E26
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	FKG08BR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
3	B	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-GS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
5	V	- [Without ISS]
5	W	- [With ISS]
8	L	-
9	LG	-
10	W	-
20	W	-
21	B	-
22	SHIELD	-
31	Y	-
32	W	-
33	SB	-
34	LG	-
35	BG	-
36	LG	-
37	V	-
38	G	-
39	BR	-
40	L	-
41	P	-
47	GR	-
48	SB	-
51	P	-
52	L	-
53	W	-
54	Y	-
55	BR	-
56	P	-
57	B	-
58	L	-
59	W	-
60	G	-
61	BR	-
62	V	-
63	BR	-
64	GR	-
65	LG	-
66	BG	-
67	L	-
68	R	-
71	V	-
72	L	-
73	R	-
76	L	-
77	V	-
78	LG	-
79	SHIELD	-
80	GR	-

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[TYPE 1]

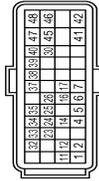
DOOR LOCK SYSTEM (RHD MODELS)

82	Y	-
83	SB	-
84	L	-
85	G	-
86	Y	-
87	B	-
88	B	47 48
91	R	-
92	BR	39 45 46
93	W	11 12 14 15 17 41 42
96	GR	-
97	R	-
98	V	-
99	Y	-

Connector No.	F74
Connector Name	ENGINE PARTIAL-IDENTIFICATION MODULE (ENGINE ROOM)
Connector Type	IT24FB-NH



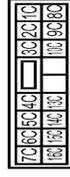
Connector No.	F119
Connector Name	TCM
Connector Type	IRH40FB-RZ2L-LH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	ELECTRIC OIL PUMP RELAY
2	GR	-
4	Y	-
5	BR	D RANGE SWITCH
6	GR	N RANGE SWITCH
7	V	R RANGE SWITCH
11	LG	SENSOR GROUND
12	BR	CVT FLUID TEMPERATURE SENSOR
14	V	G SENSOR
16	SB	SECONDARY PRESSURE SENSOR
17	R	PRIMARY PRESSURE SENSOR
23	P	CANL
24	LG	INPUT SPEED SENSOR
25	R	ELECTRIC OIL PUMP COMMAND SIGNAL
26	BG	SENSOR POWER SUPPLY
30	GR	LINE PRESSURE SOLENOID VALVE
32	SB	ELECTRIC OIL PUMP STATUS SIGNAL
33	L	CANH
34	W	OUTPUT SPEED SENSOR
35	GR	PRIMARY SPEED SENSOR
37	Y	SELECT SOLENOID VALVE
38	G	TORQUE CONVERTER CLUTCH SOLENOID VALVE
39	W	SECONDARY PRESSURE SOLENOID VALVE
40	V	PRIMARY PRESSURE SOLENOID VALVE
41	B	GROUND
42	B	GROUND
45	V	BATTERY POWER SUPPLY
46	V	BATTERY POWER SUPPLY
47	BG	IGNITION POWER SUPPLY
48	BG	IGNITION POWER SUPPLY

Terminal No.	Color Of Wire	Signal Name [Specification]
87	L	-
88	P	-
89	W	-
90	R	-
92	GR	-
93	G	- [With R3M Engine]
94	SB	- [With MR20 or QR25 Engine]
95	LG	-
96	W	-
97	P	-
98	Y	-
99	BG	-
100	LG	-
101	V	-
102	Y	-
105	W	-
106	BR	-
107	V	-
110	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS18FM-CS



DOOR & LOCK SYSTEM

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[TYPE 1]

DOOR LOCK SYSTEM (RHD MODELS)

11	SB	-
14	P	-
15	BR	-
16	W	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH02FW-NH



18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	V	-
3	SB	-
4	BR	-
5	L	-
6	Y	-
7	LG	-
8	BG	-
9	W	-
10	Y	-
11	R	-
12	SB	-
13	LG	-
14	V	-
15	SB	-
16	Y	-
17	LA/BR	-
18	L/L	-
20	BG	-
21	BG	-
22	GR	-
23	GR	-
24	P	-
25	L	-
26	PR	-
29	SHIELD	-
30	W	-
31	B	-
32	R	-

Connector No.	M16
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH08FM-NH



4	5	6	8
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Terminal No.	Color Of Wire	Signal Name [Specification]
4	B	-
5	W	-
6	B	-
8	Y	-

Connector No.	M17
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	BG	-

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH24MV-NH



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	GR	-
3	GR	-
4	Y	-
5	V	-
6	BR	-
7	L	-
8	Y	-
9	G	-
10	SHIELD	-
11	G	-
13	LAW	-
14	L/AG	-
15	LA/GR	-
16	L/AP	-
17	LA/SE	-
18	LA/R	-
19	GR	-
20	GR	-
21	LA/Y	-
22	R	-
23	SB	-
24	BG	-

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS16MV-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	G	-
3	R	-
4	V	-
5	W	-
6	G	-
7	L	-
8	B	-
9	BR	-
10	GR	-
11	Y	-
12	BG	-
13	GR	-
14	W	-
15	P	-
16	B	-

Connector No.	M25
Connector Name	KEY SWITCH
Connector Type	TH02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	B	-

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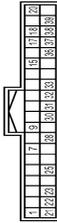
DOOR & LOCK SYSTEM

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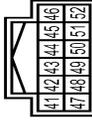
[TYPE 1]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FTV-NH



Connector No.	M42
Connector Name	COMBINATION METER
Connector Type	TH12FTV-NH



Connector No.	M66
Connector Name	DIODE-2
Connector Type	ET02-2W



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
7	BG	SECURITY SIGNAL
9	GR	ECO MODE SWITCH SIGNAL
15	L	AMBIENT SENSOR SIGNAL
17	BG	METER CONTROL SWITCH GROUND
18	SB	TRIP RESET SWITCH SIGNAL
20	Y	AMBIENT SENSOR GROUND
21	L	STEERING SWITCH GROUND
22	Y	STEERING SWITCH SIGNAL A
23	GR	STEERING SWITCH SIGNAL B
25	V	BRAKE FLUID LEVEL SWITCH SIGNAL
28	Y	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	LG	MANUAL MODE SIGNAL
31	SB	NON-MANUAL MODE SIGNAL
32	BG	MANUAL MODE SHIFT UP SIGNAL
33	BR	MANUAL MODE SHIFT DOWN SIGNAL
36	GR	ILLUMINATION CONTROL SWITCH SIGNAL (+)
37	V	ILLUMINATION CONTROL SWITCH SIGNAL (-)
38	G	VEHICLE SPEED SIGNAL (8-PULSE)
39	W	VEHICLE SPEED SIGNAL (2-PULSE)

Terminal No.	Color Of Wire	Signal Name [Specification]
41	L	CANH
42	P	CANH
43	W	ILLUMINATION CONTROL SIGNAL
44	LAVR	FUEL LEVEL SENSOR GROUND
45	LAG	BATTERY POWER SUPPLY
46	LABR	IGNITION SIGNAL (Without ISS)
46	V	IGNITION SIGNAL (With ISS)
47	SB	AV COMMUNICATION SIGNAL (H)
48	LG	AV COMMUNICATION SIGNAL (L)
49	Y	OIL LEVEL SENSOR SIGNAL
50	BG	OIL LEVEL SENSOR GROUND
51	LAL	FUEL LEVEL SENSOR SIGNAL
52	B	GROUND

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Connector No.	M65
Connector Name	DIODE-1
Connector Type	ET02-2W



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LAVR	-
5	V	- [Without ISS]
5	W	- [With ISS]
8	G	-
9	Y	-
10	R	-
20	W	-
21	B	-
22	SHIELD	-
31	V	-
32	GR	-
33	G	-
34	LG	-
35	BG	-
36	LG	-
37	V	-
38	G	-
39	BR	-

Terminal No.	Color Of Wire	Signal Name [Specification]
40	L	-
41	P	-
47	Y	-
48	BG	-
51	GR	-
52	SB	-
53	R	-
54	LAL	-
55	BR	-
56	P	-
57	B	-
58	L	-
59	W	-
60	LAVR	-
61	P	-
62	V	-
63	LABR	-
64	V	-
65	GR	-
66	BG	-
67	L	-
68	R	-
71	V	-
72	L	-
73	Y	-
76	L	-
77	V	-
78	LG	-
79	SHIELD	-
80	L	- [Without ISS]
80	LAL	- [With ISS]
82	GR	-
83	LG	-
84	SB	-
85	G	-
86	G	-
87	B	-
88	B	-
91	L	-
92	W	-
93	W	-
96	LG	-
97	BR	-
98	V	-
99	R	-

JRKWD4429GB

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 1]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	M83
Connector Name	WIRE TO WIRE
Connector Type	TH24MV-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	W	-
3	D	-
4	SB	-
5	LG	-
6	B	-
7	L	-
8	Y	-
9	SHIELD	-
10	R	-
11	B	-
12	LA/W	-
13	LA/G	-
14	LA/R	-
15	LA/P	-
16	LA/SE	-
17	B	-
18	B	-
19	B	-
20	LG	-
21	BR	-
22	LA/G	-

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	Y	-
3	W	-
4	B	-
5	B	-
6	Y	-
7	R	-
8	BR	-
9	GR	-
10	GR	-
11	SB	-

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FRCS



Terminal No.	Color Of Wire	Signal Name [Specification]
137	W	BAT POWER SUPPLY (FUSE)
138	SB	INT ROOM LAMP CONT
139	L	PASSENGER DOOR UNLOCK OUTPUT
141	V	FRONT DOOR LOCK OUTPUT
143	LA/V	POWER SUPPLY (FR DOOR LK ACT)
144	EG	POWER SUPPLY (TURN SIGNAL)
145	GR	POWER SUPPLY (STOP LAMP)
146	B	GROUND
147	B	GROUND
148	G	DRIVER DOOR UNLOCK OUTPUT

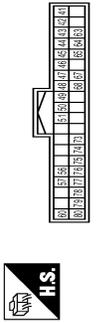
149	W	FRONT DOOR SUPERLOCK OUTPUT
151	R	POWER SUPPLY (REAR DOOR LK ACT)
152	LG	POWER SUPPLY (REAR WIPER)

Connector No.	M86
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
81	L	KEY SWITCH
82	LA/R	KEY SW (S1) (Without intelligent key)
82	W	PASS DOOR REQ SW (With intelligent key)
84	BR	COMBI SW OUTPUT 2
85	SB	COMBI SW OUTPUT 1
86	P	COMBI SW OUTPUT 3
87	EG	COMBI SW OUTPUT 4
88	W	PUSH BTN IGN SW ILL CONT
90	Y	SIL CONDITION
94	G	EXTENDED STORAGE FUSE SW
99	R	STOP/START OFF SW
100	V	DRIVER DOOR ANT +
101	Y	PUSH SW
104	R	DR DOOR UNLK SENS
105	Y	DR DOOR REQ SW
106	W	ACC OUTPUT
107	V	SENSOR CANCEL SW
109	P	NATS ANTENNA AMP
110	EG	DIMMER SIGNAL
111	R	DOOR LK STAT IND OUTPUT
112	SB	STOP/START OFF SW INDICATOR
113	LG	NATS ANTENNA AMP
114	Y	NATS ANTENNA AMP
115	W	NATS ANTENNA AMP
116	EG	ROOM ANT 1
117	GR	ROOM ANT 1 +
118	SB	PASSENGER DOOR ANT
119	P	PASSENGER DOOR ANT +
120	BR	RRIVER DOOR ANT +

Connector No.	M87
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-AH



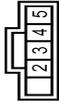
Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	STEERING LOCK UNIT POWER SUPPLY
42	LA/G	TURN SIG LH (SIDE)
43	LA/Y	TURN SIG RH (SIDE)
44	P	INTERIOR ROOM LAMP RELAY CONT
45	R	CAN-L
46	L	CAN-H
47	G	LIGHT & RAIN SENSOR
48	L	CAN-H
49	R	CAN-L
50	BG	DOOR LOCK SW
51	Y	HAZARD SW
56	P	DONBLE
57	L	CVT SHIFT SELECT (DETENT SW) PWR
60	R	HEADLAMP WASHER SW
63	G	POWER WINDOW RELAY CON
64	LA/R	REAR WINDOW DEFOSGGER RELAY CONT
65	BR	ACC RELAY CONT
67	Y	IGN RELAY (FB) CONT OUTPUT
68	LA/W	BLOWER RELAY CONT
73	LG	COMBI SW INPUT 5
74	Y	COMBI SW OUTPUT 5
75	BG	SECURITY IND LAMP CONT
76	G	COMBI SW INPUT 3
77	GR	COMBI SW INPUT 4
78	V	COMBI SW INPUT 1
79	W	COMBI SW INPUT 2
80	SB	DOOR UNLOCK SW

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DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	M92
Connector Name	INDICATOR UNIT
Connector Type	JA805FB



Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	GND
3	W	CUTOFF TELLTALE CONTACT
4	GR	CUTOFF TELLTALE OFF (BEACT)
5	R	DOOR LOCK

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AUTOMATIC BACK DOOR SYSTEM

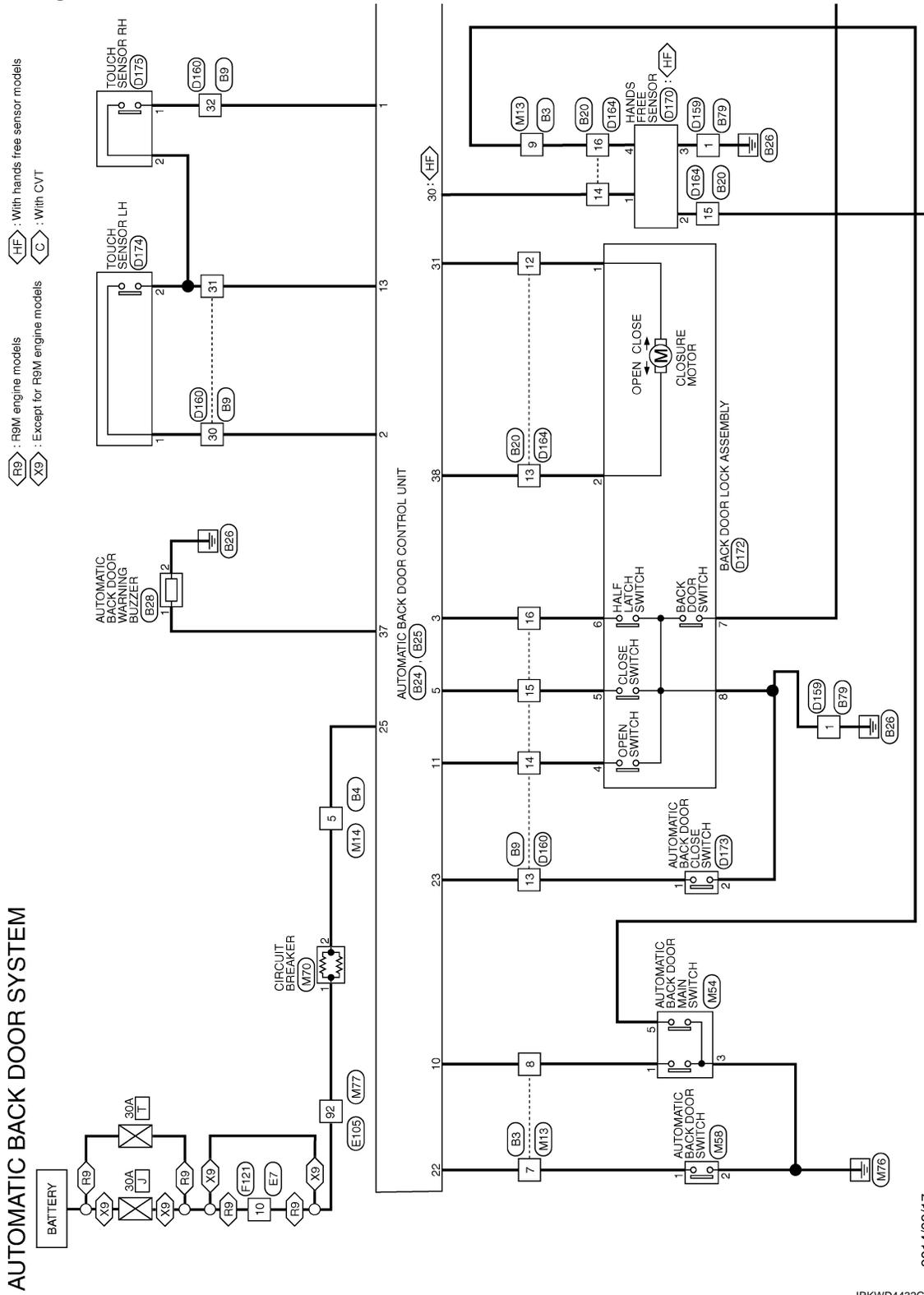
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[TYPE 1]

AUTOMATIC BACK DOOR SYSTEM

Wiring Diagram

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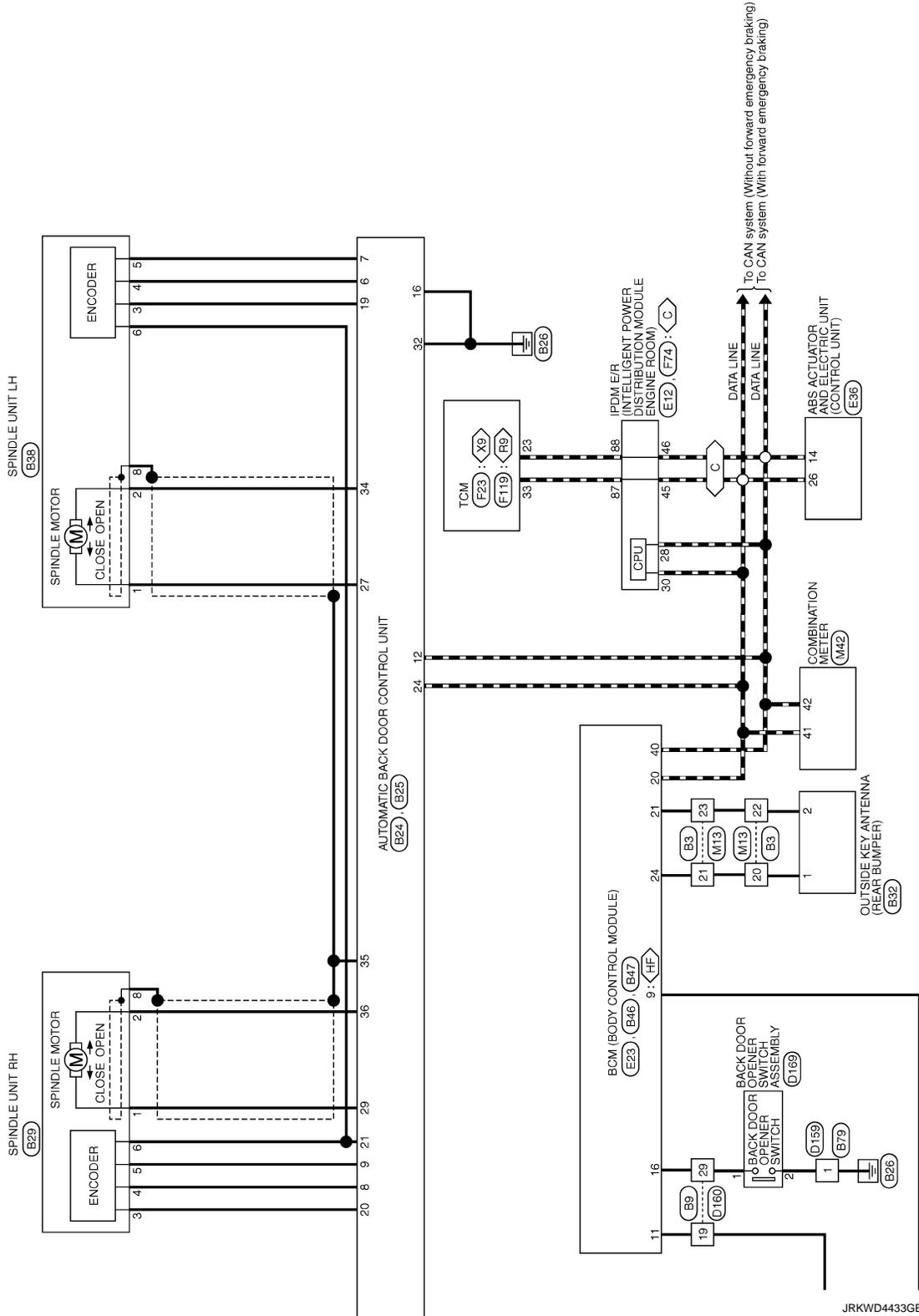
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JRKWD4432GB

AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 1]



JRKWD4433GB

AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 1]

AUTOMATIC BACK DOOR SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH82MW-AH1



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	V	-
3	LAVR	-
4	V	-
5	GR	-
6	Y	-
7	LG	-
8	BG	-
9	W	-
10	LAV	-
11	BR	-
12	Y	-
13	W	-
14	V	-
15	L	-
16	BR	-
17	Y	-
18	LAVL	- [Without PSM]
19	SB	- [With FSM]
20	LG	-
21	G	-
22	V	-
23	BR	-
24	P	-
25	L	-
26	G	-
29	SHIELD	-
30	W	-
31	B	-
32	R	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	LAVG	-
5	W	-
6	G	-
7	R	-
8	LAVG	-
9	P	-
10	R	-
11	LAV	-
12	LAVL	-
13	LAVR	-
14	LAVG	-
15	LAVR	-
16	R	-

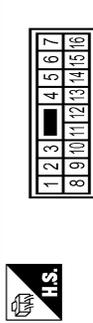
Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	TH82MW-AH1



Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	W	-
8	SHIELD	-
13	W	-

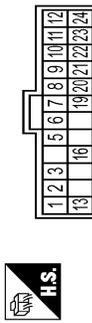
14	V	-
15	BR	-
16	SB	-
17	LAV	-
18	LAVR	-
19	LG	-
20	LAVG	-
21	LAV	-
22	LAVR	-
23	LAVR	-
24	R	-
29	Y	-
30	G	-
31	GR	-
32	LG	-

Connector No.	B20
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
8	LAVG	-
9	LAVR	-
12	L	-
13	SB	-
14	R	-
15	G	-
16	W	-

Connector No.	B24
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	AA024FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	TOUCH SENS RH
2	G	TOUCH SENS LH
3	SB	HALE LATCH SW
5	BR	CLOSE SW
6	W	A-SIGN LH
7	L	B-SIGN LH
8	R	A-SIGN RH
9	SB	B-SIGN RH
10	BG	MAIN SW
11	V	OPEN SW
12	P	CAN LOW
13	GR	TOUCH SENS GND
16	B	GROUND
19	V	POWER LH
20	P	POWER RH
21	G	ENCODER GROUND
22	LG	DRIVER SW
23	W	INSIDE CLOSE SW
24	L	CAN HI

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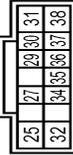
AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 1]

AUTOMATIC BACK DOOR SYSTEM

Connector No.	B25
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	YEA10FGY-YH4



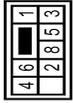
Terminal No.	Color Of Wire	Signal Name [Specification]
25	W	BAT POWER SUPPLY
27	BR	P. BID. LH MTR. OPEN
29	BR	P. BID. RH MTR. OPEN
30	R	IR SENSOR POWER
31	L	LATCH MTR. OPEN
32	B	GROUND
34	G	P. BID. LH MTR. CLOSE
35	B	SPINDLE NOISE
36	Y	P. BID. RH MTR. CLOSE
37	Y	BUZZER
38	SB	LATCH MTR. CLOSE

Connector No.	B28
Connector Name	AUTOMATIC BACK DOOR WARNING BUZZER
Connector Type	RK02FBR-DGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	B	-

Connector No.	B29
Connector Name	SPINDLE UNIT RH
Connector Type	NS08MW-CS



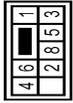
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	G	-
3	P	-
4	R	-
5	SB	-
6	G	-
8	SHIELD	-

Connector No.	B32
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY



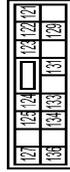
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	V	-

Connector No.	B38
Connector Name	SPINDLE UNIT LH
Connector Type	NS08MW-CS



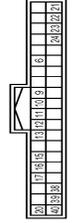
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	G	-
3	V	-
4	W	-
5	L	-
6	G	-
8	SHIELD	-

Connector No.	B46
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FGY-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
121	LAV	BACK DOOR OPENER CONT
122	Y	REAR FOG LAMP OUTPUT
123	LAV	REAR WIPER OUTPUT
124	W	REAR DOOR UNLOCK OUTPUT
125	L	REAR DOOR LOCK OUTPUT
127	R	LUGGAGE ROOM LAMP CONT
129	LAVW	STOP LAMP LH OUT
131	R	REAR DOOR SUPER LOCK OUTPUT
133	GR	TURN SIG LH (REAR)
134	LAV	STOP LAMP RL OUT
136	P	TURN SIG RH (REAR)

Connector No.	B47
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
6	R	BACK DOOR OPENER REOLEST SW
9	G	HANDS FREE SENSOR
10	W	REAR RH DOOR SW
11	LG	BACK DOOR SW
12	R	REAR LH DOOR SW
13	SB	PASSENGER DOOR SW
16	LAVG	REAR WIPER AUTO STOP
17	Y	BACK DOOR OPENER SW
20	L	DRIVER DOOR SW
21	BR	CAHH
22	Y	BUMPER ANTENNA(-)
24	L	REAR ANTENNA(+)
38	G	BUMPER ANTENNA(+)
39	LAVW	SIREN
40	P	HIGH-MOUNTED STOP LAMP CAN-L

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-

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AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 1]

AUTOMATIC BACK DOOR SYSTEM

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	MD2FW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-

Connector No.	D160
Connector Name	WIRE TO WIRE
Connector Type	TH2FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	-
5	W	-
6	W	-
7	W	-
8	W	-
13	W	-
14	W	-
15	W	-
16	W	-
17	W	-
18	W	-
19	W	-
20	W	-
21	W	-
22	W	-
23	W	-
24	W	-
29	W	-
30	W	-

31	W	-
32	W	-

Connector No.	D164
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
8	W	-
9	W	-
10	W	-
12	W	-
13	W	-
14	W	-
15	W	-
16	W	-

Connector No.	D169
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH4MMV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	GR	-
4	BR	- [Without PBD] - [With PBD]

Connector No.	D170
Connector Name	HANDS FREE SENSOR
Connector Type	TH8FW-NH



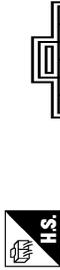
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	Power Management_Port
2	W	Output_Sensor
3	W	SHD
4	W	Cancel_Signal

Connector No.	D172
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS8FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
4	W	-
5	W	-
6	W	-
7	W	-
8	B	-

Connector No.	D173
Connector Name	AUTOMATIC BACK DOOR CLOSE SWITCH
Connector Type	TK06FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	D174
Connector Name	TOUCH SENSOR LH
Connector Type	TK02MW



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

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AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 1]

AUTOMATIC BACK DOOR SYSTEM

Connector No.	D175
Connector Name	TOUCH SENSOR RH
Connector Type	TK02MW



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

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Type	MS16MBR-CS



Terminal No.	Wire	Signal Name [Specification]
1	BR	- [With MR20 or QR25 engine]
1	SB	- [With RSM engine]
2	BR	- [With MR20 or QR25 engine]
2	GR	- [With RSM engine]
3	G	-
4	R	-
5	B	- [With MR20 engine]
5	L	- [With RSM engine]
6	LG	- [With QR25 engine]
7	G	-
8	V	-
8	W	- [With MR20 engine or RSM engine]
9	BG	- [With QR25 engine]
9	BR	- [With RSM engine]
10	BR	- [With MR20 engine]
11	Y	-
12	L	- [With RSM engine]

12	LG	- [With QR25 engine]
13	BR	- [With MR20 or QR25 engine]
13	R	- [With RSM engine]
15	L	-
16	SB	-



Connector No.	E12
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH24FGY-NH



Terminal No.	Wire	Signal Name [Specification]
25	LG	-
26	W	-
27	SB	-
28	P	-
30	L	-
31	G	-
32	B	-
33	BG	-
34	LG	-
35	V	-
36	Y	-
37	B	-
38	GR	-
39	BR	-
45	L	-
46	P	-
47	W	-
48	R	-

Connector No.	E23
Connector Name	BOM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH



Terminal No.	Wire	Signal Name [Specification]
156	V	CLUTCH INTERLOCK SW
157	LG	STOP LAMP SW 2
158	W	STOP LAMP SW 1
159	R	ASC/D CLUTCH SWITCH
163	Y	INTELLIGENT KEY WARNINGS BUZZER
166	P	STEERING LOCK UNIT POWER SUPPLY
167	BR	TURNSIG LH (FRONT)
168	GR	TURNSIG RH (FRONT)
170	L	PTC-RELAY-3 CONTROL
171	G	STARTER RELAY CONT
172	V	PTC-RELAY-1 CONTROL
173	BG	PTC-RELAY-2 CONTROL

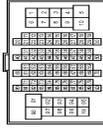
Connector No.	E36
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BE234FB-BHR 2-BJZ-RH



Terminal No.	Wire	Signal Name [Specification]
1	Y	MOTOR POWER SUPPLY
4	SB	FR RH WHEEL SENSOR SIGNAL
5	V	BRAKE VACUUM SENSOR POWER SUPPLY
8	P	FR LH WHEEL SENSOR SIGNAL
9	Y	INHIBIT CONTROL SWITCH SIGNAL
12	LG	BRAKE VACUUM SENSOR SIGNAL
13	B	GROUND (MOTOR)
14	P	CANL

15	BR	VDC OFF SWITCH SIGNAL
16	R	FR RH WHEEL SENSOR POWER SUPPLY
17	Y	RR RH WHEEL SENSOR POWER SUPPLY
18	G	RR LH WHEEL SENSOR SIGNAL
19	W	FR LH WHEEL SENSOR POWER SUPPLY
24	SHIELD	BRAKE VACUUM SENSOR GROUND
25	BR	VALVE POWER SUPPLY
26	L	CANH
28	GR	IGNITION POWER SUPPLY
29	LG	RR RH WHEEL SENSOR SIGNAL
31	BR	RR LH WHEEL SENSOR POWER SUPPLY
38	B	GROUND (VALVE)

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



Terminal No.	Wire	Signal Name [Specification]
2	W	-
5	V	- [Without ISS]
5	W	- [With ISS]
8	L	-
9	LG	-
10	W	-
20	W	-
21	B	-
22	SHIELD	-
31	Y	-
32	W	-
33	SB	-
34	LG	-
35	BG	-
36	LG	-
37	V	-
38	G	-
39	BR	-
40	B	-
41	P	-
47	GR	-
48	SB	-

AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 1]

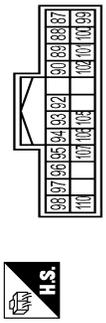
AUTOMATIC BACK DOOR SYSTEM

51	P	-	-	-	-
52	L	-	-	-	-
53	W	-	-	-	-
54	Y	-	-	-	-
55	BR	-	-	-	-
56	P	-	-	-	-
57	B	-	-	-	-
58	L	-	-	-	-
59	W	-	-	-	-
60	G	-	-	-	-
61	BR	-	-	-	-
62	V	-	-	-	-
63	BR	-	-	-	-
64	GR	-	-	-	-
65	LG	-	-	-	-
66	BG	-	-	-	-
67	R	-	-	-	-
68	R	-	-	-	-
71	V	-	-	-	-
72	L	-	-	-	-
73	R	-	-	-	-
76	L	-	-	-	-
77	V	-	-	-	-
78	LG	-	-	-	-
79	SHIELD	-	-	-	-
80	GR	-	-	-	-
82	Y	-	-	-	-
83	SB	-	-	-	-
84	L	-	-	-	-
85	G	-	-	-	-
86	Y	-	-	-	-
87	B	-	-	-	-
88	B	-	-	-	-
91	R	-	-	-	-
92	BR	-	-	-	-
93	W	-	-	-	-
96	GR	-	-	-	-
97	R	-	-	-	-
98	V	-	-	-	-
99	Y	-	-	-	-

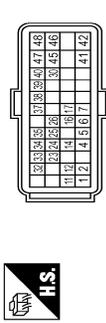
Connector No.	F23
Connector Name	TCM
Connector Type	RH40FB-RZ2L-RH



Connector No.	F74
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH24FB-NH



Connector No.	F119
Connector Name	TCM
Connector Type	RH40FB-RZ2L-LH



Terminal No.	Color	Wire	Signal Name [Specification]
2	GR	Y	-
4	Y	-	-
5	BR	-	D RANGE SWITCH
6	R	-	N RANGE SWITCH
7	G	-	P RANGE SWITCH
11	LG	-	SENSOR GROUND
12	BR	-	CVT FLUID TEMPERATURE SENSOR
16	SB	-	SECONDARY PRESSURE SENSOR
17	R	-	PRIMARY PRESSURE SENSOR
23	P	-	CANL
24	LG	-	INPUT SPEED SENSOR
26	BG	-	LINE PRESSURE SOLENOID VALVE
30	GR	-	PRIMARY SPEED SENSOR
34	W	-	OUTPUT SPEED SENSOR
35	GR	-	SELECT SOLENOID VALVE
37	Y	-	TORQUE CONVERTER CLUTCH SOLENOID VALVE
38	G	-	SECONDARY PRESSURE SOLENOID VALVE
39	W	-	PRIMARY PRESSURE SOLENOID VALVE
40	V	-	GROUND
41	B	-	GROUND
42	B	-	GROUND
45	V	-	BATTERY POWER SUPPLY
46	V	-	BATTERY POWER SUPPLY
47	BG	-	IGNITION POWER SUPPLY
48	BG	-	IGNITION POWER SUPPLY

Terminal No.	Color	Wire	Signal Name [Specification]
87	L	-	-
88	P	-	-
89	W	-	-
90	R	-	-
92	GR	-	-
93	G	-	- [With R30L Engine]
94	SB	-	- [With M120 or CH23 Engine]
95	LG	-	-
96	W	-	-
97	P	-	-
98	Y	-	-
99	BG	-	-
100	LG	-	-
101	V	-	-
102	Y	-	-
105	W	-	-
106	BR	-	-
107	V	-	-
110	SB	-	-

Terminal No.	Color	Wire	Signal Name [Specification]
1	P	-	ELECTRIC OIL PUMP RELAY
2	GR	-	-
4	Y	-	D RANGE SWITCH
5	BR	-	N RANGE SWITCH
6	G	-	P RANGE SWITCH
7	V	-	-
11	LG	-	SENSOR GROUND
12	BR	-	CVT FLUID TEMPERATURE SENSOR
14	V	-	G SENSOR
16	SB	-	SECONDARY PRESSURE SENSOR
17	R	-	PRIMARY PRESSURE SENSOR
23	P	-	CANL
24	LG	-	INPUT SPEED SENSOR
25	R	-	ELECTRIC OIL PUMP COMMAND SIGNAL
26	BG	-	SENSOR POWER SUPPLY
30	GR	-	LINE PRESSURE SOLENOID VALVE
32	SB	-	ELECTRIC OIL PUMP STATUS SIGNAL
33	L	-	CANH
34	W	-	OUTPUT SPEED SENSOR
35	GR	-	PRIMARY SPEED SENSOR
37	Y	-	SELECT SOLENOID VALVE
38	G	-	TORQUE CONVERTER CLUTCH SOLENOID VALVE
39	W	-	SECONDARY PRESSURE SOLENOID VALVE
40	V	-	PRIMARY PRESSURE SOLENOID VALVE
41	B	-	GROUND
42	B	-	GROUND
45	V	-	BATTERY POWER SUPPLY
46	V	-	BATTERY POWER SUPPLY
47	BG	-	IGNITION POWER SUPPLY
48	BG	-	IGNITION POWER SUPPLY

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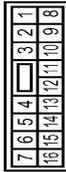
AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 1]

AUTOMATIC BACK DOOR SYSTEM

Connector No.	F121
Connector Name	WIRE TO WIRE
Connector Type	NS16FBRCS



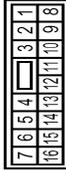
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	- [With MR20 or QR25 engine]
1	P	- [With RSM engine]
2	BR	- [With QR25 engine]
2	GR	- [With MR20 engine]
2	Y	- [With RSM engine]
3	G	-
4	BG	-
5	B	- [With MR20 engine]
5	L	- [With RSM engine]
5	LG	- [With QR25 engine]
6	V	-
7	G	-
8	V	- [With MR20 engine or RSM engine]
8	W	- [With QR25 engine]
9	B	- [With MR20 engine]
9	W	- [With RSM engine]
10	BR	-
11	P	- [Without ISS]
11	R	- [With ISS]
12	G	- [With QR25 engine]
12	L	- [With RSM engine]
13	R	- [With RSM engine]
13	Y	- [With MR20 or QR25 engine]
15	L	-
16	LG	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH22FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	V	-
3	SB	-
4	BR	-
5	L	-
6	Y	-
7	LG	-
8	BG	-
9	W	-
10	Y	-
11	R	-
12	SB	-
13	LG	-
14	V	-
15	SB	-
16	Y	-
17	LABR	-
18	LAL	-
20	BG	-
21	BG	-
22	GR	-
23	GR	-
24	P	-
25	L	-
26	BR	-
29	SHIELD	-
30	W	-
31	B	-
32	R	-

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	Y	-
5	W	-
6	L/AG	-
7	B	-
8	BR	-
9	G	-
10	R	-
11	LG	-
12	GR	-
13	BR	-
14	LAL	-
15	LABR	-
16	GR	-

47	SB	AV COMMUNICATION SIGNAL (H)
48	LG	AV COMMUNICATION SIGNAL (L)
49	Y	OIL LEVEL SENSOR SIGNAL
50	BG	OIL LEVEL SENSOR SIGNAL
51	LAL	FUEL LEVEL SENSOR SIGNAL
52	B	GROUND

Connector No.	M54
Connector Name	AUTOMATIC BACK DOOR MAIN SWITCH
Connector Type	TH10FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	B	-
3	B	-
4	R	-

Connector No.	M58
Connector Name	AUTOMATIC BACK DOOR SWITCH
Connector Type	TH08FG-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	B	-
3	R	-
4	B	-

AUTOMATIC BACK DOOR SYSTEM

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH22FM-NH



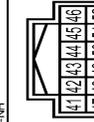
Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	V	-
3	SB	-
4	BR	-
5	L	-
6	Y	-
7	LG	-
8	BG	-
9	W	-
10	Y	-
11	R	-
12	SB	-
13	LG	-
14	V	-
15	SB	-
16	Y	-
17	LABR	-
18	LAL	-
20	BG	-
21	BG	-
22	GR	-
23	GR	-
24	P	-
25	L	-
26	BR	-
29	SHIELD	-
30	W	-
31	B	-
32	R	-

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	Y	-
5	W	-
6	L/AG	-
7	B	-
8	BR	-
9	G	-
10	R	-
11	LG	-
12	GR	-
13	BR	-
14	LAL	-
15	LABR	-
16	GR	-

Connector No.	M42
Connector Name	COMBINATION METER
Connector Type	TH12FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	L	CANH
42	P	CANL
43	W	ILLUMINATION CONTROL SIGNAL
44	L/AB	FUEL LEVEL SENSOR GROUND
45	L/AG	BATTERY POWER SUPPLY
46	LABR	IGNITION SIGNAL [Without ISS]
46	V	IGNITION SIGNAL [With ISS]

JRKWD4439GB

AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 1]

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AUTOMATIC BACK DOOR SYSTEM

Connector No.	M70
Connector Name	CIRCUIT BREAKER
Connector Type	MD2FW-PLC



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

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal Color Of No.	Wire	Signal Name [Specification]
2	LA/R	-
5	V	- [Without ISS]
8	G	- [With ISS]
9	Y	-
10	R	-
20	W	-
21	B	-
22	SHIELD	-
31	V	-
32	GR	-
33	G	-
34	LG	-
35	EG	-
36	LG	-
37	V	-
38	G	-
39	BR	-

40	L	-
41	P	-
47	Y	-
48	BG	-
51	GR	-
52	SB	-
53	R	-
54	LAL	-
55	BR	-
56	P	-
57	B	-
58	L	-
59	W	-
60	LA/R	-
61	P	-
62	V	-
63	LA/R	-
64	V	-
66	GR	-
66	BG	-
67	L	-
68	R	-
71	V	-
72	L	-
73	Y	-
76	L	-
77	V	-
78	LG	-
79	SHIELD	-
80	L	- [With ISS]
80	LAL	- [Without ISS]
82	GR	-
83	LG	-
84	SB	-
85	G	-
86	G	-
87	B	-
88	B	-
91	L	-
92	W	-
93	W	-
96	LG	-
97	BR	-
98	V	-
99	R	-

DLK

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[TYPE 1]

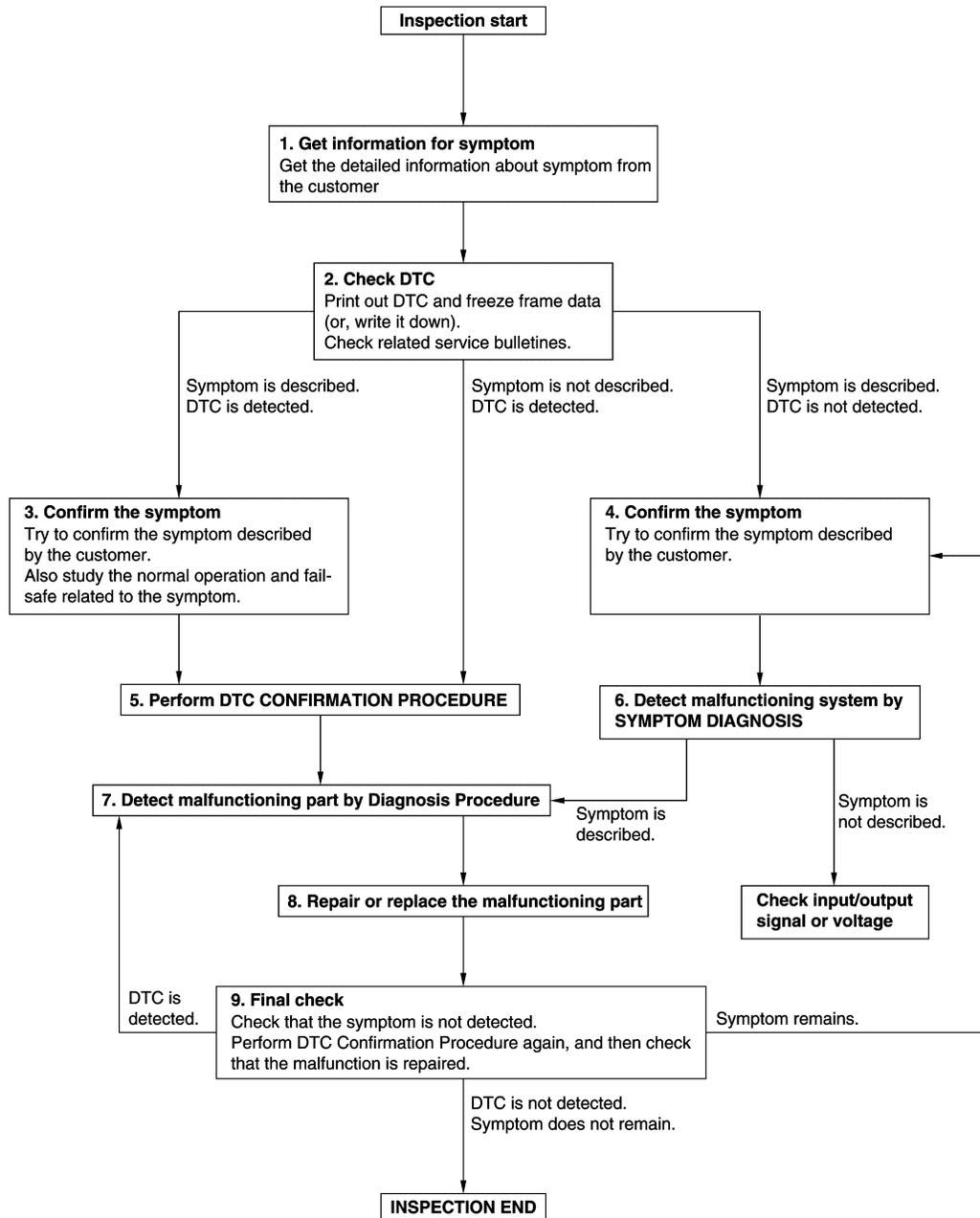
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000010708068

OVERALL SEQUENCE



DETAILED FLOW

JMKIA8652GB

DIAGNOSIS AND REPAIR WORK FLOW

[TYPE 1]

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2.CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.
 - Record DTC and freeze frame data (print them out using CONSULT).
 - 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.

Are any symptoms described or 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.
Also study the normal operation and fail-safe related to the symptom.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.
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 detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check diagnostic results in real time. If two or more DTCs are detected, refer to [BCS-77. "DTC Inspection Priority Chart"](#) (BCM) or [DLK-88. "DTC Inspection Priority Chart"](#) (automatic back door control unit), and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.
If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

- YES >> GO TO 7.
- NO >> Refer to [GI-44. "Intermittent Incident"](#).

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

IS the symptom described?

- YES >> GO TO 7.
- NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

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DIAGNOSIS AND REPAIR WORK FLOW

[TYPE 1]

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-44. "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is completely repaired.

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

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

< BASIC INSPECTION >

[TYPE 1]

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

Description

INFOID:000000010708069

When the battery is disconnected from the negative terminal, it is necessary to perform initial setting to operate automatic back door control system normally. Refer to [DLK-117, "Work Procedure"](#).

Work Procedure

INFOID:000000010708070

1. INITIALIZATION

1. Fully close the back door manually. (When back door is already fully closed, this operation is not necessary)
2. Perform automatic back door open/close operation of back door.
3. Check for noise or malfunctioning during operation.
4. Check automatic back door warning buzzer operates.

NOTE:

Never touch back door, or allow foreign materials to be pinched in back door, when performing automatic back door open/close operation of back door, until it is in the fully closed or fully open position.

>> WORK END

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ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL UNIT

< BASIC INSPECTION >

[TYPE 1]

ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL UNIT

Description

INFOID:000000010708071

When replacing automatic back door control unit, or removing connector terminal, it is necessary to perform initial setting to operate automatic back door system normally. Refer to [DLK-116, "Work Procedure"](#).

Work Procedure

INFOID:000000010708072

1.STEP 1

1. Select "AUTO BACK DOOR" using CONSULT.
2. Select "RESET AUTO BACK DOOR STATUS" of "WORK SUPPORT" mode.
3. Touch "Start" to erase automatic back door position information.

>> GO TO 2.

2.STEP 2

Fully close the back door manually.

>> GO TO 3.

3.STEP 3

Operate back door opener switch and perform automatic back door open operation.

>> GO TO 4.

4.STEP 4

1. The back door fully opens.
2. Check that automatic back door warning buzzer sounds normally.

Does automatic back door warning buzzer sound normally?

YES >> GO TO 5.

NO >> GO TO 2.

5.STEP 5

Fully close the back door.

>> WORK END

CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

< BASIC INSPECTION >

[TYPE 1]

CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

Description

INFOID:000000010708073

When the following work is performed, it is necessary to perform initial setting of automatic back door position information to operate automatic back door system.

- After removing and installing, or replacing automatic back door control unit
- After removing and installing, or replacing back door assembly
- After removing and installing, or replacing spindle unit

Work Procedure

INFOID:000000010708074

1.STEP 1

1. Select "AUTO BACK DOOR" using CONSULT.
2. Select "RESET AUTO BACK DOOR STATUS" of "WORK SUPPORT" mode.
3. Touch "Start" to erase automatic back door position information.

>> GO TO 2.

2.STEP 2

Fully close the back door manually.

>> GO TO 3.

3.STEP 3

Operate back door opener switch and perform automatic open operation.

>> GO TO 4.

4.STEP 4

1. The back door fully opens.
2. Check that automatic back door warning buzzer sounds normally.

Does automatic back door warning buzzer sound normally?

YES >> GO TO 5.

NO >> GO TO 2.

5.STEP 5

Fully close the back door.

>> WORK END

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B2401 IGNITION POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

DTC/CIRCUIT DIAGNOSIS

B2401 IGNITION POWER SUPPLY CIRCUIT

DTC Description

INFOID:0000000010708075

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2401	IGN OPEN (Ignition open)	Automatic back door control unit cannot detect ignition switch ON signal via CAN communication with BCM

POSSIBLE CAUSE

- CAN communication system
- BCM
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-118, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000010708076

1.CHECK DTC PRIORITY

If DTC B2401 is displayed with DTC U1000 or U1010, first perform the trouble diagnosis for DTC U1000 or U1010.

Is applicable DTC detected?

- YES >> U1000: Refer to [DLK-155, "DTC Description"](#). U1010: Refer to [DLK-156, "DTC Description"](#).
NO >> GO TO 2.

2.CHECK DTC OF BCM AND IPDM E/R

Check DTC in "Self Diagnostic Result" mode of "BCM" and "IPDM E/R" using CONSULT.

Is DTC detected?

- YES >> Refer to [BCS-78, "DTC Index"](#) (BCM) or [PCS-38, "DTC Index"](#) (IPDM E/R).
NO >> GO TO 3.

3.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "IGN SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
IGN SW	Ignition switch (automatic back door control unit judgment)	ON
		OFF

B2401 IGNITION POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Monitor item	Condition	Status
IGN SW	Ignition switch (IPDM E/R judgment)	ON
		OFF

Is the inspection result normal?

YES >> GO TO 4.

NO-1 >> Automatic back door control unit NG: Replace automatic back door control unit, refer to [DLK-327, "Removal and Installation"](#).

NO-2 >> IPDM E/R NG: Replace BCM, refer to [BCS-121, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

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B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

B2409 HALF LATCH SWITCH

DTC Description

INFOID:000000010708077

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2409	HALF LATCH SW (Half latch switch)	Automatic back door control unit detects a malfunction of half latch switch during automatic operation of back door

POSSIBLE CAUSE

- Entry of foreign materials to back door lock assembly
- Back door mechanism
- Half latch switch
- Harness or connectors (half latch switch circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-120, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708078

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace the malfunction parts.

3.CHECK HALF LATCH SWITCH MONITOR ITEM

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "HALF LATCH SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
HALF LATCH SW	Back door	Fully closed
		Open
		OFF
		ON

Is the inspection result normal?

- YES >> GO TO 7.

B2409 HALF LATCH SWITCH

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 4.

4. CHECK HALF LATCH SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal		
D172	6	Ground	12 V

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	3	D172	6	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	3		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

NO >> Repair or replace harness.

6. CHECK HALF LATCH SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D172	8		Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunction parts.

8. REPLACE BACK DOOR LOCK ASSEMBLY

1. Replace back door lock assembly. Refer to [DLK-312, "DOOR LOCK : Removal and Installation"](#).
2. Erase DTC.
3. Perform DTC CONFIRMATION PROCEDURE for DTC 2409. Refer to [DLK-120, "DTC Description"](#).

Is the inspection result normal?

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B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

YES >> INSPECTION END

NO >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

B2416 TOUCH SENSOR RH

DTC Description

INFOID:000000010708079

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2416	TOUCH SEN R OPEN (Touch sensor right open)	Automatic back door control unit detects a malfunction of touch sensor RH during automatic operation of back door

POSSIBLE CAUSE

- Improper installation of touch sensor
- Touch sensor RH
- Harness or connectors (touch sensor circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-123, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708080

1. CHECK INSTALLATION OF TOUCH SENSOR RH

Check that touch sensor RH is installed normally.
Refer to [DLK-315, "TOUCH SENSOR : Removal and Installation"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Refer to [DLK-315, "TOUCH SENSOR : Removal and Installation"](#).

2. CHECK TOUCH SENSOR MONITOR ITEM

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "TOUCH SEN RH" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
TOUCH SEN RH	Touch sensor RH	Other than below
		Detect obstruction
		OFF
		ON

Is the inspection result normal?

- YES >> GO TO 6.
NO >> GO TO 3.

3. CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between touch sensor RH harness connector and automatic back door control unit harness connector.

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

(+)		(-)	Voltage (Approx.)
Touch sensor RH			
Connector	Terminal		
D175	1	Ground	6.1 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK TOUCH SENSOR RH CIRCUIT

1. Disconnect automatic back door control unit and touch sensor RH connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor RH harness connector.

Automatic back door control unit		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B24	1	D175	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	1		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).

NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR RH GROND CIRCUIT

1. Disconnect automatic back door control unit and each touch sensor connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor RH harness connector.

Automatic back door control unit		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B24	13	D175	2	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	13		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK TOUCH SENSOR RH

Refer to [DLK-125. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace touch sensor RH.

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Component Inspection

INFOID:000000010708081

1. CHECK TOUCH SENSOR RH

1. Turn ignition switch OFF.
2. Disconnect touch sensor RH connector.
3. Check resistance between touch sensor RH terminals.

Touch sensor RH		Condition		Resistance (Approx.)
Terminal				
1	2	Touch sensor RH	Detect obstruction	380 – 420 kΩ
			Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace touch sensor RH.

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B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

B2417 TOUCH SENSOR LH

DTC Description

INFOID:000000010708082

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2417	TOUCH SEN L OPEN (Touch sensor left open)	Automatic back door control unit detects a malfunction of touch sensor LH during automatic operation of back door

POSSIBLE CAUSE

- Improper installation of touch sensor
- Touch sensor LH
- Harness or connectors (touch sensor circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-126, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708083

1. CHECK INSTALLATION OF TOUCH SENSOR LH

Check that touch sensor LH is installed normally.
Refer to [DLK-315, "TOUCH SENSOR : Removal and Installation"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Refer to [DLK-315, "TOUCH SENSOR : Removal and Installation"](#).

2. CHECK TOUCH SENSOR MONITOR ITEM

1. Select "AUTO BACK DOOR" using CONSULT.
2. Select "TOUCH SEN LH" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
TOUCH SEN LH	Touch sensor LH	Other than below
		Detect obstruction
		OFF
		ON

Is the inspection result normal?

- YES >> GO TO 6.
NO >> GO TO 3.

3. CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between touch sensor LH harness connector and automatic back door control unit harness connector.

B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

(+)		(-)	Voltage (Approx.)
Touch sensor LH			
Connector	Terminal		
D174	1	Ground	6.1 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK TOUCH SENSOR LH CIRCUIT

1. Disconnect automatic back door control unit and touch sensor LH connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor LH harness connector.

Automatic back door control unit		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B24	2	D174	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	2		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).

NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR LH GROND CIRCUIT

1. Disconnect automatic back door control unit and each touch sensor connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor LH harness connector.

Automatic back door control unit		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B24	13	D174	2	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	13		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK TOUCH SENSOR LH

Refer to [DLK-125. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace touch sensor LH.

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

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B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Component Inspection

INFOID:000000010708084

1. CHECK TOUCH SENSOR LH

1. Turn ignition switch OFF.
2. Disconnect touch sensor LH connector.
3. Check resistance between touch sensor LH terminals.

Touch sensor LH		Condition	Resistance (Approx.)	
Terminal				
1	2	Touch sensor LH	Detect obstruction	380 – 420 kΩ
			Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace touch sensor LH.

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

B2419 OPEN SWITCH

DTC Description

INFOID:000000010708085

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2419	OPEN SW (Open switch)	Automatic back door control unit detects a malfunction of open switch during automatic operation of back door

POSSIBLE CAUSE

- Entry of foreign materials to back door lock assembly
- Back door mechanism
- Open switch
- Harness or connectors (open switch circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-129, "Diagnosis Procedure"](#).
 NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
 NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708086

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

- YES >> GO TO 2.
 NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

- YES >> GO TO 3.
 NO >> Repair or replace the malfunctioning parts.

3.CHECK OPEN SWITCH SIGNAL

1. Select "AUTO BACK DOOR" using CONSULT.
2. Select "OPEN SW" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
OPEN SW	Back door	Closure operation	ON
		Other than above	OFF

Is the inspection result normal?

- YES >> GO TO 7.
 NO >> GO TO 4.

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B2419 OPEN SWITCH

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK OPEN SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal		
D172	4	Ground	12.2 V

Is the inspection result normal?

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

5. CHECK OPEN SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	11	D172	4	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	11		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).
NO >> Repair or replace harness.

6. CHECK OPEN SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D172	8		Existed

Is the inspection result normal?

- YES >> GO TO 7.
NO >> Repair or replace harness.

7. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> GO TO 8.
NO >> Repair or replace harness.

8. REPLACE BACK DOOR LOCK ASSEMBLY

1. Replace back door lock assembly. Refer to [DLK-312, "DOOR LOCK : Removal and Installation"](#).
2. Erase DTC.
3. Perform DTC CONFIRMATION PROCEDURE for DTC 2419.
Refer to [DLK-129, "DTC Description"](#).

Is the inspection result normal?

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

YES >> INSPECTION END

NO >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

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B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

B2420 CLOSE SWITCH

DTC Description

INFOID:000000010708087

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2420	CLOSE SW (Close switch)	Automatic back door control unit detects a malfunction of close switch during automatic operation of back door

POSSIBLE CAUSE

- Entry of foreign materials to back door lock assembly
- Back door mechanism
- Close switch
- Harness or connectors (close switch circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-132, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708088

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK CLOSE SWITCH SIGNAL

1. Select "AUTO BACK DOOR" using CONSULT.
2. Select "CLOSE SW" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
CLOSE SW	Back door	Closure operation ON
		Other than above OFF

Is the inspection result normal?

- YES >> GO TO 7.
NO >> GO TO 4.

4.CHECK CLOSE SWITCH INPUT SIGNAL

B2420 CLOSE SWITCH

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal		
D172	5	Ground	12.2 V

Is the inspection result normal?

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

5.CHECK CLOSE SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	5	D172	5	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	5		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).
NO >> Repair or replace harness.

6.CHECK CLOSE SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D172	8		Existed

Is the inspection result normal?

- YES >> GO TO 7.
NO >> Repair or replace harness.

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> GO TO 8.
NO >> Repair or replace harness.

8.REPLACE BACK DOOR LOCK ASSEMBLY

1. Replace back door lock assembly. Refer to [DLK-312, "DOOR LOCK : Removal and Installation"](#).
2. Erase DTC.
3. Perform DTC CONFIRMATION PROCEDURE for DTC 2420.
Refer to [DLK-132, "DTC Description"](#).

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

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B2422 BACK DOOR STATE

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

B2422 BACK DOOR STATE

DTC Description

INFOID:000000010708089

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2422	BACK DOOR STATE (Back door state)	When the automatic back door control unit detects back door position malfunction according to the pulse signal

POSSIBLE CAUSE

- Improper installation of back door assembly
- [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete
- Back door mechanism
- Encoder
- Harness or connectors (encoder circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-134, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708090

1.CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

1. Perform initialization setting of automatic back door position information.
Refer to [DLK-117, "Work Procedure"](#).
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
NO >> INSPECTION END

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

1. Check that back door assembly is installed normally.
Refer to [DLK-293, "BACK DOOR ASSEMBLY : Adjustment"](#).
2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK ENCODER SIGNAL

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "SPINDLE SENSOR LH" and "SPINDLE SENSOR RH" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Monitor item	Status
SPINDLE SENSOR LH	0 – 1000
SPINDLE SENSOR RH	0 – 1000

Is the difference between the 2 monitor items 10 or more?

YES >> GO TO 7.

NO >> GO TO 4.

4.CHECK ENCODER POWER SUPPLY

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

(+)		Spindle unit	(-)	Voltage (Approx.)
Connector	Terminal			
LH	B38	3	Ground	12.7 V
RH	B29			12.3 V

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK ENCODER CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit harness connector.

Automatic back door control unit		Spindle unit		Continuity
Connector	Terminal	Connector	Terminal	
B24	19	LH	B38	Existed
	20	RH	B29	

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	19		Not existed
	20		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK ENCODER CIRCUIT 2

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit harness connector.

Automatic back door control unit		Spindle unit		Continuity
Connector	Terminal	Connector	Terminal	
B24	21	LH	B38	Existed
		RH	B29	

3. Check continuity between automatic back door control unit harness connector and ground.

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	21		Not existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

DTC Description

INFOID:000000010708091

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2423	ABD MTR TIME OUT (Automatic back door motor time out)	When the automatic back door control unit and spindle motor operate in the same direction for 180 seconds or more continuously

POSSIBLE CAUSE

- Spindle motor
- Harness or connectors (circuit is shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-137. "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44. "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708092

1.ERASE DTC

1. At least 180 seconds are passed after automatic back door operation is inhibited.
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
NO >> INSPECTION END

2.CHECK SPINDLE MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic back door control unit and spindle unit connector.
3. Check continuity between automatic back door control unit harness connector and spindle unit harness connector.

Automatic back door control unit		Spindle unit			Continuity
Connector	Terminal	Connector	Terminal		
B25	27	LH	B38	1	Existed
	34			2	
	29	RH	B29	1	
	36			2	

4. Check continuity between automatic back door control unit harness connector and ground.

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B25	27		Not existed
	29		
	34		
	36		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.REPLACE SPINDLE UNIT LH

1. Replace spindle unit LH.
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE SPINDLE UNIT RH

1. Replace spindle unit LH.
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> GO TO 5.

NO >> INSPECTION END

5.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door unit.
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

NO >> INSPECTION END

B2426 ENCODER

DTC Description

INFOID:000000010708093

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2426	SPINDLE SENSOR LH (Spindle sensor left handle)	When the automatic back door control unit can not receive the pulse signal from the encoder just after starting the open/close operation

POSSIBLE CAUSE

- Improper installation of back door assembly
- [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete
- Back door mechanism
- Encoder
- Harness or connectors (encoder circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-139, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708094

1. CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

1. Perform initialization setting of automatic back door position information.
Refer to [DLK-117, "Work Procedure"](#).
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
- NO >> INSPECTION END

2. CHECK INSTALLATION OF BACK DOOR ASSEMBLY

1. Check that back door assembly is installed normally.
Refer to [DLK-293, "BACK DOOR ASSEMBLY : Adjustment"](#).
2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3. CHECK ENCODER SIGNAL

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "SPINDLE LH ENCODER A" and "SPINDLE LH ENCODER B" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

B2426 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Monitor item	Condition		Status
SPINDLE LH ENCODER A	Back door	Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO
SPINDLE LH ENCODER B		Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 4.

4. CHECK ENCODER POWER SUPPLY

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

(+)		(-)	Voltage (Approx.)
Spindle unit LH			
Connector	Terminal		
B38	3	Ground	12.7 V

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK ENCODER CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit LH harness connector.

Automatic back door control unit		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B24	19	B38	3	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	19		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

NO >> Repair or replace harness.

6. CHECK ENCODER CIRCUIT 2

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit LH harness connector.

Automatic back door control unit		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B24	21	B38	6	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

B2426 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	21		Not existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

8. REPLACE SPINDLE UNIT

1. Replace spindle unit
2. Erase DTC.
3. Perform DTC confirmation procedure for DTC 2426. Refer to [DLK-139, "DTC Description"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

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B2427 ENCODER**DTC Description**

INFOID:000000010708095

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2427	SPINDLE SENSOR RH (Spindle sensor right handle)	When the automatic back door control unit can not receive the pulse signal from the encoder just after starting the open/close operation

POSSIBLE CAUSE

- Improper installation of back door assembly
- [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete
- Back door mechanism
- Encoder
- Harness or connectors (encoder circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE**1.PERFORM DTC CONFIRMATION PROCEDURE**

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-142, "Diagnosis Procedure"](#).
 NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
 NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708096

1.CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

1. Perform initialization setting of automatic back door position information.
Refer to [DLK-117, "Work Procedure"](#).
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
 NO >> INSPECTION END

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

1. Check that back door assembly is installed normally.
Refer to [DLK-293, "BACK DOOR ASSEMBLY : Adjustment"](#).
2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

- YES >> GO TO 3.
 NO >> Repair or replace the malfunctioning parts.

3.CHECK ENCODER SIGNAL

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "SPINDLE RH ENCODER A" and "SPINDLE RH ENCODER B" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

B2427 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Monitor item	Condition		Status
SPINDLE RH ENCODER A	Back door	Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO
SPINDLE RH ENCODER B		Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

4.CHECK ENCODER POWER SUPPLY

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

(+)		(-)	Voltage (Approx.)
Spindle unit RH			
Connector	Terminal		
B29	3	Ground	12.3 V

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK ENCODER CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit RH harness connector.

Automatic back door control unit		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B24	20	B29	3	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	20		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK ENCODER CIRCUIT 2

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit RH harness connector.

Automatic back door control unit		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B24	21	B29	6	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

B2427 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	21		Not existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

8. REPLACE SPINDLE UNIT

1. Replace spindle unit
2. Erase DTC.
3. Perform DTC confirmation procedure for DTC 2427. Refer to [DLK-142, "DTC Description"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

B2428 AUTOMATIC BACK DOOR CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

B2428 AUTOMATIC BACK DOOR CONTROL UNIT

DTC Description

INFOID:000000010708097

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2428	AUTO BACK DR CNT UNIT (Auto back door control unit)	Automatic back door control unit detected CPU malfunction

POSSIBLE CAUSE

Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-145. "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-44. "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708098

1.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

When DTC B2428 is detected, replace automatic back door control unit.

>> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).

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B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

B242A CLOSURE CONDITION

DTC Description

INFOID:000000010708099

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B242A	CLSR CONDITION (Closure condition)	Automatic back door control unit detects malfunctions of open switch, close switch and half latch switch when auto closure of back door operates

POSSIBLE CAUSE

- Entry of foreign materials to back door lock assembly
- Back door mechanism
- Close switch
- Half latch switch
- Open switch
- Harness or connectors (open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate back door auto closure operation.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-146, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708100

1. CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Remove foreign materials.

2. CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CHECK MONITOR ITEM

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "HALF LATCH SW", "OPEN SW" and "CLOSE SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Monitor item	Condition	Status
HALF LATCH SW	Fully closed	OFF
	Open	ON
OPEN SW	Closure operation	ON
	Other than above	OFF
CLOSE SW	Closure operation	ON
	Other than above	OFF

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 4.

4.CHECK SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect back door lock assembly connector.
- Check voltage between back door lock assembly harness connector and ground.

(+)		(-)	Voltage (Approx.)		
Back door lock assembly					
Connector	Terminal	Ground			
D172	4				12.2 V
	5				12.2 V
	6		12 V		

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK SWITCH CIRCUIT

- Disconnect automatic back door control unit connector.
- Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	3	D172	6	Existed
	5		5	
	11		4	

- Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	3		Not existed
	5		
	11		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK SWITCH GROUND CIRCUIT

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

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Back door lock assembly		Ground	Continuity
Connector	Terminal		Existed
D172	8		

Is the inspection result normal?

YES >> GO TO 7.

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

7. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace harness.

8. REPLACE BACK DOOR LOCK ASSEMBLY

1. Replace back door lock assembly.
2. Erase DTC.
3. Perform DTC confirmation procedure for DTC 242A. Refer to [DLK-146, "DTC Description"](#).

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

B2621 INSIDE ANTENNA

DTC Description

INFOID:000000010708103

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2621-00	INSIDE ANTENNA (Inside antenna)	An excessive high or low voltage from inside key antenna (instrument center) is sent to BCM.

POSSIBLE CAUSE

- BCM
- Inside key antenna (instrument center)
- Harness or connector [inside key antenna (instrument center) circuit is open or shorted]

FAIL-SAFE

-

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
3. Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "WORK SUPPORT" of "INTELLIGENT KEY".
4. Check BCM for DTC.

Is inside key antenna DTC detected?

- YES >> Refer to [DLK-149, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708104

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

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B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M86	116	Ground	When Intelligent Key is not in the antenna detection area	<p>JMMIA1652GB</p>
			When Intelligent Key is in the antenna detection area	<p>JMMIA1653GB</p>
	117		When Intelligent Key is not in the antenna detection area	<p>JSMIA1348GB</p>
			When Intelligent Key is in the antenna detection area	<p>JSMIA1406GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).
- NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and inside key antenna (instrument center) connector.
3. Check continuity between BCM harness connector and inside key antenna (instrument center) harness connector.

BCM		Inside key antenna (instrument center)		Continuity
Connector	Terminal	Connector	Terminal	
M86	116	M17	2	Existed
	117		1	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	116		Ground
	117	Not existed	

B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Is the inspection result normal?

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

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M86	116	Ground	When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMMIA1652GB</p>
			When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMMIA1653GB</p>
	117		When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1348GB</p>
			When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1406GB</p>

Is the inspection result normal?

- YES >> Replace inside key antenna (instrument center).
- NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

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B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

B2622 INSIDE ANTENNA

DTC Description

INFOID:000000010708105

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detecting condition
B2622-00	INSIDE ANTENNA (Inside antenna)	An excessive high or low voltage from inside key antenna (luggage room) is sent to BCM

POSSIBLE CAUSE

- BCM
- Inside key antenna (luggage room)
- Harness or connector [inside key antenna (luggage room) circuit is open or shorted]

FAIL-SAFE

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DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
3. Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "WORK SUPPORT" of "INTELLIGENT KEY".
4. Check BCM for DTC.

Is inside key antenna DTC detected?

- YES >> Refer to [DLK-152, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708106

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
B47	22	Ground	Ignition switch ON and any door is open	When Intelli- gent Key is not in the antenna detection area
				When Intelli- gent Key is in the antenna detection area
	23			When Intelli- gent Key is not in the antenna detection area
				When Intelli- gent Key is in the antenna detection area

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Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
- NO >> GO TO 2.

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2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and inside key antenna (luggage room) connector.
3. Check continuity between BCM harness connector and inside key antenna (luggage room) harness connector.

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BCM		Inside key antenna (luggage room)		Continuity
Connector	Terminal	Connector	Terminal	
B47	22	B35	2	Existed
	23		1	

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4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B47	22		Not existed
	23		

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace inside key antenna (luggage room). (New antenna or other antenna)
2. Connect BCM connector and inside key antenna (luggage room) connector.
3. Turn ignition switch ON.
4. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)	
BCM					
Connector	Terminal				
B47	22	Ground	Ignition switch ON and any door is open	When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMMIA1652GB</p>
				When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMMIA1653GB</p>
	23			When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1507GB</p>
				When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1506GB</p>

Is the inspection result normal?

YES >> Replace inside key antenna (luggage room).

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

U1000 CAN COMM CIRCUIT

DTC Description

INFOID:000000010708107

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-41, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart"](#).

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
U1000	CAN COMM (CAN communication)	When automatic back door control unit cannot communicate CAN communication signal continuously for 2 seconds or more.

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn the ignition switch OFF.
2. Turn the ignition switch ON and wait for 2 seconds or more.
3. Check "Self Diagnostic Result" of "AUTO BACK DOOR".

s DTC "U1000" displayed?

- YES >> Refer to [DLK-155, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708108

1.PERFORM SELF DIAGNOSTIC

1. Turn the ignition switch OFF.
2. Turn the ignition switch ON and wait for 2 seconds or more.
3. Check "Self Diagnostic Result" of "AUTO BACK DOOR".

s DTC "U1000" displayed?

- YES >> Refer to [LAN-17, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to [GI-44, "Intermittent Incident"](#).

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U1010 CONTROL UNIT (CAN)

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Description

INFOID:000000010708109

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
U1010	CONTROL UNIT (CAN) [Control unit (CAN)]	Automatic back door control unit detected internal CAN communication circuit malfunction

POSSIBLE CAUSE

Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn the ignition switch OFF.
2. Turn the ignition switch ON and wait for 2 seconds or more.
3. Check "Self Diagnostic Result" of "AUTO BACK DOOR".

s DTC "U1000" displayed?

- YES >> Refer to [DLK-156, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010708110

1. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

When DTC U1010 is detected, replace automatic back door control unit.

- >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

AUTOMATIC BACK DOOR CLOSE SWITCH

Component Function Check

INFOID:0000000010708111

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "BK DOOR CL SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
BK DOOR CL SW	Automatic back door close switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

- YES >> Automatic back door close switch is OK.
NO >> Refer to [DLK-157. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010708112

1.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect automatic back door close switch connector.
3. Check voltage between automatic back door close switch harness connector and ground.

(+)		(-)	Voltage (Approx.)
Connector	Terminal		
D173	1	Ground	12.6 V

Is the inspection result normal?

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

2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door close switch harness connector.

Automatic back door control unit		Automatic back door close switch		Continuity
Connector	Terminal	Connector	Terminal	
B24	23	D173	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	23		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH GROUND CIRCUIT

Check continuity between automatic back door close switch harness connector and ground.

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AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Automatic back door close switch		Ground	Continuity
Connector	Terminal		Existed
D173	2		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Refer to [DLK-158, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door close switch.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010708113

1.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

1. Turn ignition switch OFF.
2. Disconnect automatic back door close switch connector.
3. Check continuity between automatic back door close switch terminals.

Automatic back door close switch		Condition	Continuity	
Terminal			Existed	
1	2	Automatic back door close switch	Pressed	Existed
			Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door close switch.

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

AUTOMATIC BACK DOOR SWITCH

Component Function Check

INFOID:0000000010708114

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "AUTO BD SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
AUTO BD SW	Automatic back door switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

- YES >> Automatic back door switch is OK.
NO >> Refer to [DLK-159. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010708115

1.CHECK AUTOMATIC BACK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect automatic back door switch connector.
3. Check voltage between automatic back door switch harness connector and ground.

(+)		(-)	Voltage (Approx.)
Connector	Terminal		
M58	1	Ground	12.6 V

Is the inspection result normal?

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

2.CHECK AUTOMATIC BACK DOOR SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door switch harness connector.

Automatic back door control unit		Automatic back door switch		Continuity
Connector	Terminal	Connector	Terminal	
B24	22	M58	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	22		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR SWITCH GROUND CIRCUIT

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

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Automatic back door switch		Ground	Continuity
Connector	Terminal		Existed
M58	2		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR SWITCH

Refer to [DLK-160, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door switch.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010708116

1.CHECK AUTOMATIC BACK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect automatic back door switch connector.
3. Check continuity between automatic back door switch terminals.

Automatic back door switch		Condition	Continuity
Terminal			Existed
1	2	Automatic back door switch Pressed	Existed
		Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door switch.

AUTOMATIC DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

AUTOMATIC DOOR MAIN SWITCH

Component Function Check

INFOID:0000000010708117

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "MAIN SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
MAIN SW	Automatic door main switch	ON	ON
		OFF	OFF

Is the inspection result normal?

- YES >> Automatic door main switch is OK.
NO >> Refer to [DLK-161, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010708118

1.CHECK AUTOMATIC BACK DOOR MAIN SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect automatic back door main switch connector.
3. Check voltage between automatic back door main switch harness connector and ground.

(+)		(-)	Voltage (Approx.)
Connector	Terminal		
M54	1	Ground	12.2 V

Is the inspection result normal?

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

2.CHECK AUTOMATIC BACK DOOR MAIN SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door main switch harness connector.

Automatic back door control unit		Automatic back door main switch		Continuity
Connector	Terminal	Connector	Terminal	
B24	10	M54	1	Existed

3. Check continuity between automatic back door control unit connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	10		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR MAIN SWITCH GROUND CIRCUIT

Check continuity between automatic back door main switch connector and ground.

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AUTOMATIC DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Automatic back door main switch		Ground	Continuity
Connector	Terminal		Existed
M54	3		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Refer to [DLK-162. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door main switch.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010708119

1.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

1. Turn ignition switch OFF.
2. Disconnect automatic back door main switch connector.
3. Check continuity between automatic back door main switch terminals.

Automatic back door main switch		Condition	Continuity
Terminal			Existed
1	3	Automatic back door main switch ON	Existed
		Automatic back door main switch OFF	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door main switch.

AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

AUTOMATIC BACK DOOR WARNING BUZZER

Diagnosis Procedure

INFOID:000000010708120

1. CHECK AUTOMATIC BACK DOOR WARNING BUZZER POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic back door warning buzzer connector.
3. Check voltage between automatic back door warning buzzer harness connector and ground.

(+)		(-)	Voltage (Approx.)
Connector	Terminal		
B28	1	Ground	12 V

Is the inspection result normal?

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

2. CHECK AUTOMATIC BACK DOOR WARNING BUZZER OUTPUT SIGNAL CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door warning buzzer harness connector.

Automatic back door control unit		Automatic back door warning buzzer		Continuity
Connector	Terminal	Connector	Terminal	
B25	37	B28	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B25	37		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

Check continuity between automatic back door warning buzzer harness connector and ground.

Automatic back door warning buzzer		Ground	Continuity
Connector	Terminal		
B28	2		Existed

Is the inspection result normal?

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

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#)

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).
NO >> Repair or replace the malfunctioning parts.

Component Inspection

INFOID:000000010708121

1. CHECK AUTOMATIC BACK DOOR WARNING BUZZER

AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

1. Turn ignition switch OFF.
2. Disconnect automatic back door warning buzzer connector.
3. Check battery power supply directly to automatic back door warning buzzer terminals and check the operation.

Automatic back door warning buzzer		Operation
Terminal		
(+)	(-)	Buzzer sounds
1	2	

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace automatic back door warning buzzer.

BACK DOOR CLOSURE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

BACK DOOR CLOSURE MOTOR

Diagnosis Procedure

INFOID:000000010708122

1. CHECK BACK DOOR CLOSURE MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door lock assembly connector.
3. Turn ignition switch ON.
4. Check voltage between back door lock assembly harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)	
Back door lock assembly					
Connector	Terminal				
D172	1	Ground	Back door closure motor	Closure operation	13 V
				Other than above	0 V
	2			Closure operation	13 V
				Other than above	0 V

Is the inspection result normal?

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

2. CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B25	31	D172	1	Existed
	38		2	

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B25	31		Not existed
	38		

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR SWITCH

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR SWITCH

Component Function Check

INFOID:000000010708126

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR SW-BK" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-BK	Back door	Open	On
		Closed	Off

Is the inspection result normal?

- YES >> Back door switch is OK.
NO >> Refer to [DLK-166. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708127

1.CHECK BACK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door lock assembly connector.
3. Check signal between back door lock assembly harness connector and ground using oscilloscope.

(+)		(-)	Voltage
Back door lock assembly			
Connector	Terminal		
D172	7	Ground	9 – 16 V

Is the inspection result normal?

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

2.CHECK BACK DOOR SWITCH CIRCUIT

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

Back door lock assembly		BCM		Continuity
Connector	Terminal	Connector	Terminal	
D172	7	B47	11	Existed

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D172	7		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK BACK DOOR SWITCH GROUND CIRCUIT

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

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Back door lock assembly		Ground	Continuity
Connector	Terminal		Existed
D172	8		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR SWITCH

Refer to [DLK-167. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:0000000010708128

1.CHECK BACK DOOR SWITCH

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

Back door lock assembly		Condition	Continuity
Terminal			Existed
7	8	Back door lock	Lock
			Unlock
			Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

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BACK DOOR OPENER SWITCH

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPENER SWITCH

Component Function Check

INFOID:000000010708130

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "TRUNK" of "BCM" using CONSULT.
3. Select "BACK DOOR OPENER SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
BACK DOOR OPENER SW	Back door opener switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

- YES >> Back door opener switch is OK.
NO >> Refer to [DLK-168. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708131

1.CHECK BACK DOOR OPEN INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door opener switch assembly connector.
3. Check voltage between back door opener switch assembly harness connector and ground.

(+)		(-)	Voltage
Connector	Terminal		
D169	1	Ground	9 – 16 V

Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

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

BCM		Back door opener switch assembly		Continuity
Connector	Terminal	Connector	Terminal	
B47	16	D169	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B47	16		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Back door opener switch assembly		Ground	Continuity
Connector	Terminal		Existed
D169	2		

Is the inspection result normal?

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

4.CHECK BACK DOOR OPENER SWITCH

Refer to [DLK-169. "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Replace back door opener switch assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010708132

1.CHECK BACK DOOR OPENER SWITCH

1. Turn ignition switch OFF.
2. Disconnect back door opener switch assembly connector.
3. Check continuity between back door opener switch assembly terminals.

Back door opener switch assembly		Condition	Continuity
Terminal			Back door opener switch
1	2	Pressed	
		Released	Not existed

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace back door opener switch assembly.

DLK

BACK DOOR REQUEST SWITCH

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR REQUEST SWITCH

Description

INFOID:000000010708133

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:000000010708134

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
3. Select "REQ SW BD/TR" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
REQ SW -BD/TR	Back door request switch Pressed	ON
	Released	OFF

Is the inspection result normal?

- YES >> Back door request switch is OK.
NO >> Refer to [DLK-170. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708135

1.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door opener switch assembly connector.
3. Check voltage between back door opener switch assembly harness connector and ground.

(+)		(-)	Voltage
Back door opener switch assembly Connector	Terminal		
D169	4	Ground	9 – 16 V

Is the inspection result normal?

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

2.CHECK BACK DOOR REQUEST SWITCH CIRCUIT

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

BCM		Back door opener switch assembly		Continuity
Connector	Terminal	Connector	Terminal	
B47	6	D169	4	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B47	6		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK BACK DOOR REQUEST SWITCH GROUND CIRCUIT

BACK DOOR REQUEST SWITCH

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

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

Back door opener switch assembly		Ground	Continuity
Connector	Terminal		
D169	3		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR REQUEST SWITCH

Refer to [DLK-171, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010708136

1.CHECK BACK DOOR REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect back door opener switch assembly connector.
3. Check back door opener switch assembly terminals.

Back door opener switch assembly		Condition	Continuity
Terminal			
4	3	Back door opener request switch	Pressed Existed
			Released Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch assembly.

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CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

CLOSE SWITCH

Component Function Check

INFOID:000000010708137

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "CLOSE SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CLOSE SW	Back door	Closure operation	ON
		Other than above	OFF

Is the inspection result normal?

YES >> Close switch is OK.

NO >> Refer to [DLK-172. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708138

1.CHECK CLOSE SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal	Ground	12.2 V
D172	5		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK CLOSE SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	5	D172	5	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	5		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK CLOSE SWITCH GROUND CIRCUIT

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

CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Back door lock assembly		Ground	Continuity
Connector	Terminal		Existed
D172	8		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

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COMBINATION METER BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

COMBINATION METER BUZZER

Component Function Check

INFOID:000000010708139

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
3. Select "INSIDE BUZZER" in "ACTIVE TEST" mode.
4. Touch "Buzzer 1", "Buzzer 2" or "Buzzer 3" to check that it works normally.

Is the inspection result normal?

- Yes >> Combination meter buzzer is OK.
No >> Refer to [DLK-174, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708140

1.CHECK METER BUZZER CIRCUIT

Refer to [WCS-54, "Component Function Check"](#).

Is the inspection result normal?

- Yes >> GO TO 2.
No >> Repair or replace harness.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

DOOR LOCK ACTUATOR

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:000000010708141

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-175. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000010708142

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check voltage between front door lock assembly (driver side) harness connector and ground.

(+)		(-)	Condition	Voltage
Front door lock assembly (driver side)				
Connector	Terminal	Ground	Door lock and unlock switch	Lock Unlock
D35	4			
	5			

Is the inspection result normal?

YES >> Replace front door lock assembly (driver side).

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M85	141	D35	4	Existed
	148		5	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	141	Ground	Not existed
	148		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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

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DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

(+)		(-)	Condition	Voltage
BCM				
Connector	Terminal			
M85	141	Ground	Door lock and unlock switch	Lock
	148			Unlock
9 – 16 V				

Is the inspection result normal?

- YES >> Check for internal short of front door lock actuator.
 NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:000000010708143

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
 NO >> Refer to [DLK-176, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010708144

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (passenger side) connector.
3. Check voltage between front door lock assembly (passenger side) harness connector and ground.

(+)		(-)	Condition	Voltage
Front door lock assembly (passenger side)				
Connector	Terminal			
D73	2	Ground	Door lock and unlock switch	Unlock
	3			Lock
9 – 16 V				

Is the inspection result normal?

- YES >> Replace front door lock assembly (passenger side).
 NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M85	139	D73	2	Existed
	141		3	

3. Check continuity between BCM harness connector and ground.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

BCM		Ground	Continuity
Connector	Terminal		
M85	139		Not existed
	141		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition	Voltage
BCM				
Connector	Terminal			
M85	139	Ground	Door lock and unlock switch	Unlock
	141			Lock

Is the inspection result normal?

YES >> Check for internal short of front door lock actuator.

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

REAR LH

REAR LH : Component Function Check

INFOID:0000000010708145

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-177, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:0000000010708146

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly LH connector.
3. Check voltage between rear door lock assembly LH harness connector and ground.

(+)		(-)	Condition	Voltage
Rear door lock assembly LH				
Connector	Terminal			
D118	2	Ground	Door lock and unlock switch	Unlock
	3			Lock

Is the inspection result normal?

YES >> Replace rear door lock assembly LH.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

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DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

BCM		Rear door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	
B46	124	D118	2	Existed
	125		3	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B46	124	Ground	Not existed
	125		

Is the inspection result normal?

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

3. CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition	Voltage	
BCM					
Connector	Terminal				
B46	124	Ground	Door lock and unlock switch	Unlock	9 – 16 V
	125			Lock	

Is the inspection result normal?

- YES >> Check for internal short of rear door lock actuator.
- NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

REAR RH

REAR RH : Component Function Check

INFOID:000000010708147

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
- NO >> Refer to [DLK-178, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000010708148

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly RH connector.
3. Check voltage between rear door lock assembly RH harness connector and ground.

(+)		(-)	Condition	Voltage	
Rear door lock assembly RH					
Connector	Terminal				
D99	4	Ground	Door lock and unlock switch	Lock	9 – 16 V
	5			Unlock	

DOOR LOCK ACTUATOR

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace rear door lock assembly RH.
 NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Rear door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	
B46	124	D99	5	Existed
	125		4	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B46	124		Not existed
	125		

Is the inspection result normal?

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

3. CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition	Voltage	
BCM					
Connector	Terminal				
B46	124	Ground	Door lock and unlock switch	Unlock	9 – 16 V
	125		Lock		

Is the inspection result normal?

- YES >> Check for internal short of rear door lock actuator.
 NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

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DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:000000010708149

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "CDL LOCK SW", "CDL UNLOCK SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
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 (driver door) is OK.

NO >> Refer to [DLK-180, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000010708150

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect power window main switch connector.
3. Check voltage between power window main switch harness connector and ground.

(+)		(-)	Voltage
Power window main switch			
Connector	Terminal	Ground	9 – 16 V
D25	3		
	15		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
M87	50	D25	3	Existed
	80		15	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M87	50	Ground	Not existed
	80		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

DOOR LOCK AND UNLOCK SWITCH

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-74, "POWER WINDOW MAIN SWITCH : Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:000000010951642

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "CDL LOCK SW", "CDL UNLOCK SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
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 (passenger door) is OK.

NO >> Refer to [DLK-181, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010951643

1.CHECK DRIVER SIDE DOOR LOCK AND UNLOCK SWITCH OPERATION

1. Turn ignition switch ON.
2. Check door lock/unlock using driver side door lock and unlock switch operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-180, "DRIVER SIDE : Diagnosis Procedure"](#).

2.CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front power window switch (passenger side) connector.
3. Check voltage between front power window switch (passenger side) harness connector and ground.

(+)		(-)	Voltage
Connector	Terminal		
D67	1	Ground	9 - 16 V
	2		

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

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DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

BCM		Front power window switch (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M87	50	D67	1	Existed
	80		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M87	50		Not existed
	80		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to [PWC-74, "FRONT POWER WINDOW SWITCH \(PASSENGER SIDE\) : Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

DOOR LOCK STATUS INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

DOOR LOCK STATUS INDICATOR

Component Function Check

INFOID:000000010734808

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "DOOR LOCK IND" in "ACTIVE TEST" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item		Status	
DOOR LOCK IND	ON	Door lock status indicator	Turns ON
	OFF		Turns OFF

Is the inspection result normal?

- YES >> Door lock status indicator is OK.
NO >> Refer to [DLK-183, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010734809

1.CHECK DOOR LOCK STATUS INDICATOR INPUT SIGNAL

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

(+)		(-)	Voltage
Indicator unit			
Connector	Terminal	Ground	9 – 16 V
M92	5		

Is the inspection result normal?

- YES >> Replace indicator unit.
NO >> GO TO 2.

2.CHECK DOOR LOCK STATUS INDICATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and indicator unit harness connector.

BCM		Indicator unit		Continuity
Connector	Terminal	Connector	Terminal	
M86	111	M92	5	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	111		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
NO >> Repair or replace harness.

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DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

DOOR REQUEST SWITCH

Component Function Check

INFOID:000000010708151

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
3. Select "REQ SW-DR", "REQ SW-AS" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
REQ SW -DR	Driver side door request switch	Pressed	ON
		Released	OFF
REQ SW -AS	Passenger side door request switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

YES >> Front door request switch is OK.

NO >> Refer to [DLK-184, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708152

1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning front door outside handle assembly connector.
3. Check voltage between malfunctioning front door outside handle assembly harness connector and ground.

(+)		Terminal	(-)	Voltage
Front door outside handle assembly				
Connector	Terminal			
Driver side	D15	3	Ground	9 – 16 V
Passenger side	D11			

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between malfunctioning front door outside handle assembly harness connector and BCM harness connector.

Front door outside handle assembly		Terminal	BCM		Continuity
Connector	Terminal		Connector	Terminal	
Driver side	D15	3	M86	105	Existed
Passenger side	D11			82	

3. Check continuity between malfunctioning front door outside handle assembly harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	105		Not existed
	82		

DOOR REQUEST SWITCH

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between malfunctioning front door outside handle assembly harness connector and ground.

Front door outside handle assembly		Ground	Continuity
Connector	Terminal		
Driver side	D15	4	Existed
Passenger side	D11		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR REQUEST SWITCH

Refer to [DLK-185, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door outside handle grip.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010708153

1.CHECK DOOR REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning front outside handle assembly connector.
3. Check continuity between malfunctioning front outside handle assembly terminals.

Front outside handle assembly		Condition		Continuity
Terminal				
3	4	Door request switch	Pressed	Existed
			Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front outside handle grip.

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DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

DOOR SWITCH

Component Function Check

INFOID:000000010708154

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL" and "DOOR SW-RR" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-DR	Driver side door	Open	ON
		Closed	OFF
DOOR SW-AS	Passenger side door	Open	ON
		Closed	OFF
DOOR SW-RL	Rear door LH	Open	ON
		Closed	OFF
DOOR SW-RR	Rear door RH	Open	ON
		Closed	OFF

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [DLK-186, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708155

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check voltage between malfunctioning door switch harness connector and ground using oscilloscope.

(+)		Terminal	(-)	Voltage
Door switch				
Connector				
Driver side	B34	3	Ground	9 – 16 V
Passenger side	B27			
Rear LH	B71			
Rear RH	B53			

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

Door switch		Terminal	BCM		Continuity
Connector			Connector	Terminal	
Driver side	B34	3	B47	17	Existed
Passenger side	B27			13	
Rear LH	B71			12	
Rear RH	B53			10	

DOOR SWITCH

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between door switch harness connector and ground.

Door switch		Terminal	Ground	Continuity
Connector				Not existed
Driver side	B34	3	Ground	Not existed
Passenger side	B27			
Rear LH	B71			
Rear RH	B53			

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR SWITCH

Refer to [DLK-187, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010708156

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check continuity between door switch terminals.

Door switch			Condition	Continuity	
Terminal					
Driver side	3	Ground part of door switch	Door switch	Pressed	Not existed
Passenger side				Released	Existed
				Pressed	Not existed
Rear LH				Released	Existed
				Pressed	Not existed
Rear RH				Released	Existed
				Pressed	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

HALF LATCH SWITCH

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

HALF LATCH SWITCH

Component Function Check

INFOID:000000010708157

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "HALF LATCH SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
HALF LATCH SW	Back door	Fully closed	OFF
		Open	ON

Is the inspection result normal?

- YES >> Half latch switch is OK.
NO >> Refer to [DLK-188. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708158

1. CHECK HALF LATCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal		
D172	6	Ground	12 V

Is the inspection result normal?

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

2. CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	3	D172	6	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	3		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK HALF LATCH SWITCH GROUND CIRCUIT

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

HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Back door lock assembly		Ground	Continuity
Connector	Terminal		Existed
D172	8		

Is the inspection result normal?

YES >> GO TO 4.

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

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

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< DTC/CIRCUIT DIAGNOSIS >

HAZARD FUNCTION

Component Function Check

INFOID:000000010708161

1.CHECK FUNCTION

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
2. Select "FLASHER" in "ACTIVE TEST" mode.
3. Touch "LH" or "RH" to check that it works normally.

Is the inspection result normal?

- YES >> Hazard warning lamp circuit is OK.
NO >> Refer to [DLK-190, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708162

1.CHECK HAZARD OPERATION

Refer to [EXL-36, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Refer to [EXL-176, "Symptom Table"](#).

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

INFORMATION DISPLAY

Component Function Check

INFOID:000000010708163

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
3. Select "INDICATOR" in "ACTIVE TEST" mode.
4. Touch "KEY ON" or "KEY IND" to check that it works normally.

Is the inspection result normal?

- YES >> Information display is OK.
NO >> Refer to [DLK-191, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708164

1.CHECK COMBINATION METER

Refer to [MWI-84, "On Board Diagnosis Function"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

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INTELLIGENT KEY BATTERY

Component Inspection

INFOID:000000010708165

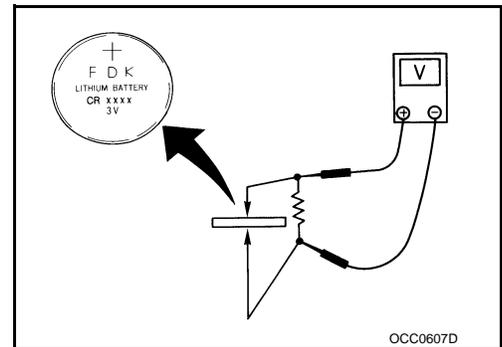
1. CHECK INTELLIGENT KEY BATTERY

Check by connecting a resistance (approximately 300 Ω) so that the current value becomes about 10 mA. Refer to [DLK-325, "Removal and Installation"](#).

Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

- YES >> INSPECTION END
- NO >> Replace Intelligent Key battery.



INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

INTELLIGENT KEY WARNING BUZZER

Component Function Check

INFOID:000000010708166

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
3. Select "OUTSIDE BUZZER" in "ACTIVE TEST" mode.
4. Touch "On" to check that it works normally.

Is the inspection result normal?

- YES >> Intelligent Key warning buzzer is OK.
NO >> Refer to [DLK-193, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708167

1. 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.

(+)		(-)	Condition	Voltage
Intelligent Key warning buzzer				
Connector	Terminal			
E25	1	Ground	Buzzer ON	9 – 16 V

Is the inspection result normal?

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

2. CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT

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

BCM		Intelligent Key warning buzzer		Continuity
Connector	Terminal	Connector	Terminal	
E23	164	E25	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
E23	164		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK INTELLIGENT KEY WARNING BUZZER

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

Intelligent Key warning buzzer		Ground	Continuity
Connector	Terminal		
E25	3		Existed

Is the inspection result normal?

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

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace Intelligent Key warning buzzer.
- NO >> Repair or replace malfunctioning parts

OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

OPEN SWITCH

Component Function Check

INFOID:000000010708168

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "OPEN SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
OPEN SW	Back door	Closure operation	ON
		Other than above	OFF

Is the inspection result normal?

YES >> Open switch is OK.

NO >> Refer to [DLK-195. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708169

1.CHECK OPEN SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal	Ground	12.2 V
D172	4		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK OPEN SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	11	D172	4	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	11		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK OPEN SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly connector and ground.

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OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D172	8		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

OUTSIDE KEY ANTENNA DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:000000010708170

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M86	100	Ground	Intelligent Key is outside the vehicle	<p>JSMIA1348GB</p>
			Intelligent Key is inside the vehicle	<p>JSMIA1406GB</p>
	120		Intelligent Key is outside the vehicle	<p>JMMA1652GB</p>
			Intelligent Key is inside the vehicle	<p>JMMA1653GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
 NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and front door outside handle assembly (driver side) connector.
- Check continuity between BCM harness connector and front door outside handle assembly (driver side) harness connector.

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

BCM		Front door outside handle assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M86	100	D15	1	Existed
	120		2	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	100		Not existed
	120		

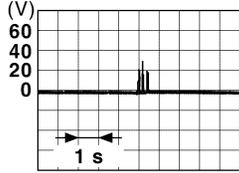
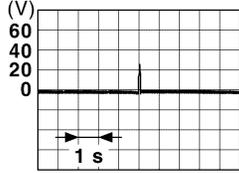
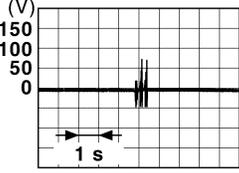
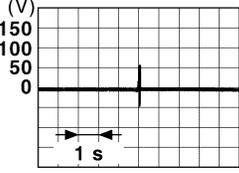
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace front door outside handle grip. (New antenna or other antenna)
2. Connect BCM connector and front door outside handle assembly (driver side) connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)	
BCM					
Connector	Terminal				
M86	100	Ground	Ignition switch ON and any door is open	Intelligent Key is outside the vehicle	 <p style="text-align: right; font-size: small;">JSMIA1348GB</p>
	100		Intelligent Key is inside the vehicle	 <p style="text-align: right; font-size: small;">JSMIA1406GB</p>	
	120		Intelligent Key is outside the vehicle	 <p style="text-align: right; font-size: small;">JMMIA1652GB</p>	
	120		Intelligent Key is inside the vehicle	 <p style="text-align: right; font-size: small;">JMMIA1653GB</p>	

Is the inspection result normal?

OUTSIDE KEY ANTENNA

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace front door outside handle grip.
- NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010708171

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M86	118	Ground	Ignition switch ON and any door is open	<p>JSMIA1507GB</p>
				<p>JSMIA1506GB</p>
	119			<p>JSMIA1507GB</p>
				<p>JSMIA1506GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
- NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and front door outside handle assembly (passenger side) connector.
3. Check continuity between BCM harness connector and front door outside handle assembly (passenger side) harness connector.

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

BCM		Front door outside handle assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M86	118	D11	2	Existed
	119		1	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	118		Not existed
	119		

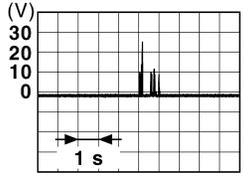
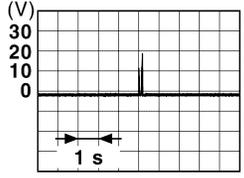
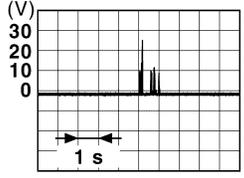
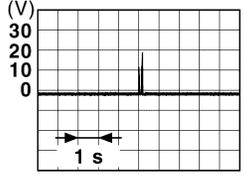
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace front door outside handle grip. (New antenna or other antenna)
2. Connect BCM connector and front door outside handle assembly (passenger side) connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M86	118	Ground	Ignition switch ON and any door is open	 <p style="text-align: right; font-size: small;">JSMIA1507GB</p>
	118		Ignition switch ON and any door is open	 <p style="text-align: right; font-size: small;">JSMIA1506GB</p>
	119		Ignition switch ON and any door is open	 <p style="text-align: right; font-size: small;">JSMIA1507GB</p>
	119		Ignition switch ON and any door is open	 <p style="text-align: right; font-size: small;">JSMIA1506GB</p>

OUTSIDE KEY ANTENNA

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace front door outside handle grip.
- NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

REAR BUMPER

REAR BUMPER : Diagnosis Procedure

INFOID:000000010708172

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
B47	21	Ground	Intelligent Key is outside the vehicle	<p>JMMIA1652GB</p>
			Intelligent Key is inside the vehicle	<p>JMMIA1653GB</p>
	24		Intelligent Key is outside the vehicle	<p>JSMIA1507GB</p>
			Intelligent Key is inside the vehicle	<p>JSMIA1506GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
- NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and outside key antenna (rear bumper) connector.
3. Check continuity between BCM harness connector and outside key antenna (rear bumper) harness connector.

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OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

BCM		Outside key antenna (rear bumper)		Continuity
Connector	Terminal	Connector	Terminal	
B47	21	B32	2	Existed
	24		1	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B47	21		Not existed
	24		

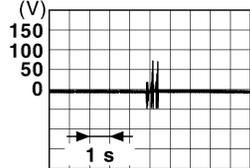
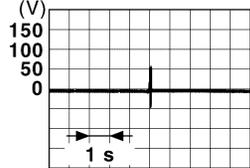
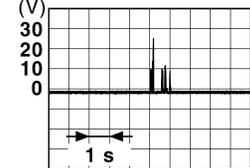
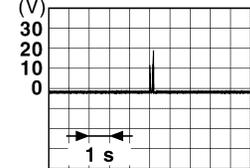
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna (rear bumper). (New antenna or other antenna)
2. Connect BCM and outside key antenna (rear bumper) connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)	
BCM					
Connector	Terminal				
B47	21	Ground	Ignition switch ON and any door is open	Intelligent Key is outside the vehicle	 <p style="text-align: right; font-size: small;">JMMIA1652GB</p>
	21		Intelligent Key is inside the vehicle	 <p style="text-align: right; font-size: small;">JMMIA1653GB</p>	
	24		Intelligent Key is outside the vehicle	 <p style="text-align: right; font-size: small;">JSMIA1507GB</p>	
	24		Intelligent Key is inside the vehicle	 <p style="text-align: right; font-size: small;">JSMIA1506GB</p>	

Is the inspection result normal?

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

- YES >> Replace outside key antenna (rear bumper).
- NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

POWER SUPPLY AND GROUND CIRCUIT FRONT DOOR LOCK

FRONT DOOR LOCK : Diagnosis Procedure

INFOID:000000010708173

1.CHECK FUSE

Check that the following fuse is not fusing.

Signal name	Fuse No.
Front door lock actuator power supply	5 (20 A)

Is the fuse fusing?

- 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 BCM connector.
3. Check voltage between BCM harness connector and ground.

(+)		(-)	Voltage
BCM			
Connector	Terminal		
M85	143	Ground	9 – 16 V

Is the measurement value normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	146		Existed
	147		

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair or replace harness.

REAR DOOR LOCK

REAR DOOR LOCK : Diagnosis Procedure

INFOID:000000010708174

1.CHECK FUSE

Check that the following fuse is not fusing.

Signal name	Fuse No.
Rear door lock actuator power supply	3 (20 A)

Is the fuse fusing?

- 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 BCM connector.

POWER SUPPLY AND GROUND CIRCUIT

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

3. Check voltage between BCM harness connector and ground.

(+)		(-)	Voltage
BCM			
Connector	Terminal		
M85	151	Ground	9 – 16 V

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	146		Existed
	147		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

AUTOMATIC BACK DOOR CONTROL UNIT

AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:0000000010708175

1.CHECK FUSIBLE LINK AND CIRCUIT BREAKER

Check that the following fuse and circuit breaker are not fusing.

Fusible link No.		Signal name
R9M engine models	T (30A)	Battery power supply
Except for R9M engine models	J (30A)	

Is the fuse fusing?

YES >> Replace the blown 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 automatic back door control unit connector.
3. Check voltage between automatic back door control unit harness connector and ground.

(+)		(-)	Voltage (Approx.)
Automatic back door control unit			
Connector	Terminal		
B25	25	Ground	13.6 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between automatic back door control unit harness connector and ground.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	16		Existed
B25	32		

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Repair or replace harness.

TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

TOUCH SENSOR

RH

RH : Component Function Check

INFOID:0000000010708176

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "TOUCH SEN RH" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TOUCH SEN RH	Touch sensor RH	Other than below	OFF
		Detect obstruction	ON

Is the inspection result normal?

- YES >> Touch sensor RH is OK.
NO >> Refer to [DLK-207, "RH : Diagnosis Procedure"](#).

RH : Diagnosis Procedure

INFOID:0000000010708177

1. CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect touch sensor RH connector.
3. Check voltage between touch sensor RH harness connector and ground.

(+)		(-)	Voltage (Approx.)
Touch sensor RH			
Connector	Terminal	Ground	6.1 V
D175	1		

Is the inspection result normal?

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

2. CHECK TOUCH SENSOR RH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor RH harness connector.

Automatic back door control unit		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B24	1	D175	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	1		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK TOUCH SENSOR RH GROND CIRCUIT

1. Disconnect automatic back door control unit and touch sensor LH connector.

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TOUCH SENSOR

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

- Check continuity between automatic back door control unit harness connector and touch sensor RH harness connector.

Automatic back door control unit		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B24	13	D175	2	Existed

- Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	13		Not existed

Is the inspection result normal?

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

4.CHECK TOUCH SENSOR RH

Refer to [DLK-208. "RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
 NO >> Replace touch sensor RH.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

RH : Component Inspection

INFOID:000000010708178

1.CHECK TOUCH SENSOR RH

- Turn ignition switch OFF.
- Disconnect touch sensor RH connector.
- Check resistance between touch sensor RH terminals.

Touch sensor RH		Condition	Resistance (Approx.)
Terminal			
1	2	Touch sensor RH	380 – 420 kΩ
			0.95 – 1.05 kΩ

Is the inspection result normal?

- YES >> INSPECTION END
 NO >> Replace touch sensor RH.

LH

LH : Component Function Check

INFOID:000000010708179

1.CHECK FUNCTION

- Turn ignition switch ON.
- Select "AUTO BACK DOOR" using CONSULT.
- Select "TOUCH SEN LH" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TOUCH SEN LH	Touch sensor LH	Other than below	OFF
		Detect obstruction	ON

TOUCH SENSOR

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Touch sensor LH is OK.
 NO >> Refer to [DLK-209. "LH : Diagnosis Procedure"](#).

LH : Diagnosis Procedure

INFOID:0000000010708180

1. CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect touch sensor LH connector.
3. Check voltage between touch sensor LH harness connector and ground.

(+)		(-)	Voltage (Approx.)
Touch sensor LH			
Connector	Terminal		
D174	1	Ground	6.1 V

Is the inspection result normal?

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

2. CHECK TOUCH SENSOR LH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor LH harness connector.

Automatic back door control unit		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B24	2	D174	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	2		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).
 NO >> Repair or replace harness.

3. CHECK TOUCH SENSOR LH GROND CIRCUIT

1. Disconnect automatic back door control unit and touch sensor RH connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor LH harness connector.

Automatic back door control unit		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B24	13	D174	2	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	13		Not existed

Is the inspection result normal?

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

TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

4.CHECK TOUCH SENSOR LH

Refer to [DLK-210, "LH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace touch sensor LH.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

LH : Component Inspection

INFOID:000000010708181

1.CHECK TOUCH SENSOR LH

1. Turn ignition switch OFF.
2. Disconnect touch sensor LH connector.
3. Check resistance between touch sensor LH terminals.

Touch sensor LH		Condition	Resistance (Approx.)	
Terminal				
1	2	Touch sensor LH	Detect obstruction	380 – 420 kΩ
			Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace touch sensor LH.

SPINDLE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

SPINDLE MOTOR

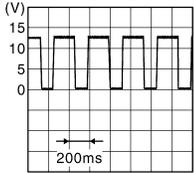
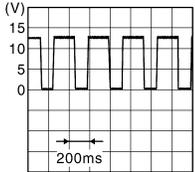
RH

RH : Diagnosis Procedure

INFOID:000000010708182

1. CHECK SPINDLE MOTOR INPUT SIGNAL

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

(+)		(-)	Condition	Voltage (Approx.)	
Spindle unit RH					
Connector	Terminal				
B29	1	Ground	Back door	Auto open operation	12 V
				Auto close operation	 <p style="text-align: right; font-size: small;">JMKIB2776ZZ</p>
	Auto close operation			13.4 V	
	Auto open operation			 <p style="text-align: right; font-size: small;">JMKIB2776ZZ</p>	

Is the inspection result normal?

- YES >> Replace spindle unit RH.
 NO >> GO TO 2.

2. CHECK SPINDLE MOTOR CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit harness connector.

Automatic back door control unit		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B25	29	B29	1	Existed
	36		2	

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B25	29		Not existed
	36		

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

SPINDLE MOTOR

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

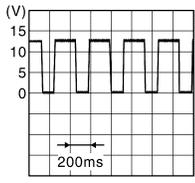
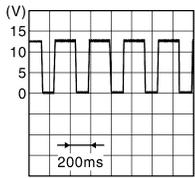
LH

LH : Diagnosis Procedure

INFOID:0000000010708183

1. CHECK SPINDLE MOTOR INPUT SIGNAL

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

(+)		(-)	Condition	Voltage (Approx.)	
Spindle unit LH					
Connector	Terminal				
B38	1	Ground	Back door	Auto open operation	12 V
				Auto close operation	 <p style="text-align: right; font-size: small;">JMK1B2776ZZ</p>
	Auto close operation			13.4 V	
	Auto open operation			 <p style="text-align: right; font-size: small;">JMK1B2776ZZ</p>	
	2				

Is the inspection result normal?

YES >> Replace spindle unit LH.

NO >> GO TO 2.

2. CHECK SPINDLE MOTOR CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit LH harness connector.

Automatic back door control unit		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B25	27	B38	1	Existed
	34		2	

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B25	27		Not existed
	34		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-327. "Removal and Installation"](#).

SPINDLE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

NO >> Repair or replace harness.

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SUPER LOCK ACTUATOR

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

SUPER LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:000000010735190

1. CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "SUPER LOCK" in "ACTIVE TEST" mode.
3. Touch "LOCK" or "UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Super lock actuator is OK.

NO >> Refer to [DLK-214, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000010735191

1. CHECK SUPER LOCK ACTUATOR SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check voltage between front door lock assembly (driver side) harness connector and ground.

(+)		(-)	Condition		Voltage
Front door lock assembly (driver side)					
Connector	Terminal				
D35	5	Ground	Super lock	Release	9 – 16 V
	6			Set	

Is the inspection result normal?

YES >> Replace front door lock assembly (driver side).

NO >> GO TO 2.

2. CHECK SUPER LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M85	148	D35	5	Existed
	149		6	

3. Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	148		Not existed
	149		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

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

SUPER LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

(+)		(-)	Condition		Voltage
BCM					
Connector	Terminal				
M85	148	Ground	Super lock	Release	9 – 16 V
	149			Set	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:000000010735192

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "SUPER LOCK" in "ACTIVE TEST" mode.
3. Touch "LOCK" or "UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Super lock actuator is OK.

NO >> Refer to [DLK-215, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010735193

1.CHECK SUPER LOCK ACTUATOR SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (passenger side) connector.
3. Check voltage between front door lock assembly (passenger side) harness connector and ground.

(+)		(-)	Condition		Voltage
Front door lock assembly (passenger side)					
Connector	Terminal				
D73	1	Ground	Super lock	Set	9 – 16 V
	2			Release	

Is the inspection result normal?

YES >> Replace front door lock assembly (passenger side).

NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M85	139	D73	2	Existed
	149		1	

3. Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	139		Not existed
	149		

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SUPER LOCK ACTUATOR

[TYPE 1]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

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

3.CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition		Voltage
BCM					
Connector	Terminal	Ground	Super lock	Release	9 – 16 V
M85	139			Ground	
	149	Set			

Is the inspection result normal?

- YES >> Check for internal short of each door lock actuator.
NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

REAR LH

REAR LH : Component Function Check

INFOID:000000010735194

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "SUPER LOCK" in "ACTIVE TEST" mode.
3. Touch "LOCK" or "UNLOCK" to check that it works normally.

Is the inspection result normal?

- YES >> Super lock actuator is OK.
NO >> Refer to [DLK-216, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000010735195

1.CHECK SUPER LOCK ACTUATOR OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly LH.
3. Check voltage between rear door lock assembly LH harness connector and ground.

(+)		(-)	Condition		Voltage
Rear door lock assembly LH					
Connector	Terminal	Ground	Super lock	Set	9 – 16 V
D118	1			Ground	
	2	Release			

Is the inspection result normal?

- YES >> Replace rear door lock assembly LH.
NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

1. Disconnect BCM, each door lock actuator and fuel filler lid lock actuator connector.
2. Check continuity between BCM harness connector and rear door lock assembly LH harness connector.

BCM		Rear door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	
B46	124	D118	2	Existed
	131		1	

3. Check continuity between BCM harness connector and ground.

SUPER LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

BCM		Ground	Continuity
Connector	Terminal		
B46	124		Not existed
	131		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition		Voltage
BCM			Ground	Super lock	
Connector	Terminal				
B46	124				9 – 16 V
	131				

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

REAR RH

REAR RH : Component Function Check

INFOID:000000010735196

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "SUPER LOCK" in "ACTIVE TEST" mode.
3. Touch "LOCK" or "UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Super lock actuator is OK.

NO >> Refer to [DLK-217, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000010735197

1.CHECK DOOR LOCK ACTUATOR OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly RH.
3. Check voltage between rear door lock assembly RH harness connector and ground.

(+)		(-)	Condition		Voltage
Rear door lock assembly RH			Ground	Super lock	
Connector	Terminal				
D99	5				9 – 16 V
	6				

Is the inspection result normal?

YES >> Replace rear door lock assembly RH.

NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

1. Disconnect BCM, each door lock actuator and fuel filler lid lock actuator connector.
2. Check continuity between BCM harness connector and rear door lock assembly RH harness connector.

SUPER LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

BCM		Rear door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	
B46	124	D99	5	Existed
	131		6	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B46	124		Not Existed
	131		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition		Voltage
BCM					
Connector	Terminal				
B46	124	Ground	Super lock	Release	9 – 16 V
	131			Set	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

UNLOCK SENSOR

Diagnosis Procedure

INFOID:000000010708184

1. CHECK UNLOCK SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check voltage between front door lock assembly (driver side) harness connector and ground with oscilloscope.

(+)		(-)	Voltage
Front door lock assembly (driver side)			
Connector	Terminal		
D35	3	Ground	9 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK UNLOCK SENSOR CIRCUIT

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

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M86	104	D35	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	104		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK UNLOCK SENSOR GROUND CIRCUIT

Check continuity between front door lock assembly (driver side) harness connector and ground.

Front door lock assembly (driver side)		Ground	Continuity
Connector	Terminal		
D35	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK UNLOCK SENSOR

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

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

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UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 1]

>> INSPECTION END

Component Inspection

INFOID:000000010708185

1. CHECK UNLOCK SENSOR

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check continuity between front door lock assembly (driver side) terminals.

Front door lock assembly (driver side)		Condition		Continuity
Terminal				
3	2	Driver door	Unlock	Existed
			Lock	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side).

ANTI-HIJACK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

SYMPTOM DIAGNOSIS

ANTI-HIJACK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000010735083

1. CHECK "DOOR LOCK-UNLOCK SET" SETTING IN "WORK SUPPORT"

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" mode.
3. Check "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT"

Refer to [DLK-74. "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\) \(With Intelligent Key System and Super Lock\)".](#)

Is the inspection result normal?

YES >> GO TO 2

NO >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT".

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44. "Intermittent Incident"](#).

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AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010708203

1. CHECK "AUTO LOCK SET" SETTING IN "WORK SUPPORT"

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
2. Select "AUTO LOCK SET" in "WORK SUPPORT" mode.
3. Check "AUTO LOCK SET" in "WORK SUPPORT".

Refer to [DLK-75, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\) \(With Super Lock\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "MODE 2", "MODE 3", "MODE 4", "MODE 5", "MODE 6" or "MODE 7" in "AUTO LOCK SET".

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

ALL SWITCHES

ALL SWITCHES : Description

INFOID:0000000010708186

Automatic back door open/close function does not operate using all switches.

ALL SWITCHES : Diagnosis Procedure

INFOID:0000000010708187

1. CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL UNIT

Check that DTC is not detected with automatic back door control unit.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-88, "DTC Index"](#).

2. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check automatic back door control unit power supply and ground circuit.

Refer to [DLK-205, "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK BACK DOOR AUTO CLOSURE FUNCTION

Check back door auto closure function.

Does back door auto closure function operate with back door opener switch?

YES >> GO TO 4.

NO >> Refer to [DLK-230, "OPEN/CLOSURE FUNCTION : Diagnosis Procedure"](#).

4. CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Refer to [DLK-161, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK TOUCH SENSOR

Check touch sensor.

Refer to [DLK-208, "LH : Component Function Check"](#) (LH) and [DLK-207, "RH : Component Function Check"](#) (RH).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6. CHECK SPINDLE MOTOR

Check spindle motor.

Refer to [DLK-212, "LH : Diagnosis Procedure"](#) (LH) and [DLK-211, "RH : Diagnosis Procedure"](#) (RH).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

AUTOMATIC BACK DOOR SWITCH

AUTOMATIC BACK DOOR SWITCH : Description

INFOID:0000000010708188

Automatic back door open/close function does not operate using automatic back door switch.

AUTOMATIC BACK DOOR SWITCH : Diagnosis Procedure

INFOID:0000000010708189

1.CHECK AUTO CLOSE FUNCTION

Check auto close function using automatic back door close switch or Intelligent Key button operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-223, "ALL SWITCHES : Diagnosis Procedure"](#).

2.CHECK AUTOMATIC BACK DOOR SWITCH

Check automatic back door switch.

Refer to [DLK-159, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR CLOSE SWITCH

AUTOMATIC BACK DOOR CLOSE SWITCH : Description

INFOID:0000000010708190

Automatic back door open/close function does not operate using automatic back door close switch.

AUTOMATIC BACK DOOR CLOSE SWITCH : Diagnosis Procedure

INFOID:0000000010708191

1.CHECK AUTO OPEN/CLOSE FUNCTION

Check auto open/close function using automatic back door switch.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-223, "ALL SWITCHES : Diagnosis Procedure"](#).

2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Check automatic back door close switch.

Refer to [DLK-157, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

INTELLIGENT KEY

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

INTELLIGENT KEY : Description

INFOID:000000010708192

Automatic back door open/close function does not operate using Intelligent Key.

INTELLIGENT KEY : Diagnosis Procedure

INFOID:000000010708193

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.

NO >> Refer to [DLK-239, "Diagnosis Procedure"](#).

2.CHECK AUTO OPEN/CLOSE FUNCTION

Check auto open/close function using automatic back door switch.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to [DLK-223, "ALL SWITCHES : Diagnosis Procedure"](#).

3.REPLACE INTELLIGENT KEY

1. Replace Intelligent Key.
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> GO TO 4.

4.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : Description

INFOID:000000010708194

Automatic back door open/close function does not operate using back door opener switch.

BACK DOOR OPENER SWITCH : Diagnosis Procedure

INFOID:000000010708195

1.CHECK AUTO OPEN/CLOSE FUNCTION

Check auto open/close function using automatic back door switch.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-223, "ALL SWITCHES : Diagnosis Procedure"](#).

2.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-168, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

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AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE BUZZER

BUZZER : Description

INFOID:0000000010708197

Automatic back door warning buzzer does not operate when automatic back door warning function are performed.

BUZZER : Diagnosis Procedure

INFOID:0000000010708198

1. CHECK AUTOMATIC BACK DOOR WARNING BUZZER

Check automatic back door warning buzzer.
Refer to [DLK-163, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

< SYMPTOM DIAGNOSIS >

[TYPE 1]

AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

Diagnosis Procedure

INFOID:000000010708201

1. CHECK AUTOMATIC DOOR MAIN SWITCH

Check automatic door main switch.

Refer to [DLK-161, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010708202

1. CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL UNIT

Check that DTC is not detected with automatic back door control unit.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-88, "DTC Index"](#).

2. CHECK TOUCH SENSOR LH

Check touch sensor LH.

Refer to [DLK-208, "LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK TOUCH SENSOR RH

Check touch sensor RH.

Refer to [DLK-207, "RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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BACK DOOR AUTO CLOSURE FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

BACK DOOR AUTO CLOSURE FUNCTION DOES NOT OPERATE OPEN/CLOSURE FUNCTION

OPEN/CLOSURE FUNCTION : Description

INFOID:0000000010708204

Back door auto closure function does not operate when back door opening and closing operations are performed.

OPEN/CLOSURE FUNCTION : Diagnosis Procedure

INFOID:0000000010708205

1. CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL UNIT

Check that DTC is not detected with automatic back door control unit.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Refer to [DLK-88, "DTC Index"](#).

2. CHECK OPEN SWITCH

Check open switch.

Refer to [DLK-195, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3. CHECK CLOSE SWITCH

Check close switch.

Refer to [DLK-172, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace the malfunctioning parts.

4. CHECK HALF LATCH SWITCH

Check half latch switch.

Refer to [DLK-188, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace the malfunctioning parts.

5. CHECK BACK DOOR CLOSURE MOTOR

Check back door closure motor.

Refer to [DLK-165, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Repair or replace the malfunctioning parts.

6. REPLACE BACK DOOR LOCK ASSEMBLY

1. Replace back door lock assembly.
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> GO TO 7.

7. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

BACK DOOR AUTO CLOSURE FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

CLOSURE FUNCTION

CLOSURE FUNCTION : Description

INFOID:0000000010708206

Back door auto closure function does not operate when back door closing operations are performed.

CLOSURE FUNCTION : Diagnosis Procedure

INFOID:0000000010708207

1. CHECK HALF LATCH SWITCH

Check half latch switch.

Refer to [DLK-188, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE BACK DOOR LOCK ASSEMBLY

1. Replace back door lock assembly.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> GO TO 3.

3. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-327, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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DLK

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 1]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Description

INFOID:0000000010708208

All doors do not lock/unlock using door lock and unlock switch.

ALL DOOR : Diagnosis Procedure

INFOID:0000000010708209

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check door lock and unlock power supply and ground circuit.

Refer to [DLK-204, "FRONT DOOR LOCK : Diagnosis Procedure"](#) (front door) and [DLK-204, "REAR DOOR LOCK : Diagnosis Procedure"](#) (rear door).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Refer to [DLK-180, "DRIVER SIDE : Component Function Check"](#) (driver door) and [DLK-181, "PASSENGER SIDE : Component Function Check"](#) (passenger door).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

FRONT DOOR

FRONT DOOR : Description

INFOID:0000000010708210

Front doors do not lock/unlock using door lock and unlock switch.

FRONT DOOR : Diagnosis Procedure

INFOID:0000000010708211

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check front door lock and unlock power supply and ground circuit.

Refer to [DLK-204, "FRONT DOOR LOCK : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR LOCK ACTUATOR

Check front door lock actuator.

Refer to [DLK-175, "DRIVER SIDE : Component Function Check"](#) (driver door).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 1]

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REAR DOOR

REAR DOOR : Description

INFOID:000000010708212

Rear doors do not lock/unlock using door lock and unlock switch.

REAR DOOR : Diagnosis Procedure

INFOID:000000010708213

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check rear doors lock and unlock power supply and ground circuit.

Refer to [DLK-204, "REAR DOOR LOCK : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator.

Refer to [DLK-177, "REAR LH : Component Function Check"](#) (LH).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000010708214

Driver door does not lock/unlock using door lock and unlock switch.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000010708215

1.CHECK DOOR LOCK ACTUATOR

Check front door lock actuator (driver door).

Refer to [DLK-175, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

PASSENGER SIDE

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 1]

PASSENGER SIDE : Description

INFOID:000000010708216

Passenger door does not lock/unlock using door lock and unlock switch.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010708217

1.CHECK DOOR LOCK ACTUATOR

Check front door lock actuator (passenger door).

Refer to [DLK-176, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REAR LH

REAR LH : Description

INFOID:000000010708218

Rear LH door does not lock/unlock using door lock and unlock switch.

REAR LH : Diagnosis Procedure

INFOID:000000010708219

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator LH.

Refer to [DLK-177, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REAR RH

REAR RH : Description

INFOID:000000010708220

Rear RH door does not lock/unlock using door lock and unlock switch.

REAR RH : Diagnosis Procedure

INFOID:000000010708221

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator RH.

Refer to [DLK-178, "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 1]

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44. "Intermittent Incident"](#).

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DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

< SYMPTOM DIAGNOSIS >

[TYPE 1]

DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

Diagnosis Procedure

INFOID:000000010780997

1. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 2.

NO >> Refer to [DLK-232, "ALL DOOR : Diagnosis Procedure"](#).

2. CHECK UNLOCK SENSOR

Check unlock sensor.

Refer to [DLK-219, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 1]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

ALL DOOR REQUEST SWITCHES

ALL DOOR REQUEST SWITCHES : Description

INFOID:0000000010708222

All doors do not lock/unlock using all door request switches.

ALL DOOR REQUEST SWITCHES : Diagnosis Procedure

INFOID:0000000010708223

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check door lock/unlock using Intelligent Key button operation.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.

NO >> Refer to [DLK-239, "Diagnosis Procedure"](#).

2.CHECK "LOCK/UNLOCK BY I-KEY" SETTING IN "WORK SUPPORT"

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.

2. Select "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT" mode.

3. Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".

Refer to [DLK-75, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\) \(With Super Lock\)"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "On" in "LOCK/UNLOCK BY I-KEY".

3.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-186, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-149, "DTC Description"](#).

• Luggage room: Refer to [DLK-152, "DTC Description"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.

• Driver door : Refer to [DLK-197, "DRIVER SIDE : Diagnosis Procedure"](#).

• Passenger door : Refer to [DLK-199, "PASSENGER SIDE : Diagnosis Procedure"](#).

• Rear bumper: Refer to [DLK-201, "REAR BUMPER : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DRIVER SIDE DOOR REQUEST SWITCH

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 1]

DRIVER SIDE DOOR REQUEST SWITCH : Description

INFOID:000000010708224

All doors do not lock/unlock using front door request switch (driver door).

DRIVER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:000000010708225

1.CHECK DOOR REQUEST SWITCH

Check front door request switch (driver door).
Refer to [DLK-184, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (driver door).
Refer to [DLK-197, "DRIVER SIDE : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#)

PASSENGER SIDE DOOR REQUEST SWITCH

PASSENGER SIDE DOOR REQUEST SWITCH : Description

INFOID:000000010708226

All doors do not lock/unlock using front door request switch (passenger door).

PASSENGER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:000000010708227

1.CHECK PASSENGER SIDE DOOR REQUEST SWITCH

Check front door request switch (passenger door).
Refer to [DLK-184, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (passenger door).
Refer to [DLK-199, "PASSENGER SIDE : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[TYPE 1]

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:000000010708228

1.CHECK INTELLIGENT KEY

For Intelligent Key that cannot be used for door lock and unlock, check that the Intelligent Key belongs to the vehicle to be checked.

Does the Intelligent Key belong to the vehicle to checked?

YES >> GO TO 2.

NO >> Check Intelligent Key button operation with registered Intelligent Key belonging to the vehicle.

2.CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning is operated.

Is the Intelligent Key low battery warning operated?

YES >> GO TO 6.

NO-1 >> With another registered Intelligent Key: GO TO 3.

NO-2 >> Without another registered Intelligent Key: GO TO 4.

3.CHECK INTELLIGENT KEY BUTTON OPERATION

Check that door lock and unlock can be performed by operating the buttons of another registered Intelligent Key.

Can door lock and unlock be performed with another registered Intelligent Key?

YES >> GO TO 4.

NO >> GO TO 7.

4.CHECK ENGINE START

While depressing the brake pedal, contact the backside of the Intelligent Key that cannot be used to perform door lock and unlock operation to the push-button ignition switch. Operate the push-button ignition switch, and check that the vehicle is in START status.

Is the vehicle in START status?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK INTELLIGENT KEY

Check the inside of the Intelligent Key for rust or corrosion by water. Simultaneously check the internal circuits for damage.

Is the vehicle in START status?

YES >> GO TO 6.

NO >> Replace Intelligent Key.

6.CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Refer to [DLK-192. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace Intelligent Key battery.

7.CHECK POWER DOOR LOCK OPERATION

Check door lock/unlock using door lock and unlock switch.

Does door lock/unlock using door lock and unlock switch?

YES >> GO TO 8.

NO >> Refer to [DLK-232. "ALL DOOR : Diagnosis Procedure"](#).

8.REPLACE INTELLIGENT KEY

1. Replace Intelligent Key.
2. Confirm the operation after replacement.

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DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[TYPE 1]

Is the result normal?

YES >> INSPECTION END

NO >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010708229

1. CHECK DOOR LOCK FUNCTION

Check door lock using door request switch.

Does door lock with door request switch?

YES >> GO TO 2.

NO >> Refer to [DLK-237, "ALL DOOR REQUEST SWITCHES : Diagnosis Procedure"](#).

2. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-193, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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DOOR LOCK STATUS INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

DOOR LOCK STATUS INDICATOR DOES NOT ILLUMINATE

Diagnosis Procedure

INFOID:000000010734712

1. CHECK DOOR LOCK STATUS INDICATOR

Check door lock status indicator.

Refer to [DLK-183, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

NO >> GO TO 1.

HAZARD LAMP OPERATES WHEN AUTOMATIC BACK DOOR IS OPERATED

< SYMPTOM DIAGNOSIS >

[TYPE 1]

HAZARD LAMP OPERATES WHEN AUTOMATIC BACK DOOR IS OPERATED

Diagnosis Procedure

INFOID:000000010753002

1. CHECK AUTOMATIC BACK DOOR CONTROL UNIT GROUND CIRCUIT

Check automatic back door control unit ground circuit.

Refer to [DLK-205, "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

Replace automatic back door control unit.

Refer to [DLK-327, "Removal and Installation"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010708230

1. CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

- YES >> GO TO 2.
- NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)
- NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2. CHECK INFORMATION DISPLAY

Check information display.

Refer to [DLK-191, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3. CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.

Refer to [DLK-192, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace the malfunctioning parts.

4. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to [DLK-149, "DTC Description"](#).
- Luggage room: Refer to [DLK-152, "DTC Description"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace the malfunctioning parts.

5. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010708231

1.CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [BCS-78, "DTC Index"](#).

2.CHECK POWER DOOR LOCK OPERATION

Check door lock/unlock using door lock and unlock switch.

Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 3.

NO >> Refer to [DLK-232, "ALL DOOR : Diagnosis Procedure"](#).

3.CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to [DLK-186, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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KEY ID WARNING DOES NOT OPERATE

[TYPE 1]

< SYMPTOM DIAGNOSIS >

KEY ID WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010708233

1. CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

- YES >> GO TO 2.
- NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)
- NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2. CHECK INFORMATION DISPLAY

Check information display.

Refer to [DLK-191, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to [DLK-149, "DTC Description"](#).
- Luggage room: Refer to [DLK-152, "DTC Description"](#).

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace the malfunctioning parts.

4. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

KEY REMINDER FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010708234

1.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-186, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK UNLOCK SENSOR

Check unlock sensor.

Refer to [DLK-219, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK BACK DOOR SWITCH

Check back door switch.

Refer to [DLK-166, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-149, "DTC Description"](#).

• Luggage room: Refer to [DLK-152, "DTC Description"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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OFF POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

OFF POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010708235

1. CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

- YES >> GO TO 2.
- NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)
- NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2. CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to [DLK-186, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3. CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-174, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace the malfunctioning parts.

4. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-193, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace the malfunctioning parts.

5. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

P POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

P POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010708237

1. CHECK DTC WITH BCM, TCM AND COMBINATION METER

Check that DTC is not detected with BCM, TCM and combination meter.

Is the inspection result normal?

- YES >> GO TO 2.
- NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)
- NO-2 >> Refer to [TM-288, "DTC Index"](#). (TCM)
- NO-3 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2. CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-174, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-193, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace the malfunctioning parts.

4. CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to [DLK-186, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace the malfunctioning parts.

5. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to [DLK-149, "DTC Description"](#).
- Luggage room: Refer to [DLK-149, "DTC Description"](#).

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Repair or replace the malfunctioning parts.

6. CHECK INFORMATION DISPLAY

Check information display.

Refer to [DLK-191, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 7.
- NO >> Repair or replace the malfunctioning parts.

7. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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REMINDER FUNCTION DOES NOT OPERATE

[TYPE 1]

< SYMPTOM DIAGNOSIS >

REMINDER FUNCTION DOES NOT OPERATE DOOR REQUEST SWITCH

DOOR REQUEST SWITCH : Description

INFOID:0000000010735125

Reminder function does not operate using door request switch.

DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:0000000010735126

1.CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)

NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2.CHECK HAZARD FUNCTION

Check hazard function.

Refer to [DLK-190, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

INTELLIGENT KEY

INTELLIGENT KEY : Description

INFOID:0000000010735127

Reminder function does not operate using Intelligent Key.

INTELLIGENT KEY : Diagnosis Procedure

INFOID:0000000010735128

1.CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)

NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2.CHECK HAZARD FUNCTION

Check hazard function.

Refer to [DLK-190, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

SUPER LOCK DOES NOT OPERATE

[TYPE 1]

< SYMPTOM DIAGNOSIS >

SUPER LOCK DOES NOT OPERATE

ALL DOOR

ALL DOOR : Description

INFOID:0000000010735073

All super lock do not operate.

ALL DOOR : Diagnosis Procedure

INFOID:0000000010735074

1.CHECK POWER DOOR LOCK OPERATION

Check driver door lock/unlock using door lock and unlock switch.

Does driver door lock/unlock using door lock and unlock switch?

YES >> GO TO 2.

NO >> Refer to [DLK-232, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

Check driver door super lock actuator.

Refer to [DLK-214, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000010735075

Driver side super lock does not operate.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000010735076

1.CHECK SUPER LOCK ACTUATOR

Check driver side super lock actuator.

Refer to [DLK-214, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000010735077

Passenger side super lock does not operate.

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SUPER LOCK DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010735078

1.CHECK SUPER LOCK ACTUATOR

Check passenger side super lock actuator.

Refer to [DLK-215, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REAR LH

REAR LH : Description

INFOID:000000010735079

Rear LH side super lock does not operate.

REAR LH : Diagnosis Procedure

INFOID:000000010735080

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator rear LH.

Refer to [DLK-216, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REAR RH

REAR RH : Description

INFOID:000000010735081

Passenger side super lock does not operate.

REAR RH : Diagnosis Procedure

INFOID:000000010735082

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator rear RH.

Refer to [DLK-217, "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

SUPER LOCK DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

NO >> Check intermittent incident. Refer to [GI-44. "Intermittent Incident"](#).

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TAKE AWAY WARNING DOES NOT OPERATE

[TYPE 1]

< SYMPTOM DIAGNOSIS >

TAKE AWAY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010708243

1. CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

- YES >> GO TO 2.
- NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)
- NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2. CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-174, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3. CHECK INFORMATION DISPLAY

Check information display.

Refer to [DLK-191, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace the malfunctioning parts.

4. CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-186, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace the malfunctioning parts.

5. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-193, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Repair or replace the malfunctioning parts.

6. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to [DLK-149, "DTC Description"](#).
- Luggage room: Refer to [DLK-152, "DTC Description"](#).

Is the inspection result normal?

- YES >> GO TO 7.
- NO >> Repair or replace the malfunctioning parts.

7. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#)

UNLOCK LINK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 1]

UNLOCK LINK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010735084

1. CHECK DRIVER SIDE OR PASSENGER SIDE DOOR SWITCH

Check driver side or passenger side door switch.
Refer to [DLK-186, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace the malfunctioning parts.

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

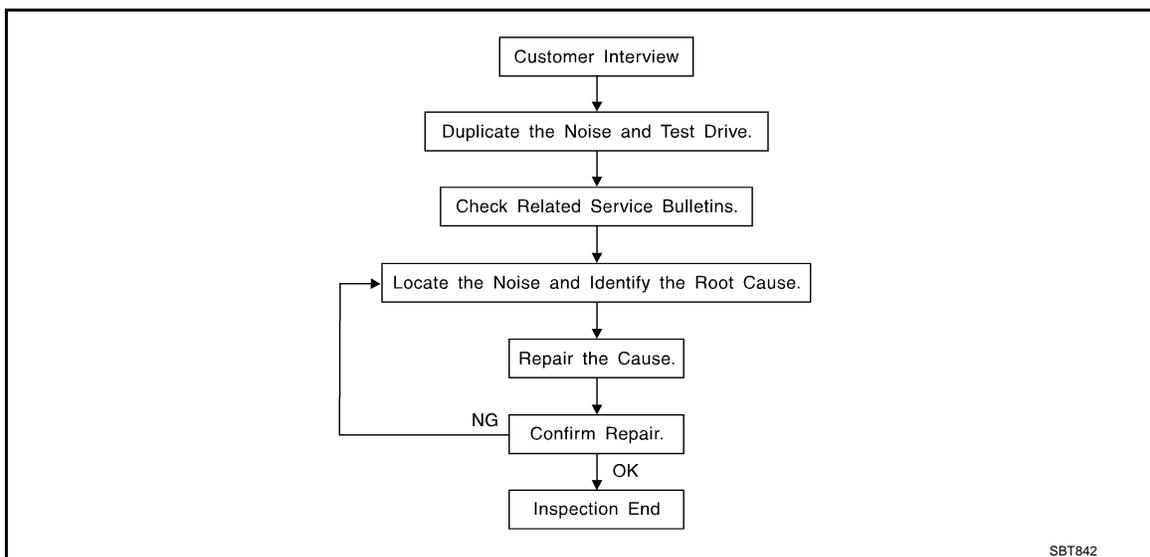
< SYMPTOM DIAGNOSIS >

[TYPE 1]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000010708245



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-260, "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 >

[TYPE 1]

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-258. "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 >

[TYPE 1]

INFOID:0000000110708246

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 >

[TYPE 1]

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 >

[TYPE 1]

Diagnostic Worksheet

INFOID:000000010708247



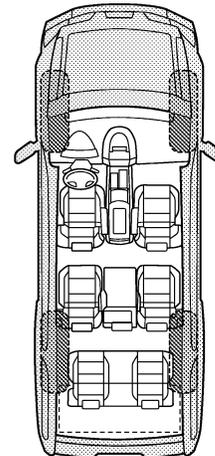
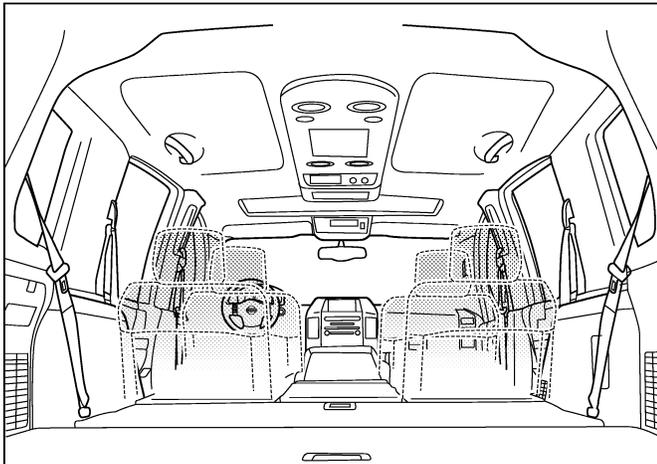
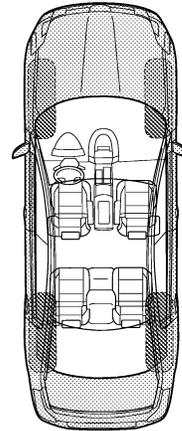
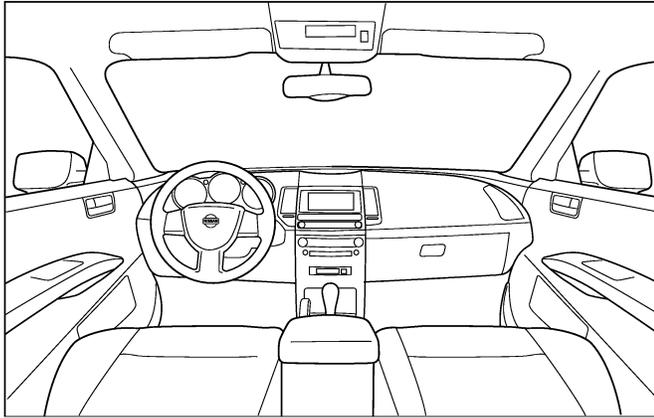
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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 >

[TYPE 1]

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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DLK

HOOD

< REMOVAL AND INSTALLATION >

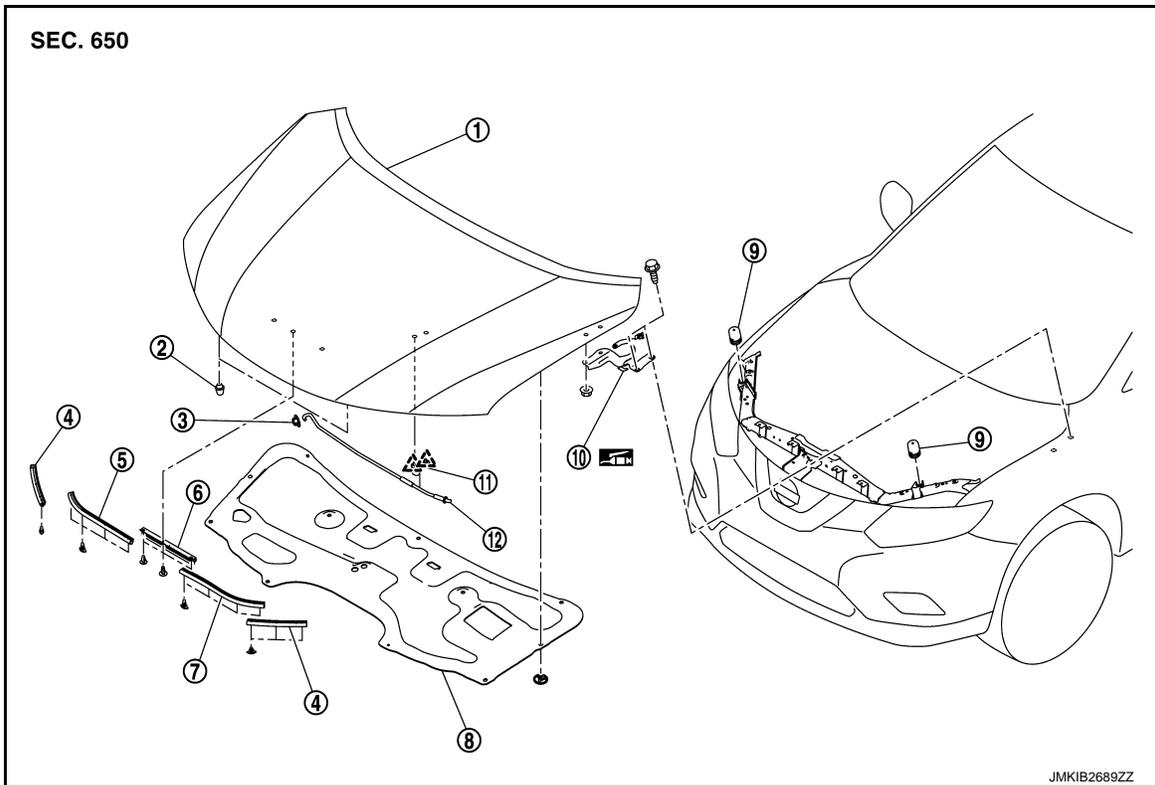
[TYPE 1]

REMOVAL AND INSTALLATION

HOOD

Exploded View

INFOID:0000000010708248



- | | | |
|-------------------------|-------------------------|----------------------|
| ① Hood assembly | ② Bumper rubber | ③ Hood rod grommet |
| ④ Radiator core seal | ⑤ Radiator core seal RH | ⑥ Radiator core seal |
| ⑦ Radiator core seal LH | ⑧ Hood insulator | ⑨ Hood bumper rubber |
| ⑩ Hood hinge | ⑪ Hood rod clamp | ⑫ Hood support rod |

 : Pawl

 : Body grease

HOOD ASSEMBLY

HOOD ASSEMBLY : Removal and Installation

INFOID:0000000010708249

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- Use protective tape or shop cloth to protect from damage during removal and installation.

REMOVAL

1. Support hood assembly with the proper material to prevent it from falling.

WARNING:

Injury may occur if hood assembly is not supported with appropriate material when removing hood assembly.

2. Remove hood assembly mounting nuts, and then remove hood assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

HOOD

[TYPE 1]

< REMOVAL AND INSTALLATION >

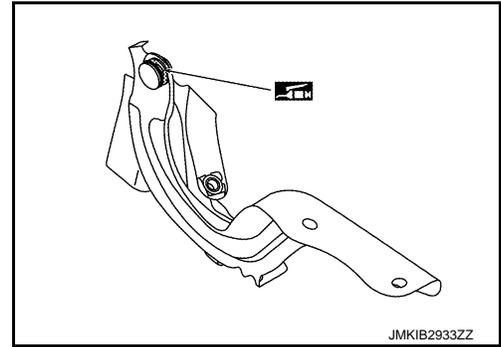
- Before installation of hood, apply anticorrosive agent onto the mounting surface of the hood hinge.
- After installing, perform hood fitting adjustment. Refer to [DLK-263, "HOOD ASSEMBLY : Adjustment"](#).
- Apply touch-up paint to the body color if the paint around the hinge is peeled off during removal.
- After installation, check that hood opens and closes normally. Refer to [DLK-263, "HOOD ASSEMBLY : Inspection"](#).

HOOD ASSEMBLY : Inspection

INFOID:000000010708250

1. Open and close the hood. Check that hood hinge rotation portion moves smoothly.
2. Check hood hinge rotating part for poor lubrication. If necessary, apply grease.

 : Body grease



INFOID:000000010708251

HOOD ASSEMBLY : Adjustment

FITTING ADJUSTMENT

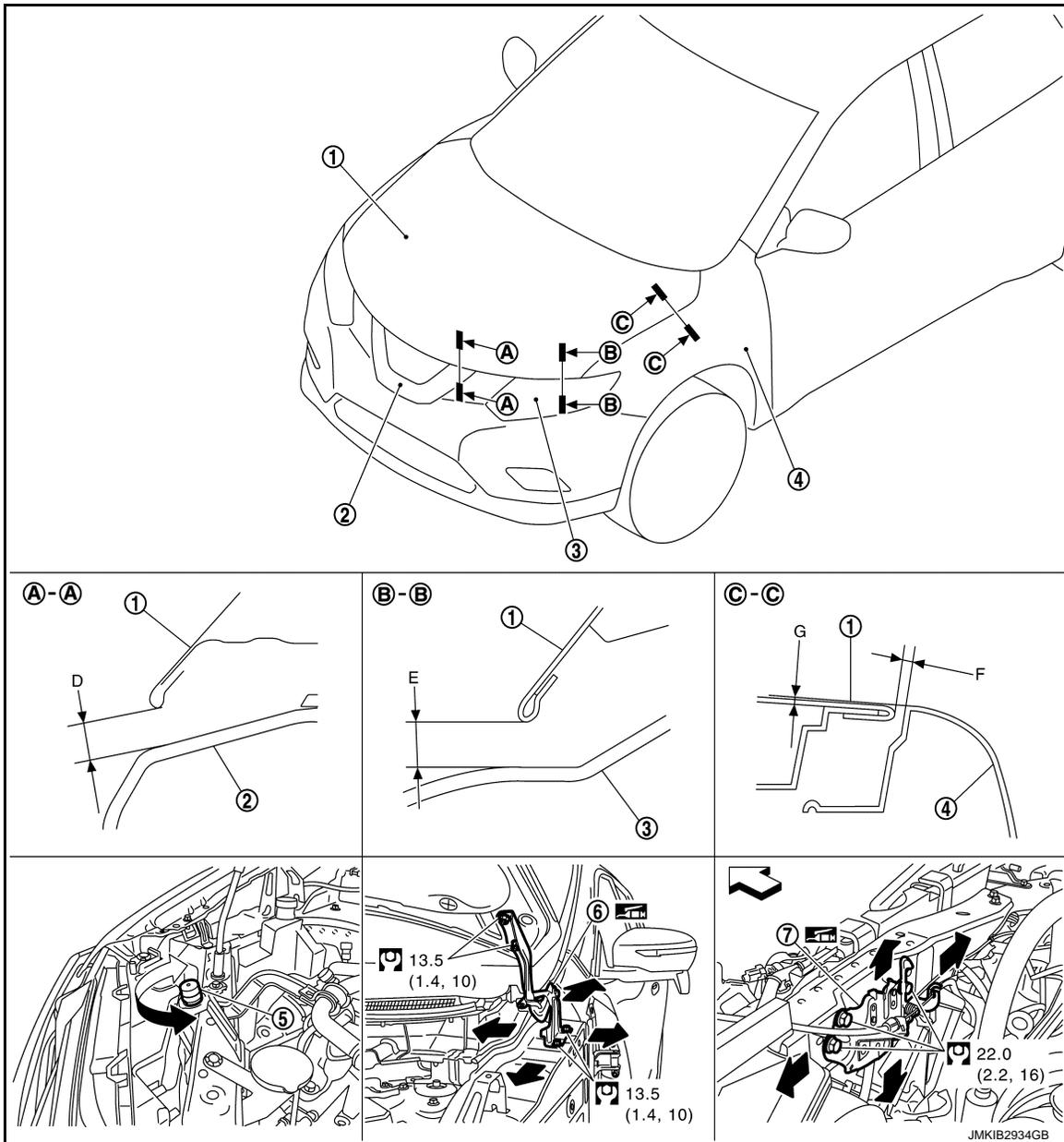
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DLK

HOOD

< REMOVAL AND INSTALLATION >

[TYPE 1]



- ① Hood assembly
- ② Front grille
- ③ Front combination lamp
- ④ Front fender
- ⑤ Hood bumper rubber
- ⑥ Hood hinge
- ⑦ Hood lock assembly

← : Vehicle front

: N·m (kg-m, ft-lb)

: Body grease

Fitting Adjustment Standard

Check the clearance and the surface height between hood and each part by visually and touching.

If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

HOOD

< REMOVAL AND INSTALLATION >

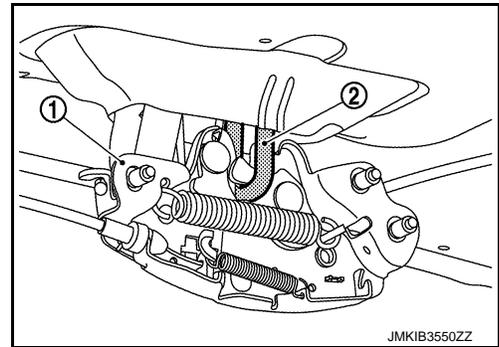
[TYPE 1]

Unit: mm [in]

Portion			Standard	Difference (RH/LH, MAX)
Hood – Front grille	Ⓐ – Ⓐ	D	Clearance 7.2 – 11.2 [0.283 – 0.441]	—
Hood – Front combination lamp	Ⓑ – Ⓑ	E	Clearance 7.0 – 11.0 [0.276 – 0.433]	—
Hood – Front fender	Ⓒ – Ⓒ	F	Clearance 2.5 – 4.5 [0.098 – 0.177]	< 1.4 [0.055]
		G	Surface height (-1.0) – (+1.0) [(-0.039) – (+0.039)]	< 1.4 [0.055]

Fitting Adjustment Procedure

1. Remove hood lock assembly mounting bolts, and then remove hood lock assembly.
2. Adjust the surface height of hood assembly according to the specified value by rotating hood bumper rubber.
3. Loosen hood hinge mounting bolts, and then adjust clearance of hood according to the specified value by moving the hood assembly.
4. Tighten hood hinge mounting bolts to the specified torque.
5. Install hood lock assembly and temporarily tighten hood lock assembly mounting bolts, and then position hood lock assembly ① and engage primary striker ②. Check hood lock assembly and primary striker for looseness.



6. Move hood lock assembly laterally until the center of primary striker and hood lock assembly are vertical when viewed from the front.
7. Tighten hood lock assembly mounting bolts to the specified torque.
8. After adjusting, check that hood opens and closes normally. Refer to [DLK-298. "HOOD LOCK : Inspection"](#).

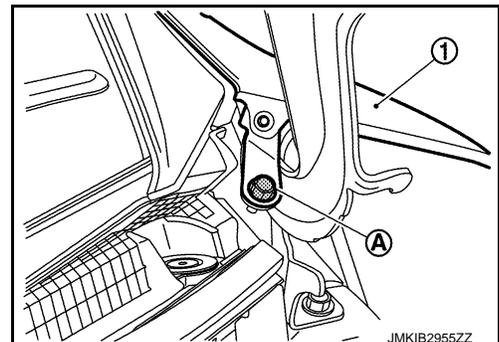
HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:000000010708252

REMOVAL

1. Remove hood assembly. Refer to [DLK-262. "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove upper mounting bolt Ⓐ of front fender assembly ①.



HOOD

[TYPE 1]

< REMOVAL AND INSTALLATION >

3. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the hood hinge.
- After installation, perform hood fitting adjustment. Refer to [DLK-263, "HOOD ASSEMBLY : Adjustment"](#).
- Apply touch-up paint to the body color if the paint around the hinge is peeled off during removal.
- After installation, check that hood opens and closes normally. Refer to [DLK-263, "HOOD ASSEMBLY : Inspection"](#).

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000010708253

CAUTION:

2 workers are required to support the hood.

REMOVAL

1. Support hood assembly with a suitable material to prevent it from falling.

WARNING:

Injury may occur if hood assembly is not supported by the proper material when removing hood assembly.

2. Pull hood support rod from grommet and remove it.

INSTALLATION

Install in the reverse order of removal.

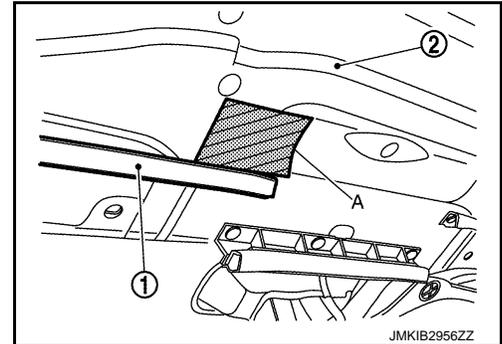
RADIATOR CORE SEAL

RADIATOR CORE SEAL : Removal and Installation

INFOID:000000010708254

REMOVAL

1. Apply protective tape (A) to hood assembly ② around radiator core seal ① fixing clips for preventing damage.

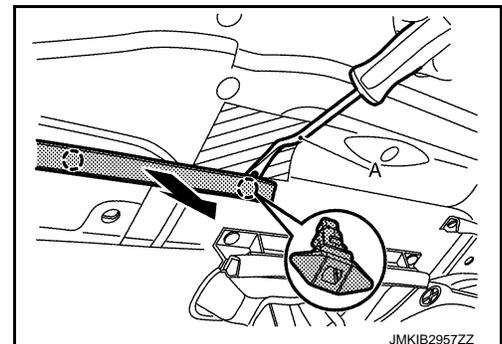


2. Disengage fixing clips on the reverse side of radiator core seal using a remover tool (A).

CAUTION:

Never damage hood assembly.

○ : Clip



3. Remove radiator core seal from hood assembly.

INSTALLATION

HOOD

[TYPE 1]

< REMOVAL AND INSTALLATION >

Install in the reverse order of removal.

HOOD INSULATOR

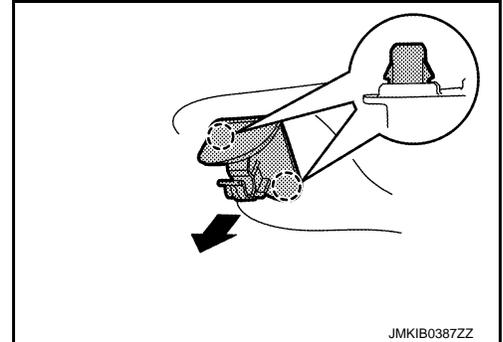
HOOD INSULATOR : Removal and Installation

INFOID:000000010708255

REMOVAL

1. Remove hood rod clamp from hood assembly.

 : Clip



2. Remove hood insulator fixing clips, and then remove hood insulator from hood assembly.

INSTALLATION

Install in the reverse order of removal.

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RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

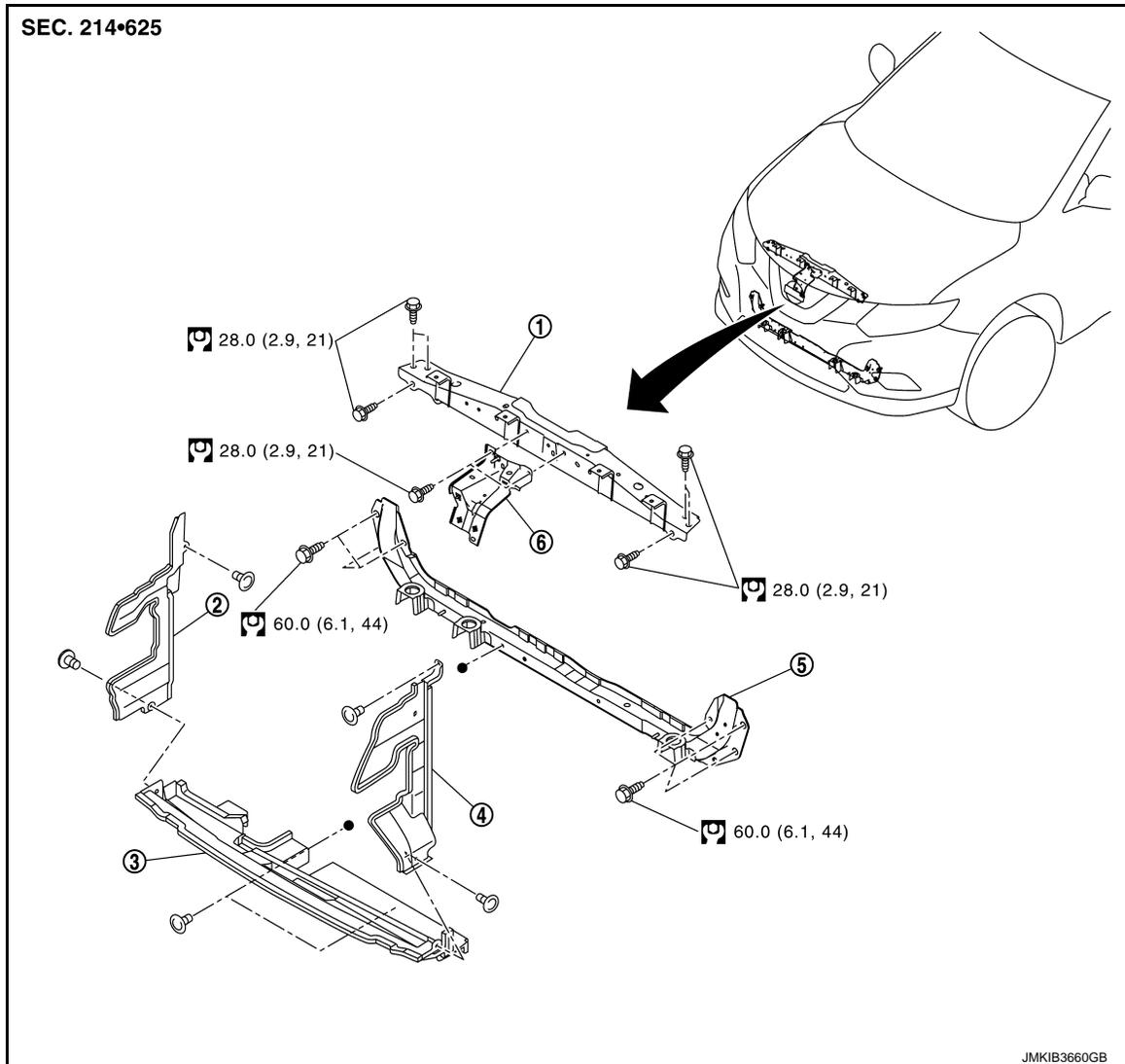
[TYPE 1]

RADIATOR CORE SUPPORT

R9M

R9M : Exploded View

INFOID:000000010728100



- | | | |
|-------------------------------|-------------------------------|--------------------------|
| ① Radiator core support upper | ② Air guide RH | ③ Air lower guide |
| ④ Air guide LH | ⑤ Radiator core support lower | ⑥ Hood lock support stay |

 : N·m (kg·m, ft·lb)

●: Indicates that the part is connected at points with same symbol in actual vehicle.

R9M : Removal and Installation

INFOID:000000010728101

RADIATOR CORE SUPPORT UPPER

Removal

1. Remove air duct 1. Refer to [EM-308. "Removal and Installation"](#).
2. Remove front grille assembly. Refer to [EXT-22. "Removal and Installation"](#).
3. Remove hood lock assembly. Refer to [DLK-297. "HOOD LOCK : Removal and Installation"](#).
4. Remove hood lock control cable fixing clips from radiator core support upper. Refer to [DLK-297. "Exploded View"](#).

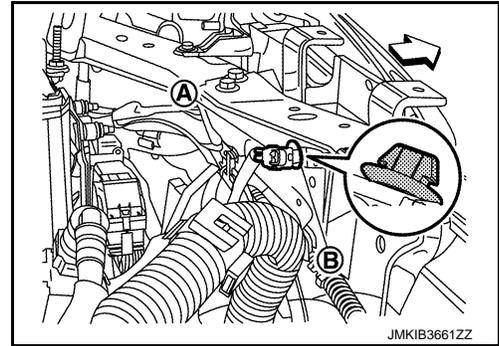
RADIATOR CORE SUPPORT

[TYPE 1]

< REMOVAL AND INSTALLATION >

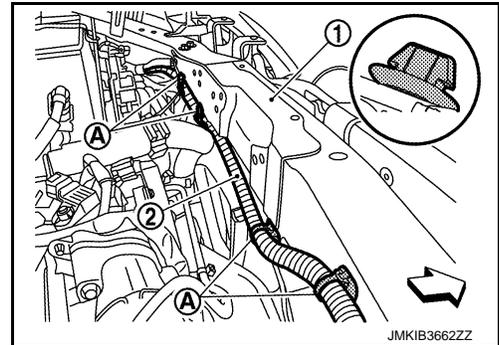
5. Remove fixing clip ② of engine room harness connector ①.

⇐ : Vehicle front



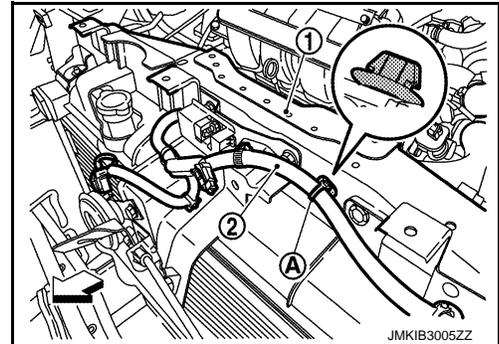
6. Remove fixing clips ① of engine room harness ② from radiator core support upper ③.

⇐ : Vehicle front



7. Remove fixing clip ① of engine room harness ② from radiator core support upper ③.

⇐ : Vehicle front



8. Remove crash zone sensor. Refer to [SR-31. "Removal and Installation"](#).
9. Remove hood lock support stay mounting bolts, and then move hood lock support stay to a location where it does not inhibit work.
10. Remove radiator mounting bracket fixing clips. Refer to [CO-70. "Exploded View"](#).
11. Remove radiator core support upper mounting bolts, and then remove radiator core support upper.

Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

Removal

1. Remove front bumper fascia and apron bracket. Refer to [EXT-15. "Removal and Installation"](#).
2. Remove air lower guide fixing clips, and then remove air lower guide.

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RADIATOR CORE SUPPORT

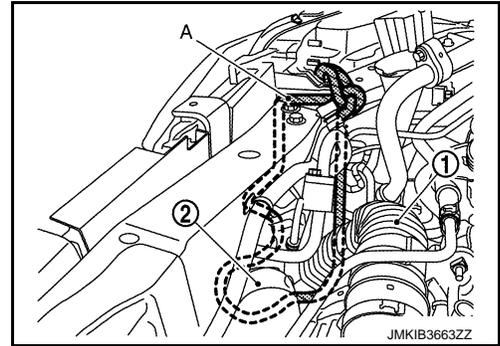
[TYPE 1]

< REMOVAL AND INSTALLATION >

- Using strings (A), hang inlet hose ① and inlet hose ② together with charge air cooler.

CAUTION:

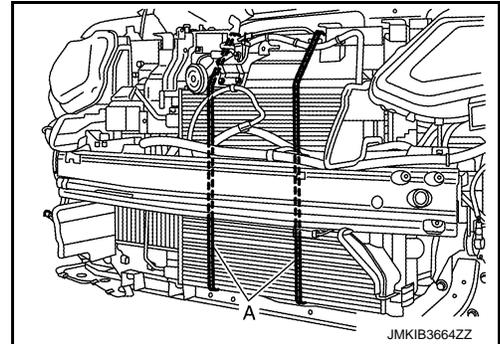
Never damage inlet hoses and charge air cooler.



- Use belts (A) to suspend radiator and condenser to prevent them from falling as shown in the figure.

CAUTION:

Never damage radiator and condenser.



- Remove radiator core support lower mounting bolts, and then remove radiator core support lower.

Installation

Install in the reverse order of removal.

FRONT FENDER

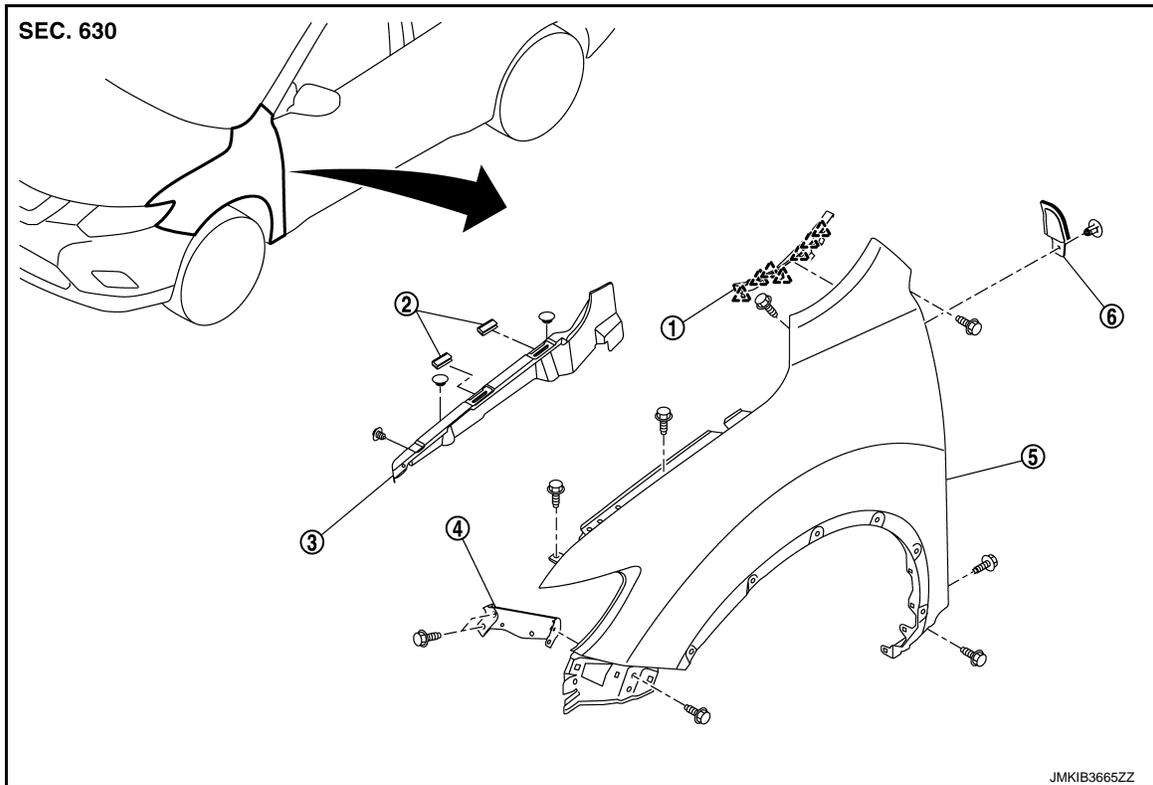
< REMOVAL AND INSTALLATION >

[TYPE 1]

FRONT FENDER

Exploded View

INFOID:000000010708260



- | | | |
|------------------------|-------------------------|---------------------|
| ① Front fender cover | ② Front fender spacer | ③ Front hood seal |
| ④ Front fender bracket | ⑤ Front fender assembly | ⑥ Front fender seal |

△ : Pawl

FRONT FENDER

FRONT FENDER : Removal and Installation

INFOID:000000010708261

REMOVAL

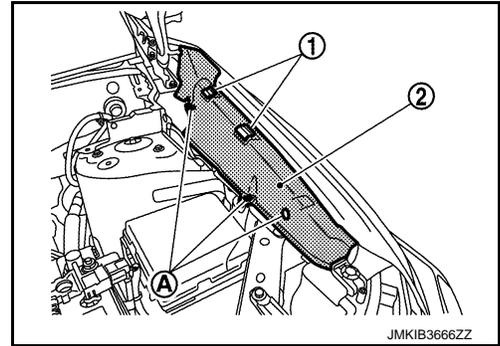
1. Remove front fender protector. Refer to [EXT-35. "FENDER PROTECTOR : Removal and Installation"](#).
2. Remove sill cover. Refer to [EXT-62. "Removal and Installation"](#).
3. Remove front bumper fascia assembly and bumper side bracket. Refer to [EXT-15. "Removal and Installation"](#).
4. Remove front combination lamp. Refer to [EXL-191. "Removal and Installation"](#) (LED headlamp), [EXL-376. "Removal and Installation"](#) (halogen headlamp).
5. Remove front fender cover. Refer to [DLK-272. "FENDER COVER : Removal and Installation"](#).

FRONT FENDER

[TYPE 1]

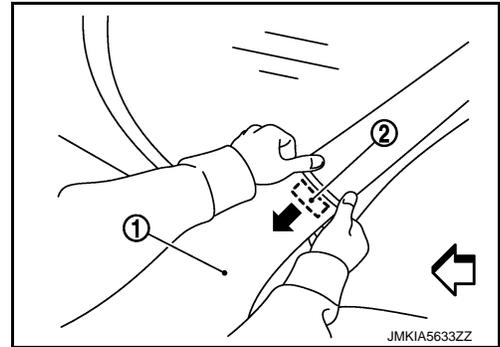
< REMOVAL AND INSTALLATION >

6. Remove front hood seal fixing clips (A) and front fender spacers (1), and then remove front hood seal (2).



7. Remove mounting bolts of front fender assembly.
8. Remove front fender stiffener (2) from the vehicle body while carefully pulling upper portion of front fender (1) toward vehicle outside.

⇐ : Vehicle front



9. Remove front fender assembly.

CAUTION:

A viscous urethane foam is installed on the back surface of front fender. When removing the front fender, be careful to not deform the front fender while performing the procedure and removing the viscous urethane foam a little at a time.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- After installation, adjust the following part.
- Hood assembly: Refer to [DLK-263, "HOOD ASSEMBLY : Adjustment"](#).
- Front door: Refer to [DLK-276, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.

FENDER COVER

FENDER COVER : Removal and Installation

INFOID:000000010708262

REMOVAL

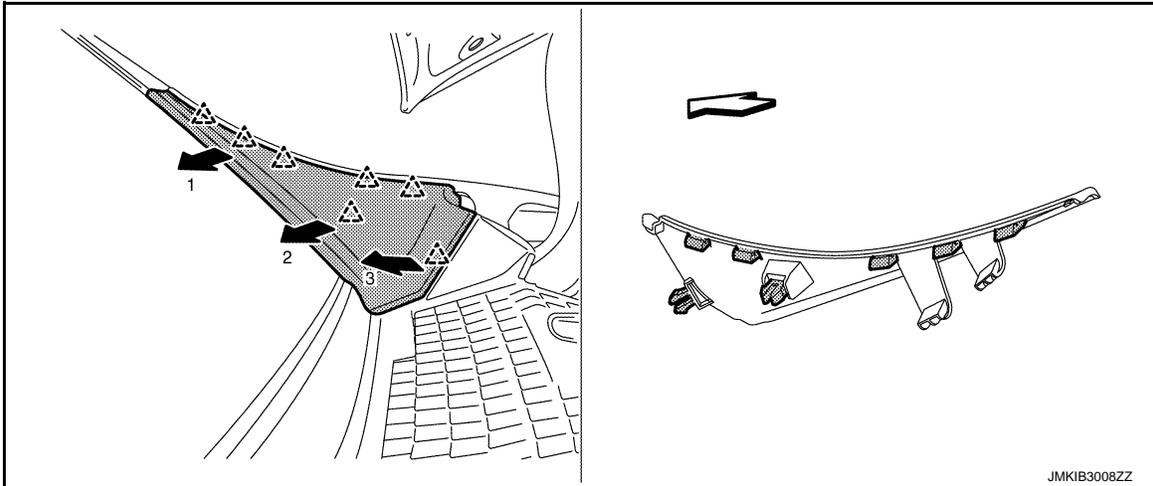
1. Fully open hood assembly.

FRONT FENDER

< REMOVAL AND INSTALLATION >

[TYPE 1]

- Disengage fixing pawls according to the numerical order 1→3 indicated by arrows as shown in the figure, and then remove front fender cover.



- △ : Pawl
⇐ : Vehicle front

CAUTION:

When performing the procedure after removing fender cover, protect the lower of windshield glass with urethane etc.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

Install so that there is no clearance between windshield and cowl top cover.

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FRONT DOOR

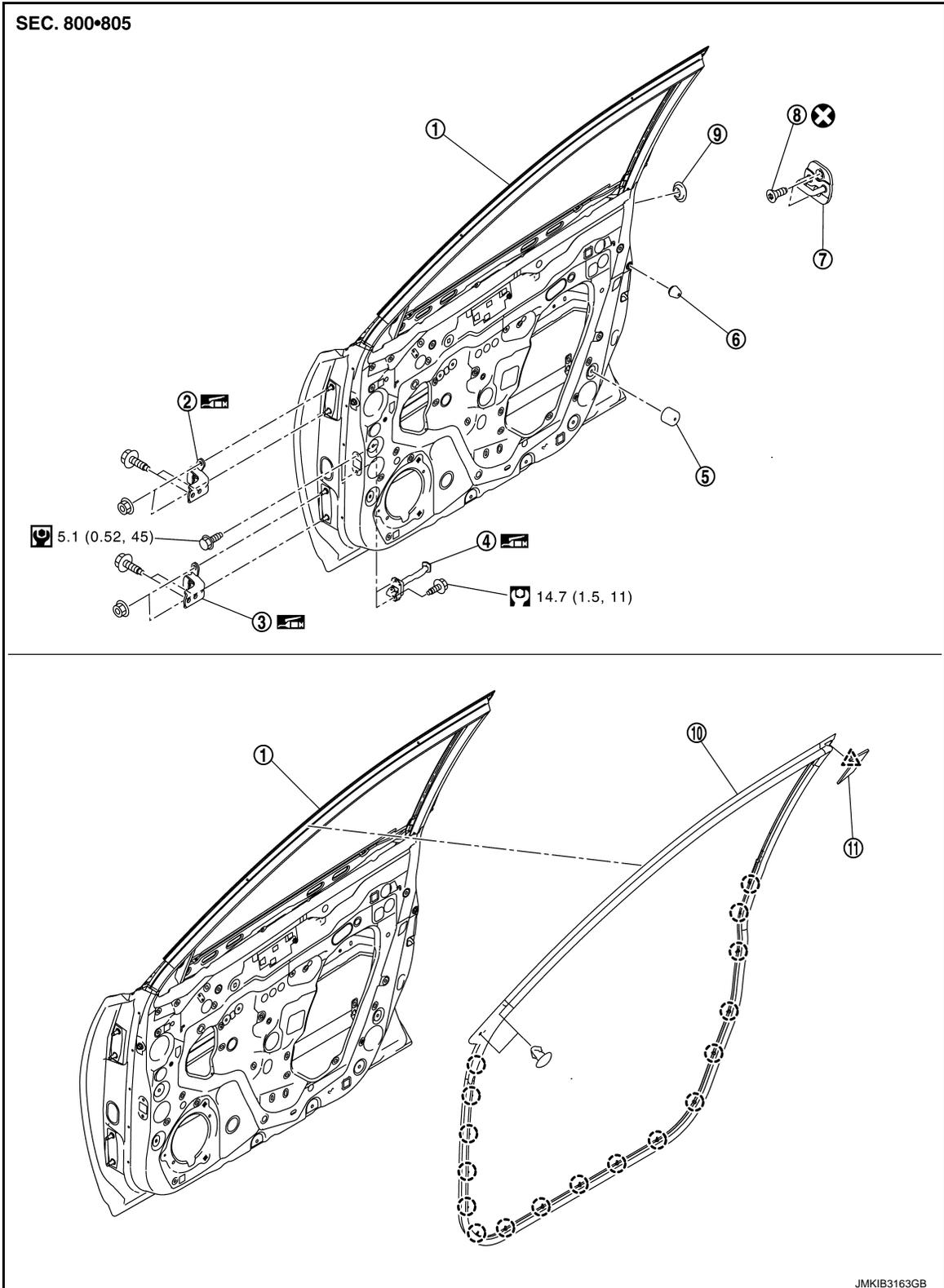
< REMOVAL AND INSTALLATION >

[TYPE 1]

FRONT DOOR

Exploded View

INFOID:000000010708263



① Front door panel

② Door hinge (upper)

③ Door hinge (lower)

④ Door check link

⑤ Bumper rubber

⑥ Bumper rubber

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 1]

- | | | |
|----------------------------|---------------------------------|-----------|
| ⑦ Door striker | ⑧ TORX bolt | ⑨ Grommet |
| ⑩ Front door weather-strip | ⑪ Front door weather-strip clip | |
- : Clip
△ : Pawl
⊗ : Always replace after every disassembly.
Ⓜ : N·m (kg-m, in-lb)
Ⓜ : N·m (kg-m, ft-lb)
🛢 : Body grease

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

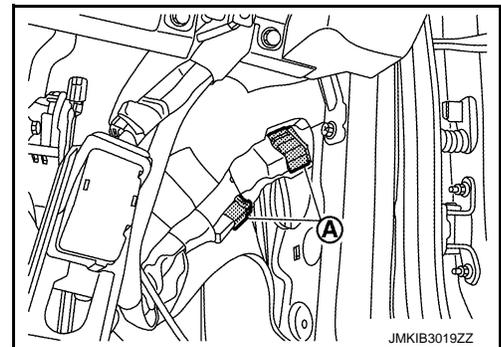
INFOID:000000010708264

CAUTION:

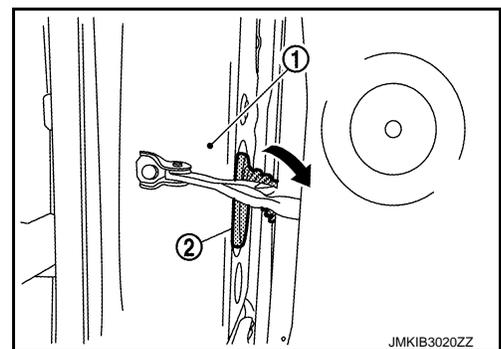
- Perform work with 2 workers, because of its heavy weight.
- When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

1. Remove dash side finisher. Refer to [INT-26. "DASH SIDE FINISHER : Removal and Installation"](#).
2. Remove SMJ (super multiple junction).
3. Disconnect front door harness connectors (A).



4. Remove front door harness grommet (2) from vehicle body (1), and then pull out front door harness from vehicle body.



5. Remove mounting bolt of door check link on vehicle body.
6. Remove door hinge mounting nuts of door side, and then remove front door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-276. "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

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FRONT DOOR

[TYPE 1]

< REMOVAL AND INSTALLATION >

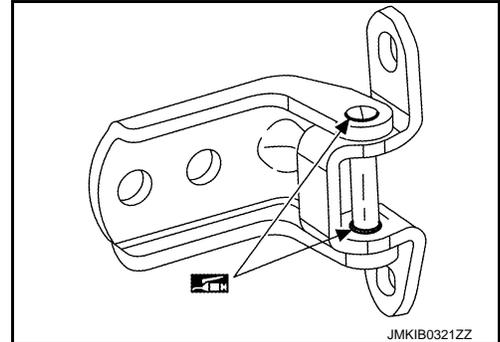
- After installation, check that door opens and closes normally. Refer to [DLK-276. "DOOR ASSEMBLY : Inspection"](#).

DOOR ASSEMBLY : Inspection

INFOID:000000010708265

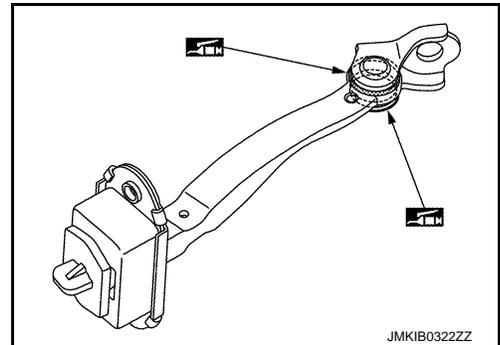
1. Open and close the door. Check that door hinge and check link rotation portion moves smoothly.
2. Check door hinge rotating part for poor lubrication. Apply body grease if necessary.

 : Body grease



3. Check door check link rotating part for poor lubrication. Apply body grease if necessary.

 : Body grease



DOOR ASSEMBLY : Adjustment

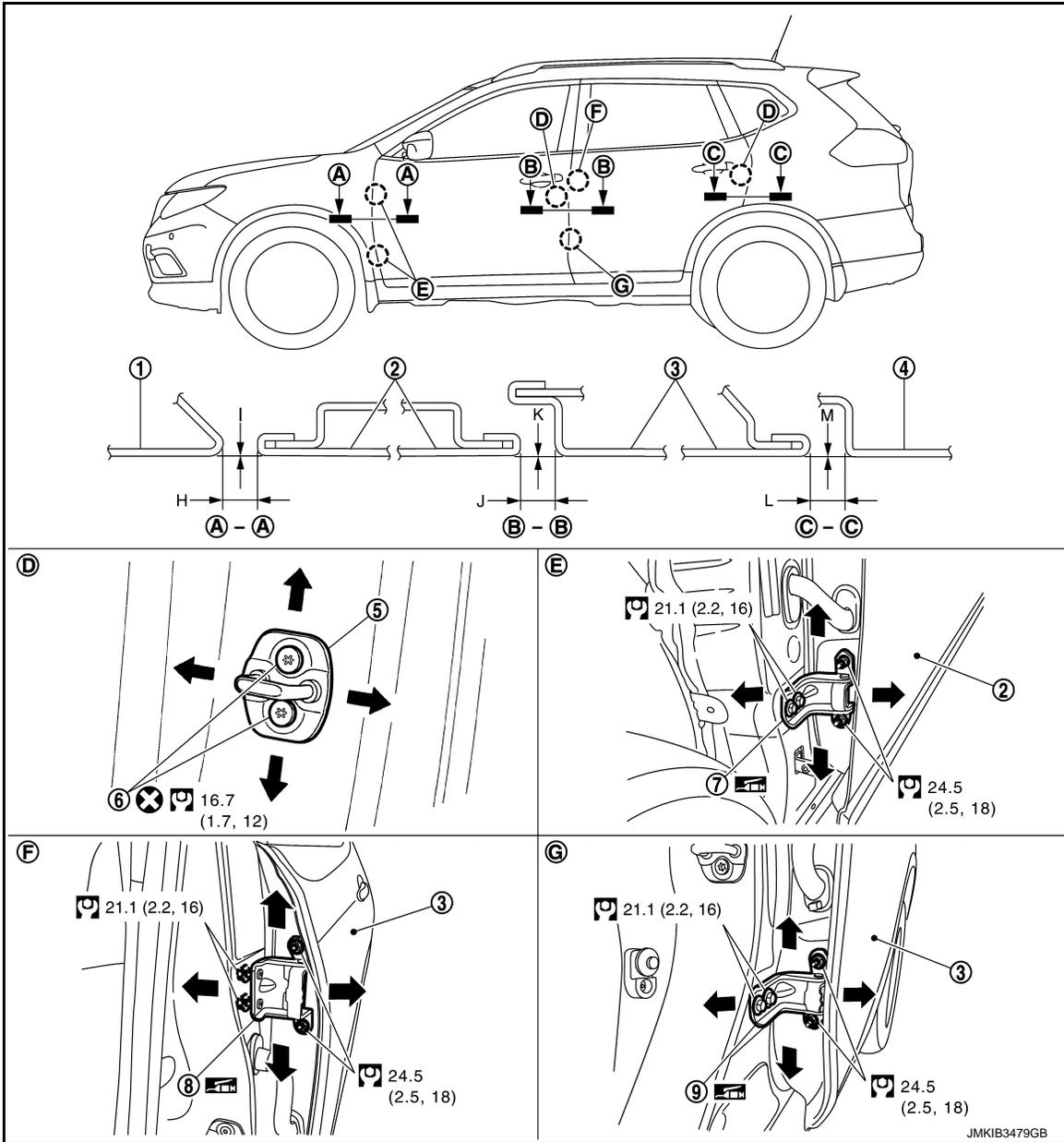
INFOID:000000010708266

FITTING ADJUSTMENT

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 1]



- ① Front fender
- ② Front door
- ③ Rear door
- ④ Body side outer
- ⑤ Door striker
- ⑥ TORX bolt
- ⑦ Front door hinge
- ⑧ Rear door hinge (upper)
- ⑨ Rear door hinge (lower)

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, ft·lb)

Ⓜ : Body grease

Fitting Adjustment Standard

Check the clearance and surface height between front door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

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FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 1]

Unit: mm [in]

Portion				Standard
Front fender – Front door	Ⓐ – Ⓐ	H	Clearance	3.0 – 5.0 [0.118 – 0.197]
		I	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]
Front door – Rear door	Ⓑ – Ⓑ	J	Clearance	3.3 – 5.3 [0.130 – 0.209]
		K	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]

Fitting Adjustment Procedure

1. Remove front fender assembly. Refer to [DLK-271, "FRONT FENDER : Removal and Installation"](#).
2. Loosen door hinge mounting nuts of door side.
3. Adjust the surface height of front door according to the fitting standard dimension.
4. Temporarily tighten door hinge mounting nuts on door side.
5. Loosen door hinge mounting bolts of vehicle body side.
6. Raise front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
7. After adjustment, tighten bolts and nuts to the specified torque.
CAUTION:
After installation, apply touch-up paint (the body color) onto the head of hinge mounting bolts and nuts.
8. Install front fender assembly. Refer to refer to [DLK-271, "FRONT FENDER : Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:0000000010708267

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- After installation, perform the fitting adjustment. Refer to [DLK-276, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, check that door opens and closes normally. Refer to [DLK-276, "DOOR ASSEMBLY : Inspection"](#).

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:0000000010708268

REMOVAL

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
 - When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.
1. Remove front door assembly. Refer to [DLK-275, "DOOR ASSEMBLY : Removal and Installation"](#).
 2. Remove front fender assembly. Refer to [DLK-271, "FRONT FENDER : Removal and Installation"](#).
 3. Remove front door hinge mounting bolts of vehicle body side, and then remove front door hinge.

INSTALLATION

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 1]

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-276, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts.
- After installation, check that door opens and closes normally. Refer to [DLK-276, "DOOR ASSEMBLY : Inspection"](#).

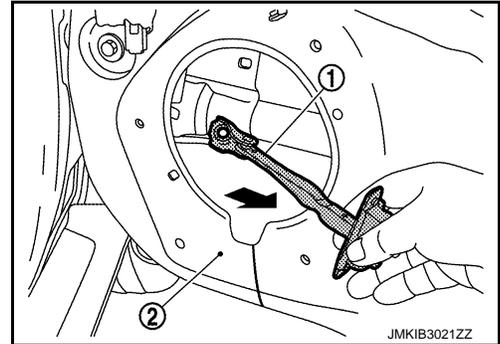
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000010708269

REMOVAL

1. Fully close front door glass.
2. Remove front door finisher. Refer to [INT-14, "Removal and Installation"](#).
3. Disconnect harness connector of front door speaker.
4. Remove mounting bolts of front door speaker, and then remove front door speaker.
5. Remove door check link mounting bolt of vehicle body side.
6. Remove door check link mounting bolts of door panel, and then take door check link ① out from the hole of door panel ②.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check that door opens and closes normally. Refer to [DLK-276, "DOOR ASSEMBLY : Inspection"](#).

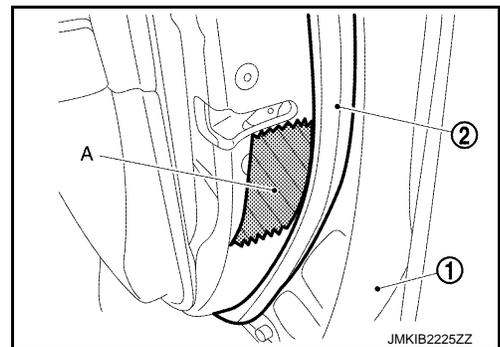
DOOR WEATHER-STRIP

DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000010708270

REMOVAL

1. Apply protective tape (A) to front door panel ① around front door weather-strip ② fixing clips for preventing damage.



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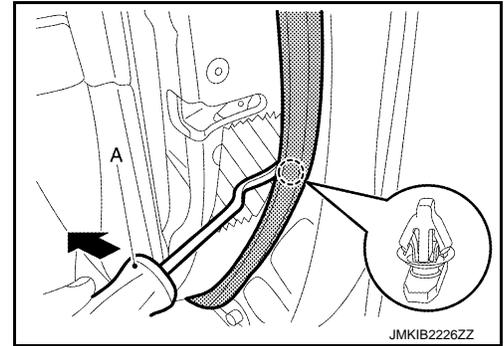
FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 1]

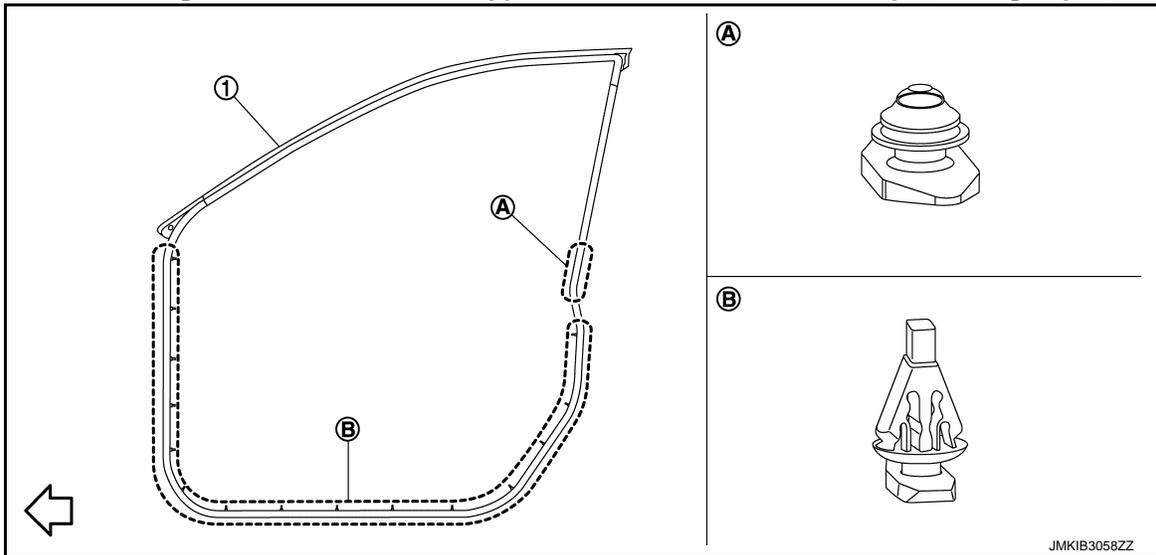
- Disengage fixing clips on the reverse side of front door weather-strip using a remover tool (A).

○ : Clip



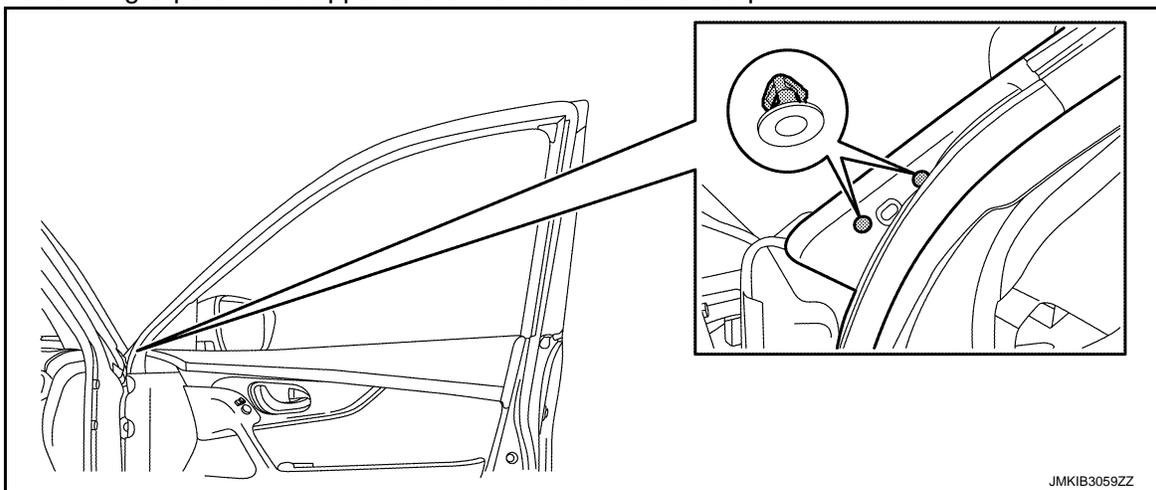
CAUTION:

- Never damage front door panel.
- When removing, never confuse the 2 types of front door weather-strip ① fixing clips (A) and (B).



← : Vehicle front

- Remove fixing clips on front upper end of front door weather-strip.

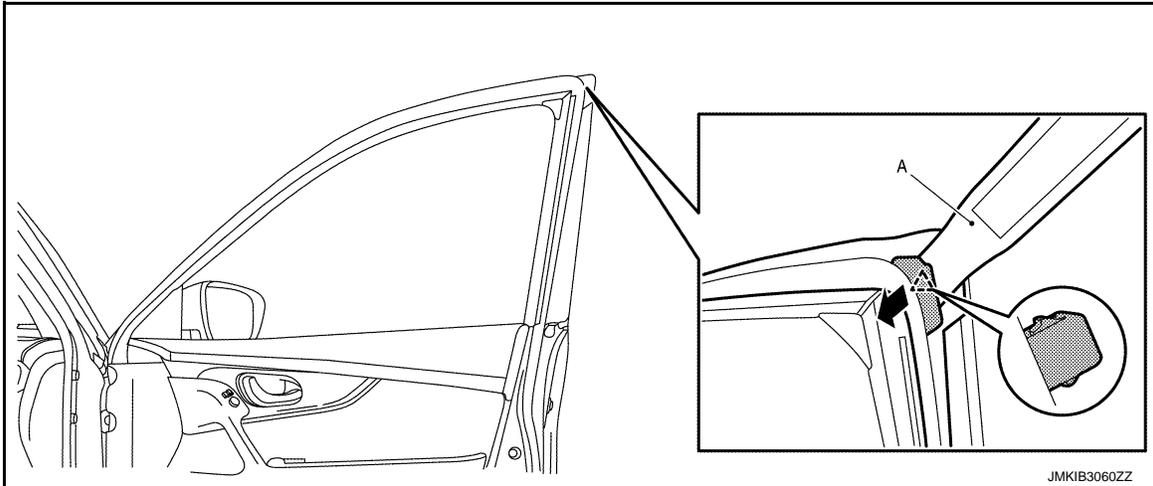


FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 1]

4. Disengage fixing pawl on rear upper end of front door weather-strip using a remover tool (A), and then remove weather-strip clip.



 : Pawl

5. Remove door check link mounting bolt of vehicle body side.
6. Remove front door weather-strip from front door panel.

INSTALLATION

Install in the reverse order of removal.

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REAR DOOR

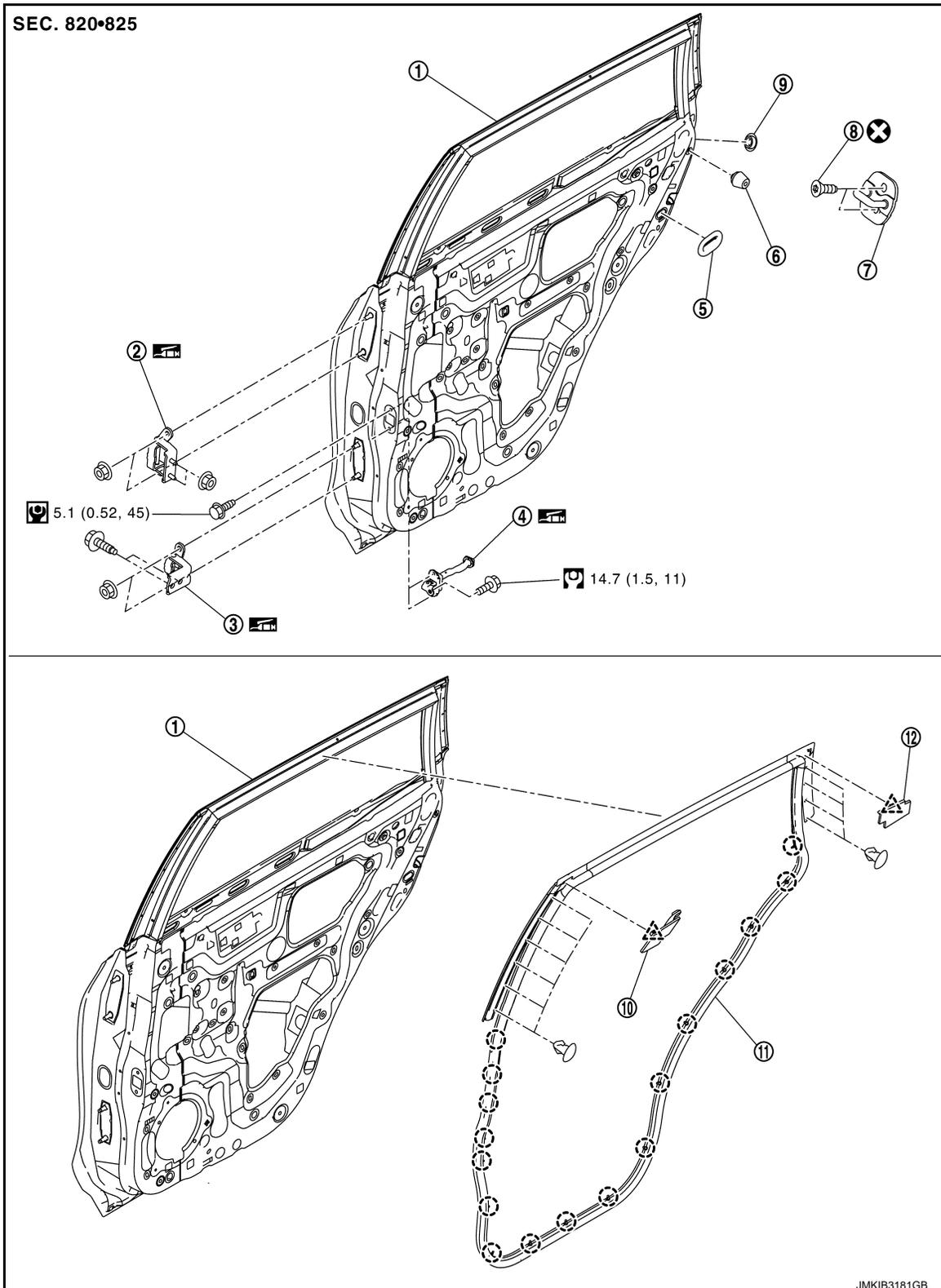
< REMOVAL AND INSTALLATION >

[TYPE 1]

REAR DOOR

Exploded View

INFOID:000000010708271



- ① Rear door panel
- ② Door hinge (upper)
- ③ Door hinge (lower)
- ④ Door check link
- ⑤ Child lock lever cover
- ⑥ Bumper rubber

REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 1]

- | | | |
|--------------------------------|---------------------------|--------------------------------|
| ⑦ Door striker | ⑧ TORX bolt | ⑨ Grommet |
| ⑩ Rear door weather-strip clip | ⑪ Rear door weather-strip | ⑫ Rear door weather-strip clip |
- : Clip
△ : Pawl
⊗ : Always replace after every disassembly.
Ⓜ : N·m (kg-m, in-lb)
Ⓜ : N·m (kg-m, ft-lb)
Ⓜ : Body grease

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

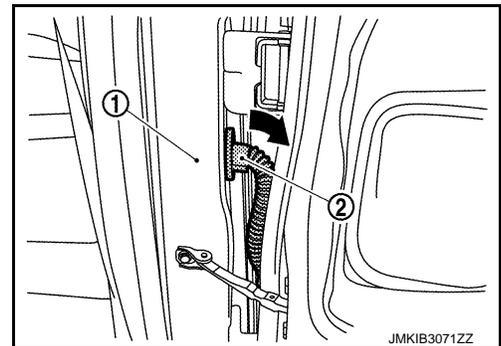
INFOID:000000010708272

CAUTION:

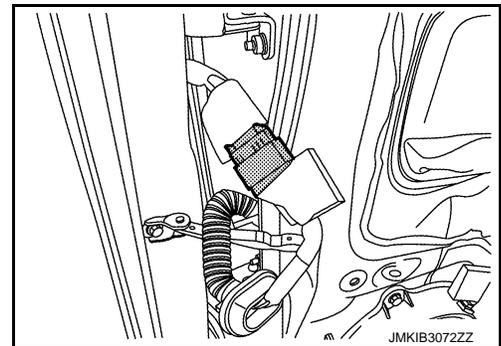
- Perform work with 2 workers, because of its heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

1. Remove rear door harness grommet ② from vehicle body ①, and then pull out rear door harness.



2. Disconnect rear door harness connector.



3. Remove mounting bolt of door check link of vehicle body side.
4. Remove door hinge mounting nuts of door side, and then remove door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-284, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-284, "DOOR ASSEMBLY : Inspection"](#).

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REAR DOOR

< REMOVAL AND INSTALLATION >

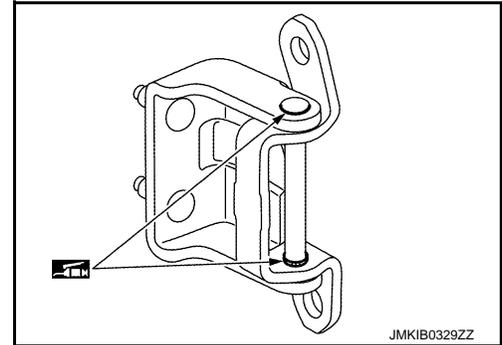
[TYPE 1]

DOOR ASSEMBLY : Inspection

INFOID:0000000110708273

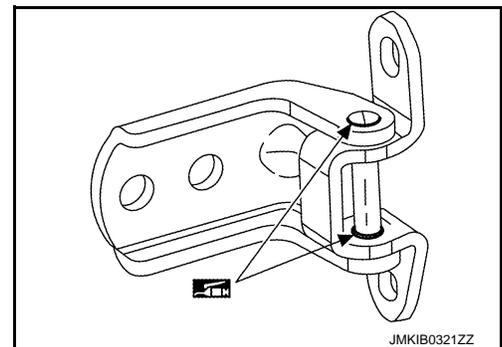
1. Open and close the door. Check that door hinge and check link rotation portion moves smoothly.
2. Check door hinge rotating part for poor lubrication. Apply body grease if necessary.
 - Door hinge (upper)

 : Body grease



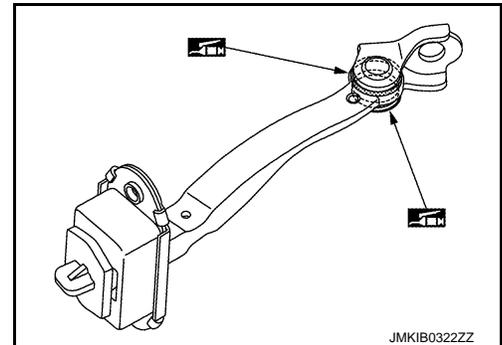
- Door hinge (lower)

 : Body grease



3. Check door check link rotating part for poor lubrication. Apply body grease if necessary.

 : Body grease



DOOR ASSEMBLY : Adjustment

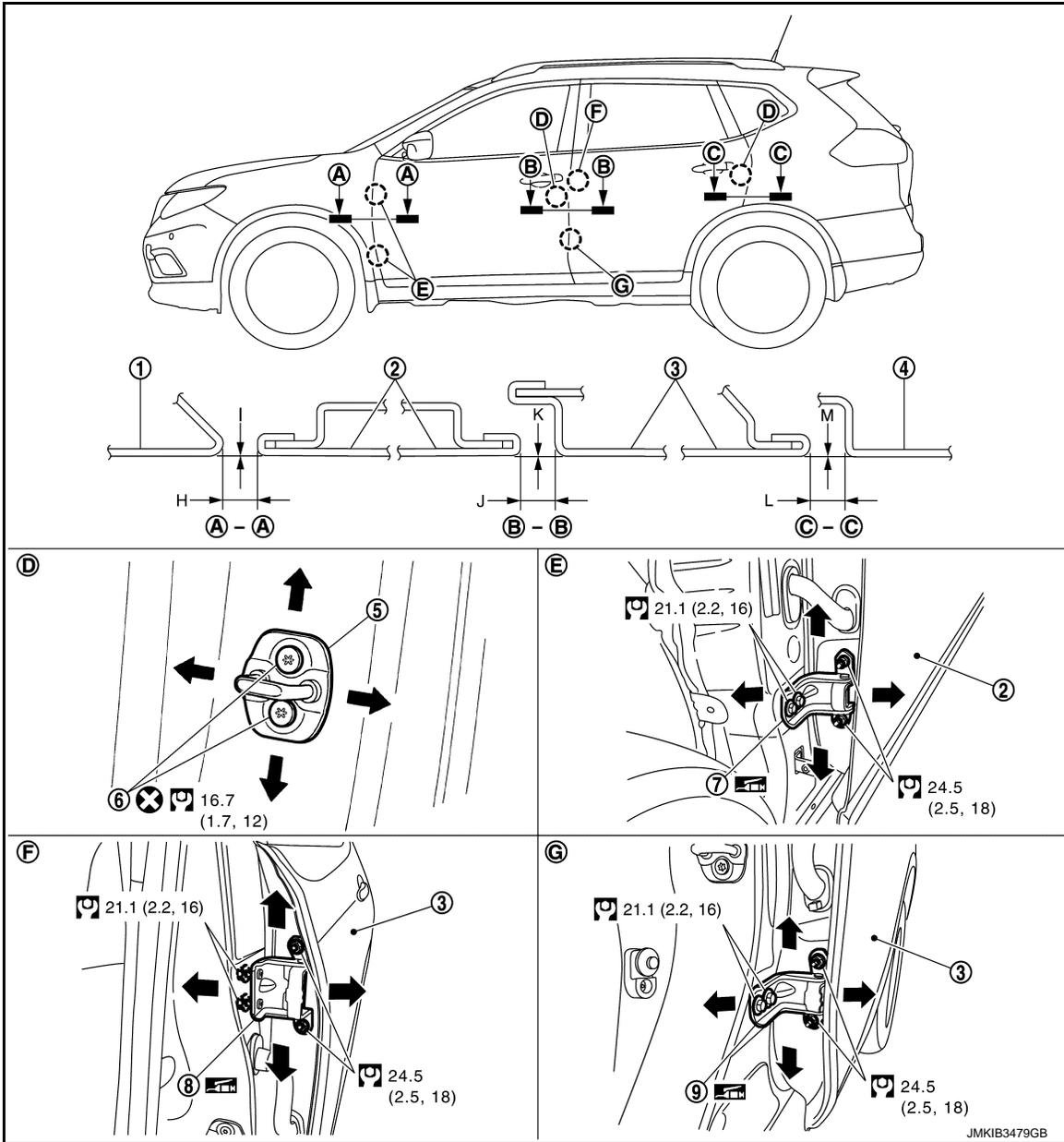
INFOID:0000000110708274

FITTING ADJUSTMENT

REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 1]



- ① Front fender
- ② Front door
- ③ Rear door
- ④ Body side outer
- ⑤ Door striker
- ⑥ TORX bolt
- ⑦ Front door hinge
- ⑧ Rear door hinge (upper)
- ⑨ Rear door hinge (lower)

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, ft·lb)

Ⓜ : Body grease

Fitting Adjustment Standard

Check the clearance and surface height between rear door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

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REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 1]

Unit: mm [in]

Portion				Standard
Front door – Rear door	Ⓑ – Ⓑ	J	Clearance	3.3 – 5.3 [0.130 – 0.209]
		K	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]
Rear door – Body side outer	Ⓒ – Ⓒ	L	Clearance	3.0 – 5.0 [0.118 – 0.197]
		M	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]

Fitting Adjustment Procedure

1. Remove center pillar lower garnish. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).
2. Loosen door hinge mounting nuts of door side.
3. Adjust the surface height of rear door according to the fitting standard dimension.
4. Temporarily tighten door hinge mounting nuts of door side.
5. Loosen door hinge mounting nuts and bolts of vehicle body side.
6. Raise rear door at rear end to adjust clearance of rear door according to the fitting standard dimension.
7. After adjustment, tighten bolts and nuts to the specified torque.
CAUTION:
After installation, apply touch-up paint (the body color) onto the head of hinge mounting bolts and nuts.
8. Install center pillar lower garnish. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:000000010708275

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- After installation, perform the fitting adjustment. Refer to [DLK-284, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, check that door opens and closes normally. Refer to [DLK-284, "DOOR ASSEMBLY : Inspection"](#).

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:000000010708276

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

1. Remove rear door assembly. Refer to [DLK-283, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove center pillar lower garnish. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).

REAR DOOR

[TYPE 1]

< REMOVAL AND INSTALLATION >

3. Remove rear door hinge mounting bolts and nuts of vehicle body side, and then remove rear door hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-284, "DOOR ASSEMBLY : Adjustment"](#).
- After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-284, "DOOR ASSEMBLY : Inspection"](#).

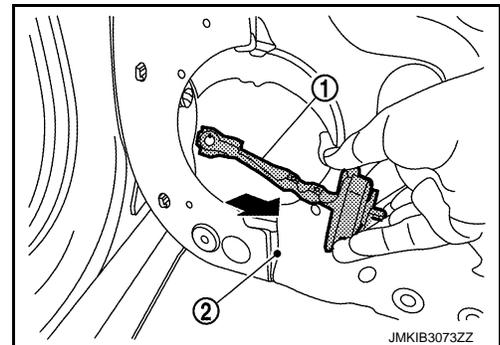
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:0000000010708277

REMOVAL

1. Fully close rear door glass.
2. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
3. Disconnect harness connector of rear door speaker.
4. Remove mounting bolts of rear door speaker, and then remove rear door speaker.
5. Remove door check link mounting bolt of vehicle body side.
6. Remove door check link mounting bolts of door panel, and then take door check link ① out from the hole of door panel ②.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check that door opens and closes normally. Refer to [DLK-284, "DOOR ASSEMBLY : Inspection"](#).

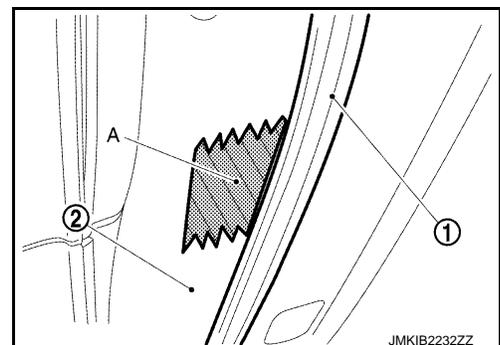
DOOR WEATHER-STRIP

DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000010708278

REMOVAL

1. Apply protective tape (A) to rear door panel ② around rear door weather-strip ① fixing clips for preventing damage.



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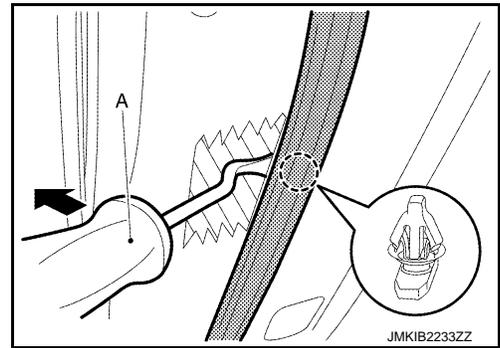
REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 1]

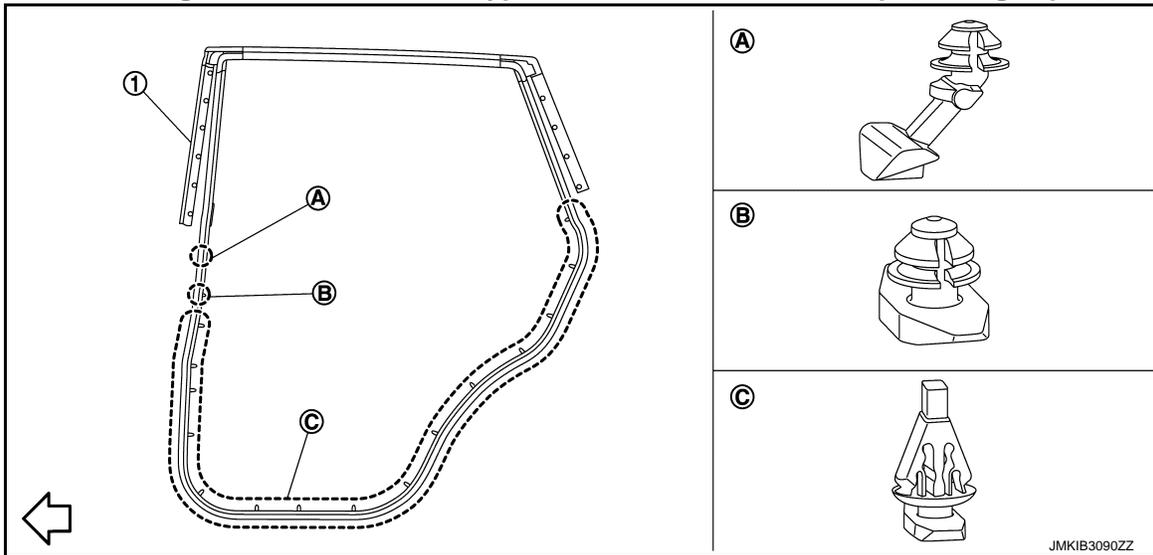
- Disengage fixing clips on the reverse side of rear door weather-strip using a remover tool (A).

 : Clip



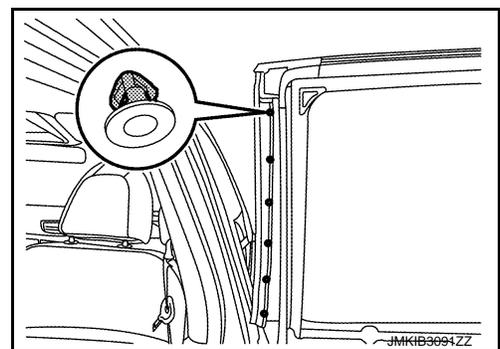
CAUTION:

- Never damage rear door panel.
- When removing, never confuse the 3 types of rear door weather-strip ① fixing clips (A), (B) and (C).



 : Vehicle front

- Remove front fixing clips from weather-strip.

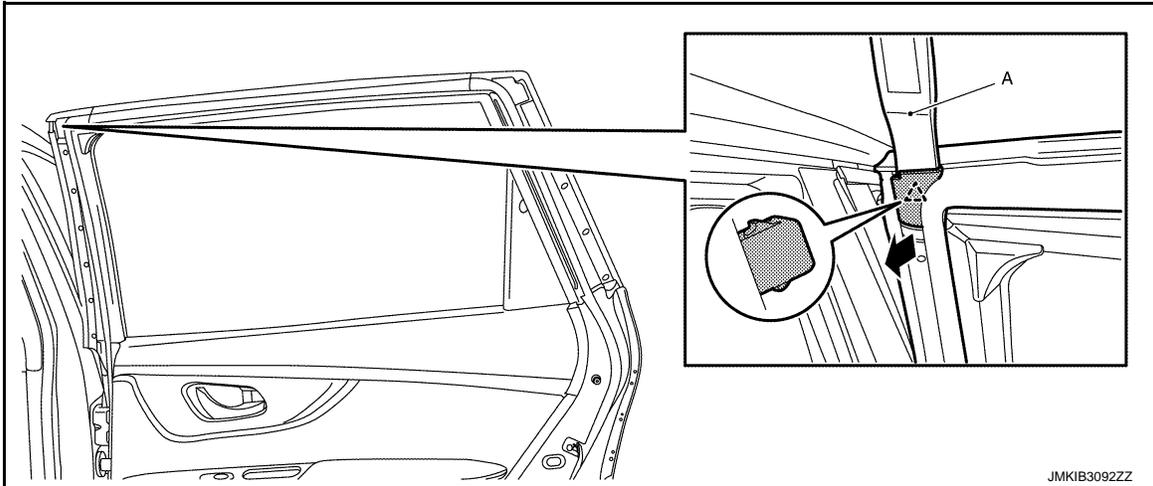


REAR DOOR

< REMOVAL AND INSTALLATION >

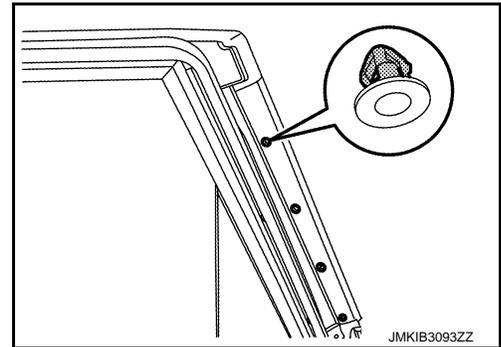
[TYPE 1]

4. Disengage fixing pawl on front upper end of rear door weather-strip using a remover tool (A), and then remove weather-strip clip.

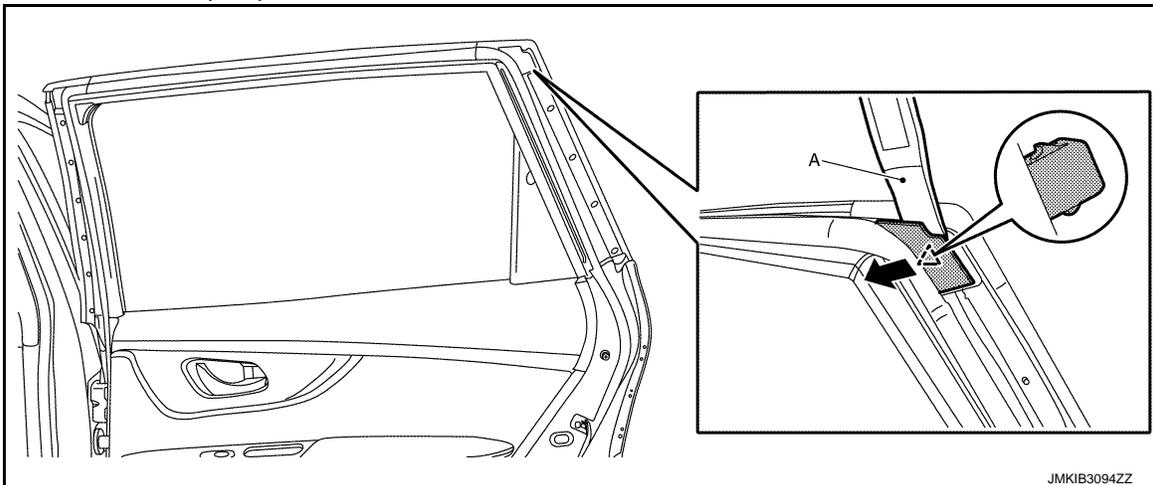


 : Pawl

5. Remove rear fixing clips from weather-strip.



6. Disengage fixing pawl on rear upper end of rear door weather-strip using a remover tool (A), and then remove weather-strip clip.



 : Pawl

7. Remove door check link mounting bolt of vehicle body side.
8. Remove rear door weather-strip from rear door panel.

INSTALLATION

Install in the reverse order of removal.

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BACK DOOR

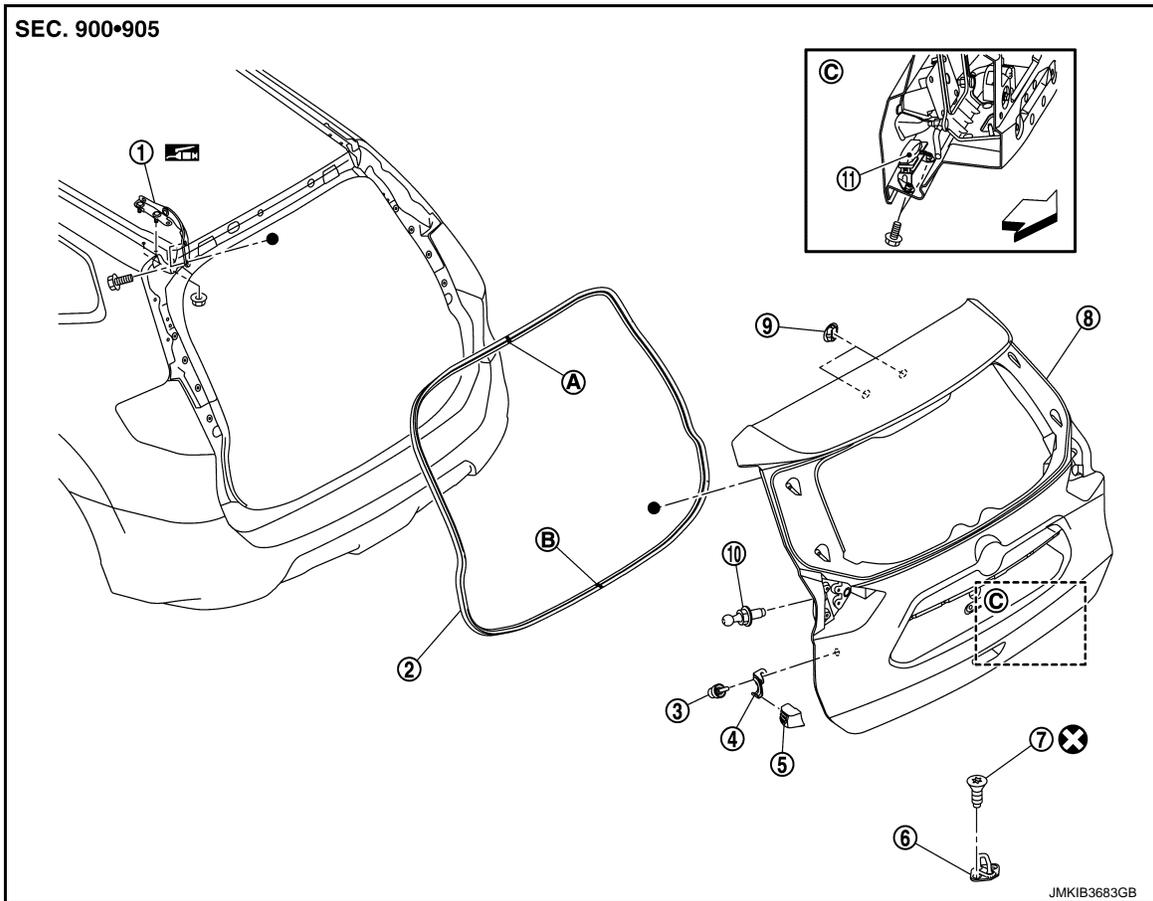
< REMOVAL AND INSTALLATION >

[TYPE 1]

BACK DOOR

Exploded View

INFOID:000000010708279



- | | | |
|-------------------|---------------------------|---------------------|
| ① Back door hinge | ② Back door weather-strip | ③ Bumper rubber |
| ④ Wedge bracket | ⑤ Back door wedge | ⑥ Back door striker |
| ⑦ TORX bolt | ⑧ Back door panel | ⑨ Plug |
| ⑩ Stud ball | ⑪ Back door damper | |

(A) : Center mark

(B) : Seam

← : Vehicle front

⊗ : Always replace after every disassembly.

⌘ : N·m (kg·m, in·lb)

⌘ : Body grease

● : Indicates that the part is connected at points with same symbol in actual vehicle.

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000010708280

CAUTION:

- Back door is made of resin. Never apply strong force to it, and be careful to prevent contact with oil.
- Perform work with 2 workers, because of its heavy weight.
- Use protective tape or shop cloth to protect from damage during removal and installation.

BACK DOOR

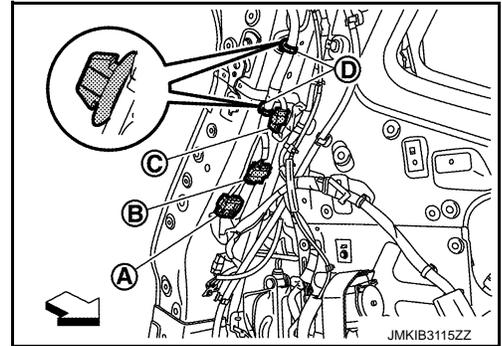
< REMOVAL AND INSTALLATION >

[TYPE 1]

REMOVAL

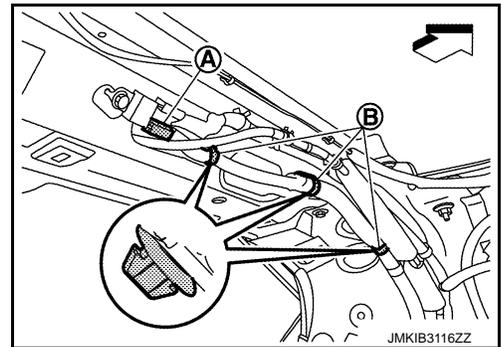
1. Remove headlining. Refer to [INT-37. "Removal and Installation"](#).
2. Disconnect back door harness connectors (A), (B) and (C), and then remove harness fixing clips (D).

← : Vehicle front

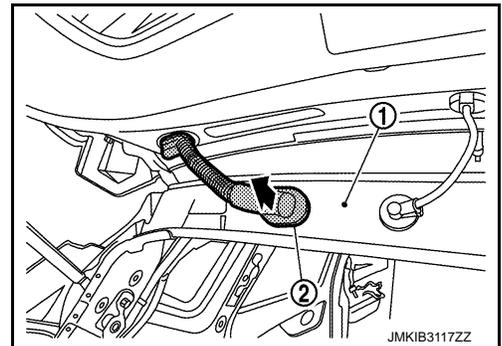


3. Disconnect harness connector (A), and then remove harness fixing clips (B).

← : Vehicle front

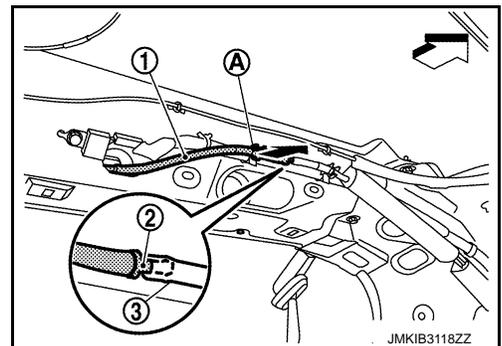


4. Remove grommet (2) from roof panel (1), and then pull out back door harness from vehicle body.



5. Remove air tube (1) from tube clip (A), and then disconnect tube joint connector (2) and air tube (3) (with around view monitor).

← : Vehicle front



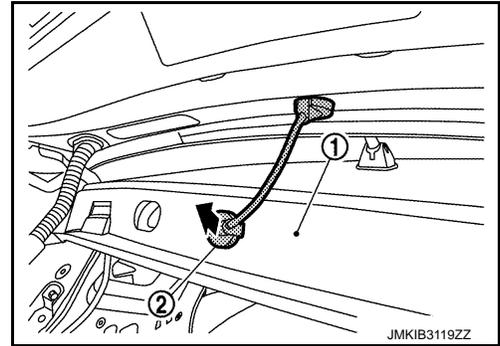
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BACK DOOR

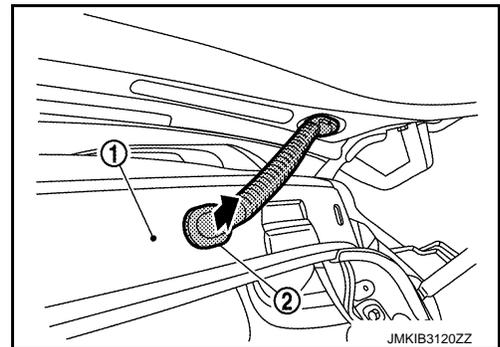
[TYPE 1]

< REMOVAL AND INSTALLATION >

6. Remove tube grommet ② from roof panel ①, and then pull out air tube from vehicle body.



7. Disconnect rear washer tube A and rear washer tube B. Refer to [WW-102. "REAR WASHER TUBE : Removal and Installation"](#).
8. Disconnect rear view camera washer tube (with around view monitor). Refer to [DAS-156. "Removal and Installation"](#).
9. Remove tube grommet ② from roof panel ①, and then pull out rear washer tube B and rear camera washer tube from vehicle body.



10. Support back door with the proper material to prevent it from falling.

WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

11. Remove spindle unit from back door. Refer to [DLK-313. "SPINDLE UNIT : Removal and Installation"](#).
12. Remove back door hinge mounting nuts of back door and remove back door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- After installation, perform the fitting adjustment. Refer to [DLK-293. "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, check whether harness is not pinched. If harness is pinched, pull harness downward lightly.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-292. "BACK DOOR ASSEMBLY : Inspection"](#).

BACK DOOR ASSEMBLY : Inspection

INFOID:000000010708281

1. Open and close the back door. Check that door hinge rotation portion moves smoothly.

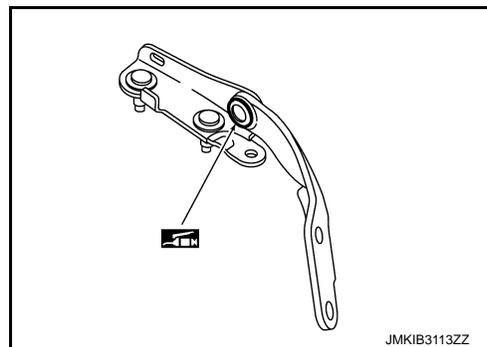
BACK DOOR

< REMOVAL AND INSTALLATION >

[TYPE 1]

2. Check back door hinge rotating part for poor lubrication. Apply body grease if necessary.

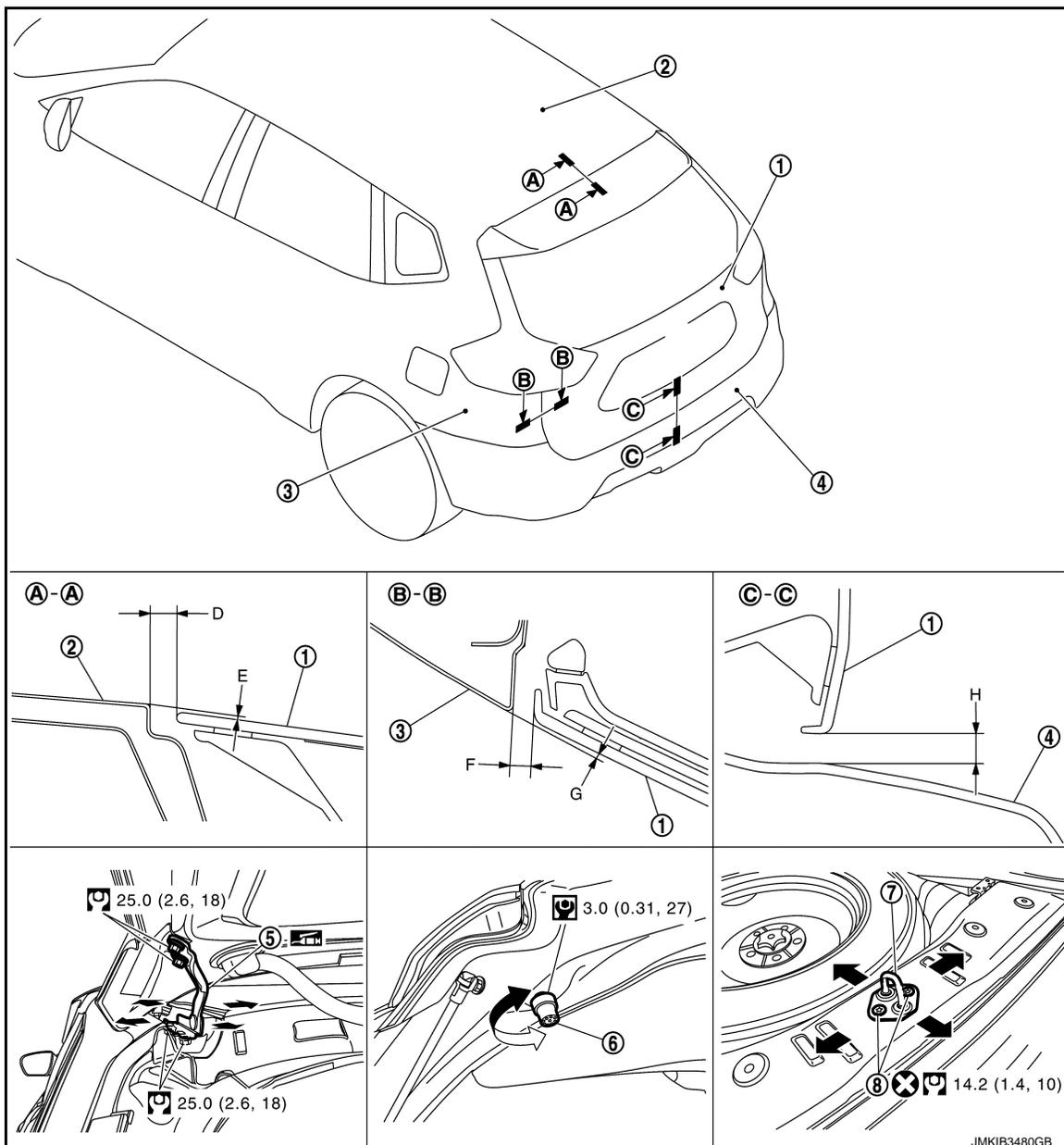
 : Body grease



BACK DOOR ASSEMBLY : Adjustment

INFOID:000000010708282

FITTING ADJUSTMENT



- | | | |
|----------------------|-------------------|-------------------------|
| ① Back door assembly | ② Roof panel | ③ Body side outer panel |
| ④ Rear bumper fascia | ⑤ Back door hinge | ⑥ Bumper rubber |

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BACK DOOR

< REMOVAL AND INSTALLATION >

[TYPE 1]

- ⑦ Back door striker ⑧ TORX bolt

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, ft·lb)

🛠 : Body grease

Fitting Adjustment Standard

Check the clearance and the surface height between back door and each part by seeing and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

When back door is reused.

Unit: mm [in]

Portion			Standard	Difference (LH/RH, MAX)
Back door – Roof panel	Ⓐ – Ⓐ	D	5.0 – 9.0 [0.197 – 0.354]	—
		E	(-3.0) – (+1.0) [(-0.118) – (+0.039)]	—
Back door – Body side outer panel	Ⓑ – Ⓑ	F	3.0 – 7.0 [0.118 – 0.276]	<2.0 [0.079]
		G	(-3.0) – (+1.0) [(-0.118) – (+0.039)]	—
Back door – Rear bumper fascia	ⓒ – ⓒ	H	5.5 – 9.5 [0.217 – 0.374]	—

When back door is replaced.

Unit: mm [in]

Portion			Standard	Difference (LH/RH, MAX)
Back door – Roof panel	Ⓐ – Ⓐ	D	5.1 – 9.1 [0.201 – 0.358]	—
		E	(-2.0) – (+2.0) [(-0.079) – (+0.079)]	—
Back door – Body side outer panel	Ⓑ – Ⓑ	F	2.5 – 6.5 [0.098 – 0.256]	<2.0 [0.079]
		G	(-3.3) – (+0.7) [(-0.130) – (+0.028)]	—
Back door – Rear bumper fascia	ⓒ – ⓒ	H	5.7 – 9.7 [0.224 – 0.382]	—

Fitting Adjustment Procedure

- Loosen back door hinge mounting nuts of back door side.
- Loosen bumper rubber.
- Remove luggage rear plate mask. Refer to [INT-41, "LUGGAGE REAR PLATE : Removal and Installation"](#).
- Loosen back door striker mounting TORX bolts.
- Position back door lock assembly and engage back door striker. Check back door lock assembly and back door striker for looseness.
- Adjust the clearance and surface height of back door according to the fitting standard dimension by back door hinge and bumper rubber.

BACK DOOR

[TYPE 1]

< REMOVAL AND INSTALLATION >

7. After adjustment, tighten back door striker mounting TORX bolts, bumper rubber and back door hinge mounting nuts of back door side to the specified torque.

CAUTION:

After installation, apply touch-up paint to the body color if the paint around back door hinge and back door hinge mounting nuts is peeled off.

8. Install luggage rear plate mask. Refer to [INT-41, "LUGGAGE REAR PLATE : Removal and Installation"](#).

CAUTION:

- After adjusting, check that bumper rubber is in contact with vehicle body surely.
- After adjusting, check that door opens and closes normally. Refer to [DLK-292, "BACK DOOR ASSEMBLY : Inspection"](#).
- After adjusting, perform calibration of automatic back door position information (with automatic back door). Refer to [DLK-117, "Work Procedure"](#).
- After adjusting, perform calibration camera image (with around view monitor). Refer to [AV-161, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Work Procedure"](#) (with navigation).

BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that it becomes parallel with back door lock insertion direction.

BACK DOOR STRIKER

BACK DOOR STRIKER : Removal and Installation

INFOID:000000010708283

REMOVAL

1. Remove luggage rear plate. Refer to [INT-41, "LUGGAGE REAR PLATE : Removal and Installation"](#).
2. Remove TORX bolts, and then remove back door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- After installation, perform the fitting adjustment. Refer to [DLK-293, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, check that door opens and closes normally. Refer to [DLK-292, "BACK DOOR ASSEMBLY : Inspection"](#).

BACK DOOR HINGE

BACK DOOR HINGE : Removal and Installation

INFOID:000000010708284

DLK

REMOVAL

1. Remove back door assembly. Refer to [DLK-290, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove back door hinge cover. Refer to [EXT-46, "Removal and Installation"](#).
3. Remove back door hinge mounting nuts of vehicle body side, and then remove back door hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- After installation, perform the fitting adjustment. Refer to [DLK-293, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-292, "BACK DOOR ASSEMBLY : Inspection"](#).

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000010708287

REMOVAL

Pull up and remove engagement with body from weather-strip joint.

CAUTION:

Never pull strongly on back door weather-strip.

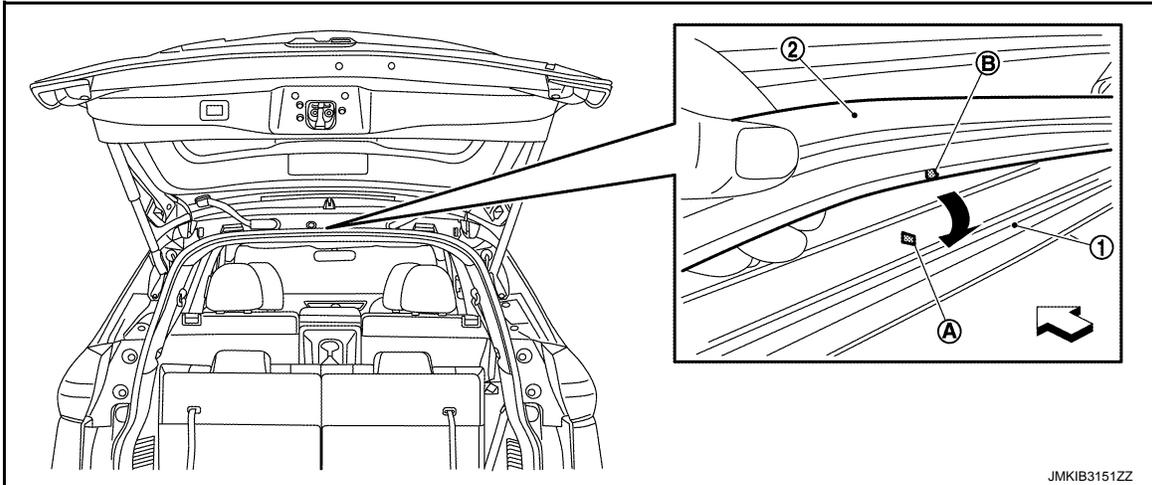
BACK DOOR

< REMOVAL AND INSTALLATION >

[TYPE 1]

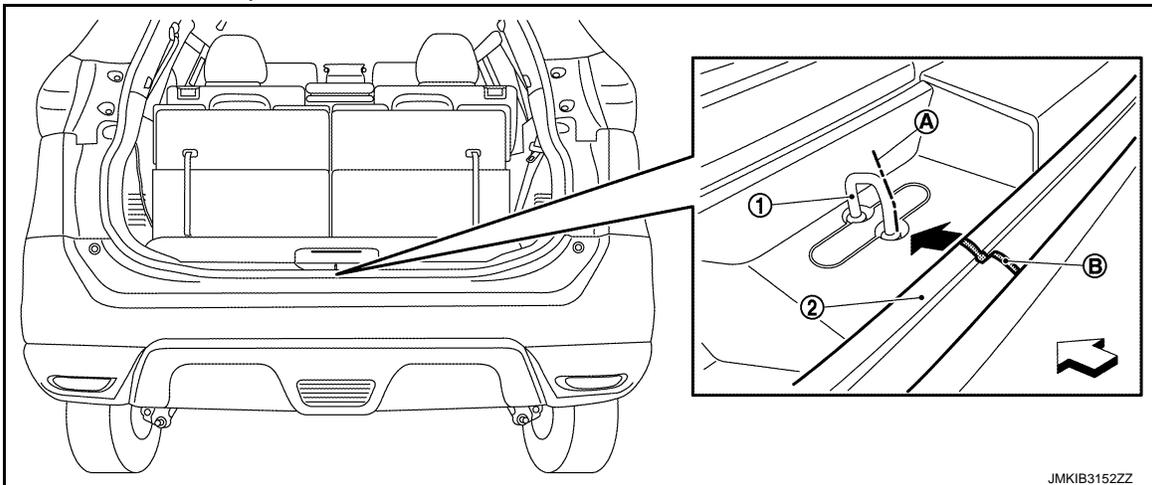
INSTALLATION

1. Working from the upper section, align back door weather-strip ② center mark ③ with vehicle center position mark ④ and install weather-strip onto the vehicle ①.



← : Vehicle front

2. Align the connecting point ③ of back door weather-strip ② with the center ④ of back door striker ①, and then install weather-strip onto the vehicle.



← : Vehicle front

3. Pull back door weather-strip gently to ensure that there is no loose section.

CAUTION:

Check that weather-strip fits tightly in each corner.

HOOD LOCK

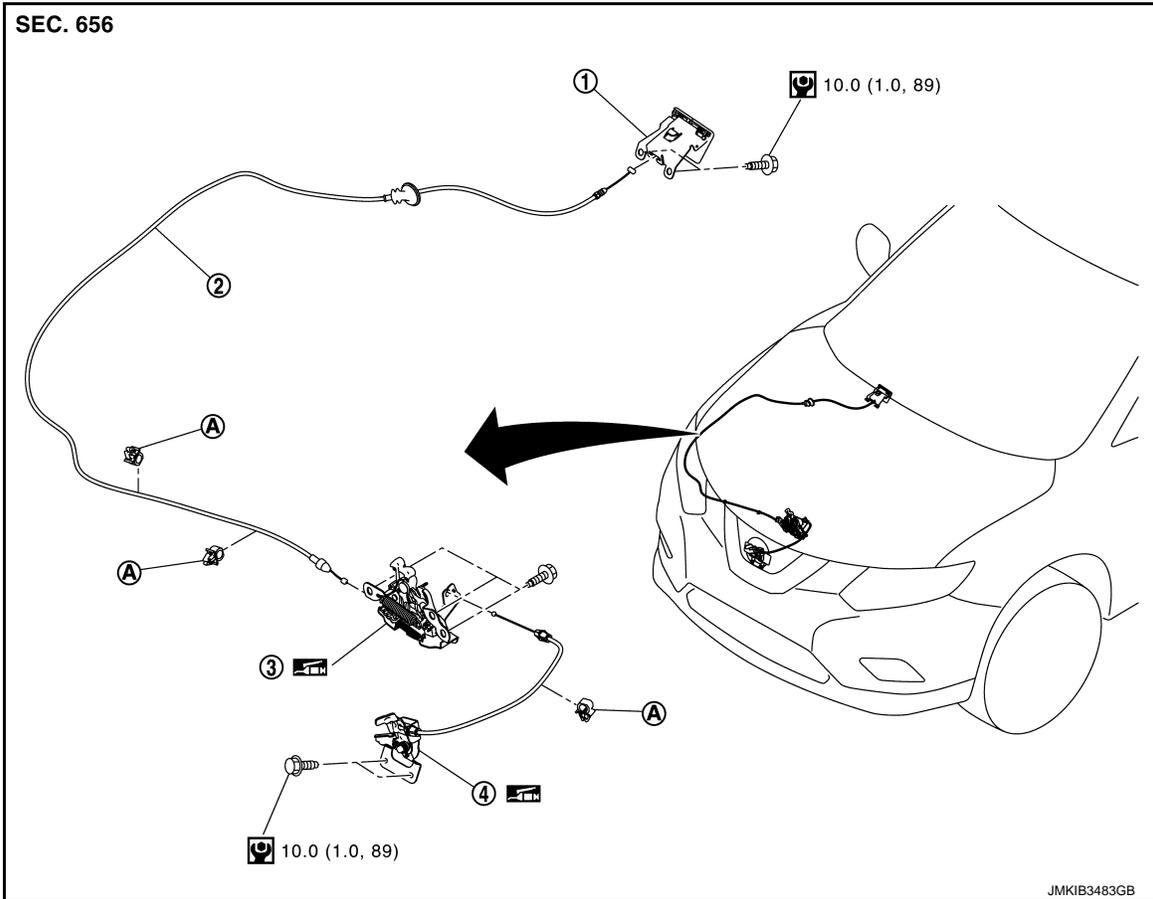
< REMOVAL AND INSTALLATION >

[TYPE 1]

HOOD LOCK

Exploded View

INFOID:000000010708288



① Hood lock control handle assembly ② Hood lock control cable assembly ③ Hood lock assembly

④ Hood lock bell crank assembly

A Cable clip

: N·m (kg·m, in·lb)

: Body grease

HOOD LOCK

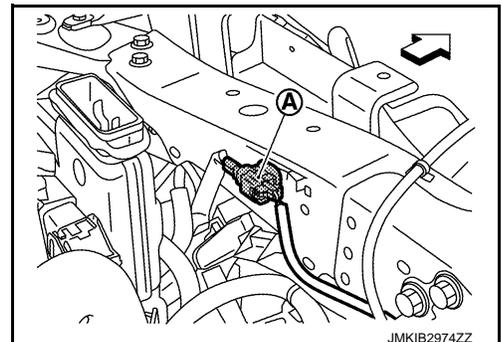
HOOD LOCK : Removal and Installation

INFOID:000000010708289

REMOVAL

1. Disconnect hood lock switch harness connector A (if equipped).

: Vehicle front



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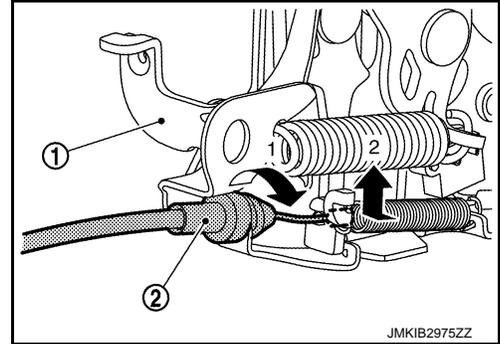
P

HOOD LOCK

[TYPE 1]

< REMOVAL AND INSTALLATION >

2. Disconnect hood lock bell crank cable from hood lock assembly. Refer to [DLK-300, "HOOD LOCK BELL CRANK : Removal and Installation"](#).
3. Remove hood lock assembly mounting bolts, and then remove hood lock assembly.
4. Disconnect hood lock control cable assembly ② from hood lock assembly ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Never bend cable too much, keeping the radius 100 mm (3.937 in) or more.
- Check that hood lock control cable is properly engaged with hood lock.
- After installation, perform hood fitting adjustment. Refer to [DLK-263, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform hood lock control inspection. Refer to [DLK-298, "HOOD LOCK : Inspection"](#).

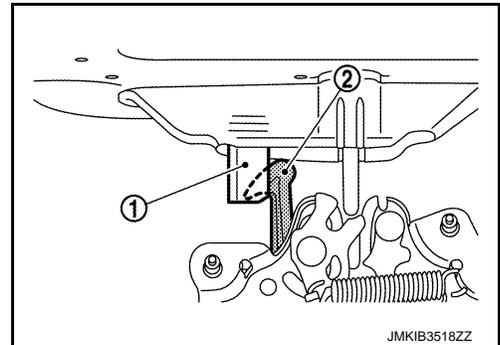
HOOD LOCK : Inspection

INFOID:000000010708290

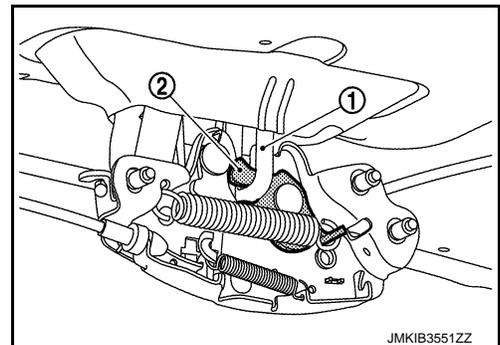
NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Check that hood opener operating is condition 49 N (5.0 kg, 11.0 lb) or below.
2. Check that secondary latch ② is securely engaged with secondary striker ① from the dead load of hood assembly.



3. Check that primary latch ② is securely engaged with primary striker ① when hood assembly is closed [free-fall from approximately 200 mm (7.874 in) height].

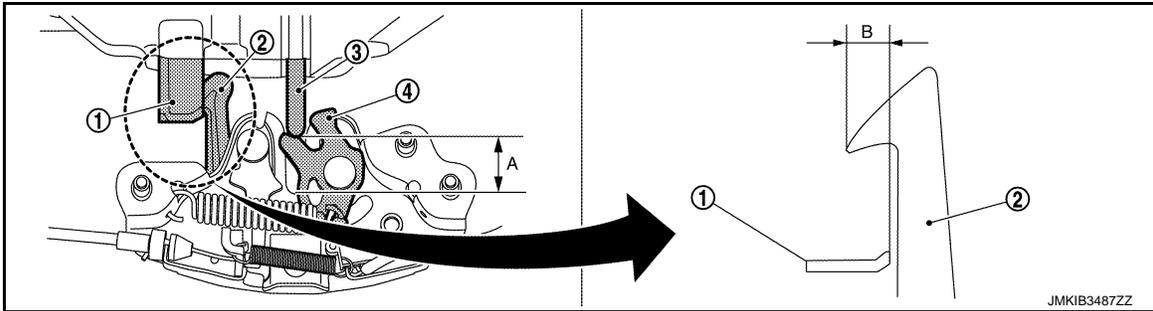


4. While operating the hood opener carefully, check that the front end of the hood is lifted by approximately 20 mm (0.787 in) (A). Also, check that the hood opener returns to the original position.

HOOD LOCK

< REMOVAL AND INSTALLATION >

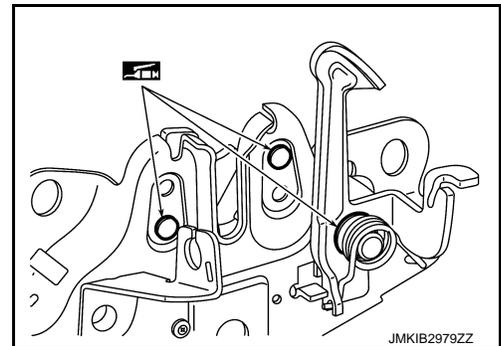
[TYPE 1]



- ① Secondary striker
- ② Secondary latch
- ③ Primary striker
- ④ Primary latch

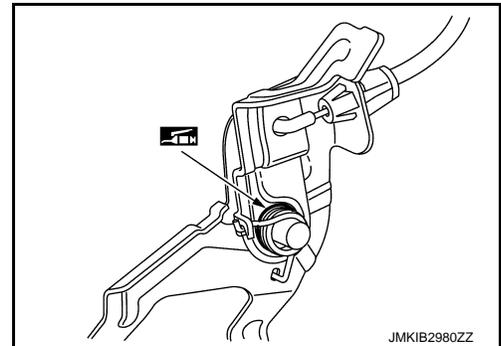
5. Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] (B).
6. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.
 - Hood lock assembly

 : Body grease



- Hood lock bell crank assembly

 : Body grease



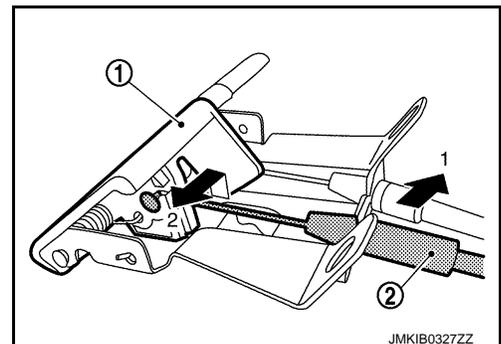
HOOD LOCK CONTROL HANDLE

HOOD LOCK CONTROL HANDLE : Removal and Installation

INFOID:000000010708291

REMOVAL

1. Remove hood lock control handle mounting bolts, and then remove hood lock control handle.
2. Remove hood lock control cable ② from hood opener lever ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



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HOOD LOCK

< REMOVAL AND INSTALLATION >

[TYPE 1]

3. Remove fuel filler lid opener cable from fuel filler lid opener lever. Refer to [DLK-318, "FUEL FILLER OPENER CABLE : Removal and Installation"](#).

INSTALLATION

Note the following item, and install in the reverse order of removal.

CAUTION:

After installation, perform hood lock control inspection. Refer to [DLK-298, "HOOD LOCK : Inspection"](#).

HOOD LOCK CONTROL CABLE

HOOD LOCK CONTROL CABLE : Removal and Installation

INFOID:000000010708292

REMOVAL

1. Disconnect hood lock control cable assembly from hood lock assembly. Refer to [DLK-297, "HOOD LOCK : Removal and Installation"](#).
2. Remove fender protector RH. Refer to [EXT-35, "FENDER PROTECTOR : Removal and Installation"](#).
3. Remove hood lock control cable fixing clips.
4. Disconnect hood lock control cable assembly from hood lock control handle. Refer to [DLK-299, "HOOD LOCK CONTROL HANDLE : Removal and Installation"](#).
5. Remove dash side finisher RH. Refer to [INT-26, "DASH SIDE FINISHER : Removal and Installation"](#).
6. Remove grommet of the lower dash, and pull the hood lock control cable assembly toward inside vehicle.

CAUTION:

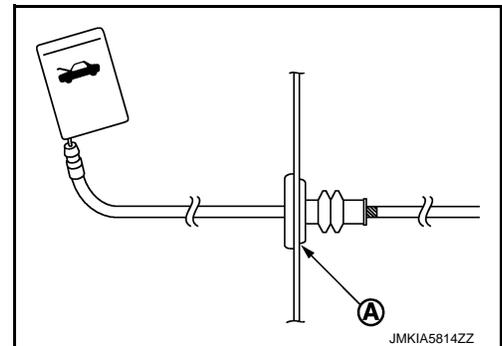
While pulling, never damage (peeling) the outside of hood lock control cable.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never bend cable too much, keeping the radius 100 mm (3.937 in) or more.
- Install grommet in the panel hole surely.
- Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet **A** properly.



- After installation, perform hood lock control inspection. Refer to [DLK-298, "HOOD LOCK : Inspection"](#).

HOOD LOCK BELL CRANK

HOOD LOCK BELL CRANK : Removal and Installation

INFOID:000000010708293

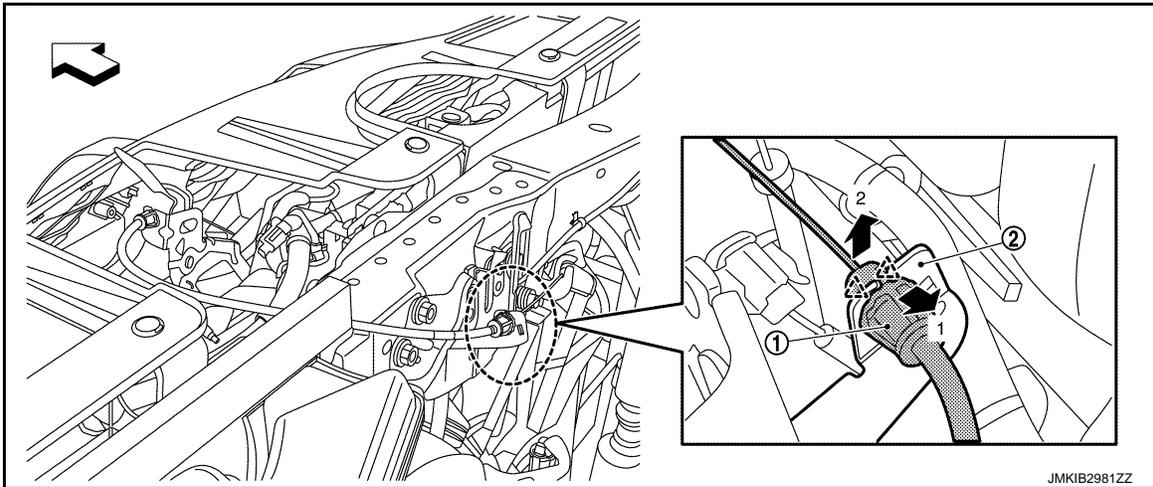
REMOVAL

HOOD LOCK

< REMOVAL AND INSTALLATION >

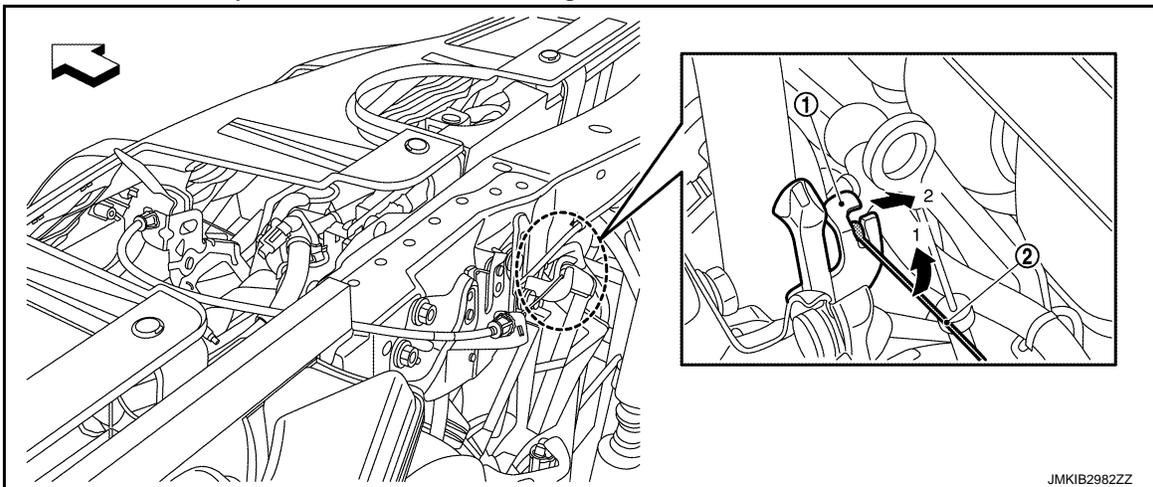
[TYPE 1]

1. Disengage pawls of hood lock bell crank cable and disconnect hood lock bell crank cable ① from housing bracket ② of hood lock assembly according to the numerical order 1→2 indicated by arrows as shown in the figure.



△ : Pawl
← : Vehicle front

2. Disconnect hood lock bell crank cable ② from lever ① of hood lock assembly according to the numerical order 1→2 indicated by arrows as shown in the figure.



← : Vehicle front

3. Remove hood lock bell crank assembly mounting bolts, and then remove hood lock bell crank assembly.

INSTALLATION

Note the following item, and install in the reverse order of removal.

CAUTION:

After installation, perform hood lock control inspection. Refer to [DLK-298, "HOOD LOCK : Inspection"](#).

FRONT DOOR LOCK

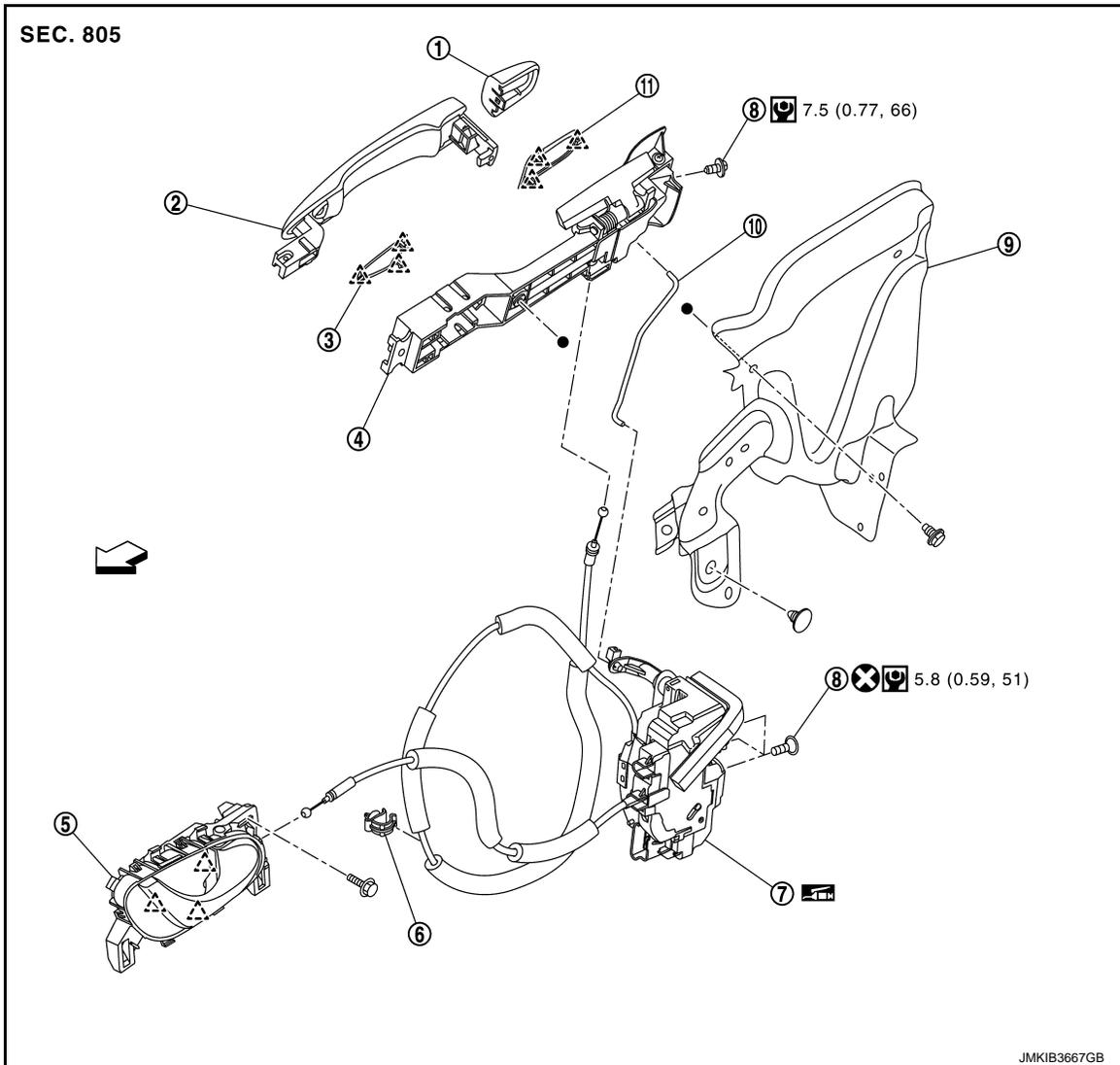
< REMOVAL AND INSTALLATION >

[TYPE 1]

FRONT DOOR LOCK

Exploded View

INFOID:000000010708294



- | | | |
|-----------------------------|-----------------------|-----------------------------------|
| ① Outside handle escutcheon | ② Outside handle grip | ③ Front gasket |
| ④ Outside handle bracket | ⑤ Inside handle | ⑥ Cable clip |
| ⑦ Door lock assembly | ⑧ TORX bolt | ⑨ Key rod protector (driver side) |
| ⑩ Key rod (driver side) | ⑪ Rear gasket | |

△ : Pawl

← : Vehicle front

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, in·lb)

☑ : Body grease

● : Indicates that the part is connected at points with same symbol in actual vehicle.

DOOR LOCK

DLK-302

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[TYPE 1]

DOOR LOCK : Removal and Installation

INFOID:000000010708295

REMOVAL

1. Disconnect lock knob cable and inside handle cable from inside handle. Refer to [DLK-303, "INSIDE HANDLE : Removal and Installation"](#).
2. Disconnect outside handle cable from outside handle bracket. Refer to [DLK-304, "OUTSIDE HANDLE : Removal and Installation"](#).
3. Disconnect door lock assembly connector.
4. Remove door lock assembly TORX bolts, and then remove door lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

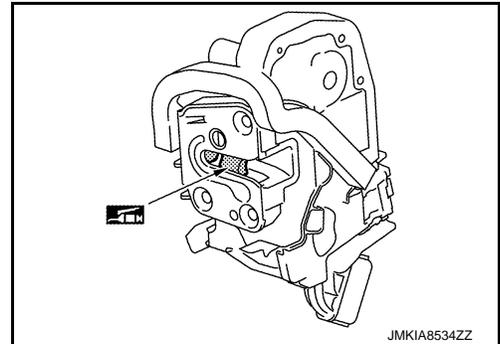
- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- When installing key rod, rotate key rod holder until a click is felt.
- After installation, check door lock. Refer to [DLK-303, "DOOR LOCK : Inspection"](#).

DOOR LOCK : Inspection

INFOID:000000010708296

1. After opening and closing the door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.
3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

 : Body grease



INSIDE HANDLE

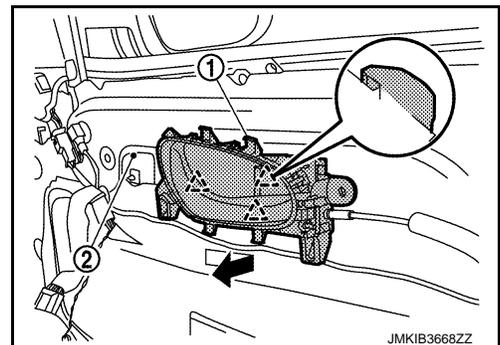
INSIDE HANDLE : Removal and Installation

INFOID:000000010708297

REMOVAL

1. Remove front door finisher. Refer to [INT-14, "Removal and Installation"](#).
2. Remove inside handle mounting bolt.
3. Disengage inside handle ① from door panel ② while sliding inside handle toward vehicle rear, and then separate inside handle.

 : Pawl



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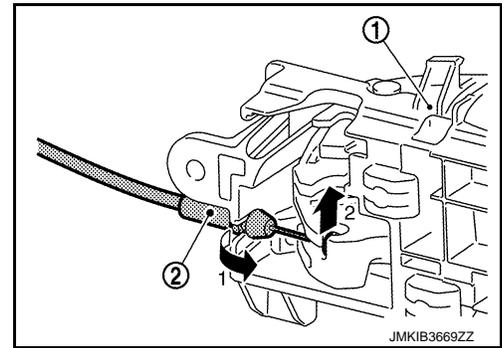
DLK

FRONT DOOR LOCK

[TYPE 1]

< REMOVAL AND INSTALLATION >

4. Disengage inside handle cable ② from inside handle ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check door lock. Refer to [DLK-303, "DOOR LOCK : Inspection"](#).

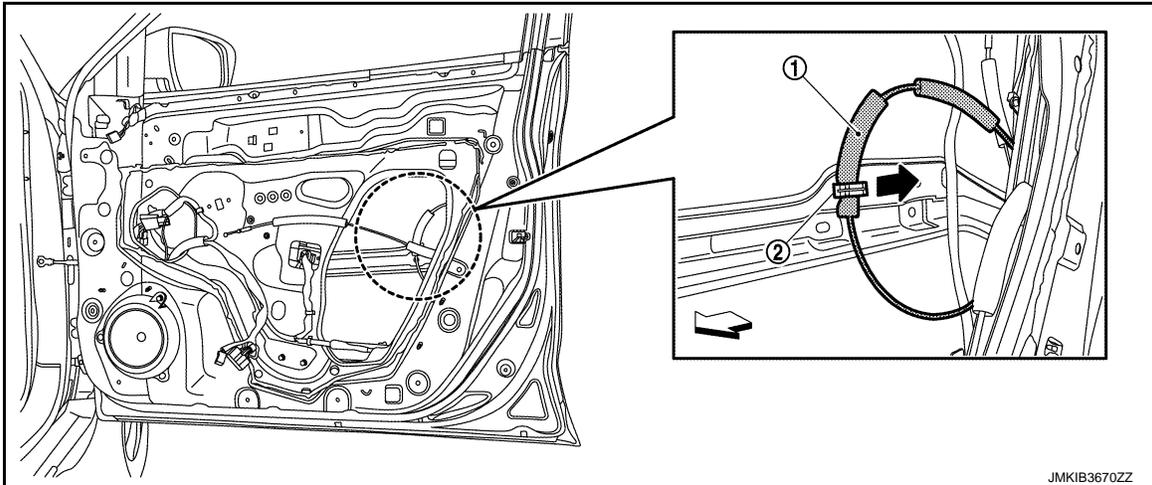
OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

INFOID:000000010708298

REMOVAL

1. Fully close the front door glass.
2. Remove front door finisher. Refer to [INT-14, "Removal and Installation"](#).
3. Remove inside handle. Refer to [DLK-303, "INSIDE HANDLE : Removal and Installation"](#).
4. Remove sealing screen and front door glass run lower sash. Refer to [GW-43, "FRONT DOOR GLASS RUN LOWER SASH : Removal and Installation"](#).
5. Remove key rod protector mounting bolt and fixing clip, and then remove key rod protector.
6. Disengage outside handle cable ① from cable clip ②.



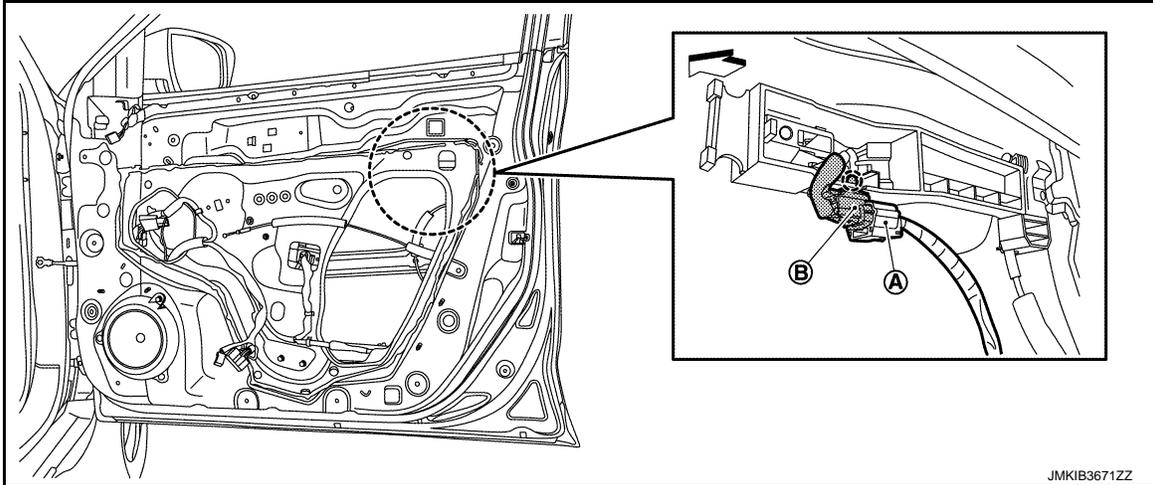
← : Vehicle front

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

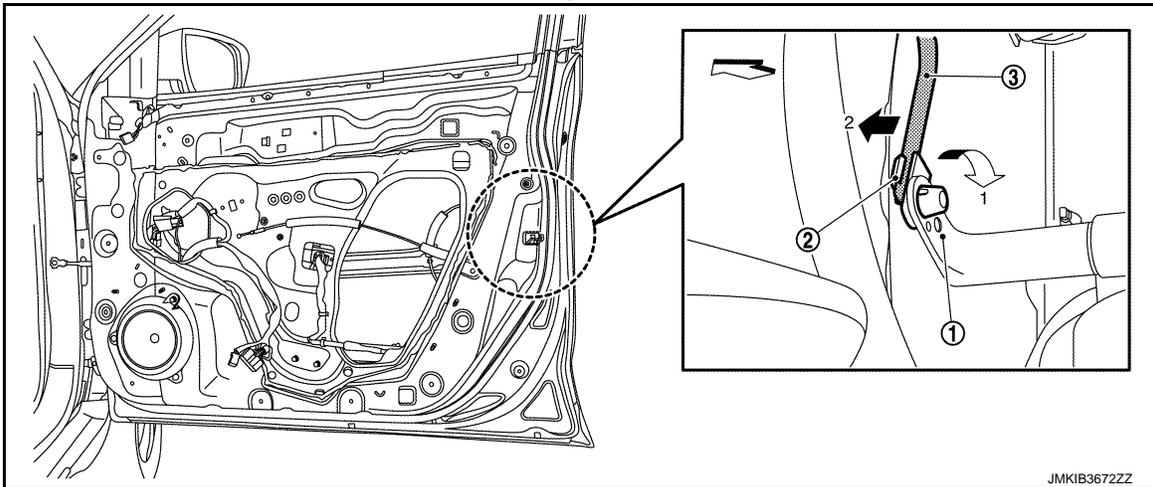
[TYPE 1]

7. Disconnect door harness connector (A) and disengage outside handle harness connector fixing clip (B).



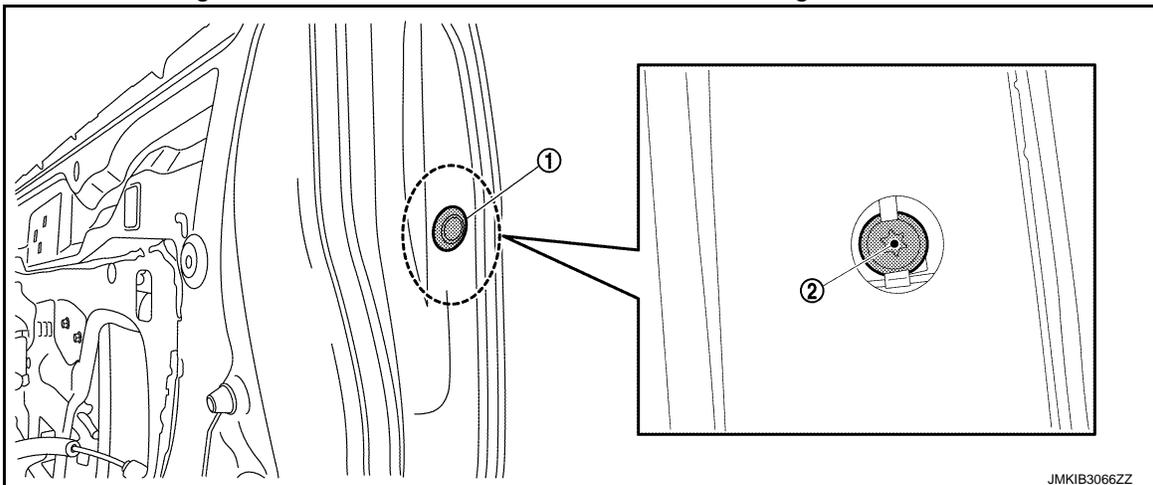
- : Clip
↔ : Vehicle front

8. Disengage rod holder (2) and disconnect key rod (3) from door lock assembly (1) according to the numerical order 1→2 indicated by arrows as shown in the figure (driver side).



- ↔ : Vehicle front

9. Remove door side grommet (1), and then loosen TORX bolt (2) from grommet hole.



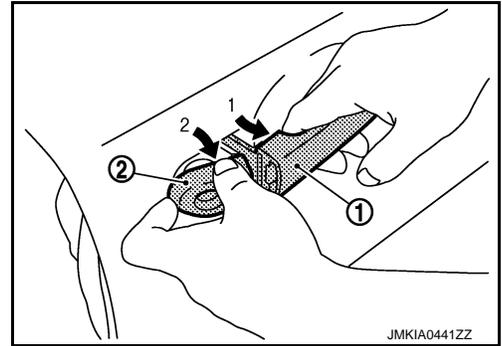
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FRONT DOOR LOCK

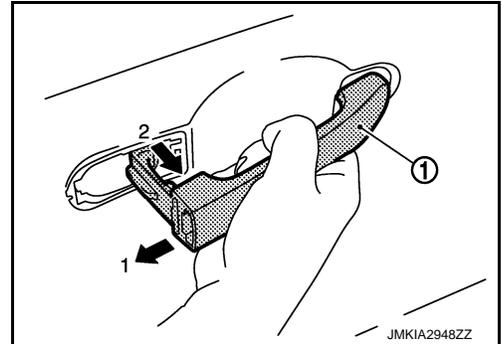
[TYPE 1]

< REMOVAL AND INSTALLATION >

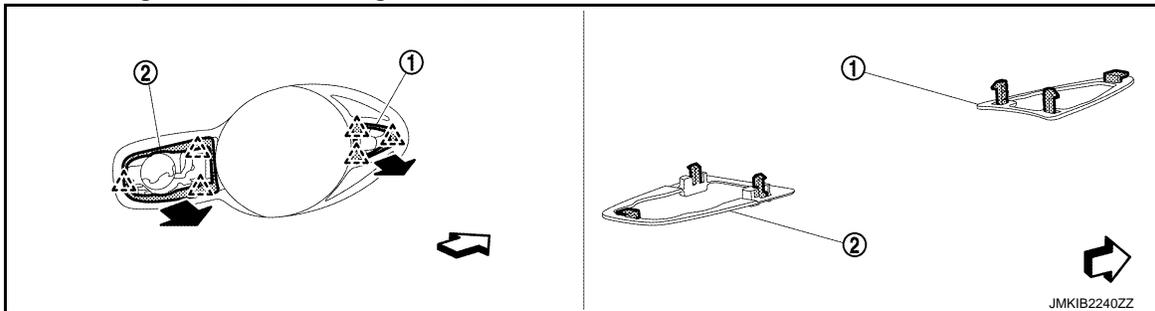
10. Remove outside handle escutcheon ② while pulling outside handle grip ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



11. Slide outside handle grip ① toward rear of vehicle and remove it according to the numerical order 1→2 indicated by arrows as shown in the figure.



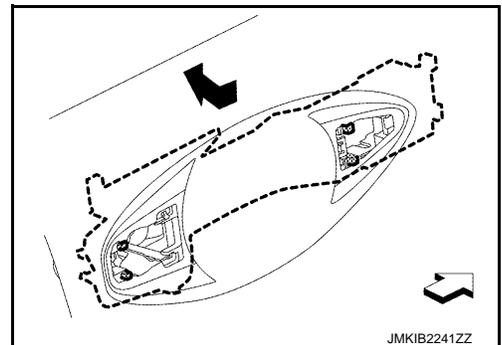
12. Remove front gasket ① and rear gasket ②.



△ : Pawl
⇐ : Vehicle front

13. Slide outside handle bracket toward rear of vehicle and remove it.

⇐ : Vehicle front

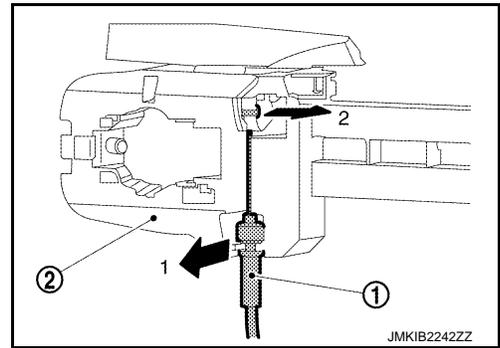


FRONT DOOR LOCK

[TYPE 1]

< REMOVAL AND INSTALLATION >

14. Disconnect outside handle cable ① from outside handle bracket ② according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- When installing key rod, rotate key rod holder until a click is felt.
- After installation, check door lock. Refer to [DLK-303, "DOOR LOCK : Inspection"](#).

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REAR DOOR LOCK

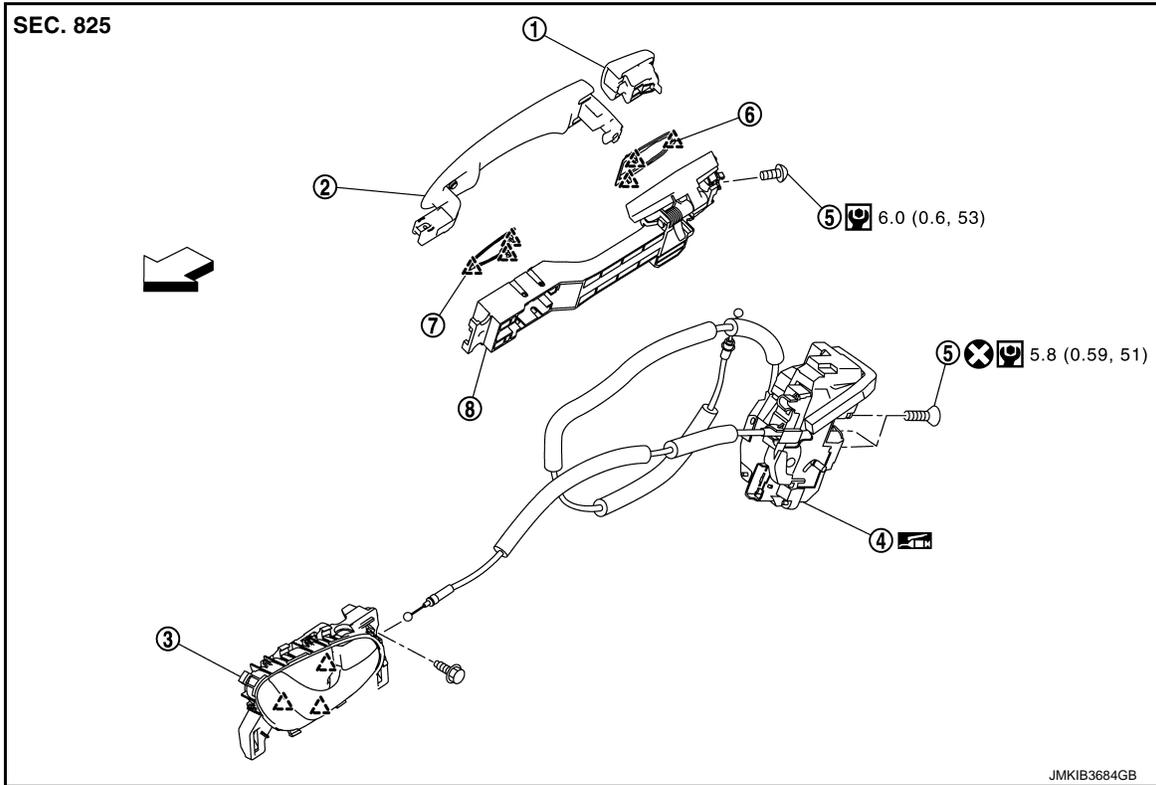
< REMOVAL AND INSTALLATION >

[TYPE 1]

REAR DOOR LOCK

Exploded View

INFOID:000000010708299



- | | | |
|-----------------------------|--------------------------|-----------------|
| ① Outside handle escutcheon | ② Outside handle grip | ③ Inside handle |
| ④ Door lock assembly | ⑤ TORX bolt | ⑥ Rear gasket |
| ⑦ Front gasket | ⑧ Outside handle bracket | |

△ : Pawl

← : Vehicle front

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, in·lb)

Ⓜ : Body grease

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000010708300

REMOVAL

1. Disconnect inside handle cable from inside handle. Refer to [DLK-309. "INSIDE HANDLE : Removal and Installation"](#).
2. Disconnect outside handle cable from outside handle bracket. Refer to [DLK-310. "OUTSIDE HANDLE : Removal and Installation"](#).
3. Disconnect door lock assembly connector.
4. Remove door lock assembly TORX bolts, and then remove door lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.

DLK-308

REAR DOOR LOCK

[TYPE 1]

< REMOVAL AND INSTALLATION >

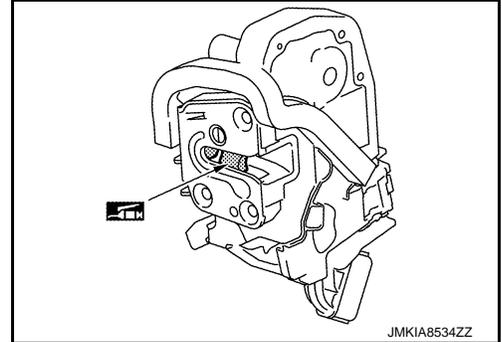
- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- After installation, check door lock. Refer to [DLK-309, "DOOR LOCK : Inspection"](#).

DOOR LOCK : Inspection

INFOID:000000010708301

1. After opening and closing the door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.
3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

 : Body grease



INSIDE HANDLE

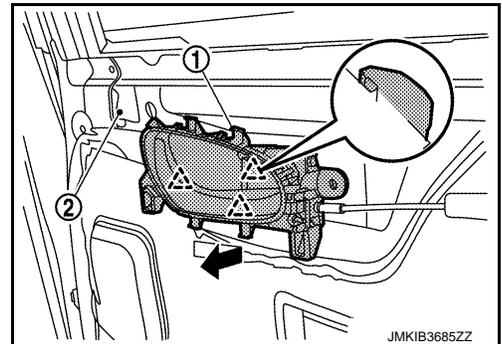
INSIDE HANDLE : Removal and Installation

INFOID:000000010708302

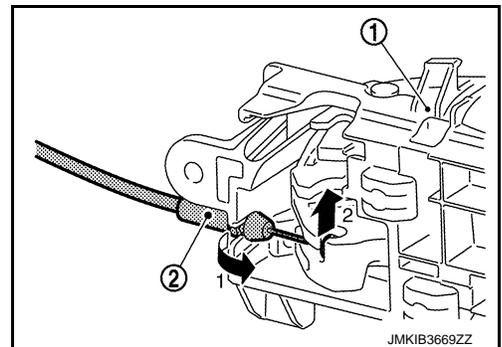
REMOVAL

1. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
2. Remove inside handle mounting bolt.
3. Disengage inside handle ① from door panel ② while sliding inside handle toward vehicle rear, and then separate inside handle.

 : Pawl



4. Disengage inside handle cable ② from inside handle ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check door lock. Refer to [DLK-309, "DOOR LOCK : Inspection"](#).

OUTSIDE HANDLE

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REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

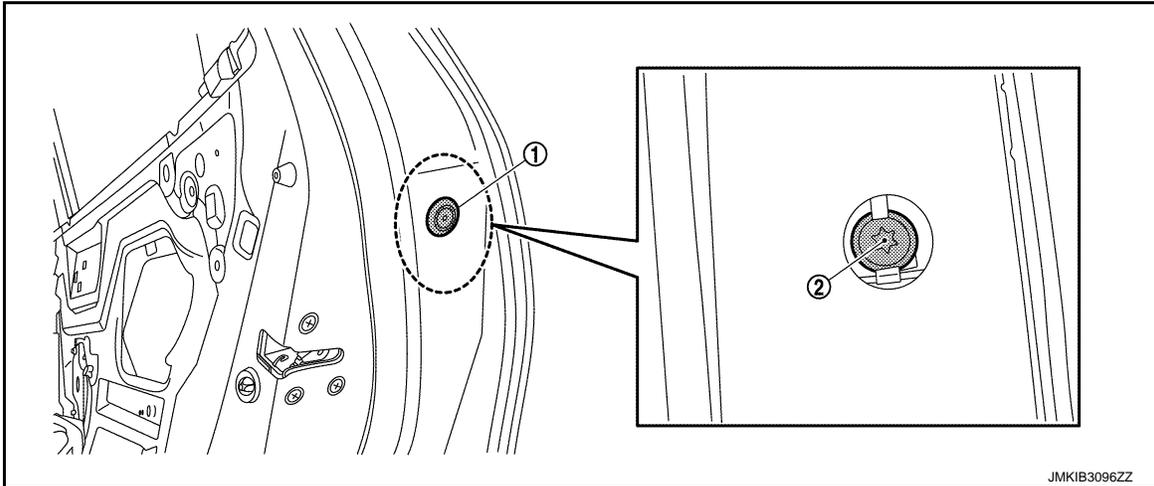
[TYPE 1]

OUTSIDE HANDLE : Removal and Installation

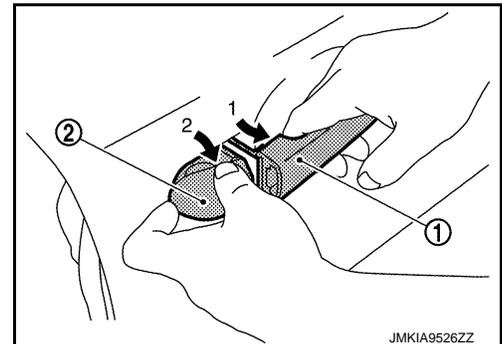
INFOID:000000010708303

REMOVAL

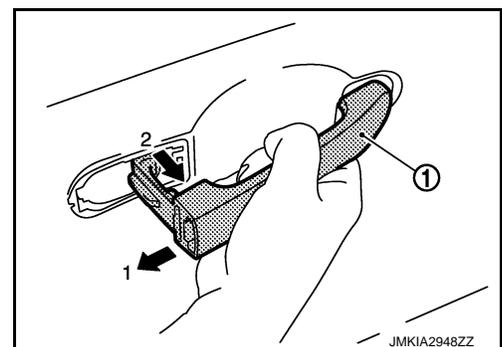
1. Fully close the rear door glass.
2. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
3. Remove inside handle. Refer to [DLK-309, "INSIDE HANDLE : Removal and Installation"](#).
4. Remove sealing screen and rear door lower sash. Refer to [GW-52, "REAR DOOR LOWER SASH : Removal and Installation"](#).
5. Remove door side grommet ①, and then loosen TORX bolt ② from grommet hole.



6. Remove outside handle escutcheon ② while pulling outside handle grip ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



7. Slide outside handle grip ① toward rear of vehicle and remove it according to the numerical order 1→2 indicated by arrows as shown in the figure.

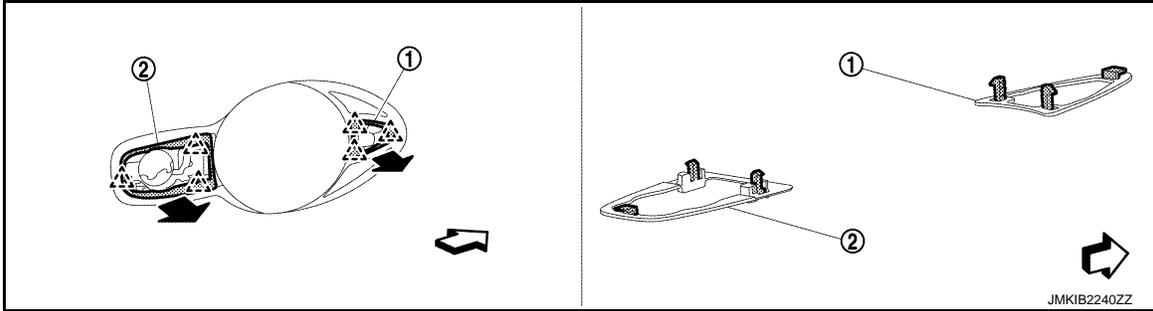


REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[TYPE 1]

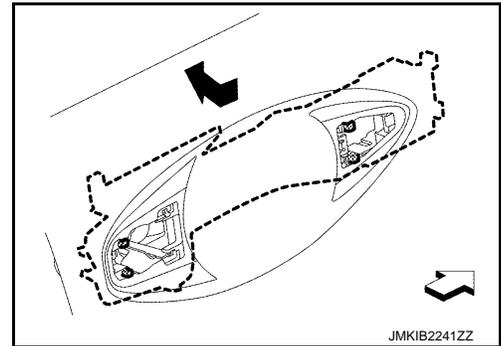
8. Remove front gasket ① and rear gasket ②.



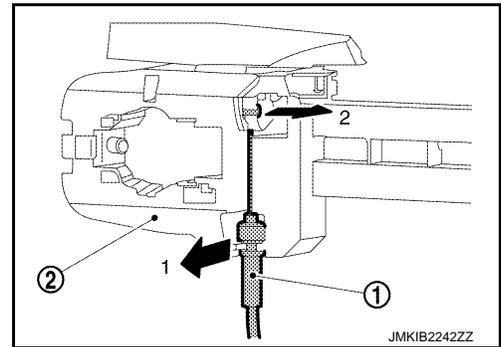
- △ : Pawl
← : Vehicle front

9. Slide outside handle bracket toward rear of vehicle and remove it.

- ← : Vehicle front



10. Disconnect outside handle cable ① from outside handle bracket ② according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- After installation, check door lock. Refer to [DLK-309. "DOOR LOCK : Inspection"](#).

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BACK DOOR LOCK

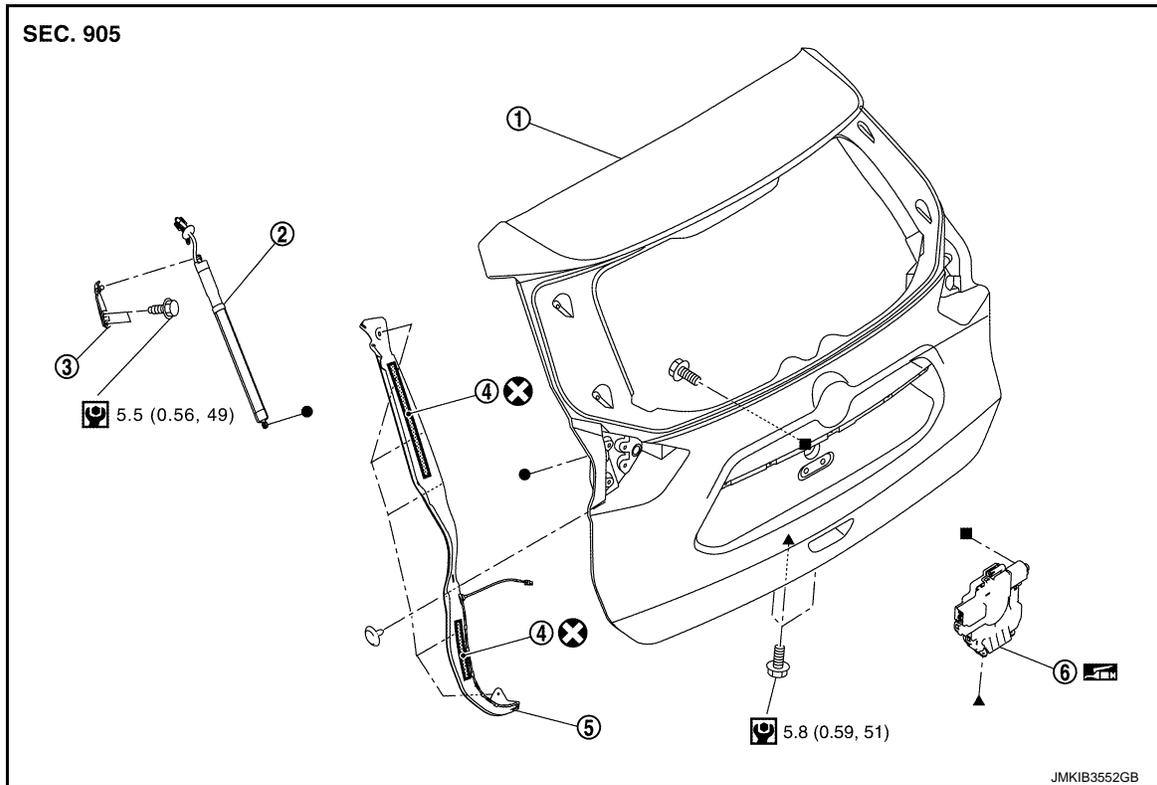
< REMOVAL AND INSTALLATION >

[TYPE 1]

BACK DOOR LOCK

Exploded View

INFOID:000000010708304



- ① Back door panel
- ② Spindle unit
- ③ Back door stay upper bracket
- ④ Double-sided tape
[t: 1.2 mm (0.047 in)]
- ⑤ Back door touch sensor
- ⑥ Back door lock & remote control assembly

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg-m, in-lb)

Ⓜ : Body grease

●, ▲, ■: Indicates that the part is connected at points with same symbol in actual vehicle.

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000010708305

REMOVAL

1. Remove back door inner finisher. Refer to [INT-47. "Removal and Installation"](#).
2. Disconnect back door lock & remote control assembly harness connector.
3. Remove back door lock & remote control assembly mounting bolts, and then remove back door lock & remote control assembly from back door panel.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check back door lock. Refer to [DLK-312. "DOOR LOCK : Inspection"](#).

DOOR LOCK : Inspection

INFOID:000000010708306

1. After opening and closing the back door, check that door is fixed to the vehicle body normally.

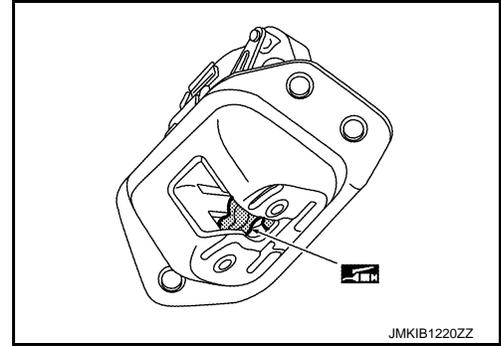
BACK DOOR LOCK

[TYPE 1]

< REMOVAL AND INSTALLATION >

2. Check the lock/unlock operation of door lock.
3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

 : Body grease



DOOR LOCK : Unlock procedures

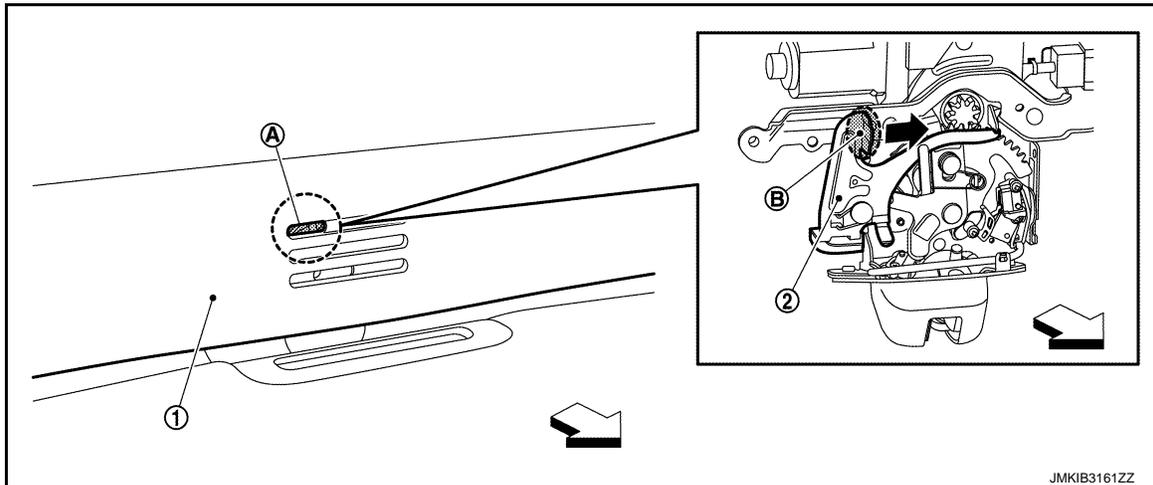
INFOID:000000010708307

UNLOCK PROCEDURES

NOTE:

Release lock according to the following procedures when lock cannot be unlocked due to a malfunction of door lock assembly or battery discharge.

Insert a screwdriver, etc. into tool insertion hole (A) of back door inner finisher (1), and then back door lock is unlocked by operating knob (B) of cancel lever (2) in the direction of arrow as shown in the figure.



 : Vehicle front

SPINDLE UNIT

SPINDLE UNIT : Removal and Installation

INFOID:000000010708308

REMOVAL

1. Disconnect battery negative terminal. Refer to [PG-139, "R9M : Removal and Installation"](#).
2. Remove luggage side upper finisher. Refer to [INT-45, "LUGGAGE SIDE UPPER FINISHER : Removal and Installation"](#).

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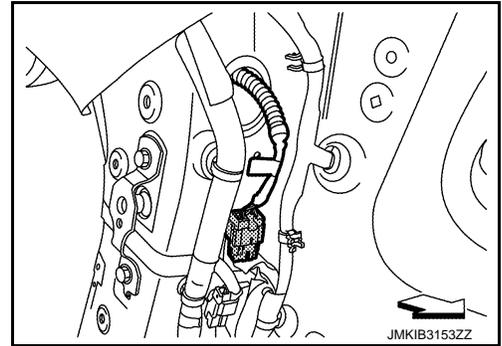
BACK DOOR LOCK

[TYPE 1]

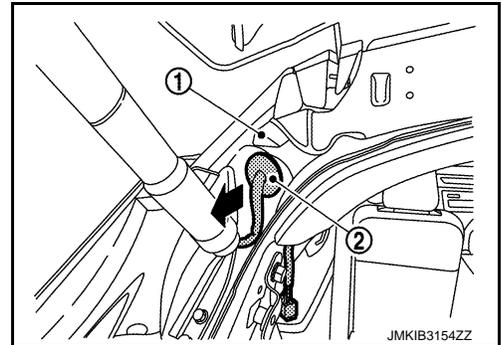
< REMOVAL AND INSTALLATION >

3. Disconnect spindle unit harness connector.

↶ : Vehicle front



4. Remove harness grommet ② from back main center pillar ①, and then pull out spindle unit harness from vehicle body.

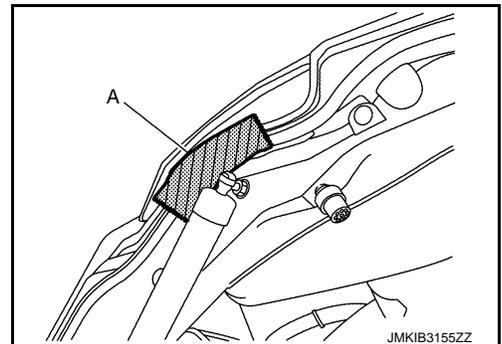


5. Support back door with the proper material to prevent it from falling.

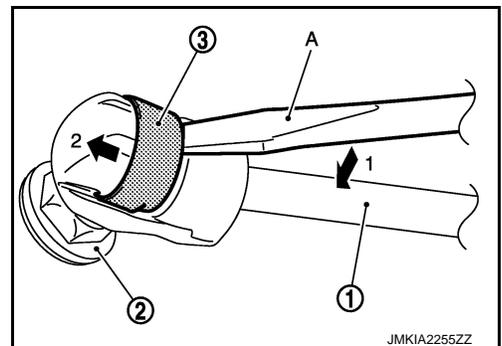
WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

6. Apply protective tape (A) to back door touch sensor around spindle unit for preventing damage.



7. Remove metal clip ③ located on connection between back door stay ① and stud ball ② using a remover tool (A) according to the numerical order 1→2 indicated by arrows as shown in the figure.



8. Disengage spindle unit and stud ball of back door side.
9. Remove back door stay upper bracket mounting bolts, and then remove spindle unit with back door stay upper bracket.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

BACK DOOR LOCK

[TYPE 1]

< REMOVAL AND INSTALLATION >

- Perform calibration of automatic back door position information. Refer to [DLK-117, "Work Procedure"](#).
- After installation, check back door lock. Refer to [DLK-312, "DOOR LOCK : Inspection"](#).

TOUCH SENSOR

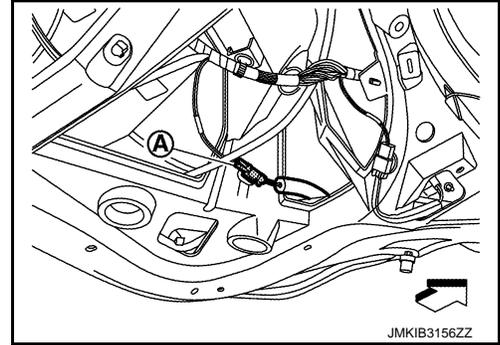
TOUCH SENSOR : Removal and Installation

INFOID:0000000010708309

REMOVAL

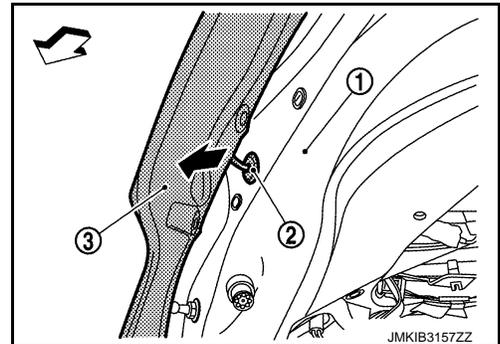
1. Remove back door inner finisher. Refer to [INT-47, "Removal and Installation"](#).
2. Disconnect back door touch sensor harness connector (A).

← : Vehicle front



3. Remove spindle unit of back door side.
4. Remove back door touch sensor fixing clips, and then remove back door touch sensor while tearing off double-sided tape.
5. Remove harness grommet (2) from back door panel (1), and then pull out back door touch sensor harness from back door panel and remove back door touch sensor (3).

← : Vehicle front



INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Before installing, remove double-sided tape remaining on back door touch sensor and back door panel neatly.
- When installing, apply primer for resin to double-sided tape sticking point of back door touch sensor and back door panel.
- After installing, check that there is no clearance between back door touch sensor and back door panel.
- After installing, check that back door turns over normally by back door touch sensor.
- After installation, check door lock. Refer to [DLK-312, "DOOR LOCK : Inspection"](#).

FUEL FILLER LID OPENER

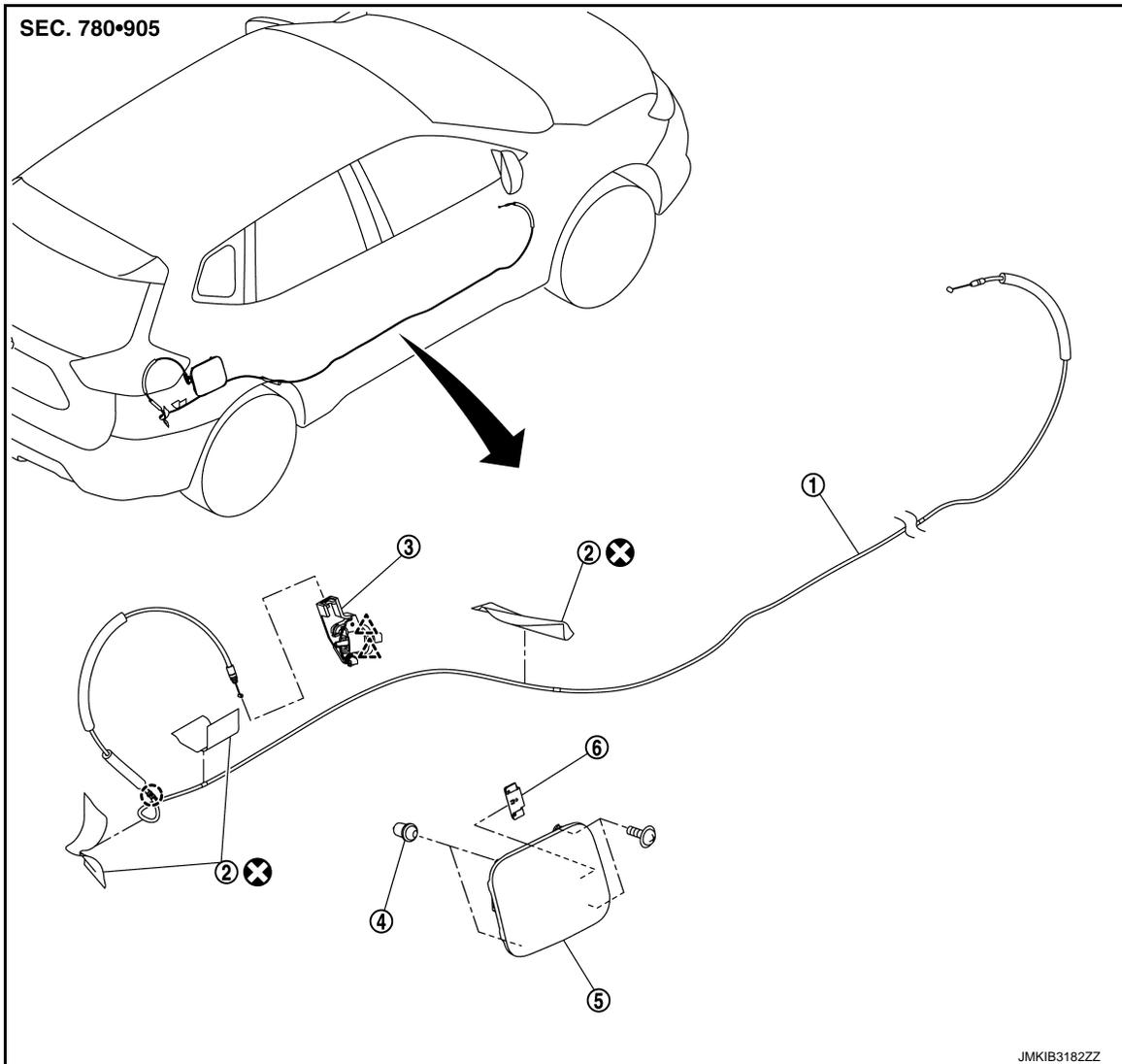
< REMOVAL AND INSTALLATION >

[TYPE 1]

FUEL FILLER LID OPENER

Exploded View

INFOID:000000010708310



- | | | |
|--------------------------------|----------------------------|---------------------------------|
| ① Fuel filler lid opener cable | ② Cable protector | ③ Fuel filler lid lock assembly |
| ④ Bumper rubber | ⑤ Fuel filler lid assembly | ⑥ Spring |

○ : Clip

△ : Pawl

⊗ : Always replace after every disassembly.

FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

INFOID:000000010708311

REMOVAL

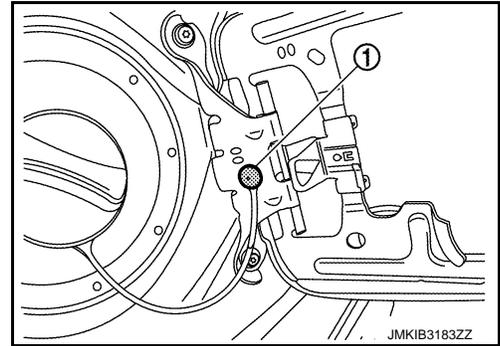
1. Fully open fuel filler lid.

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[TYPE 1]

- Remove fuel mounting pin ①.



- Remove mounting bolts, and then remove fuel filler lid assembly.

INSTALLATION

Note the following items, and then 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.
- After installation, check fuel filler lid assembly open/close, lock/unlock operation.

NOTE:

- The following table shows the specified values for checking normal installation status.
- Fitting adjustment cannot be performed.

Unit: mm [in]

	Clearance	Evenness
Fuel filler lid – Body side outer	2.5 – 4.5 [0.098 – 0.177]	(-1.0) – (+1.0) [(-0.039) – (+0.039)]

FUEL FILLER LID LOCK

FUEL FILLER LID LOCK : Removal and Installation

INFOID:000000010708312

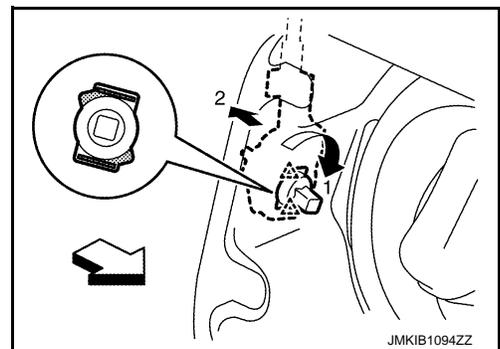
REMOVAL

- Fully open fuel filler lid.
- Remove luggage side lower finisher RH. Refer to [INT-43. "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).
- Rotate fuel filler lid lock assembly to disengage pawls and remove fuel filler lid lock assembly according to the numerical order 1→2 indicated by arrows as shown in the figure.

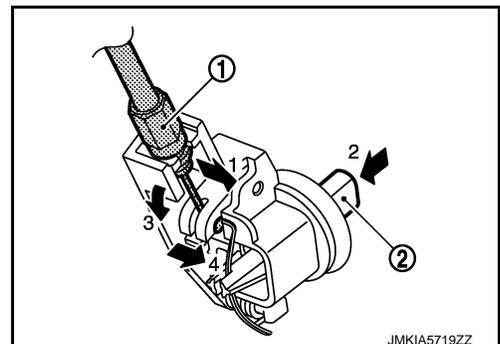
NOTE:

Operation is performed easily when rotating fuel filler lid lock from passenger room side.

-  : Pawl
-  : Vehicle front



- Disengage fuel filler lid opener cable ① and remove fuel filler lid opener cable while pressing stopper pin ② according to the numerical order 1→4 indicated by arrows as shown in the figure.



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FUEL FILLER LID OPENER

[TYPE 1]

< REMOVAL AND INSTALLATION >

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

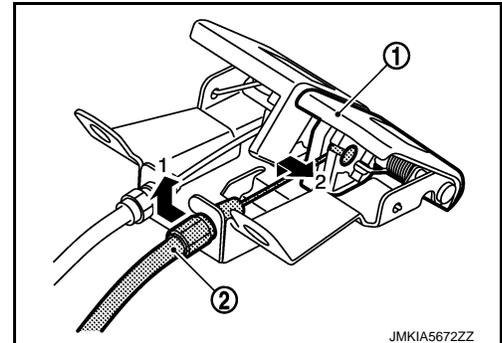
FUEL FILLER OPENER CABLE

FUEL FILLER OPENER CABLE : Removal and Installation

INFOID:000000010708313

REMOVAL

1. Remove hood lock control handle mounting bolts, and then hood lock control handle. Refer to [DLK-299, "HOOD LOCK CONTROL HANDLE : Removal and Installation"](#).
2. Remove fuel filler lid opener cable ② from fuel filler lid opener lever ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



3. Remove kicking plate inner RH and rear kicking plate inner RH. Refer to [INT-24, "KICKING PLATE : Removal and Installation"](#).
4. Remove dash side finisher RH. Refer to [INT-26, "DASH SIDE FINISHER : Removal and Installation"](#).
5. Remove center pillar lower garnish RH. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).
6. Remove luggage side lower finisher RH. Refer to [INT-43, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).
7. Remove fuel filler lid opener cable from fuel filler lid lock assembly. Refer to [DLK-317, "FUEL FILLER LID LOCK : Removal and Installation"](#).
8. Remove fuel filler lid opener cable from harness protectors.
9. Remove fuel filler lid opener cable fixing clips, and then remove fuel filler lid opener cable.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

DOOR SWITCH

< REMOVAL AND INSTALLATION >

[TYPE 1]

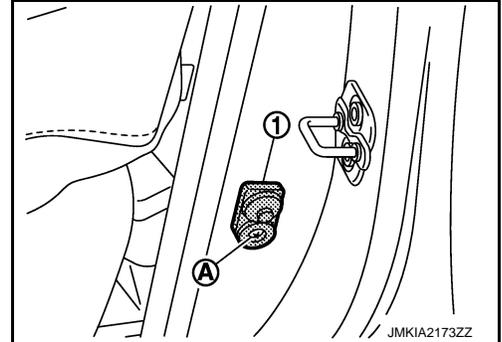
DOOR SWITCH

Removal and Installation

INFOID:000000010708314

REMOVAL

1. Remove the TORX bolt (A).
2. Disconnect door switch harness connector and then remove door switch (1).



INSTALLATION

Install in the reverse order of removal.

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DOOR LOCK STATUS INDICATOR

< REMOVAL AND INSTALLATION >

[TYPE 1]

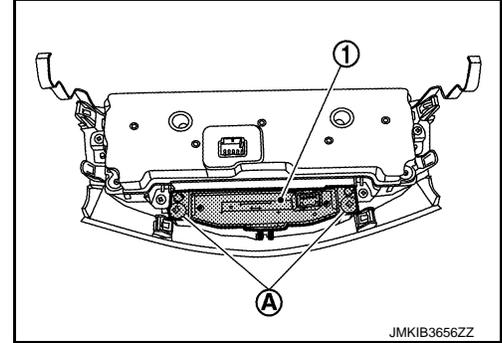
DOOR LOCK STATUS INDICATOR

Removal and Installation

INFOID:000000010721600

REMOVAL

1. Remove A/C control. Refer to [HAC-125. "Removal and Installation"](#).
2. Remove door lock status indicator mounting bolt(A), and then remove door lock status indicator(1).



JMKIB3656ZZ

INSTALLATION

Install in the reverse order of removal.

INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[TYPE 1]

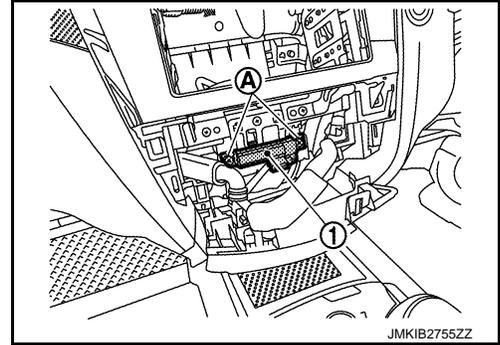
INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Removal and Installation

INFOID:0000000010708315

REMOVAL

1. Remove A/C control. Refer to [HAC-125. "Removal and Installation"](#).
2. Disconnect inside key antenna (instrument center) harness connector.
3. Remove inside key antenna (instrument center) mounting clip (A), and then remove inside key antenna (instrument center) (1).



INSTALLATION

Install in the reverse order of removal.

LUGGAGE ROOM

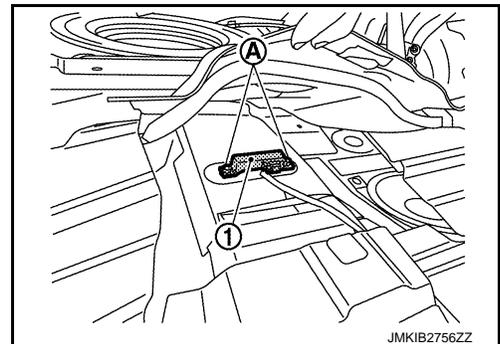
LUGGAGE ROOM : Removal and Installation

INFOID:0000000010708316

REMOVAL

3 Seat Rows

1. Remove rear seat. Refer to [SE-54. "Removal and Installation"](#).
2. Disconnect inside key antenna (luggage room) harness connector.
3. Remove inside key antenna (luggage room) mounting clip (A), and then remove inside key antenna (luggage room) (1).



2 Seat Rows

1. Remove luggage floor board. Refer to [INT-40. "Exploded View"](#).
2. Disconnect inside key antenna (luggage room) harness connector.

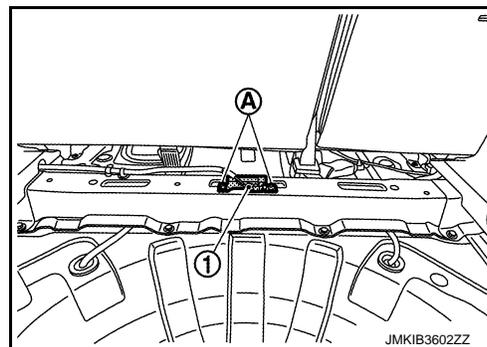
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INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[TYPE 1]

3. Remove inside key antenna (luggage room) mounting clip[Ⓐ], and then remove inside key antenna (luggage room)^①.



INSTALLATION

Install in the reverse order of removal.

OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[TYPE 1]

OUTSIDE KEY ANTENNA FRONT DOOR

FRONT DOOR : Removal and Installation

INFOID:000000010708317

REMOVAL

Remove outside handle grip. Refer to [DLK-304. "OUTSIDE HANDLE : Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

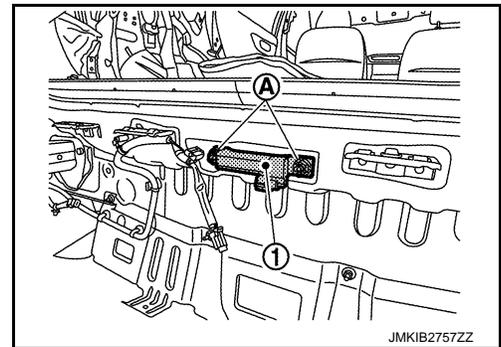
REAR BUMPER

REAR BUMPER : Removal and Installation

INFOID:000000010708318

REMOVAL

1. Remove rear bumper fascia. Refer to [EXT-18. "Removal and Installation"](#).
2. Disconnect outside key antenna (rear bumper) harness connector.
3. Remove the outside key antenna (rear bumper) mounting clip(A), and then remove outside key antenna (rear bumper)①.



INSTALLATION

Install in the reverse order of removal.

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INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

[TYPE 1]

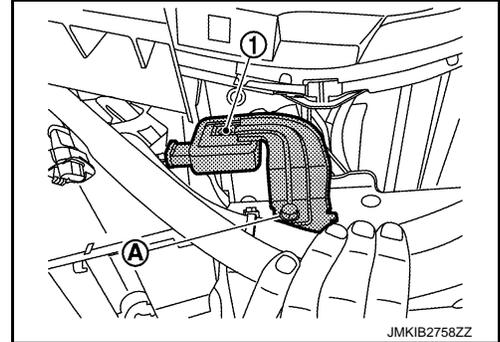
INTELLIGENT KEY WARNING BUZZER

Removal and Installation

INFOID:000000010708319

REMOVAL

1. Remove front bumper fascia. Refer to [EXT-15, "Removal and Installation"](#).
2. Disconnect Intelligent Key warning buzzer harness connector.
3. Remove Intelligent Key warning buzzer mounting boltⒶ, and then remove Intelligent Key warning buzzerⓂ.



INSTALLATION

Install in the reverse order of removal.

INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

[TYPE 1]

INTELLIGENT KEY BATTERY

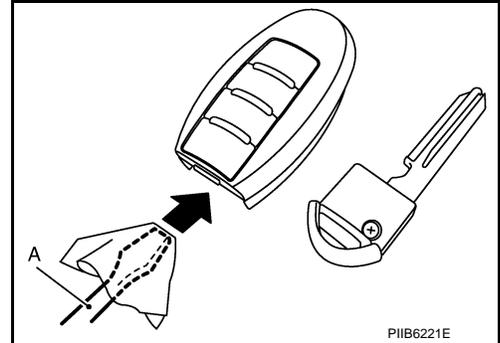
Removal and Installation

INFOID:000000010708320

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.
2. Insert remover tool (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.

CAUTION:

- Never touch the circuit board or battery terminal.
- The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.



3. Replace the battery with new one.

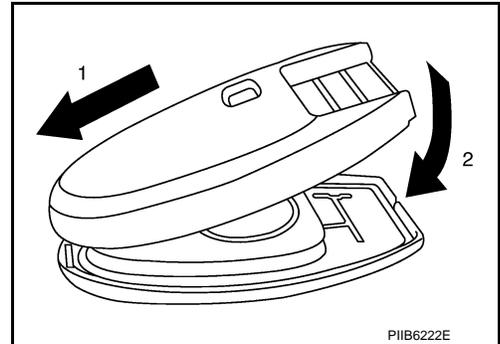
Battery replacement

:Coin-type lithium battery (CR2032)

4. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, check that all Intelligent Key functions work normally.



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BACK DOOR OPENER SWITCH ASSEMBLY

< REMOVAL AND INSTALLATION >

[TYPE 1]

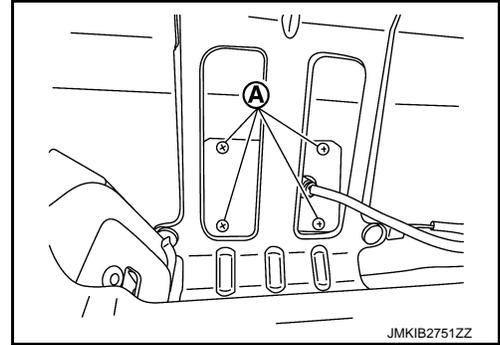
BACK DOOR OPENER SWITCH ASSEMBLY

Removal and Installation

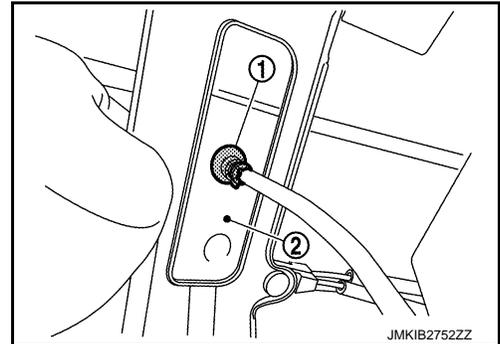
INFOID:000000010708321

REMOVAL

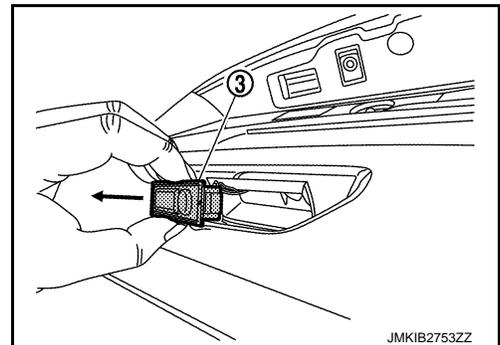
1. Remove back door inner finisher. Refer to [INT-47, "Removal and Installation"](#).
2. Remove back door lock assembly. Refer to [DLK-312, "DOOR LOCK : Removal and Installation"](#).
3. Disconnect back door opener switch assembly harness connector.
4. Remove switch cover mounting screw(A).



5. Remove grommet(1), and then remove switch cover(2).



6. Press toward outside (in the direction shown by arrow) and then remove back door opener switch assembly(3).



INSTALLATION

Install in the reverse order of removal.

AUTOMATIC BACK DOOR CONTROL UNIT

< REMOVAL AND INSTALLATION >

[TYPE 1]

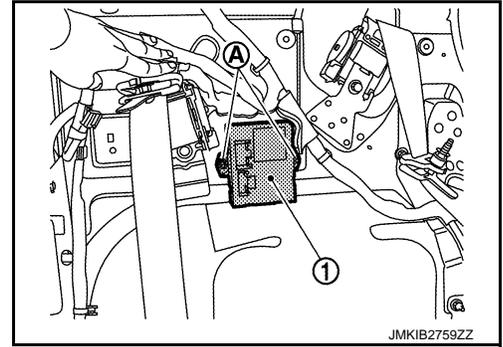
AUTOMATIC BACK DOOR CONTROL UNIT

Removal and Installation

INFOID:000000010708322

REMOVAL

1. For 3 seat row models: Remove third seat. Refer to [SE-70, "Removal and Installation"](#).
2. Remove luggage side lower finisher LH. Refer to [INT-43, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).
3. Disconnect automatic back door control unit harness connector.
4. Remove the automatic back door control unit mounting bolt[Ⓐ], and then remove the automatic back door control unit^①.



INSTALLATION

Install in the reverse order of removal.

NOTE:

After installing automatic back door control unit, perform additional service when replace control unit. Refer to [DLK-116, "Work Procedure"](#).

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AUTOMATIC BACK DOOR MAIN SWITCH

< REMOVAL AND INSTALLATION >

[TYPE 1]

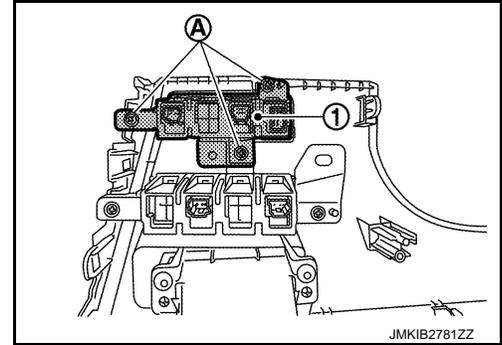
AUTOMATIC BACK DOOR MAIN SWITCH

Removal and Installation

INFOID:000000010708323

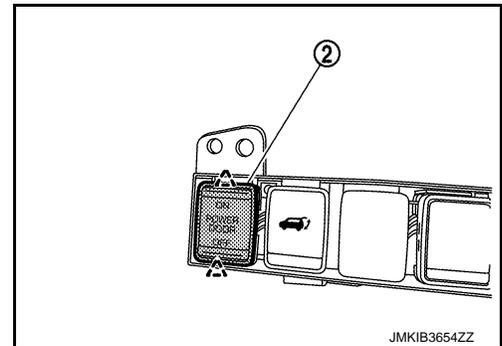
REMOVAL

1. Remove the instrument lower panel RH. Refer to [IP-41, "Removal and Installation"](#).
2. Remove screws(A) and then remove the switch bracket(1) from the instrument lower panel RH.



3. Remove automatic back door main switch(2) from the switch bracket.

 : Pawl



INSTALLATION

Install in the reverse order of removal.

AUTOMATIC BACK DOOR SWITCH

< REMOVAL AND INSTALLATION >

[TYPE 1]

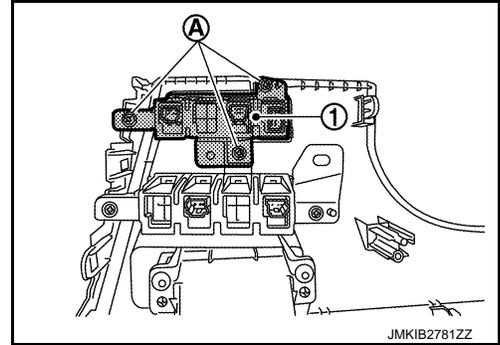
AUTOMATIC BACK DOOR SWITCH

Removal and Installation

INFOID:000000010708324

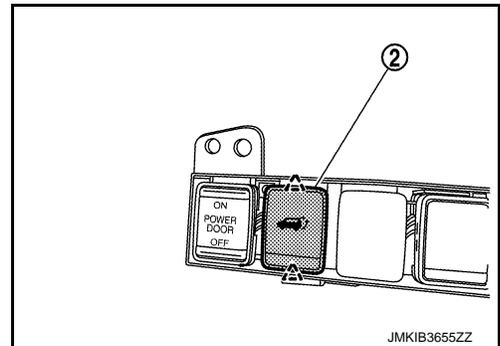
REMOVAL

1. Remove the instrument lower panel RH. Refer to [IP-41, "Removal and Installation"](#).
2. Remove screws **A** and then remove the switch bracket **1** from the instrument lower panel RH **2**.



3. Remove automatic back door switch **2** from the switch bracket.

 : Pawl



INSTALLATION

Install in the reverse order of removal.

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AUTOMATIC BACK DOOR CLOSE SWITCH

< REMOVAL AND INSTALLATION >

[TYPE 1]

AUTOMATIC BACK DOOR CLOSE SWITCH

Removal and Installation

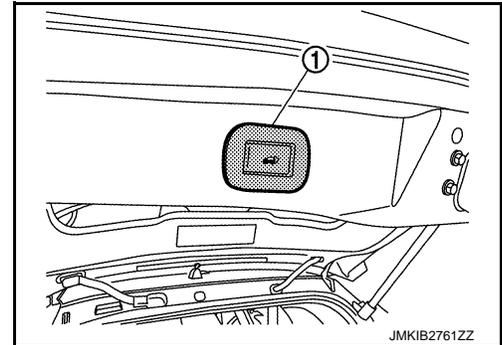
INFOID:000000010708325

REMOVAL

1. Remove automatic back door close switch and switch finisher① using a remover tool.

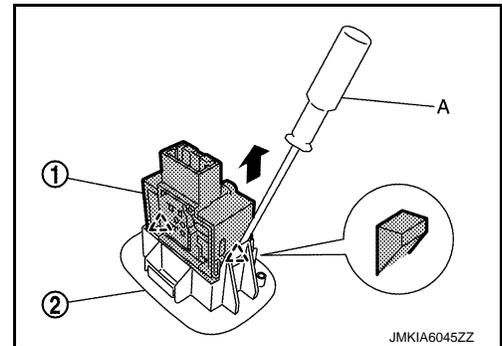
CAUTION:

Apply protective tape on the part to protect it from damage.



2. Disconnect automatic back door close switch harness connector.
3. Remove automatic back door close switch① from automatic back door close switch finisher② using flat-bladed screwdriver (A).

 : Pawl



INSTALLATION

Install in the reverse order of removal.

AUTOMATIC BACK DOOR WARNING BUZZER

< REMOVAL AND INSTALLATION >

[TYPE 1]

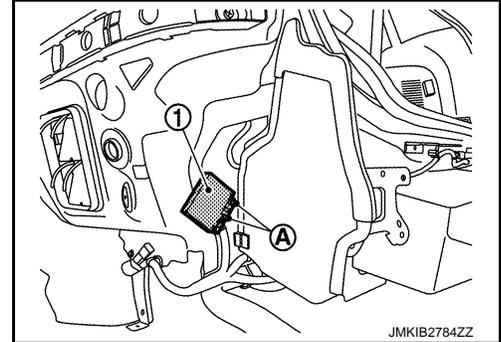
AUTOMATIC BACK DOOR WARNING BUZZER

Removal and Installation

INFOID:000000010708326

REMOVAL

1. Remove rear bumper fascia. Refer to [EXT-18, "Removal and Installation"](#).
2. Disconnect automatic back door warning buzzer harness connector.
3. Remove the automatic back door warning buzzer mounting nuts[Ⓐ], and then remove automatic back door warning buzzer^①.



INSTALLATION

Install in the reverse order of removal.

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HOW TO USE THIS MANUAL

APPLICATION NOTICE

Information

INFOID:0000000010713103

Check the vehicle type to use the service information in this section.

Service information	Destination		
	Handle	Intelligent Key system	Super lock function
Type 1	RHD	With	With
Type 2	LHD	With	Without
Type 3	RHD	Without	With
Type 4	LHD	Without	Without

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000010717413

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 AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

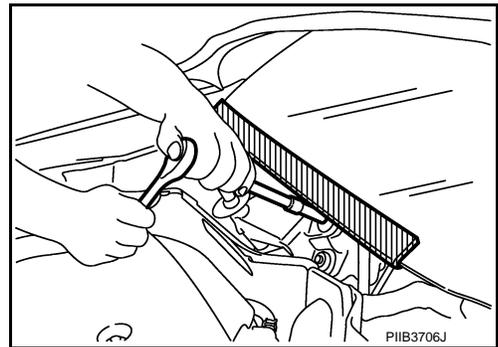
Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Procedure without Cowl Top Cover

INFOID:000000010717414

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



Work

INFOID:000000010717415

- 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 >

[TYPE 2]

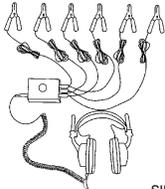
PREPARATION

PREPARATION

Special Service Tools

INFOID:000000010717416

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
<p>(J-39570) Chassis ear</p>  <p>SIIA0993E</p>	<p>Locates the noise</p>
<p>(J-50397) NISSAN Squeak and Rattle Kit</p>  <p>SIIA0994E</p>	<p>Repairs the cause of noise</p>

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[TYPE 2]

SYSTEM DESCRIPTION

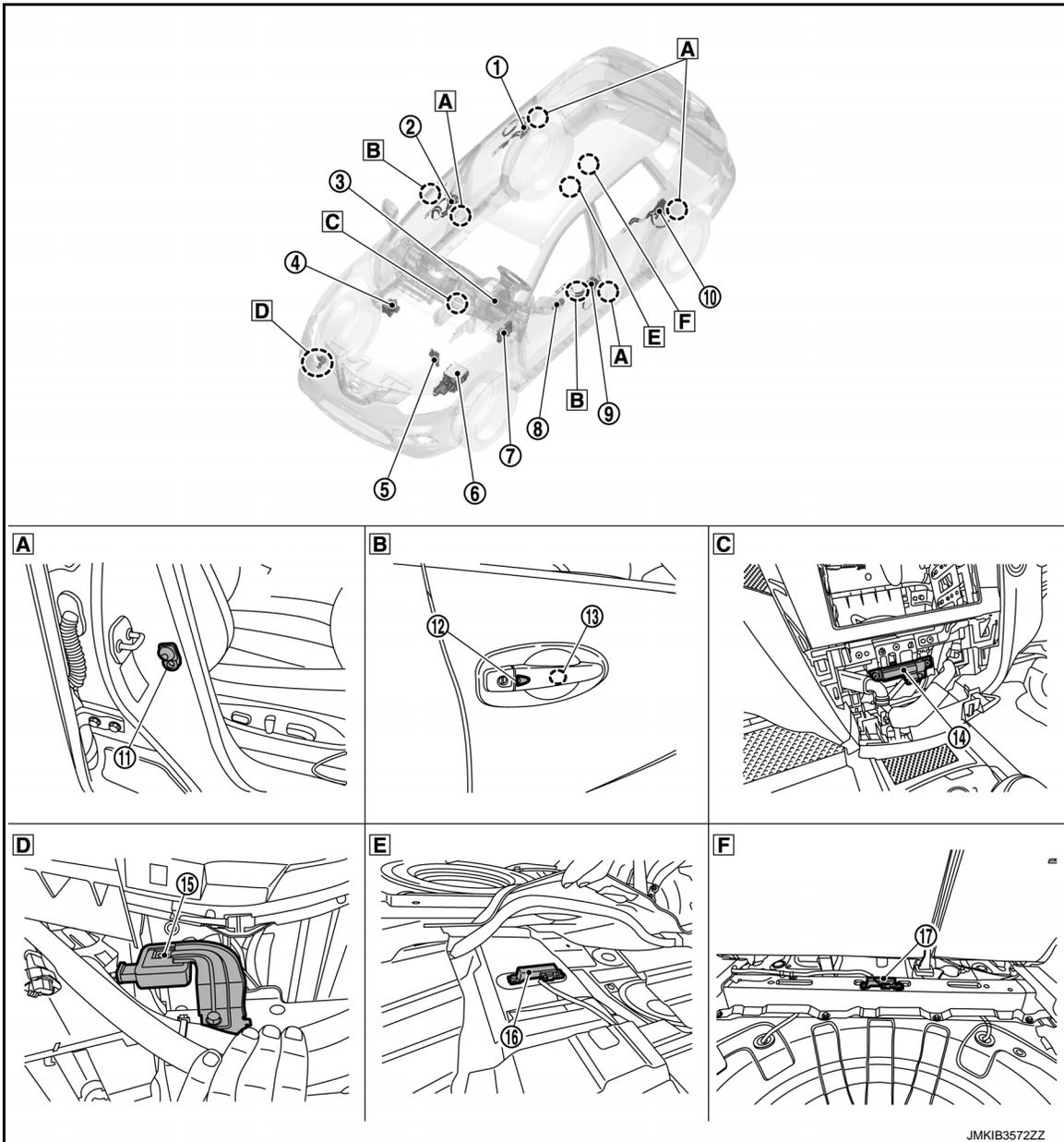
COMPONENT PARTS

DOOR LOCK SYSTEM

DOOR LOCK SYSTEM : Component Parts Location

INFOID:000000010717417

VIEW WITH FRONT



- A** View with door opened
- B** View with door panel
- C** View with A/C control removed
- D** View with front bumper fascia assembly removed
- E** View with rear seat removed
- F** View with front luggage floor board removed

No.	Component	Function
①	Rear door lock assembly RH	DLK-341. "DOOR LOCK SYSTEM : Door Lock Assembly"
②	Front door lock assembly (passenger side)	DLK-341. "DOOR LOCK SYSTEM : Door Lock Assembly"

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COMPONENT PARTS

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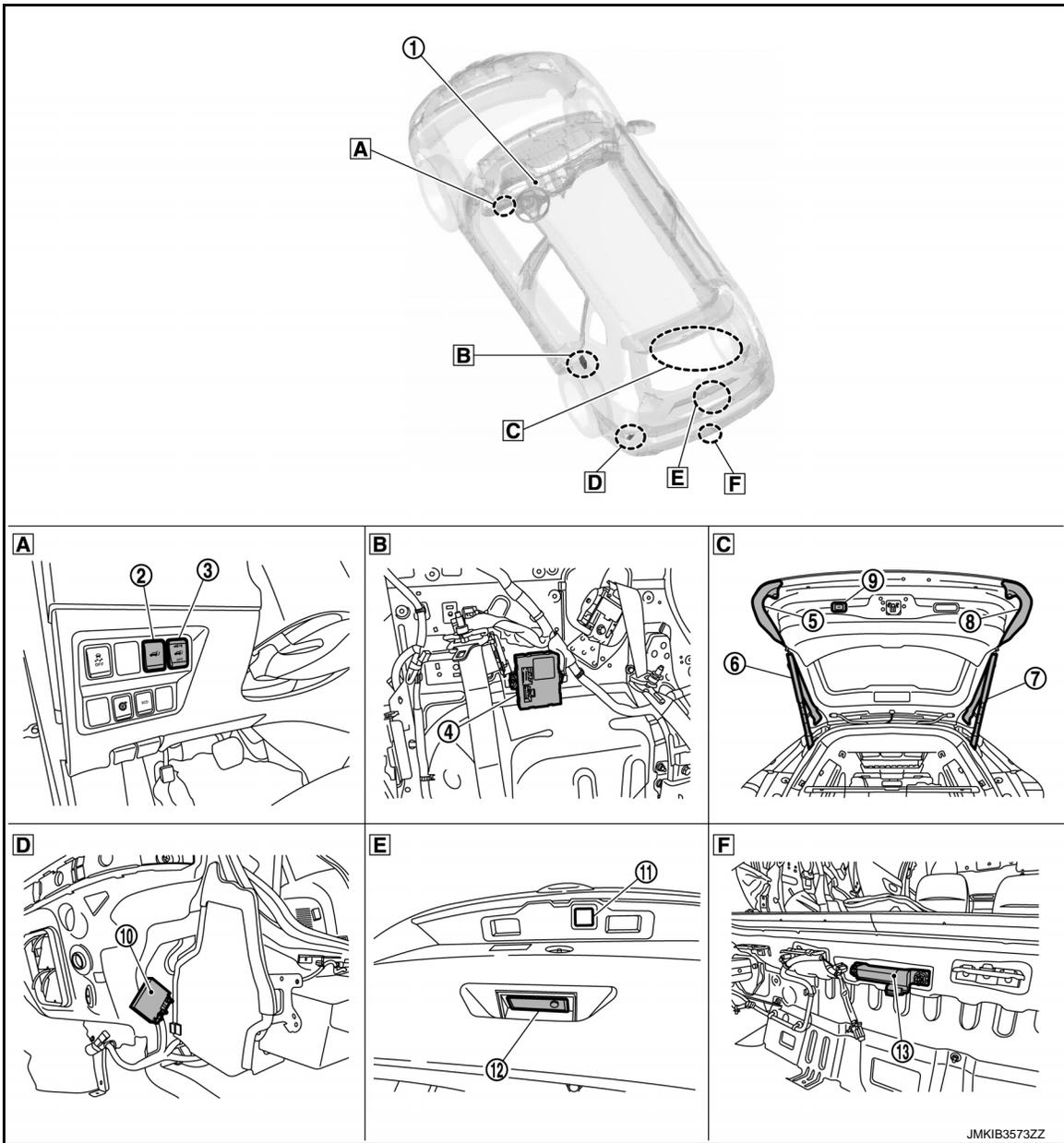
No.	Component	Function
③	Combination meter	<ul style="list-style-type: none"> • Performs operation method guide and warning with buzzer. • Transmits vehicle speed signal to CAN communication line.
④	ABS actuator and electric unit (control unit)	Transmits vehicle speed signal to automatic back door control unit via CAN communication line. Refer to BRC-14, "Component Parts Location" for detailed installation location.
⑤	TCM	Transmits shift position signal to BCM and automatic back door control unit via CAN communication line. Refer to TM-235, "CVT CONTROL SYSTEM : Component Parts Location" for detailed installation location.
⑥	IPDM E/R	Transmits ignition switch ON signal to BCM and automatic back door control unit via CAN communication line. Refer to PCS-5, "Component Parts Location" for detailed installation location.
⑦	BCM	BCM detects the vehicle status according to signals from each door switch and each outside/inside key antenna. BCM transmits drive signal to door lock actuator when BCM receives operation signal from remote keyless entry receiver and each switch. Refer to BCS-6, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
⑧	Power window main switch (door lock and unlock switch)	DLK-341, "DOOR LOCK SYSTEM : Door Lock and Unlock Switch"
⑨	Front door lock assembly (driver side)	DLK-341, "DOOR LOCK SYSTEM : Door Lock Assembly"
⑩	Rear door lock assembly LH	DLK-341, "DOOR LOCK SYSTEM : Door Lock Assembly"
⑪	Door switch	DLK-342, "DOOR LOCK SYSTEM : Door Switch"
⑫	Front door request switch	DLK-341, "DOOR LOCK SYSTEM : Door Request Switch"
⑬	Outside key antenna (front door)	DLK-343, "DOOR LOCK SYSTEM : Outside Key Antenna"
⑭	Inside key antenna (instrument center)	DLK-342, "DOOR LOCK SYSTEM : Inside Key Antenna"
⑮	Intelligent Key warning buzzer	DLK-343, "DOOR LOCK SYSTEM : Intelligent Key Warning Buzzer"
⑯	Inside key antenna (luggage room) (For 2 seat rows models)	DLK-342, "DOOR LOCK SYSTEM : Inside Key Antenna"
⑰	Inside key antenna (luggage room) (For 3 seat rows models)	DLK-342, "DOOR LOCK SYSTEM : Inside Key Antenna"

VIEW WITH REAR

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[TYPE 2]



- A** View with instrument lower panel LH
 B View with luggage side lower finisher removed
 C View with back door opened
D View with rear bumper fascia assembly removed
 E View with back door panel
 F View with rear bumper fascia assembly removed

No.	Component	Function
①	Push-button ignition switch	Inputs push-button ignition switch ON/OFF condition to BCM. Refer to PCS-65, "Component Parts Location" for detailed installation location.
②	Automatic back door switch	DLK-339, "DOOR LOCK SYSTEM : Automatic Back Door Switch"
③	Automatic back door main switch	DLK-338, "DOOR LOCK SYSTEM : Automatic Back Door Main Switch"
④	Automatic back door control unit	DLK-338, "DOOR LOCK SYSTEM : Automatic Back Door Control Unit"
⑤	Touch sensor LH	DLK-344, "DOOR LOCK SYSTEM : Touch Sensor"
⑥	Spindle unit LH	DLK-343, "DOOR LOCK SYSTEM : Spindle Unit"
⑦	Spindle unit RH	DLK-343, "DOOR LOCK SYSTEM : Spindle Unit"

DLK-337

COMPONENT PARTS

< SYSTEM DESCRIPTION >

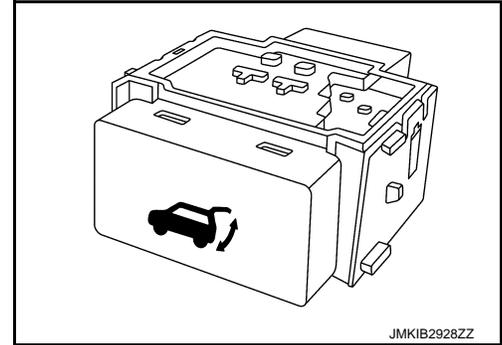
[TYPE 2]

No.	Component	Function
⑧	Touch sensor RH	DLK-344, "DOOR LOCK SYSTEM : Touch Sensor"
⑨	Automatic back door close switch	DLK-338, "DOOR LOCK SYSTEM : Automatic Back Door Close Switch"
⑩	Automatic back door warning buzzer	DLK-340, "DOOR LOCK SYSTEM : Automatic Back Door Warning Buzzer"
⑪	Hands free sensor (with hands free sensor models)	DLK-342, "DOOR LOCK SYSTEM : Hands Free Sensor"
⑫	Back door opener switch assembly	DLK-340, "DOOR LOCK SYSTEM : Back Door Opener Switch Assembly"
⑬	Outside key antenna (rear bumper)	DLK-343, "DOOR LOCK SYSTEM : Outside Key Antenna"

DOOR LOCK SYSTEM : Automatic Back Door Close Switch

INFOID:000000010717418

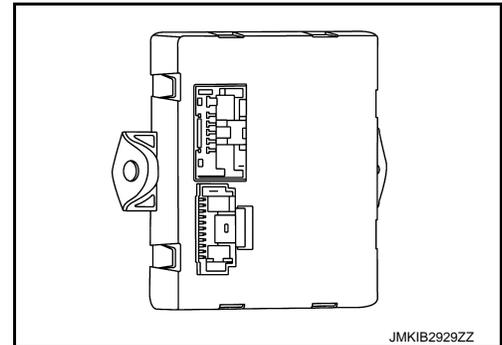
- When automatic back door close switch is pressed, back door auto close or reverse operation is detected and transmits automatic back door close switch signal to automatic back door control unit.
- Automatic back door close switch is installed in the back door panel.



DOOR LOCK SYSTEM : Automatic Back Door Control Unit

INFOID:000000010717419

- Automatic back door control unit controls the automatic back door system.
- Automatic back door control unit is installed behind luggage side lower finisher.



DOOR LOCK SYSTEM : Automatic Back Door Main Switch

INFOID:000000010717420

WITH HANDZ FREE SENSOR MODELS

- Controls automatic back door open/close operation of automatic back door open/close function and hands free function.

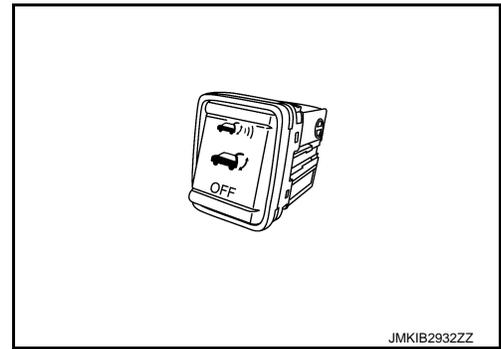
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[TYPE 2]

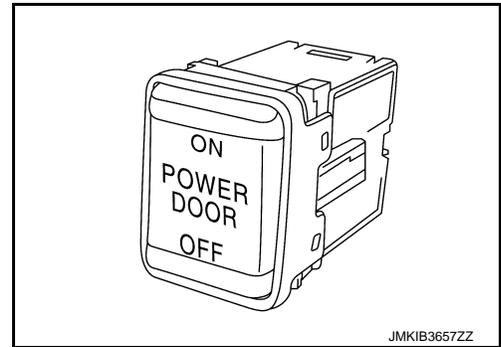
Setting position	Automatic back door open/close function	Hands free function
 JMKIB2820ZZ	ON	ON
 JMKIB2821ZZ	ON	OFF
OFF	OFF	OFF

- Automatic back door main switch is installed in the instrument lower panel LH.



WITHOUT HANDS FREE SENSOR MODELS

- Controls automatic back door open/close operation of automatic back door open/close function.
- Automatic back door main switch is installed in the instrument lower panel LH.



DOOR LOCK SYSTEM : Automatic Back Door Switch

INFOID:000000010717421

- When automatic back door switch is pressed, back door auto open/close operation is detected and transmits automatic back door switch signal to automatic back door control unit.

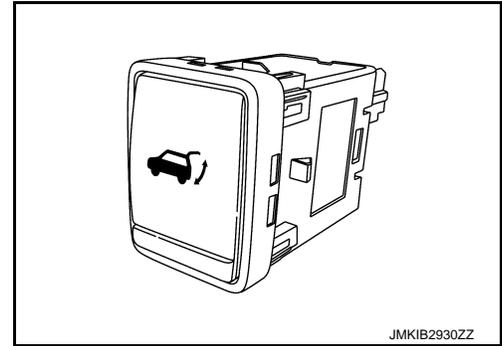
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COMPONENT PARTS

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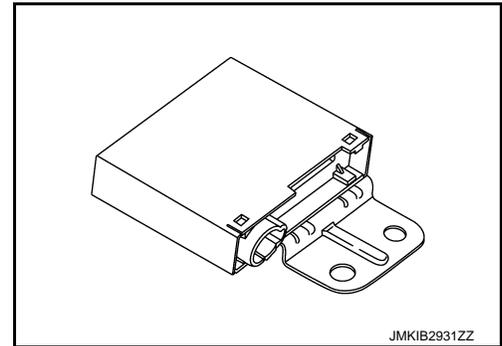
- Automatic back door switch is installed in the instrument lower panel LH.



DOOR LOCK SYSTEM : Automatic Back Door Warning Buzzer

INFOID:000000010717424

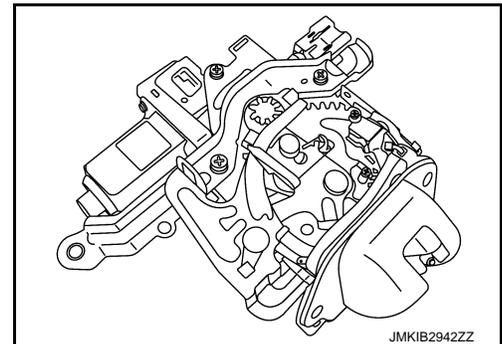
- Warns the user of the automatic back door condition and inappropriate operations with the buzzer sounds.
- Automatic back door warning buzzer is installed behind rear bumper fascia assembly.



DOOR LOCK SYSTEM : Back Door Lock Assembly

INFOID:000000010717424

- Back door lock assembly integrates back door closure motor, half latch switch, open switch, close switch and back door switch.
- Closure motor: Inputs open/close signal from automatic back door control unit and activates the back door auto closure operation.
- Half latch switch: Starts the closure motor close operation.
- Open switch: Stops the closure motor open operation.
- Close switch: Stops the closure motor close operation
- Back door switch: Detects open/close status of back door.
- Back door lock assembly is installed in the back door panel.



DOOR LOCK SYSTEM : Back Door Opener Switch Assembly

INFOID:000000010717424

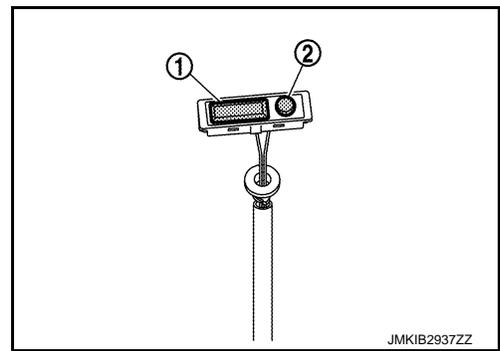
- Back door opener switch assembly integrates back door opener switch and back door opener request switch.
- Back door opener switch① detects open operation of back door and transmits back door opener switch signal to BCM.
- Back door request switch② detects door lock/unlock operation and transmits door request switch signal to BCM.

COMPONENT PARTS

[TYPE 2]

< SYSTEM DESCRIPTION >

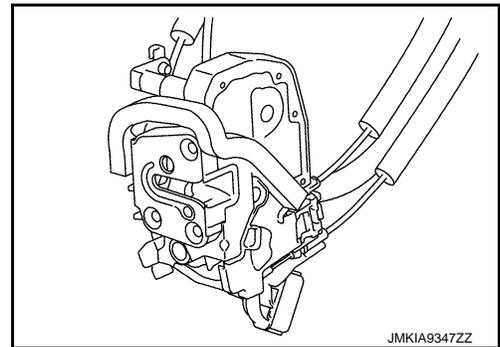
- Back door opener switch assembly is installed in the back door panel.



DOOR LOCK SYSTEM : Door Lock Assembly

INFOID:000000010717425

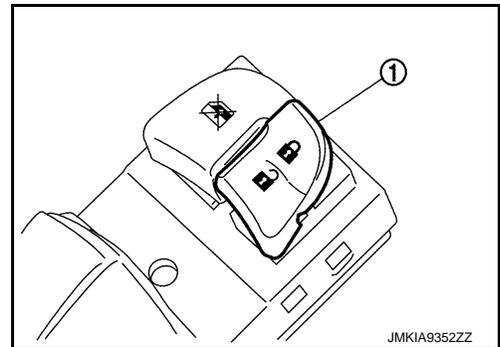
- Door lock actuator and unlock sensor are integrated in front door lock assembly (driver side).
- Door lock actuator receives lock/unlock signal from BCM, and then locks/unlocks door.
- Only front door lock assembly (driver side) integrates unlock sensor. Unlock sensor transmits lock/unlock status of driver side door to BCM.



DOOR LOCK SYSTEM : Door Lock and Unlock Switch

INFOID:000000010717426

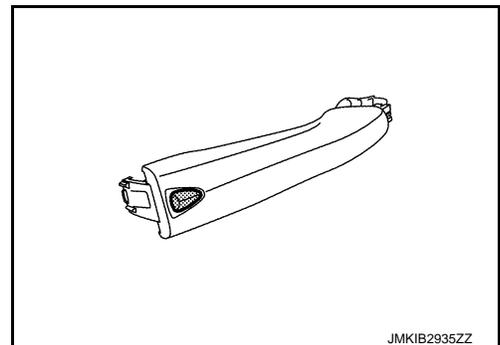
- Door lock and unlock switch transmits door lock/unlock signal operation to BCM.
- Door lock and unlock switch ① is integrated in the power window main switch.



DOOR LOCK SYSTEM : Door Request Switch

INFOID:000000010717427

- Door request switch detects door lock/unlock operation and transmits door request switch signal to BCM.
- Door request switch is integrated in the outside handle grip.



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COMPONENT PARTS

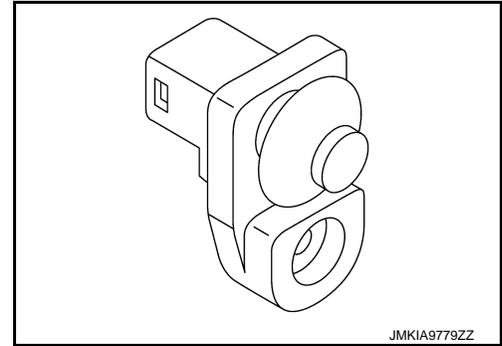
< SYSTEM DESCRIPTION >

[TYPE 2]

DOOR LOCK SYSTEM : Door Switch

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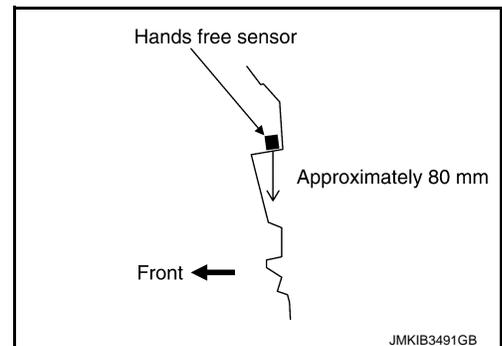
Detects door open/close condition.



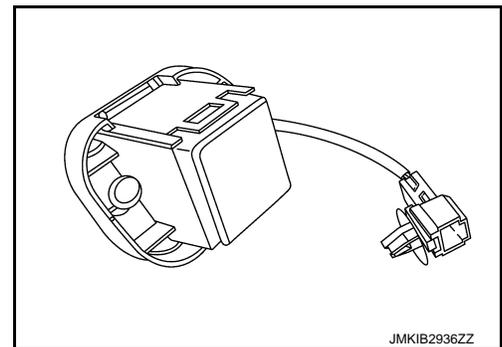
DOOR LOCK SYSTEM : Hands Free Sensor

INFOID:000000010717429

- When the back door is fully closed and the operating conditions are satisfied, automatic back door control unit supplies power to hands free sensor. When a hand or baggage is held over the hands free sensor is shaded with a hand or baggage for approximately 1 second while carrying the Intelligent Key, the hand-free sensor transmits hands-free sensor signal to BCM.
- The hands free sensor detection area of hands free function is in the range of approximately 80mm surrounding the hands free sensor.



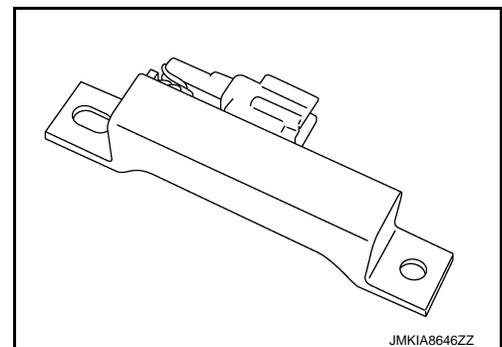
- Hands free sensor is installed in the back door finisher.



DOOR LOCK SYSTEM : Inside Key Antenna

INFOID:000000010717430

- Inside key antenna detects that Intelligent Key is within the inside detection area, and then transmits detection status to BCM.
- Inside key antenna (instrument center) is installed behind instrument lower cover.
- Inside key antenna (luggage room) is installed behind rear seat.



COMPONENT PARTS

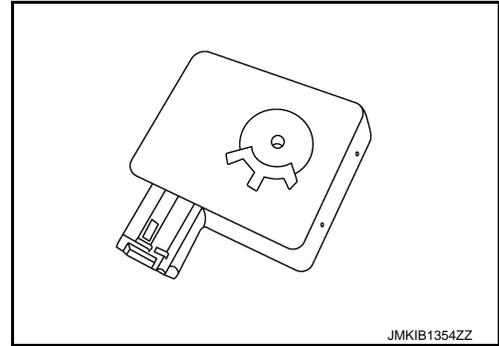
< SYSTEM DESCRIPTION >

[TYPE 2]

DOOR LOCK SYSTEM : Intelligent Key Warning Buzzer

INFOID:000000010717431

- Intelligent Key warning buzzer warns the user, who is outside vehicle, of operation confirmation according to Intelligent Key operation and door request switch operation, or of an inappropriate operation.
- Intelligent Key warning buzzer is installed in the rear of front bumper fascia assembly.

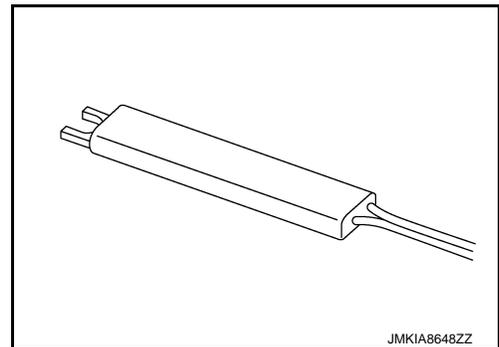


DOOR LOCK SYSTEM : Outside Key Antenna

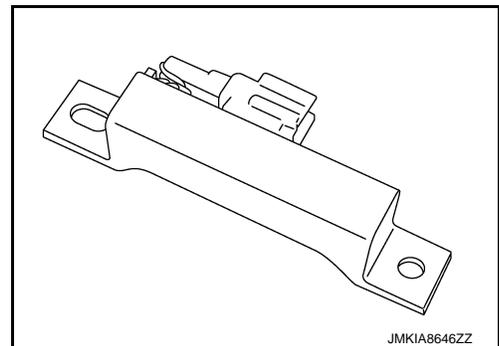
INFOID:000000010717432

- Outside key antenna detects that Intelligent Key is within the outside detection area, and then transmits detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.
- Outside key antenna (driver side) and outside key antenna (passenger side) are installed in the outside handle.
- Outside key antenna (rear bumper) is installed in the rear of bumper fascia assembly.

DRIVER SIDE AND PASSENGER SIDE



REAR BUMPER



DOOR LOCK SYSTEM : Spindle Unit

INFOID:000000010717433

- Spindle unit integrates encoder
- Encoder: Automatic back door control unit receives the pulse signals from encoders A and B that occurred due to synchronization with the back door operation. The automatic back door control unit calculates the back door position, operation direction, and operation speed according to the received pulse signals.

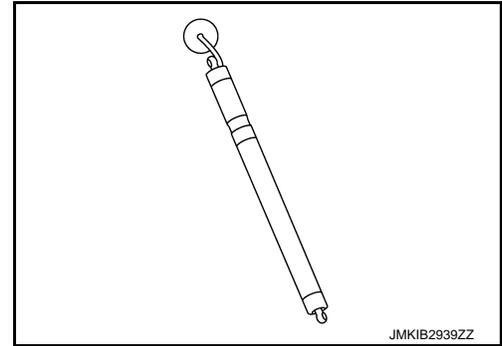
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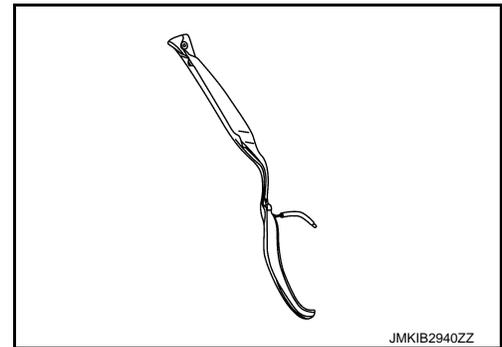
- Spindle motor: Inputs open/close signal from automatic back door control unit and activates the automatic back door open/close operation.



DOOR LOCK SYSTEM : Touch Sensor

INFOID:000000010717434

During back door close operation, the touch sensor detects any trapped foreign material.



SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

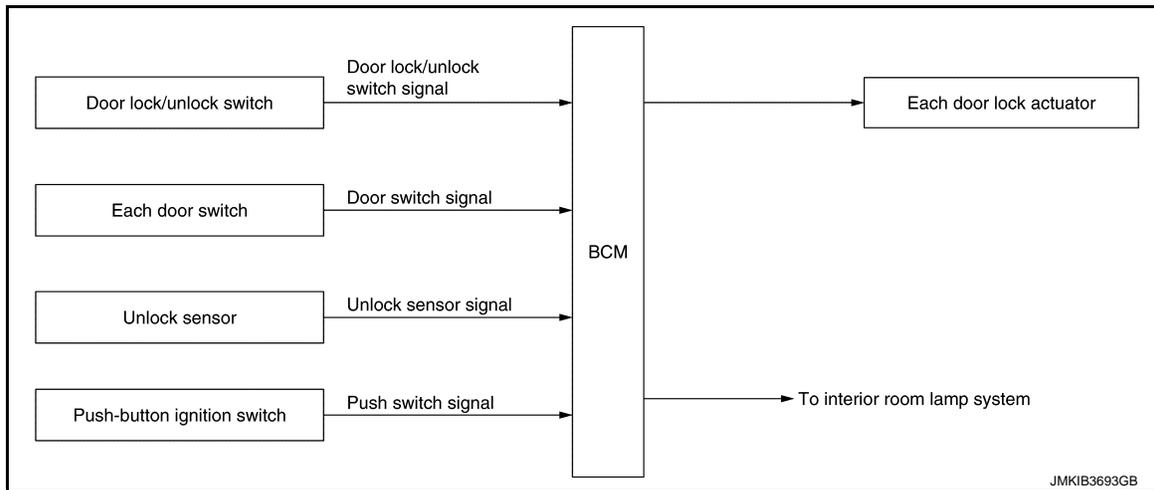
[TYPE 2]

SYSTEM (POWER DOOR LOCK SYSTEM)

System Description

INFOID:000000010717435

SYSTEM DIAGRAM



DOOR LOCK FUNCTION

Door Lock and Unlock Switch

- The door lock and unlock switch is built into power window main switch.
- Interlocked with the locking operation of door lock and unlock switch, door lock actuator of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuator of all doors are unlocked.

Unlock Sensor

- BCM locks all doors or unlocks all doors, when driver door lock knob is operated.
- With the mechanical key inserted in the door key cylinder on driver side, turning it to lock position, locks door lock actuator of all doors.
- With the mechanical key inserted in the door key cylinder on driver side, turning it to unlock position once unlocks the driver door, turning it to unlock position again within 5 seconds after the first unlock operation unlocks all of the other doors actuator. (Anti-hijack function operation)

DLK

Anti-hijack function operation mode can be changed using CONSULT. Refer to [DLK-384, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\) \(With Intelligent Key System, Without Super Lock\)"](#).

Operation Condition

If all of the following conditions are satisfied, door lock and unlock operation is performed using the door lock and unlock switch.

Door lock and unlock switch operation	Operation condition
LOCK/UNLOCK	<ul style="list-style-type: none"> • Doors are not locked by Intelligent Key, door request switch and auto door lock function. • Ignition position warning function is not activated. • Key remainder function (driver door opened) is not activated. Refer to DLK-358, "KEY REMINDER FUNCTION : System Description"

IGNITION POSITION WARNING FUNCTION

When ignition switch position is ON and any door is open, all doors cannot locked when door lock and unlock switch is operated in lock direction.

INTERIOR ROOM LAMP CONTROL FUNCTION

Interior room lamp is controlled according to door lock /unlock state, refer to [INL-11, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"](#).

OVERRIDE FUNCTION

SYSTEM (POWER DOOR LOCK SYSTEM)

[TYPE 2]

< SYSTEM DESCRIPTION >

When inside handle of driver door is operated while doors are in lock states, lock state of the applicable door lock becomes invalid and the door is open.

UNLOCK LINK FUNCTION

When driver door opened using the override function, all doors are unlocked.

Unlock function operates when driver door is open while all of the following conditions are satisfied.

Operation condition	<ul style="list-style-type: none">• Doors are locked by door lock/unlock switch or by automatic lock/unlock function.• Driver side door switch is switched from OFF to ON.• Anti-hijack function is not activated.• Vehicle speed is 5 km/h (3 MPH) or less.
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NOTE:

When anti-hijack function is activated, only the applicable door is unlocked.

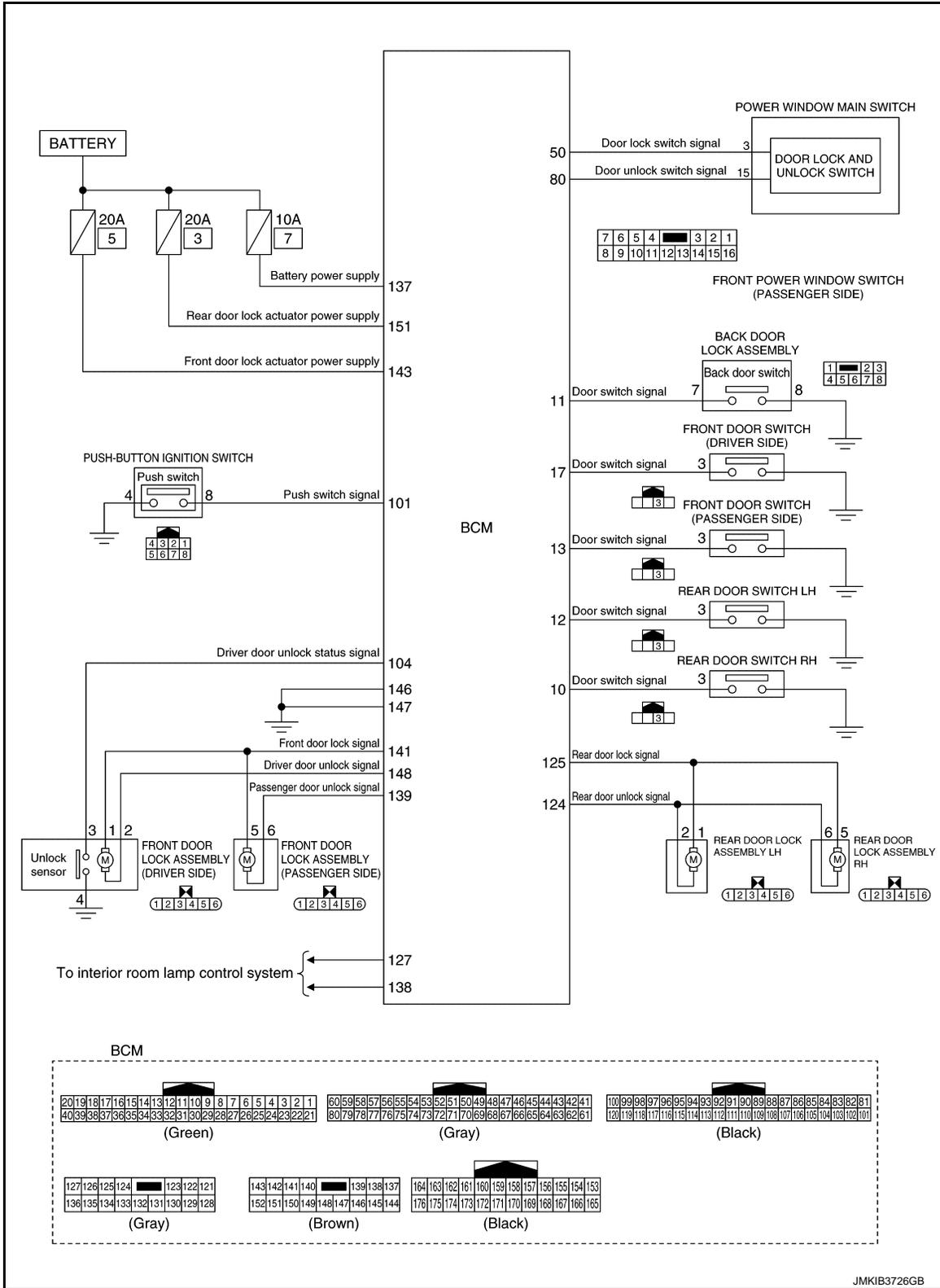
SYSTEM (POWER DOOR LOCK SYSTEM)

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[TYPE 2]

Circuit Diagram

INFOID:000000010717436



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SYSTEM (INTELLIGENT KEY SYSTEM)

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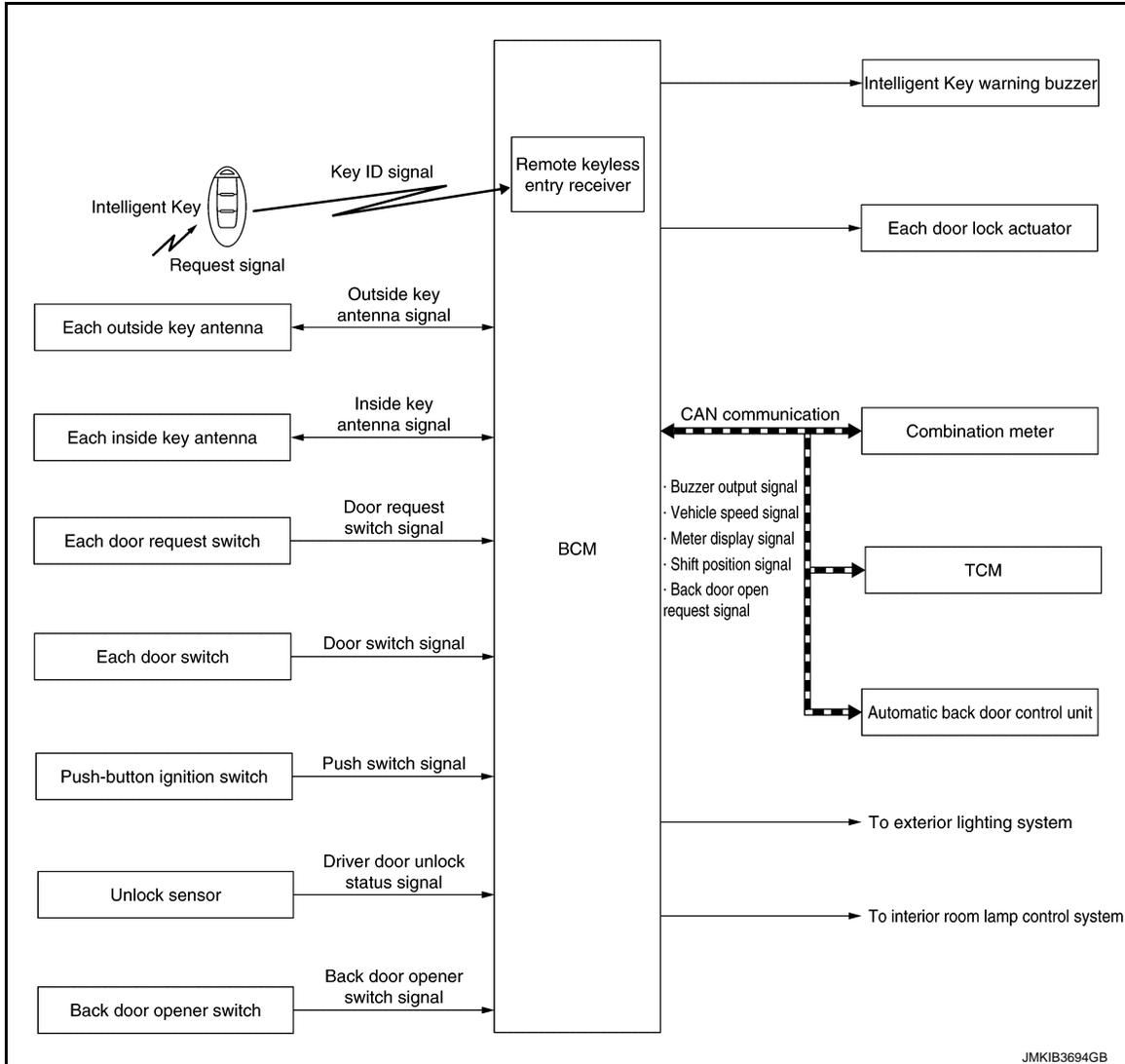
[TYPE 2]

SYSTEM (INTELLIGENT KEY SYSTEM) INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Description

INFOID:000000010717437

SYSTEM DIAGRAM



SYSTEM DESCRIPTION

- The Intelligent Key system is a system that makes it possible to lock and unlock the door locks (door lock/unlock function) by carrying the Intelligent Key, which operates based on the results of electronic ID verification using two-way communication between the Intelligent Key and the vehicle (BCM).

NOTE:

The driver should always carry the Intelligent Key

- The settings for each function can be changed with CONSULT.
- If an Intelligent Key is lost, a new Intelligent Key can be registered. A maximum of 4 Intelligent Keys can be registered.
- It is possible to perform a diagnosis on the system and register an Intelligent Key with CONSULT.

Function	Description	Refer
Door lock	Lock/unlock can be performed by pressing the door request switch.	DLK-352
Back door open	The back door can be opened by carrying the Intelligent Key and pressing the back door opener switch.	DLK-355

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Function	Description	Refer
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.	DLK-356
Key reminder	The Intelligent Key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.	DLK-358
Warning (information display)	If an action that does not meet the operating condition of the Intelligent Key system is taken, the information display displays to inform the driver.	DLK-370
Warning (buzzer)	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver.	DLK-370
Engine start	The engine can be turned on while carrying the Intelligent Key.	SEC-15
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state.	INL-11

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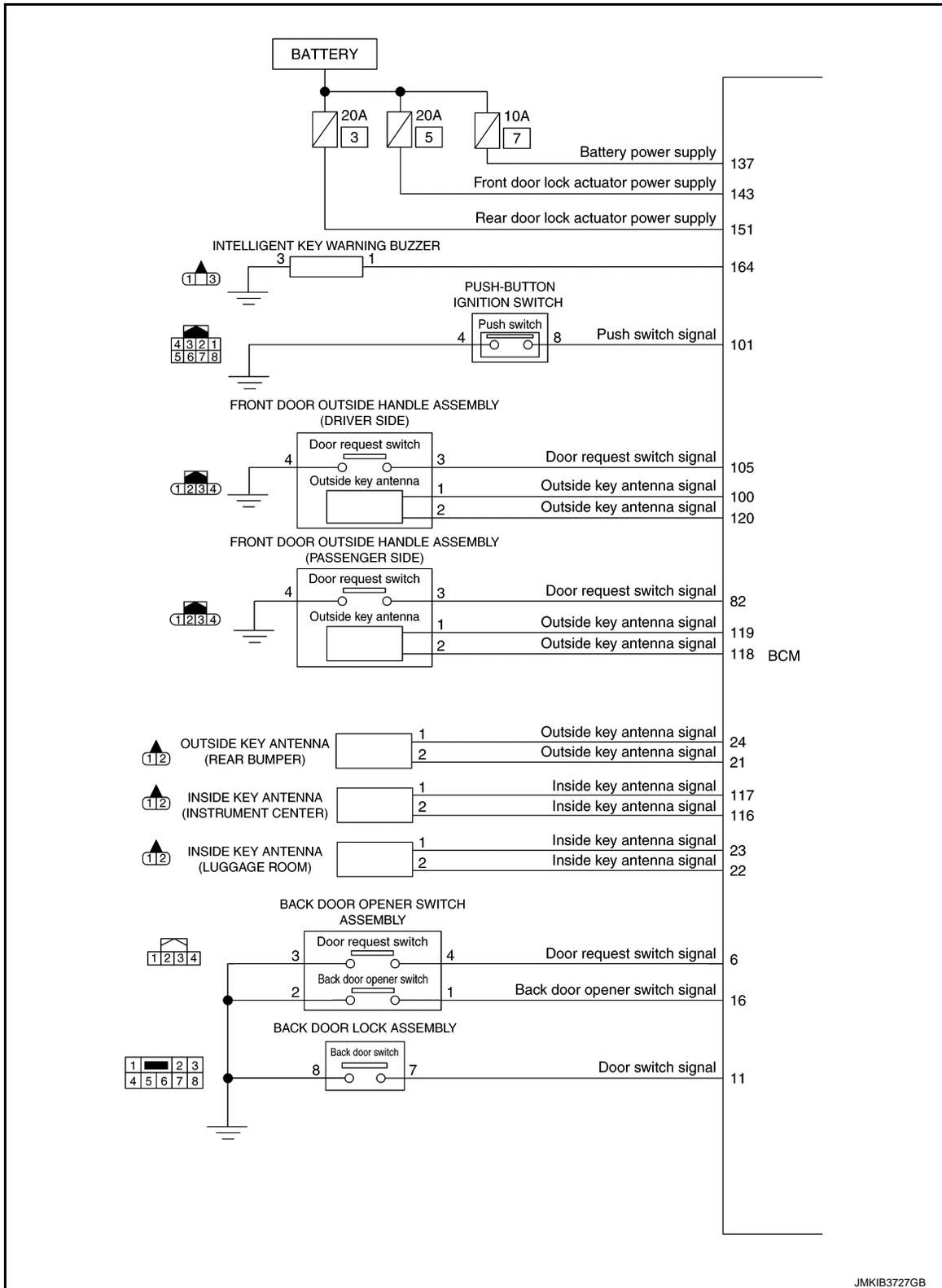
SYSTEM (INTELLIGENT KEY SYSTEM)

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[TYPE 2]

INTELLIGENT KEY SYSTEM : Circuit Diagram

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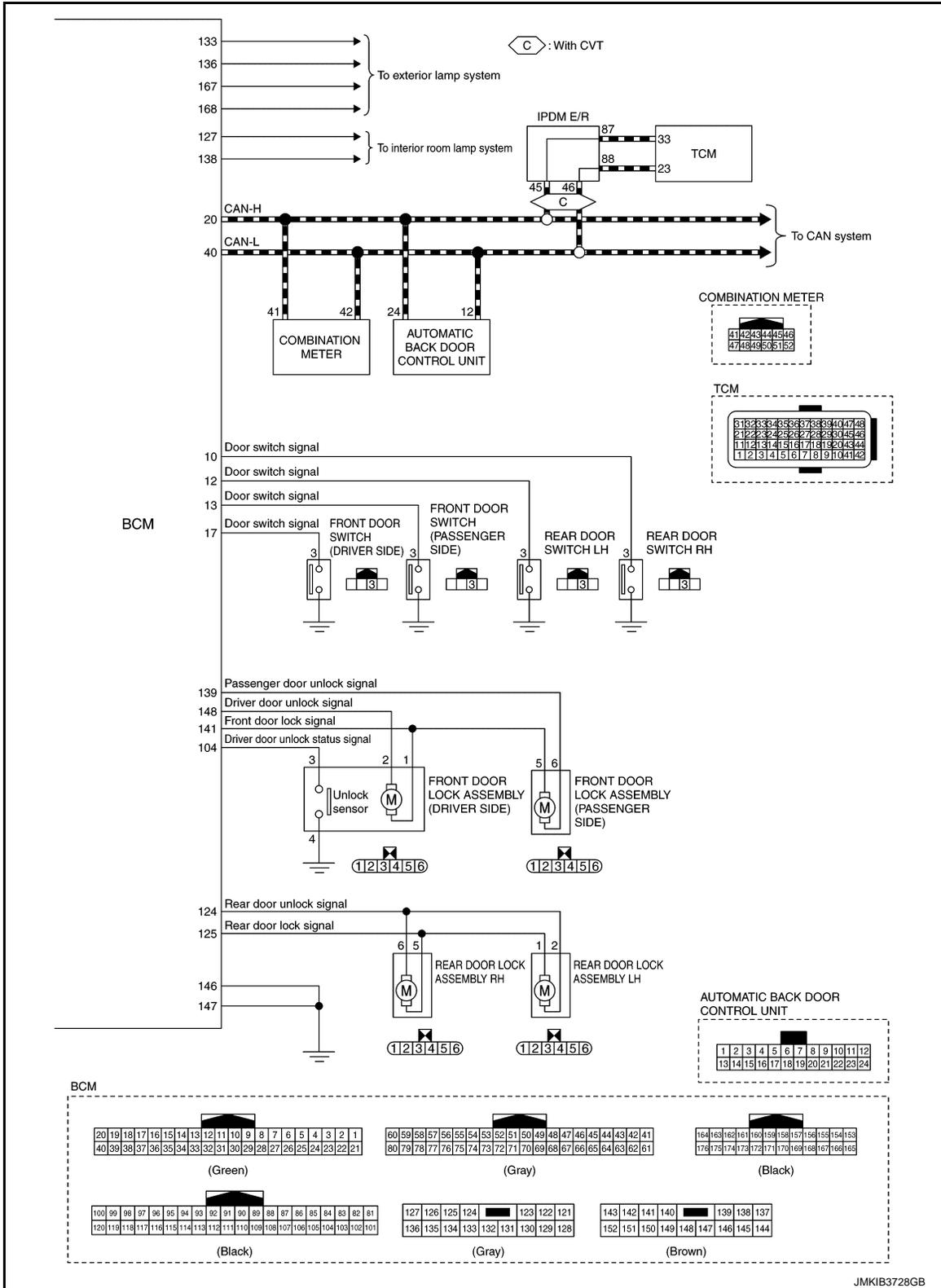


JMKIB3727GB

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]



DOOR LOCK FUNCTION

SYSTEM (INTELLIGENT KEY SYSTEM)

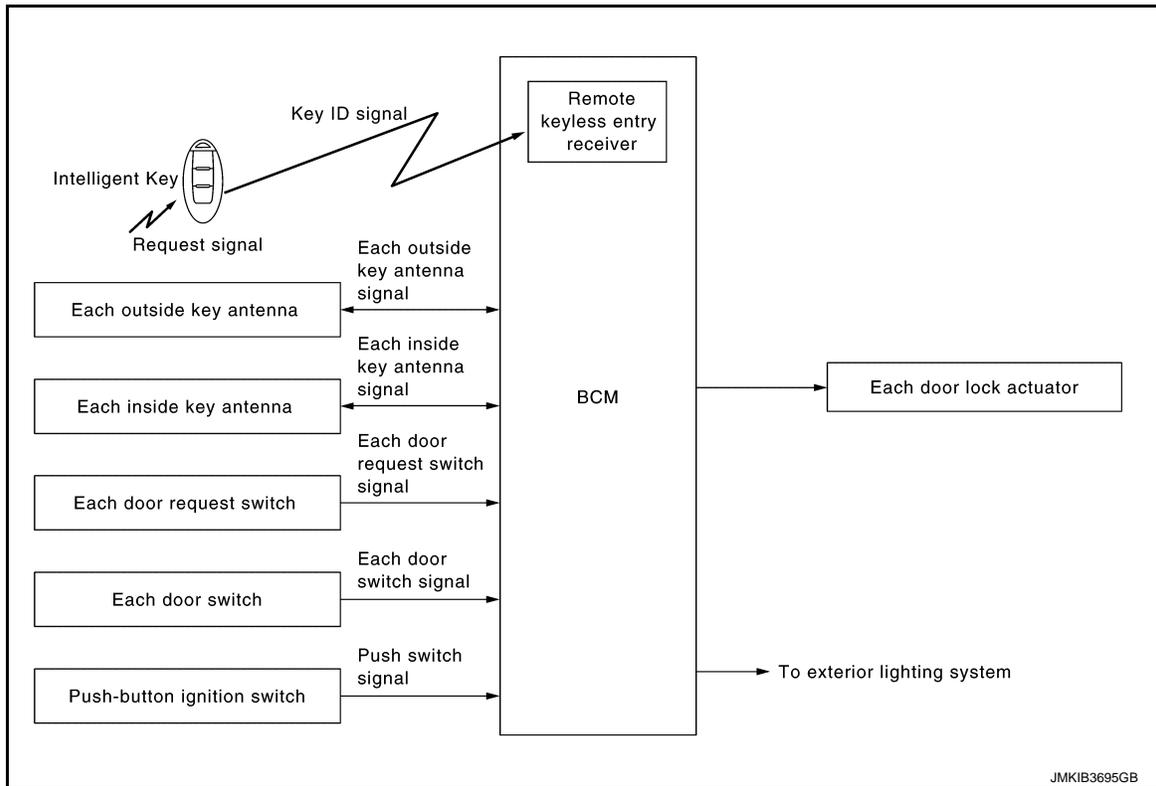
< SYSTEM DESCRIPTION >

[TYPE 2]

DOOR LOCK FUNCTION : System Description

INFOID:000000010717439

SYSTEM DIAGRAM



Door lock function controls operation function of the following items.

- Door lock and unlock function (door request switch)
- Anti-hijack function (door request switch)
- Reminder function (door request switch)
- Auto door lock function (door request switch)

DOOR LOCK AND UNLOCK FUNCTION (DOOR REQUEST SWITCH)

When pressing the door request switch, it is possible to lock and unlock the door by carrying the Intelligent Key.

Operation Description

- When the BCM detects that each door request switch is pressed, it starts the outside key antenna and inside key antenna corresponding to the pressed door request switch and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is 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 BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM lock/unlock each door lock actuator.

Operation Condition

If the following conditions are satisfied, door lock and unlock operation is performed if the door request switch is operated.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Each door request switch operation	Operation condition
Lock	<ul style="list-style-type: none"> All doors are closed Ignition switch is in the OFF position P position warning is not activated Intelligent Key is outside the vehicle Intelligent Key is within outside key antenna detection area
Unlock	<ul style="list-style-type: none"> All doors are closed Ignition switch is in the OFF position Intelligent Key is outside 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.

How to Change Door Lock and Unlock Function Operation Mode

Door lock and unlock function (door request switch) operation mode can be changed using CONSULT.

Refer to [DLK-385, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\) \(Without Super Lock\)"](#).

ANTI-HIJACK FUNCTION

Lock Operation

When an LOCK signal is sent from door request switch (driver side, passenger side or back door), all doors are locked.

Unlock Operation

- When an UNLOCK signal from front door request switch (driver side) is transmitted, driver side door unlocks. When another UNLOCK signal is transmitted within 5 seconds, all door unlocks.
- When an UNLOCK signal from front door request switch (passenger side) is transmitted, all doors unlocks.
- When an UNLOCK signal from back door request switch is transmitted, back door open permission is set. When another UNLOCK signal is transmitted within 5 seconds, all door unlocks.

How to change anti-hijack mode.

With CONSULT

Anti-hijack mode can be set to ON or OFF using CONSULT.

Refer to [DLK-384, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\) \(With Intelligent Key System, Without Super Lock\)"](#).

Without CONSULT

Anti-hijack function can be set to ON/OFF by user with a registered Intelligent Keyfob.

- ON/OFF can be switched when Intelligent Key lock button and unlock button are pressed simultaneously for 5 seconds or more while steering lock is locked.
- When mode is switched, hazard warning lamp blinks.

OFF → ON : 1 blink

ON → OFF : 3 blinks

REMINDER FUNCTION (DOOR REQUEST SWITCH)

When doors are locked or unlocked by door request switch, BCM blinks hazard warning lamps as a reminder. Reminder function does not operate if ignition switch in ON position.

Door lock operation (With door request switch)	Hazard warning lamp blink
Lock	Once
Unlock (all door unlock)	Twice
Unlock (anti-hijack operation)	Twice (quick)

AUTO DOOR LOCK FUNCTION (DOOR REQUEST SWITCH)

After door is unlocked by door request switch operation and if 30 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Operating condition	<ul style="list-style-type: none"> • Door switch is ON (each door is open) • BCM receives door lock signal • Push switch is pressed
---------------------	--

How to Change Auto Door Lock Function Operation Time

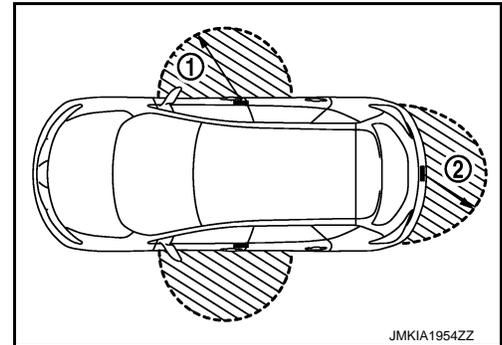
🔑 With CONSULT

Auto door lock function operation time can be changed using CONSULT.

Refer to [DLK-385, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\) \(Without Super Lock\)"](#).

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 outside door handle, passenger outside door handle ① and back door request switch ②. However, this operating range depends on the ambient conditions.



LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Function	Intelligent Key	Remote keyless entry receiver	Door switch	Door request switch	Door lock actuator	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamp	Push-button ignition switch	Combination meter
Door lock and unlock function (door request switch)	×	×	×	×	×	×	×			×			
Anti-hijack function (door request switch)	×	×	×	×	×	×	×			×			
Reminder function (door request switch)								×	×	×	×		×
Auto door lock function (door request switch)	×		×	×	×					×		×	

BACK DOOR OPEN FUNCTION

SYSTEM (INTELLIGENT KEY SYSTEM)

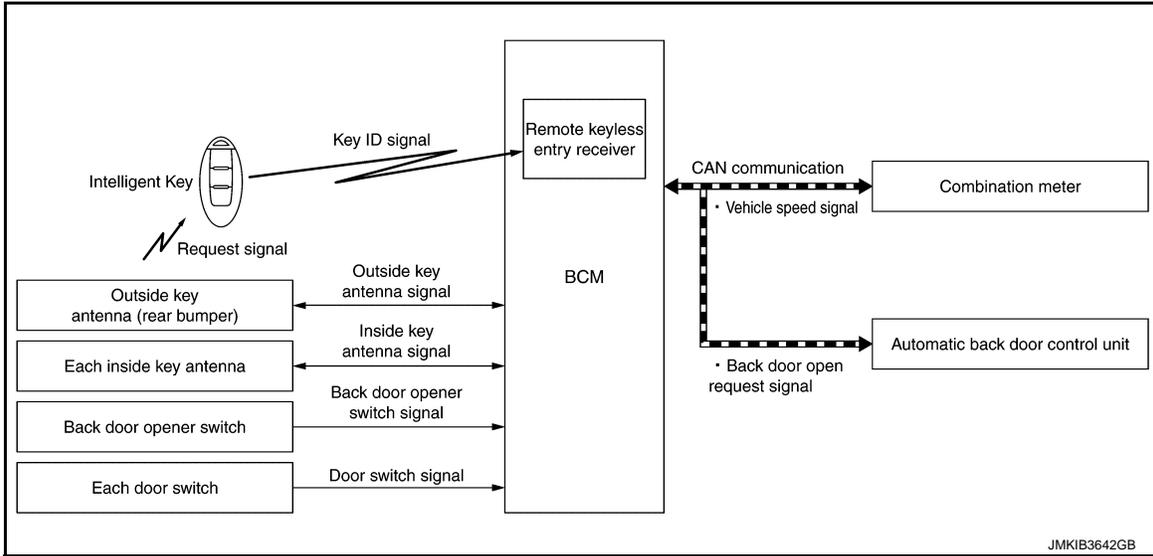
< SYSTEM DESCRIPTION >

[TYPE 2]

BACK DOOR OPEN FUNCTION : System Description

INFOID:000000010717440

SYSTEM DIAGRAM



BACK DOOR OPEN FUNCTION

- When the BCM detects that back door opener switch is pressed, it activates the outside key antenna (rear bumper) and inside key antenna and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the back 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 BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- If the verification result is OK, BCM transmits the back door open request signal to automatic back door control module via CAN communication.
- BCM unlocks all doors (except back door) and blinks hazard lamp 2 times as a reminder.
- Automatic back door control module transmits back door open request signal to back door lock assembly and back door is open.
- When the back door is open, automatic back door system performs waiting operation for next back door close operation.

DLK

The operation of then back door open is the same as the automatic back door system, refer to [DLK-371, "System Description"](#).

OPERATION CONDITION

If the following conditions are satisfied, the back door can be opened.

Back door opener switch operation	Operation condition
Open	<ul style="list-style-type: none"> • All door: locked • Ignition switch: OFF • Intelligent Key is within outside key antenna (rear bumper) detection area *

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

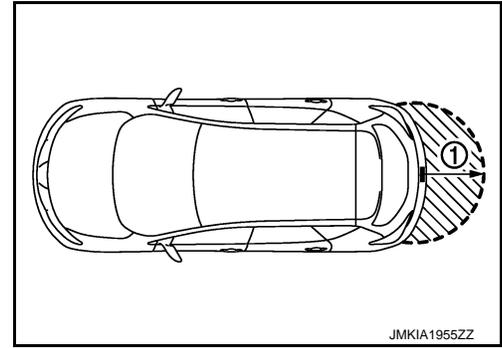
OUTSIDE KEY ANTENNA DETECTION AREA

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

The outside key antenna detection area of back door open function is in the range of approximately 80 cm (31.50 in) surrounding back door opener switch ①. However, this operating range depends on the ambient conditions.



LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

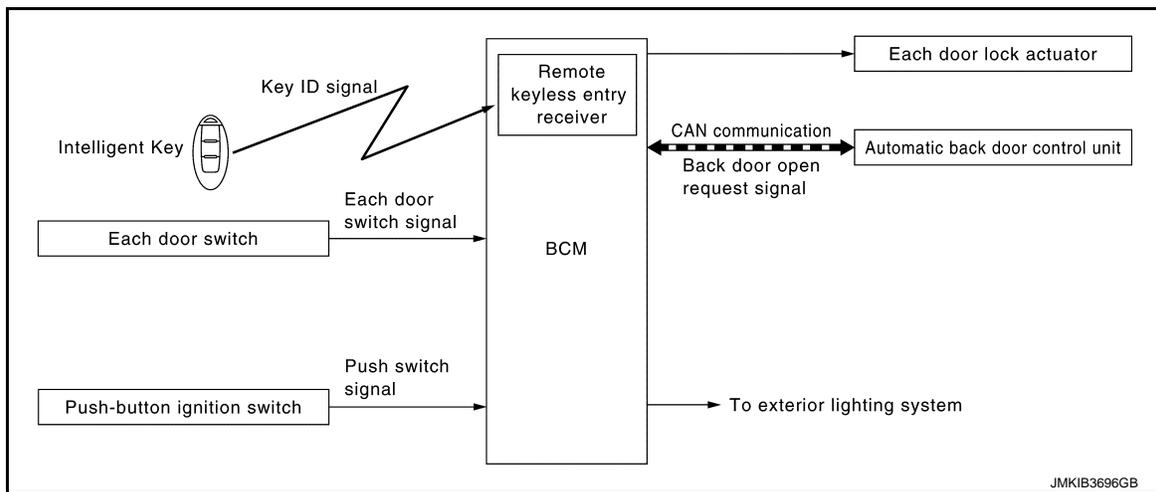
Function	Intelligent Key	Remote keyless entry receiver	Back door switch	Inside key antenna	Outside key antenna (rear bumper)	CAN communication system	BCM	Automatic back door control unit	Back door opener switch
Back open function (back door opener switch)	×	×	×	×	×	×	×	×	×

REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:000000010717441

SYSTEM DIAGRAM



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

Remote keyless entry function controls operation function of the following items.

- Door lock and unlock function (Intelligent Key)
- Anti-hijack function (Intelligent Key)
- Reminder function (Intelligent Key)
- Auto door lock function (Intelligent Key)
- Automatic back door open/close function

DOOR LOCK AND UNLOCK FUNCTION (INTELLIGENT KEY)

SYSTEM (INTELLIGENT KEY SYSTEM)

[TYPE 2]

< SYSTEM DESCRIPTION >

Operation Description

- When door lock/unlock button of the Intelligent Key is pressed, lock signal or unlock signal is transmitted from Intelligent Key to BCM via remote keyless entry receiver.
- BCM receives the signal and compares it with the registered key ID to the vehicle.
- BCM lock/unlock each door lock actuator, when key ID matches.

Operation Condition

If the following condition is satisfied, door lock and unlock operation is performed if the Intelligent Key button is pressed.

Intelligent Key button operation	Operation condition
Lock	<ul style="list-style-type: none">• Ignition switch: OFF position• P position warning is not activated• All doors are closed
Unlock	Ignition switch: OFF position

ANTI-HIJACK FUNCTION

- When an LOCK signal is transmitted from Intelligent Key, all doors are locked.
- When an UNLOCK signal is transmitted from Intelligent Key once, driver door is unlocked.
- Then, if an UNLOCK signal is transmitted from Intelligent Key again, all other doors are unlocked.

How to change anti-hijack mode.

With CONSULT

Anti-hijack mode can be set to ON or OFF using CONSULT.

Refer to [DLK-384. "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\) \(With Intelligent Key System, Without Super Lock\)".](#)

Without CONSULT

Anti-hijack function can be set to ON/OFF by user with a registered Intelligent Keyfob.

- ON/OFF can be switched when Intelligent Key lock button and unlock button are pressed simultaneously for 5 seconds or more while steering lock is locked.
- When mode is switched, hazard warning lamp blinks.

OFF → ON : 1 blink

ON → OFF : 3 blinks

REMINDER FUNCTION (INTELLIGENT KEY)

Operation Description

When doors are locked or unlocked by Intelligent Key button operation, BCM blinks hazard warning lamps as a reminder.

Door lock operation (With Intelligent Key button)	Hazard warning lamp blink
Lock	Once
Unlock (all door unlock)	Twice
Unlock (anti-hijack operation)	Twice (quick)

AUTO DOOR LOCK FUNCTION (INTELLIGENT KEY)

After door is unlocked by Intelligent Key button operation and if 30 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.

Operating condition	<ul style="list-style-type: none">• Door switch is ON (door is open)• BCM receives lock signal• Push switch is pressed
---------------------	--

How to Change Auto Door Lock Function Operation Time

Auto door lock function operation time can be changed using CONSULT.

Refer to [DLK-385. "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\) \(Without Super Lock\)".](#)

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

When back door open button is pressed, back door open automatically for detailed description. Refer to [DLK-371, "System Description"](#).

OPERATION AREA

To check that the Intelligent Key works normally, use within 1 m (3 ft.) range of each door, however the operable range may differ according to surroundings.

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

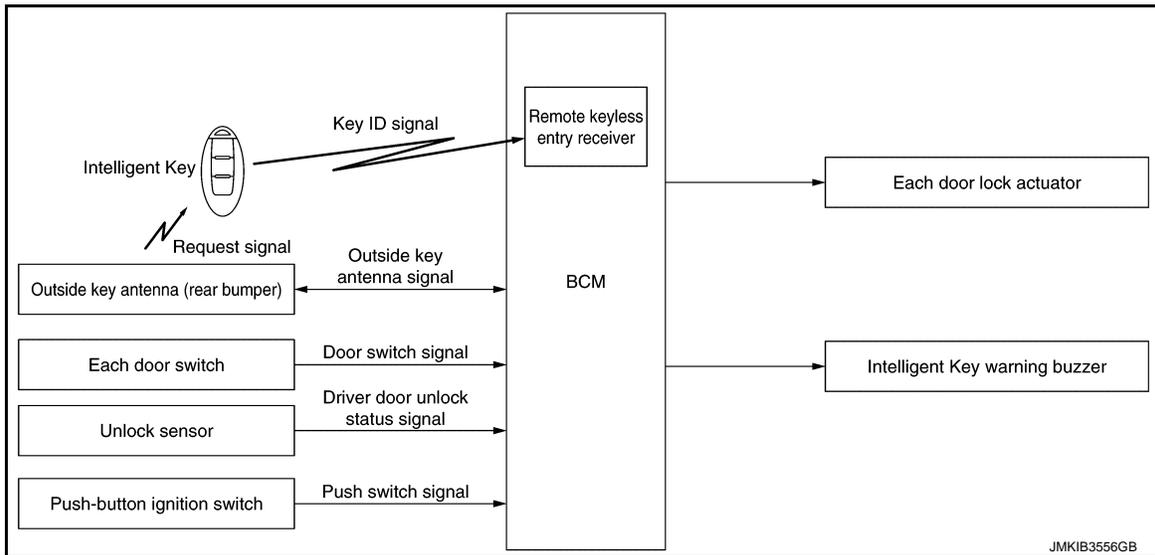
Function	Intelligent Key	Remote keyless entry receiver	Door switch	Door lock actuator	Push-button ignition switch	CAN communication system	BCM	IPDM E/R	Automatic back door control unit	Combination meter	Hazard warning lamp
Door lock and unlock function (Intelligent Key)	×	×		×		×	×				
Reminder function (Intelligent Key)	×	×	×			×	×	×		×	×
Auto door lock function (Intelligent Key)	×	×	×	×	×		×				
Automatic back door open/close function	×	×				×	×		×		

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION : System Description

INFOID:000000010717442

SYSTEM DIAGRAM



BASIC OPERATION

Key reminder is the function that prevents the key from being left in the vehicle. Key reminder has the following 3 functions.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Key remainder function	Operation condition	Operation
Driver door opened	Right after door is locked by door lock/unlock switch or driver door lock knob operation under the following conditions <ul style="list-style-type: none"> • Ignition switch: LOCK or OFF position • Registered Intelligent Key is inside the vehicle • Driver door is opened 	All doors unlock
Driver door closed*	When all doors are locked by door lock/unlock switch or driver door lock knob within 0.2 seconds after driver door is closed	All doors unlock
Door is open to closed	When all of the following conditions are satisfied <ul style="list-style-type: none"> • Locked all doors • [Any door: open] → [all doors: closed] • Registered Intelligent Key is inside the vehicle 	<ul style="list-style-type: none"> • All doors unlock • Honk Intelligent Key warning buzzer

*:If the door closing impact shocks the door lock knob, or contacts against baggage with the door lock knob might activate the door locks accidentally but unlock operation is perform in these cases.

NOTE:

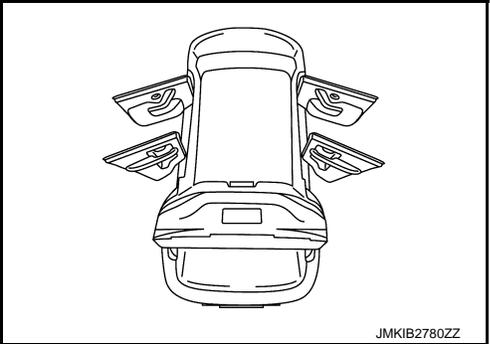
The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function does not operate when the Intelligent Key is on the instrument panel, rear parcel shelf, or in the glove box. Also, this system sometimes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

INFORMATION DISPLAY (COMBINATION METER)

INFORMATION DISPLAY (COMBINATION METER) : Door Open Warning INFOID:0000000010750521

DESIGN/PURPOSE

Information display warns the driver that each door is open or is not fully closed.

Symbol	Message
	-

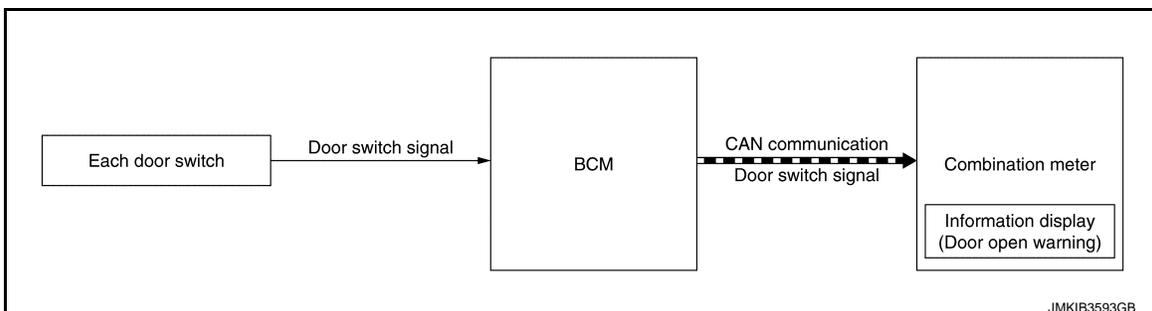
DLK

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

Refer to [MWI-47, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYSTEM DIAGRAM



SIGNAL PATH

- BCM transmits door switch signal to combination meter via CAN communication.

SYSTEM (INTELLIGENT KEY SYSTEM)

[TYPE 2]

< SYSTEM DESCRIPTION >

- When combination meter judges according to received door switch signal that a door is open or not fully closed, door open warning displays.

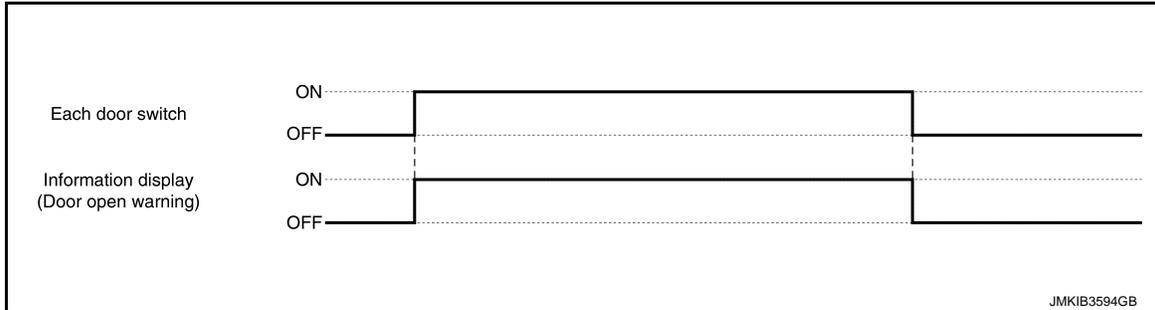
WARNING/INDICATOR OPERATING CONDITION

Each door switch is ON

WARNING/INDICATOR CANCEL CONDITION

All door switches are OFF

TIMING CHART



INFORMATION DISPLAY (COMBINATION METER) : Engine Start Information

INFOID:000000010750522

DESIGN/PURPOSE

Information display informs the driver that the engine can be started.

	Symbol	Message
CVT models	<p style="text-align: right;">JMKIB1883ZZ</p>	-
M/T models	<p style="text-align: right;">JMKIB1884ZZ</p>	-

SYNCHRONIZATION WITH MASTER WARNING LAMP

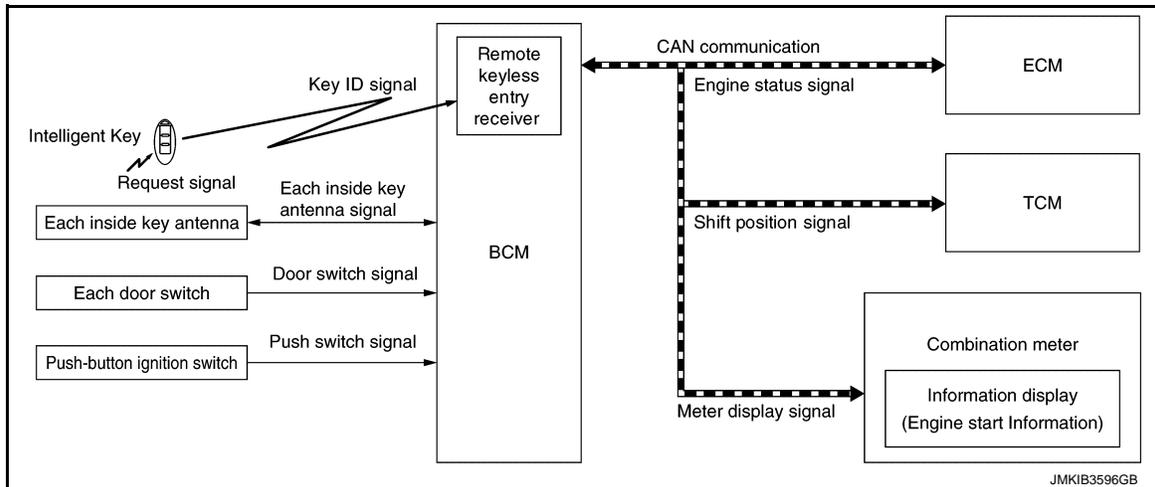
No applicable

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

SYSTEM DIAGRAM



SIGNAL PATH

- BCM receives shift position signal and engine status signal from TCM and ECM via CAN communication and checks that the engine can be started.
- When BCM detects that the engine can be started, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, engine start information displays.

WARNING/INDICATOR OPERATING CONDITION

When Ignition Switch is ON.

When all of the following conditions are satisfied.

- Ignition switch is in ON position.
- Shift position: P position
- Engine can be started.

When Ignition Switch is Other Than ON.

When all of the following conditions are satisfied.

- One condition of A
- All conditions of B

A condition	B condition
<ul style="list-style-type: none"> • Any door is open → All door is closed • Push-button ignition switch: Pressed • Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed. 	<ul style="list-style-type: none"> • Ignition switch: Other than ON position • Shift position: P position • Registered Intelligent Key is detected inside vehicle.

When Ignition Switch is Turned From ON to OFF.

When all of the following conditions are satisfied.

- Ignition switch: ON → OFF
- Shift position: P position
- Registered Intelligent Key is detected inside vehicle.

NOTE:

Engine start information turns ON for several seconds and then turns OFF, when ignition switch is turned to the ON position from the OFF position. Engine start information does not turn ON until opening and closing of driver door is detected again.

WARNING/INDICATOR CANCEL CONDITION

When Ignition Switch is ON.

When any of the following conditions are satisfied.

- Shift position: Other than P position
- Engine is started.
- Engine cannot start.

When Ignition Switch is Other than ON.

When any of the following conditions are satisfied.

SYSTEM (INTELLIGENT KEY SYSTEM)

[TYPE 2]

< SYSTEM DESCRIPTION >

- Shift position: Other than P position
- Registered Intelligent Key is not detected inside the vehicle.
- When BCM receives Intelligent Key button operation via remote keyless receiver.
- When BCM receives door request switch signal from door request switch.
- After 15 seconds are passed since the engine start information is displayed.

When Ignition Switch is Turned From ON to OFF.

- After several seconds are passed since the engine start information is displayed.

INFORMATION DISPLAY (COMBINATION METER) : Intelligent Key Low Battery Warning

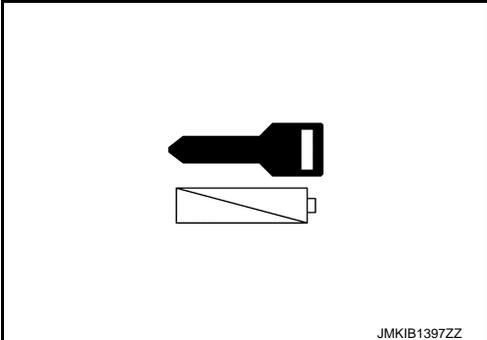
INFOID:000000010750523

DESIGN/PURPOSE

Information display warns the driver that Intelligent Key battery level is low.

NOTE:

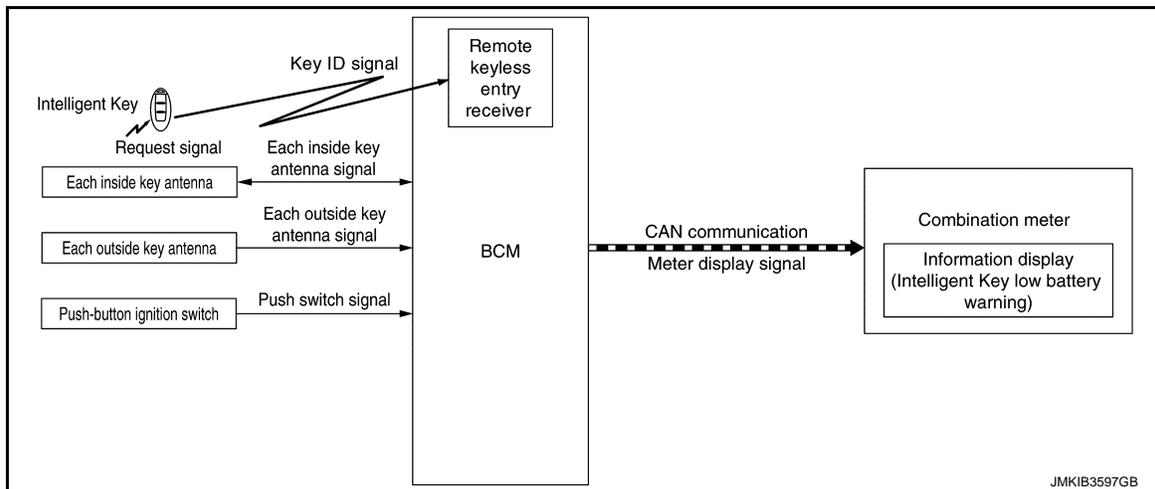
Information display does not display when Intelligent Key battery is discharged.

Symbol	Message
	Key Battery Low

SYNCHRONIZATION WITH MASTER WARNING LAMP

No applicable

SYSTEM DIAGRAM



SIGNAL PATH

- When Intelligent Key receives request signal from inside key antenna or outside key antenna, transmits key ID signal is transmitted from Intelligent Key to remote keyless entry receiver.
- BCM receives key ID signal via remote keyless entry receiver and detects that Intelligent Key battery level is low.
- When BCM detects that ignition switch is ON, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, Intelligent Key low battery warning displays.

WARNING/INDICATOR OPERATING CONDITION

SYSTEM (INTELLIGENT KEY SYSTEM)

[TYPE 2]

< SYSTEM DESCRIPTION >

When all of the following conditions are satisfied.

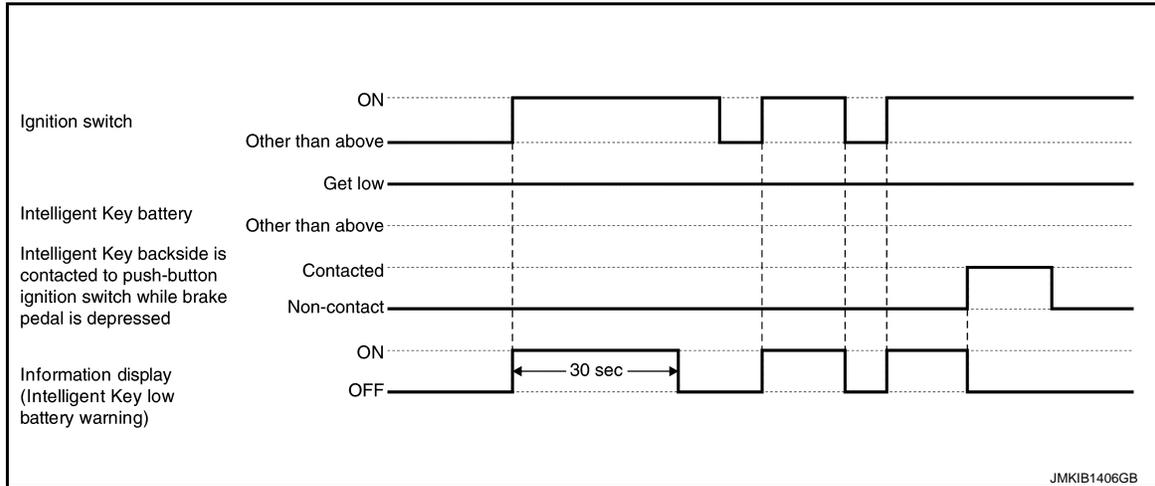
- Ignition switch is in ON position.
- Intelligent Key battery level is low.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

- After 30 seconds are passed since the Intelligent Key low battery warning is displayed
- Ignition switch is in a position other than ON.
- When Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed.

TIMING CHART



INFORMATION DISPLAY (COMBINATION METER) : Intelligent Key System Malfunction

INFOID:000000010750524

DESIGN/PURPOSE

Information display warns the driver that Intelligent Key system malfunctions or that engine cannot be started.

Symbol	Message
 <p style="text-align: right; font-size: small;">JMKIB1398ZZ</p>	<p>Key System Error See Owner's Manual</p>

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

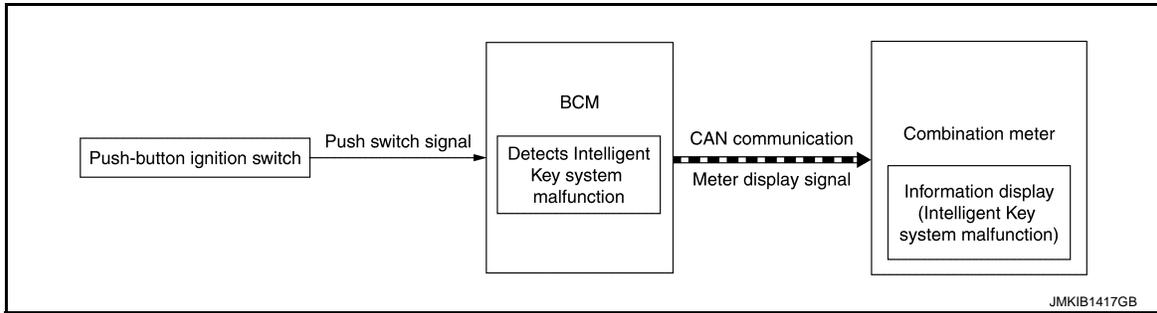
Refer to [MWI-47. "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

SYSTEM DIAGRAM



SIGNAL PATH

- When BCM detects that Intelligent Key system malfunctions or that the engine cannot be started, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, Intelligent Key system malfunction displays.

WARNING/INDICATOR OPERATING CONDITION

When any of the following conditions are satisfied.

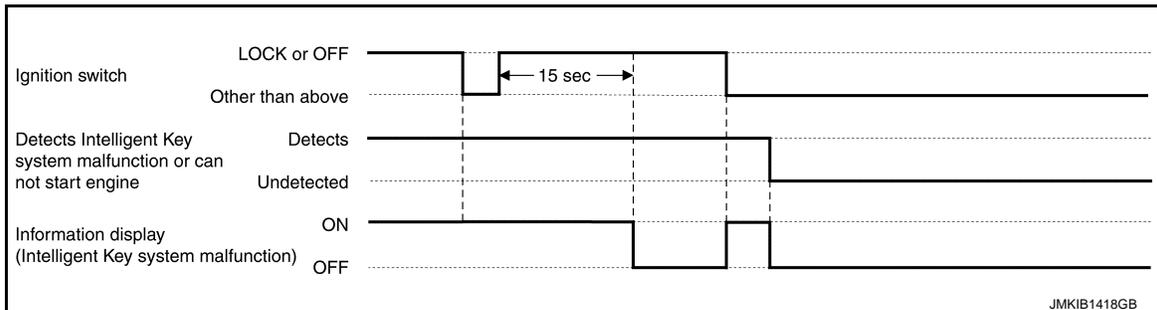
- The engine cannot be started.
- Intelligent Key system malfunction is detected.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

- Intelligent Key system malfunction or engine non-start status is resolved.
- Ignition switch is turned to LOCK or OFF, and 15 seconds are passed.

TIMING CHART

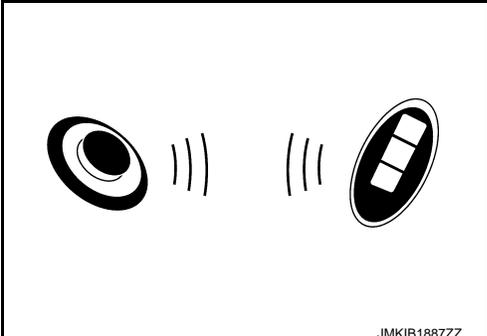


INFORMATION DISPLAY (COMBINATION METER) : Key ID Verification Information

INFOID:000000010750525

DESIGN/PURPOSE

If the system cannot detect a registered Intelligent Key inside the vehicle, it informs the driver that it is necessary for the vehicle to detect a registered Intelligent Key.

Symbol	Message
 <p>JMKIB1887ZZ</p>	-

SYNCHRONIZATION WITH MASTER WARNING LAMP

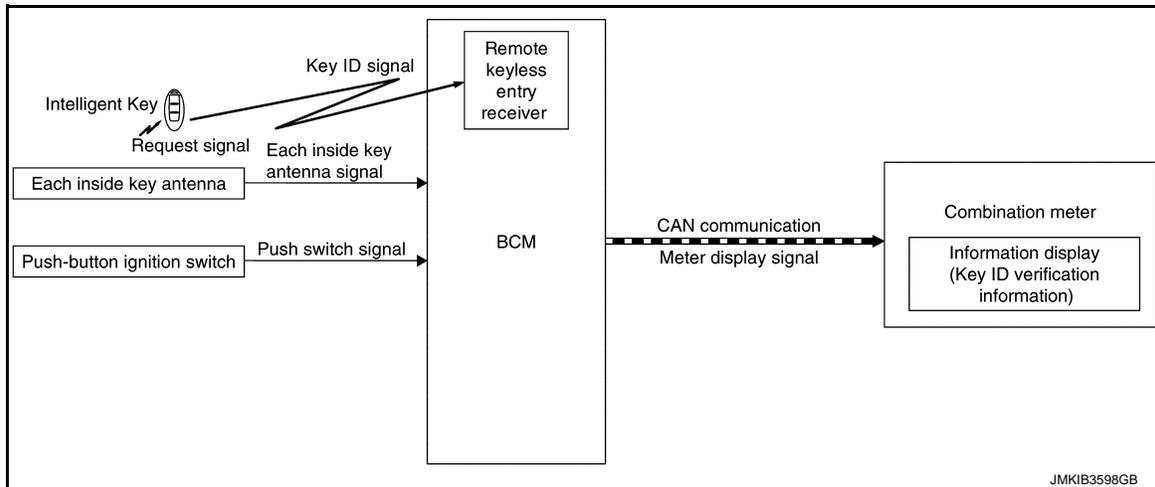
No applicable

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

SYSTEM DIAGRAM



SIGNAL PATH

- BCM activates inside key antenna and checks that Intelligent Key is in vehicle, when push-button ignition switch operation is performed while ignition switch position is LOCK.
- When BCM does not detect a registered Intelligent Key in vehicle, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, key ID warning displays.
- After 5 seconds are passed since the key ID warning is displayed, key ID verification information displays.

WARNING/INDICATOR OPERATING CONDITION

When all of the following conditions are satisfied.

- Ignition switch: LOCK position
- Push-button ignition switch operation is performed.
- Registered Intelligent Key is not detected inside the vehicle.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

- After 25 seconds are passed since the key ID verification information is displayed.
- When all door is locked with Intelligent Key or door request switch
- Lock the doors after all doors are closed
- When Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed.

INFORMATION DISPLAY (COMBINATION METER) : Key ID Warning

INFOID:000000010750526

DESIGN/PURPOSE

Information display warns the driver that Intelligent Key is not detected in vehicle.

Symbol	Message
 <p style="text-align: right; font-size: small;">JMKIB1398ZZ</p>	<p>Key ID Incorrect</p>

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

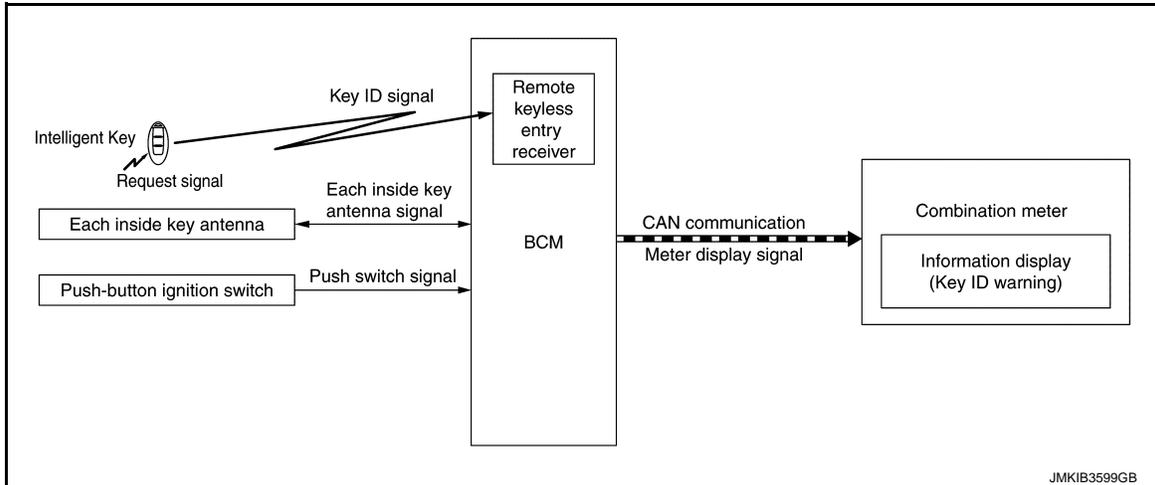
Refer to [MWI-47, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

SYSTEM DIAGRAM



SIGNAL PATH

- BCM activates inside key antenna and checks that Intelligent Key is in vehicle, when push-button ignition switch operation is performed while ignition switch position is LOCK.
- When BCM does not detect a registered Intelligent Key in vehicle, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, key ID warning displays.

WARNING/INDICATOR OPERATING CONDITION

When all of the following conditions are satisfied.

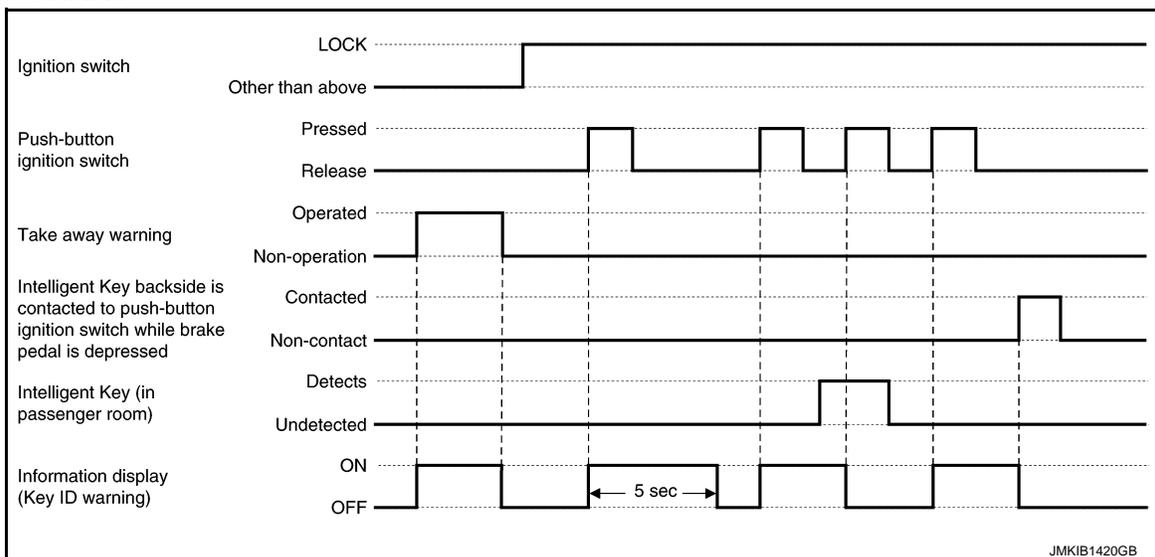
- Ignition switch is in LOCK position
- Push-button ignition switch operation is performed.
- A registered Intelligent Key is not detected inside the vehicle.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

- 5 seconds are passed since operation start.
- A registered Intelligent Key is detected in passenger room when push-button ignition switch is operated.
- Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed (when Intelligent Key battery is discharged).

TIMING CHART



INFORMATION DISPLAY (COMBINATION METER) : P Position Warning (Information Display)

INFOID:000000010750527

DESIGN/PURPOSE

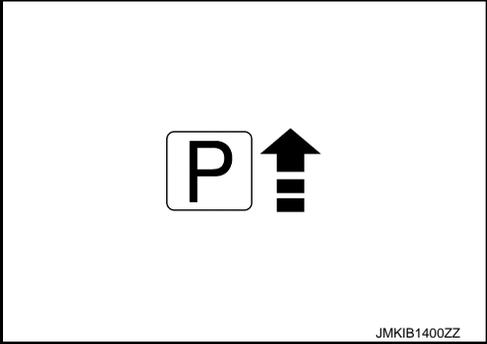
DLK-366

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Information display warns the driver of egression from the vehicle while shift is other than P position.

Symbol	Message
	Shift to Park

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

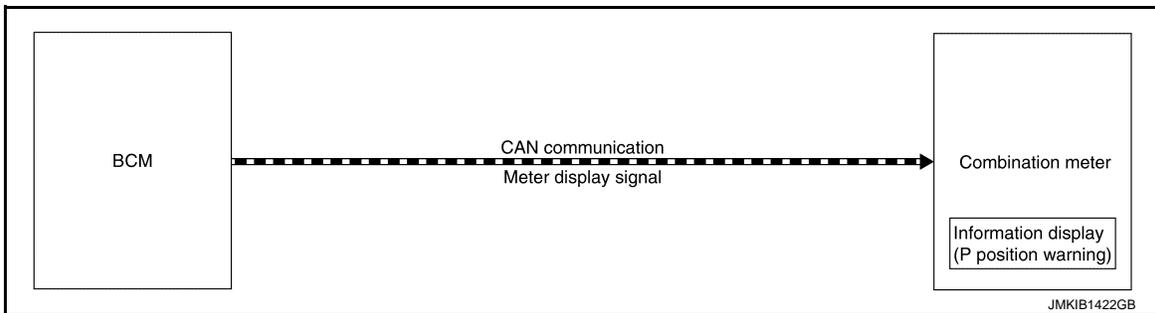
Refer to [MWI-47, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYNCHRONIZATION WITH WARNING CHIME

Synchronization is applied. [P position warning (buzzer)]

Refer to [WCS-15, "WARNING CHIME : P Position Warning \(Buzzer\)"](#).

SYSTEM DIAGRAM



SIGNAL PATH

- BCM transmits meter display signal to combination meter via CAN communication, when P position warning (buzzer) is operated.
- When combination meter receives meter display signal, P position warning displays.

WARNING/INDICATOR OPERATING CONDITION

P position warning (buzzer) is operated.

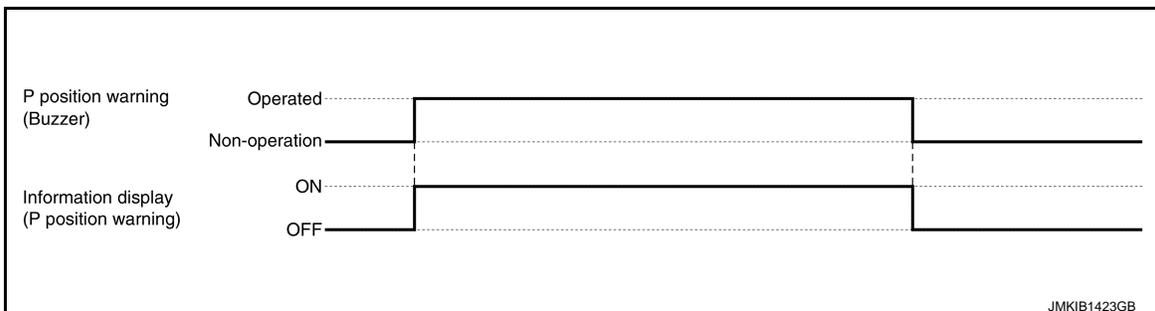
Refer to [WCS-15, "WARNING CHIME : P Position Warning \(Buzzer\)"](#).

WARNING/INDICATOR CANCEL CONDITION

P position warning (buzzer) is canceled.

Refer to [WCS-15, "WARNING CHIME : P Position Warning \(Buzzer\)"](#).

TIMING CHART



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

DLK

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

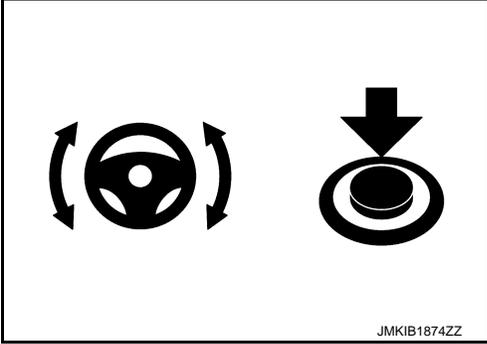
[TYPE 2]

INFORMATION DISPLAY (COMBINATION METER) : Steering Lock Information

INFOID:000000010750528

DESIGN/PURPOSE

When unlocking steering the lock, the system informs the driver that it cannot be unlocked unless the steering wheel is turned.

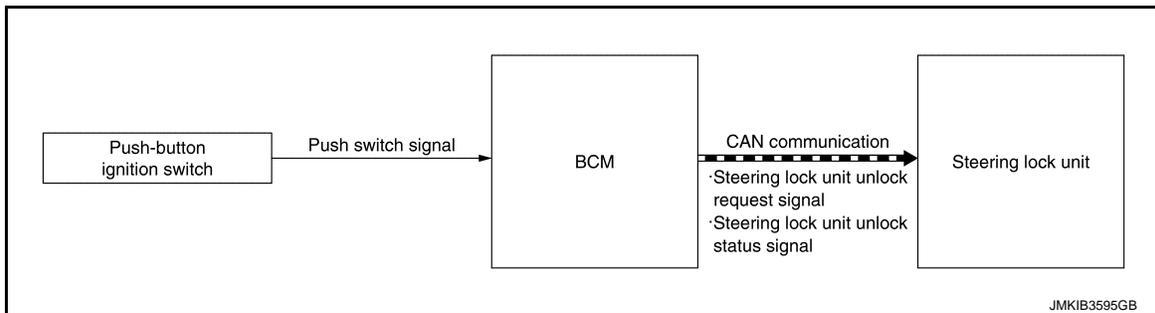
Symbol	Message
	-

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

Refer to [MWI-47, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYSTEM DIAGRAM



SIGNAL PATH

- BCM transmits the steering lock unit unlock request signal to the steering lock unit, and simultaneously the steering lock unit checks that the steering lock can be unlocked.
- If the LOCK status of the steering lock unit is detected by the steering lock unit even after BCM is transmitted to the steering unlock request signal, the meter display signal is sent to the combination meter via CAN communication.
- When combination meter receives meter display signal, steering lock information displays.

WARNING/INDICATOR OPERATING CONDITION

When the steering lock cannot be unlocked.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

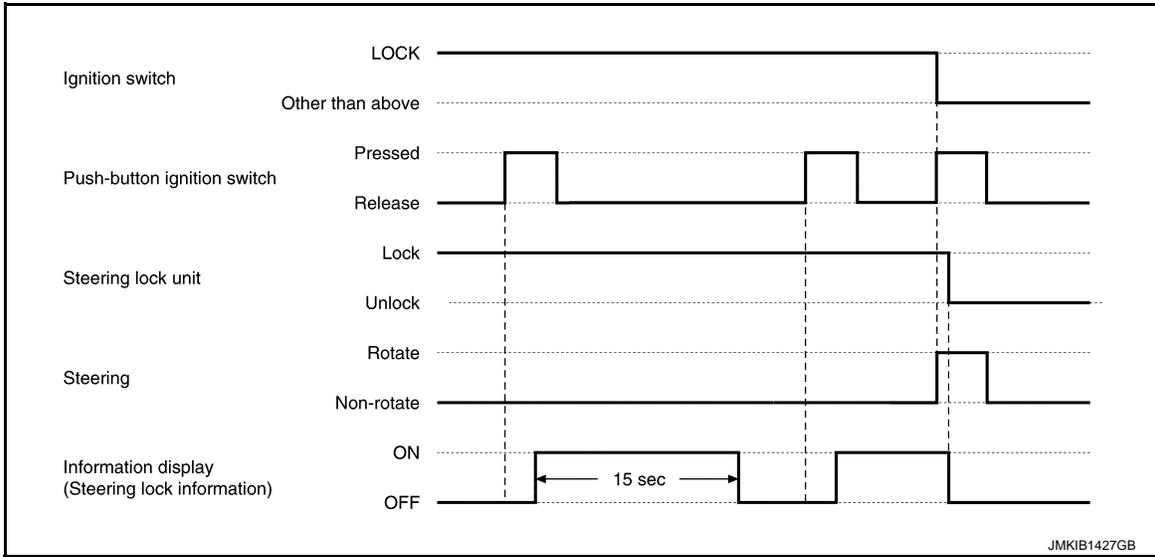
- When the steering lock is unlocked. (Press the push-button ignition switch while turning the steering wheel to the left and right gently.)
- After 15 seconds are passed since the steering lock information is displayed.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

TIMING CHART



INFORMATION DISPLAY (COMBINATION METER) : Take Away Warning (Information Display)

INFOID:0000000010750529

DESIGN/PURPOSE

Information display warns the driver that Intelligent Key is not detected in vehicle.

Symbol	Message
 <p>JMKIB1398ZZ</p>	No Key Detected

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

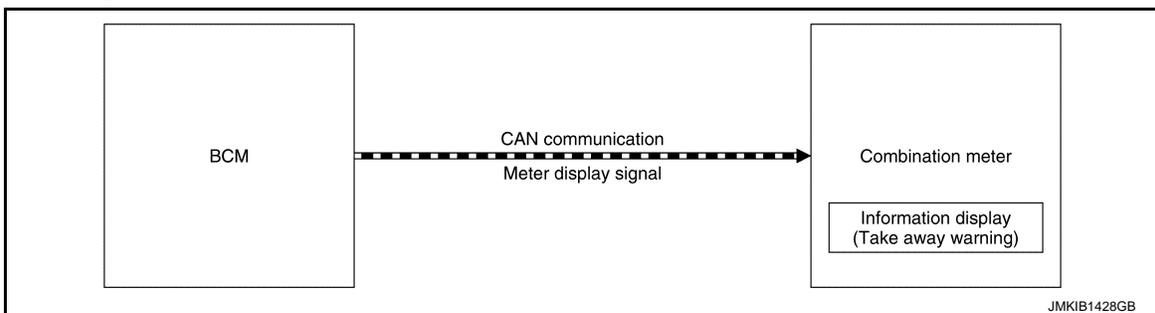
Refer to [MWI-47, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYNCHRONIZATION WITH WARNING CHIME

Take away warning

Refer to [WCS-20, "WARNING CHIME : Take Away Warning \(Buzzer\)"](#).

SYSTEM DIAGRAM



SIGNAL PATH

SYSTEM (INTELLIGENT KEY SYSTEM)

[TYPE 2]

< SYSTEM DESCRIPTION >

- BCM transmits meter display signal to combination meter via CAN communication, when take away warning (buzzer) is operated.
- When combination meter receives meter display signal, take away warning displays.

WARNING/INDICATOR OPERATING CONDITION

Take away warning (buzzer) operates.

Refer to [WCS-20. "WARNING CHIME : Take Away Warning \(Buzzer\)"](#).

WARNING/INDICATOR CANCEL CONDITION

Take away warning (buzzer) is canceled.

Refer to [WCS-20. "WARNING CHIME : Take Away Warning \(Buzzer\)"](#)

TIMING CHART



WARNING/INDICATOR/CHIME LIST

WARNING/INDICATOR/CHIME LIST : Warning Lamp/Indicator (Information Display)

INFOID:000000010717452

Item	Reference
Door open warning	Refer to DLK-359. "INFORMATION DISPLAY (COMBINATION METER) : Door Open Warning"
Engine start information	Refer to DLK-360. "INFORMATION DISPLAY (COMBINATION METER) : Engine Start Information"
Intelligent Key low battery warning	Refer to DLK-362. "INFORMATION DISPLAY (COMBINATION METER) : Intelligent Key Low Battery Warning"
Intelligent Key system malfunction	Refer to DLK-363. "INFORMATION DISPLAY (COMBINATION METER) : Intelligent Key System Malfunction"
Key ID verification information	Refer to DLK-364. "INFORMATION DISPLAY (COMBINATION METER) : Key ID Verification Information"
Key ID warning	Refer to DLK-365. "INFORMATION DISPLAY (COMBINATION METER) : Key ID Warning"
P position warning	Refer to DLK-366. "INFORMATION DISPLAY (COMBINATION METER) : P Position Warning (Information Display)"
Steering lock information	Refer to DLK-368. "INFORMATION DISPLAY (COMBINATION METER) : Steering Lock Information"
Take away warning	Refer to DLK-369. "INFORMATION DISPLAY (COMBINATION METER) : Take Away Warning (Information Display)"

WARNING/INDICATOR/CHIME LIST : Warning Chime

INFOID:000000010717453

Item	Reference
Door lock operation warning	Refer to WCS-10. "WARNING CHIME : Door Lock Operation Warning" .
OFF position warning	Refer to WCS-13. "WARNING CHIME : OFF Position Warning" .
P position warning (buzzer)	Refer to WCS-15. "WARNING CHIME : P Position Warning (Buzzer)" .
Take away warning (buzzer)	Refer to WCS-20. "WARNING CHIME : Take Away Warning (Buzzer)" .

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

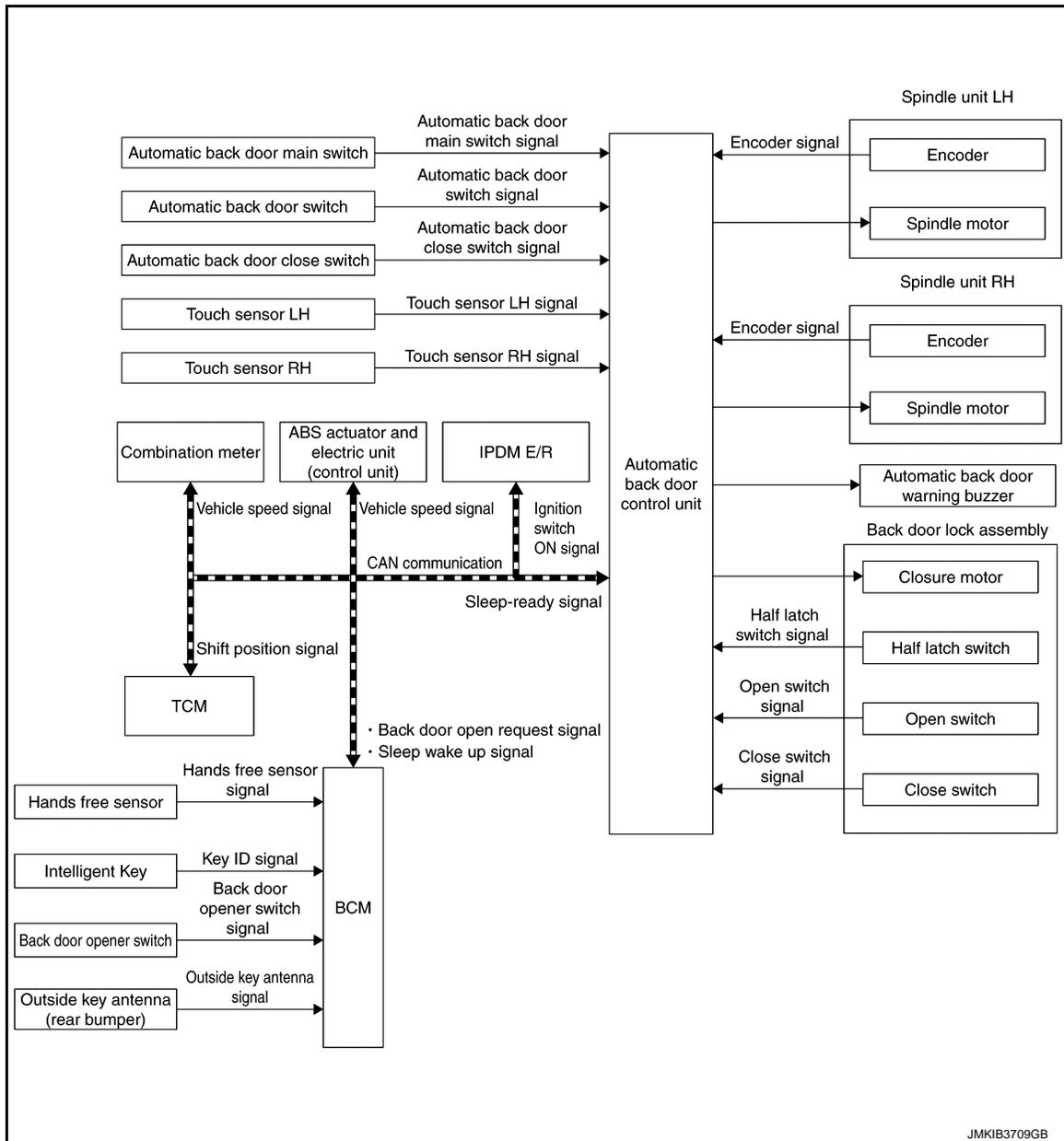
[TYPE 2]

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

System Description

INFOID:000000010717456

SYSTEM DIAGRAM



The automatic back door system performs the auto open/close operation of the back door by operating the automatic back door switch, the automatic back door close switch, the back door opener switch, and Intelligent Key.

Automatic back door system controls operation function of the following items.

- Automatic open/close temporary stop function
- Back door open position setting function
- Hands free function (with hands free sensor models)
- Automatic back door open/close function
- Warning function
- Back door auto closure function
- Anti-pinch function

AUTOMATIC OPEN/CLOSE TEMPORARY STOP FUNCTION

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Automatic open/close temporary stop function temporarily stops the open/close operation by operating back door opener switch during auto open/close operation or by turning automatic back door main switch OFF.

Back Door Opener Switch Operation

- Automatic open/close operation stops when back door opener switch is operated during auto open/close operation.
- Back door performs auto open operation in an open direction when back door opener switch is operated again during automatic open/close temporary stop function operation.
- Back door performs auto close operation in a close direction when automatic back door close switch is operated during automatic open/close temporary stop function operation.

Automatic Back Door Main Switch Operation

- While automatic back door main switch is ON, automatic open/close operation stops when automatic back door main switch is turned OFF during automatic open/close operation.
- While automatic back door main switch is OFF, automatic open/close operation stops when automatic back door main switch is turned ON then turned OFF during automatic open/close operation.
- Back door performs automatic open operation in an open direction when back door opener switch is operated again during auto open/close temporary stop function operation.
- Back door performs automatic close operation in a close direction when automatic back door close switch is operated during automatic open/close temporary stop function operation.

BACK DOOR OPEN POSITION SETTING FUNCTION

Back door fully open position setting function is a function that enables users to set the full opening stop position of automatic open operation when back door may contact an obstacle if fully opened by the automatic open operation.

CAUTION:

- **It is not possible to set the position farther than the initial setting fully open position in the open direction.**
- **If a vehicle is parked on a steep slope after setting the fully open position of back door to half open or less, the door may open to near the half open position instead of stopping at the set position.**
- **When more than one user uses the vehicle, the back door fully open position setting function may be changed. Be careful when operating automatic open operation for the first time.**

Setting Procedure

By performing the following operations, stop position of the back door open position setting function can be set.

1. Set the shift position to P range.
2. Fully close the back door.
3. After turning OFF the automatic back door main switch, release the latch by back door opener switch operation.
4. Manually move the back door to the desired stop position.
5. While maintaining the back door position, press and hold the automatic back door close switch for 3 seconds or more. When the setting is successfully completed, automatic back door buzzer sounds (pattern D).

Reset Procedure

By performing the following operation, the setting of the back door fully open position setting function can be canceled.

1. Set the shift position to P range.
2. Open the back door to the fully open position.
3. Manually move the back door to the upper limit position in the opening direction.
4. Press and hold the automatic back door close switch for 3 seconds or more. When the setting is successfully completed, automatic back door buzzer sounds (pattern D).

HANDS FREE FUNCTION (WITH HANDS FREE SENSOR MODELS)

Hands free function is a function that automatically opens the back door just by holding a hand or baggage over the hands free sensor.

Automatic Back Door Main Switch Setting

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Setting position	Automatic back door open/close function	Hands free function
 <p>JMKIB2820ZZ</p>	ON	ON
 <p>JMKIB2821ZZ</p>	ON	OFF
OFF	OFF	OFF

Operation Condition

When all of the following conditions are satisfied.

- Vehicle speed: 0 km/h
- Shift position: P position
- Automatic back door main switch: ON position (hands free function ON)
- Back door: Full closed
- Intelligent Key: Within outside key antenna (rear bumper) detection area

Operation Description

- When the back door is fully closed and the operating conditions are satisfied, automatic back door control unit supplies power to hands free sensor.
 - When a hand or baggage is held over the hands free sensor is shaded with a hand or baggage for approximately 1 second while carrying the Intelligent Key, the hand free sensor transmits hands free sensor signal to BCM.
 - BCM receives the hands free sensor signal, and then activates the outside key antenna (rear bumper), and checks that the Intelligent Key is near the rear bumper.
 - When Intelligent Key is within the detection area of outside key antenna (rear bumper), the Intelligent Key receives the request signal and transmits the key ID signal to BCM via remote keyless entry receiver (integrated in BCM).
 - BCM receives the key ID signal and verifies the received key ID with the registered key ID.
 - When the key IDs match, BCM transmits back door open request signal to the automatic back door control unit. All doors are unlocked simultaneously.
 - Once automatic back door operation request signal is received from BCM, the automatic back door control unit activates the automatic open function and automatically opens the back door to the fully open position*.
- *: Fully open position can be changed with the back door fully open position setting function.

NOTE:

- Hands free function does not operate when, an object that absorbs light (leather glove, etc.) is held over the hands free sensor for approximately 1 second, while Intelligent Key is carried.
- When the hands free sensor is exposed to the light of headlamp and/or the sun, or when an accessory, such as a frame, is attached to the license plate, the hands free function may not operate.

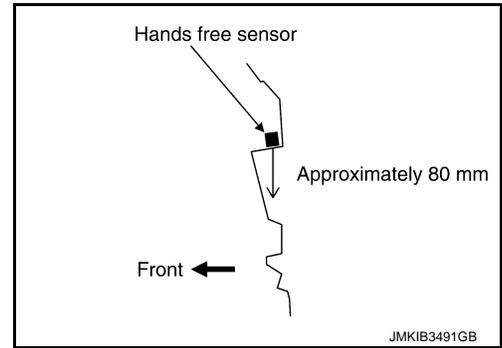
Hands Free Sensor Detection Area

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

[TYPE 2]

< SYSTEM DESCRIPTION >

The hands free sensor detection area of hands free function is in the range of approximately 80 mm surrounding the hands free sensor.



AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

- In the case of the back door fully closed, operate the automatic back door switch, Intelligent Key or back door opener switch with the back door unlock. The back door closure motor releases the latch, then the spindle motor opens the back door to the fully open position. The closure motor reverses to the neutral position simultaneously.
- In the case of the back door fully open, operate the automatic back door switch, Intelligent Key or automatic back door close switch. The spindle motor closes the back door to the half-latch position, then the back door closure motor to the full latch position. Then, the closure motor reverses to the neutral position.

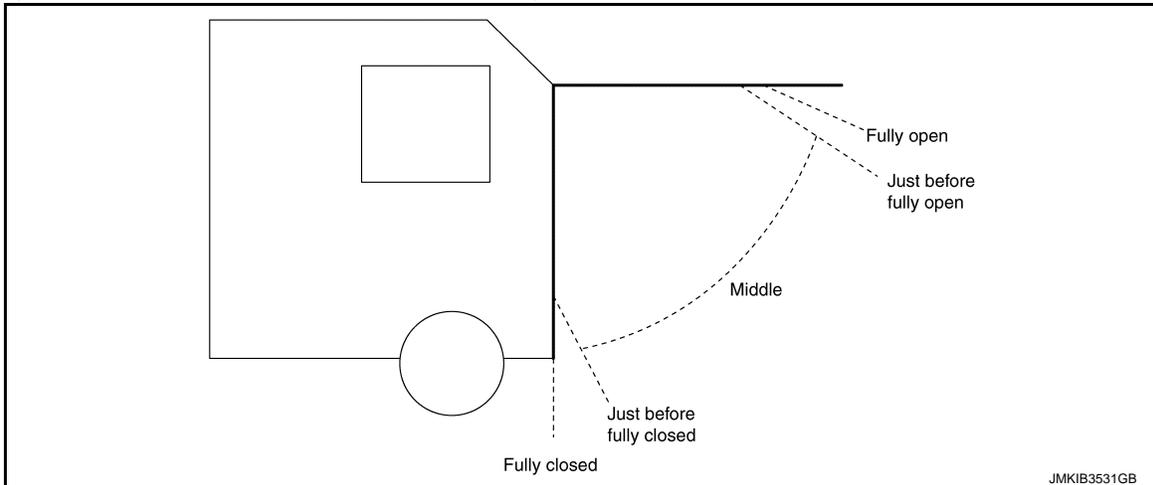
Operation Condition

When all of the following conditions are satisfied.

- Shift position: P position (CVT models)
- Parking brake: ON (M/T models)
- Vehicle speed: 0 km/h
- Power supply (automatic power back door control unit): Approx. 11 V or more

Automatic Open/close Operation When Each Switch is Operated

The automatic open/close operation when each switch is operated differs according to the stop position or operating status of back door. Refer to the following.



Automatic back door switch

Condition				Back door operation
Back door position	Automatic back door main switch	Back door condition	Automatic back door switch	
Full open	ON	Stop	Long press (1 sec)	Perform the auto close function
Fully open to just before fully open	ON	Stop	Long press (1 sec)	Perform the auto close function
	–	Auto open function operating	Press	Perform the auto close function (reverse operation)
	–	Auto close function operating	Press	Operation is continued

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Condition				Back door operation
Back door position	Automatic back door main switch	Back door condition	Automatic back door switch	
Middle	-	Stop	Press	Non-operation (manual movement only)
	-	Auto open function operating	Press	Perform the auto close function (reverse operation)
	-	Auto close function operating	Press	Perform the auto open function (reverse operation)
Just before fully closed to fully closed	-	Stop	Press	Non-operation (manual movement only)
	-	Auto open function operating	Press	Operation is continued
	-	Auto close function operating	Press	Perform the auto open function (reverse operation)
Full closed	ON	Stop	Long press (1 sec)	Perform the auto open function

Intelligent Key

Condition					Back door operation
Back door position	Ignition switch	Automatic back door main switch	Back door condition	Intelligent Key	
Full open	OFF	-	Stop	Long press (1 sec)	Perform the auto close function
Fully open to just before fully open	OFF	-	Stop	Long press (1 sec)	Perform the auto close function
	OFF	-	Auto open function operating	Long press (1 sec)	Perform the auto close function (reverse operation)
	OFF	-	Auto close function operating	Long press (1 sec)	Operation is continued
Middle	OFF	-	Stop	Long press (1 sec)	Non-operation (manual movement only)
	OFF	-	Auto open function operating	Long press (1 sec)	Perform the auto close function (reverse operation)
	OFF	-	Auto close function operating	Long press (1 sec)	Perform the auto open function (reverse operation)
Just before fully closed to fully closed	OFF	-	Stop	Long press (1 sec)	Non-operation (manual movement only)
	OFF	-	Auto open function operating	Long press (1 sec)	Operation is continued
	OFF	-	Auto close function operating	Long press (1 sec)	Perform the auto open function (reverse operation)
Full closed	OFF	-	Stop	Long press (1 sec)	Perform the auto open function

A
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DLK

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Automatic back door close switch

Condition				Back door operation
Back door position	Automatic back door main switch	Back door condition	Automatic back door close switch	
Full open	ON	Stop	Press	Perform the auto close function
Fully open to just before fully open	ON	Stop	Press	Perform the auto close function
	-	Auto open function operating	Press	Perform the auto close function (reverse operation)
	-	Auto close function operating	Press	Operation is continued
Middle	ON	Stop	Press	Perform the auto close function
	-	Auto open function operating	Press	Perform the auto close function (reverse operation)
	-	Auto close function operating	Press	Perform the auto open function (reverse operation)
Just before fully closed to fully closed	-	Stop	Press	Non-operation (manual movement only)
	-	Auto open function operating	Press	Operation is continued
	-	Auto close function operating	Press	Perform the auto open function (reverse operation)

Back door opener switch

Condition				Back door operation
Back door position	Automatic back door main switch	Back door condition	Back door opener switch	
Full open	-	Stop	Press	Non-operation
Fully open to just before fully open	-	Stop	Press	Non-operation
	-	Auto open function operating	Press	Operation stop (automatic open/close temporary stop function)
	-	Auto close function operating	Press	Operation stop (automatic open/close temporary stop function)
Middle	ON	Stop	Press	Perform the auto open function
	-	Auto open function operating	Press	Operation stop (automatic open/close temporary stop function)
	-	Auto close function operating	Press	Operation stop (automatic open/close temporary stop function)
Just before fully closed to fully closed	ON	Stop	Press	Perform the auto open function
	-	Auto open function operating	Press	Operation stop (automatic open/close temporary stop function)
	-	Auto close function operating	Press	Operation stop (automatic open/close temporary stop function)

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

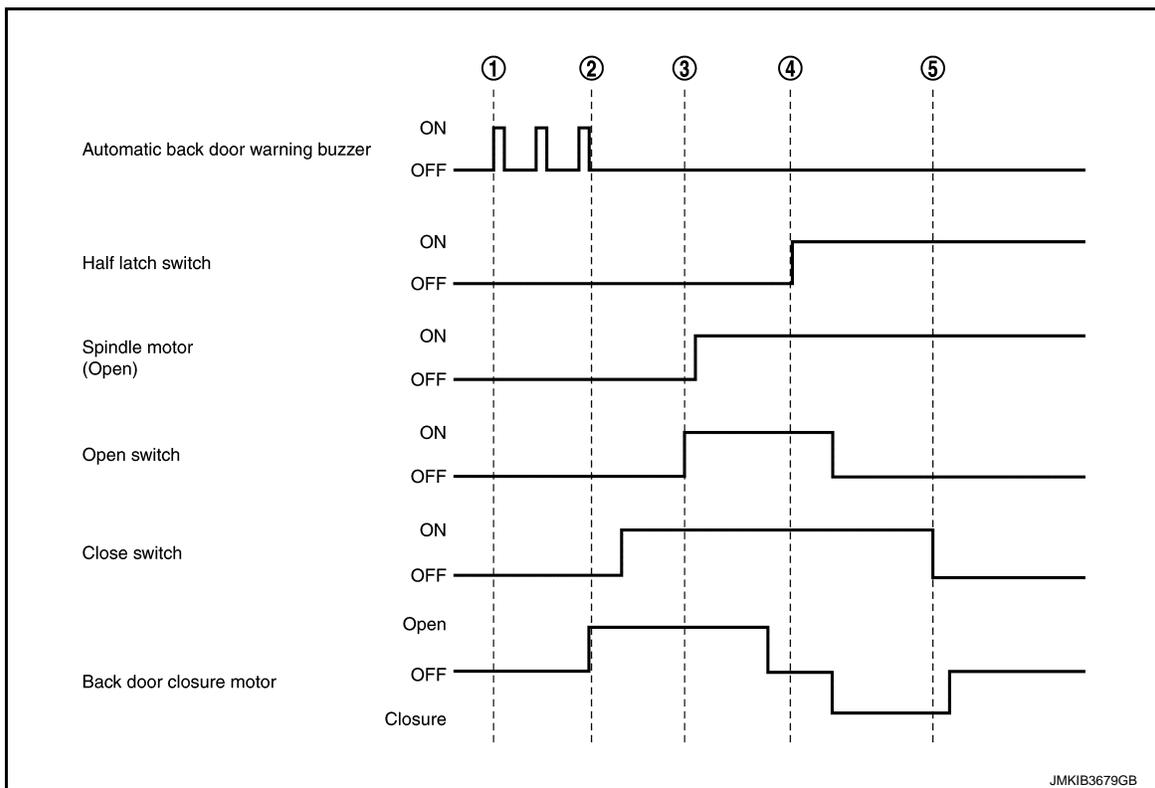
[TYPE 2]

Condition				Back door operation
Back door position	Automatic back door main switch	Back door condition	Back door opener switch	
Full closed	ON	Stop	Press	Perform the auto open function
	OFF	Stop	Press	Back door open

Hands free function (with hands free sensor models)

Condition				Back door operation
Back door position	Automatic back door main switch	Back door condition	Hands free sensor	
Full closed	ON (hands free function: ON)	Stop	hand or baggage is held over the hands-free sensor is shaded with a hand or baggage for approximately 1 second while carrying the Intelligent Key	Perform the auto open function

Timing Chart (Full Closed to Fully Open Operation)



Timing	Operation
①	Buzzer operate after operation permission conditions are satisfied.
②	After buzzer operation (A pattern) ends, back door closure motor starts the open operation.
③	Open SW turns ON, and back door latch release operation completes.
④	Half latch SW turns ON, and then back door closure motor performs reverse operation and returns to the neutral position.
⑤	When close SW turns OFF, back door closure motor reverse operation stops, and then completes returning to the neutral position.

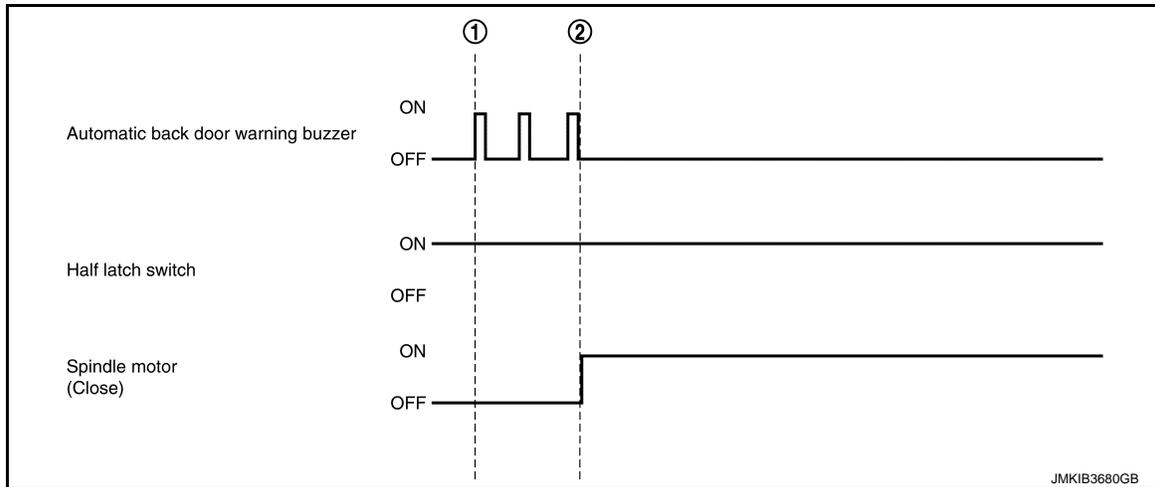
Timing Chart (Fully Open to Fully Closed Operation)

DLK

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]



Timing	Operation
①	Buzzer operate after operation permission conditions are satisfied.
②	After buzzer operation (A pattern) ends, spindle motor starts the close operation.

CONTROL IF NOT WITHIN THE OPERATION CONDITIONS DURING THE OPERATION

If the back door is not within the operation conditions during the operation, the automatic back door control unit performs the control as follows.

Item (Condition)	Back door operation status	
Automatic back door main switch: ON→OFF	Operation stops	
Operation condition release during the operation start announcement	Automatic back door function is not operating	
CVT models) Shift position: P position→other than P position	Operation continues (once back door fully closed state is detected, automatic operation does not become available again until the shift position is shifted to P range)	
M/T models) Parking brake: ON→OFF	Operation continues (once back door fully closed state is detected, automatic operation does not become available again until the parking brake is set to ON)	
Vehicle speed (0 km/h → More than 1 km/h)	Auto open function operating	Operation stop [Back door fully closed or buzzer sounds until the vehicle stops (pattern C)]
	Auto close function operating	The operation is continued [buzzer sounds (pattern C) until back door fully closed]
Operation time (More than approx. 180 sec.)	Operation stops	
Malfunction detected (Power supply circuit, half latch switch, and back door condition)	Operation stops	
Touch sensor circuit (Normal → Open)	Open operation	Operation continues (operation stops when pinching is detected afterwards.)
	Close operation	Operation stops
	Closure (close) operation	Closure closing operation, or warning buzzer operates (B pattern)
	Closure [open (return the latch to the neutral position)]	Operation continues

WARNING FUNCTION

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

The warning function is as follows and gives the user warning information using automatic back door warning buzzer.

Automatic back door warning buzzer

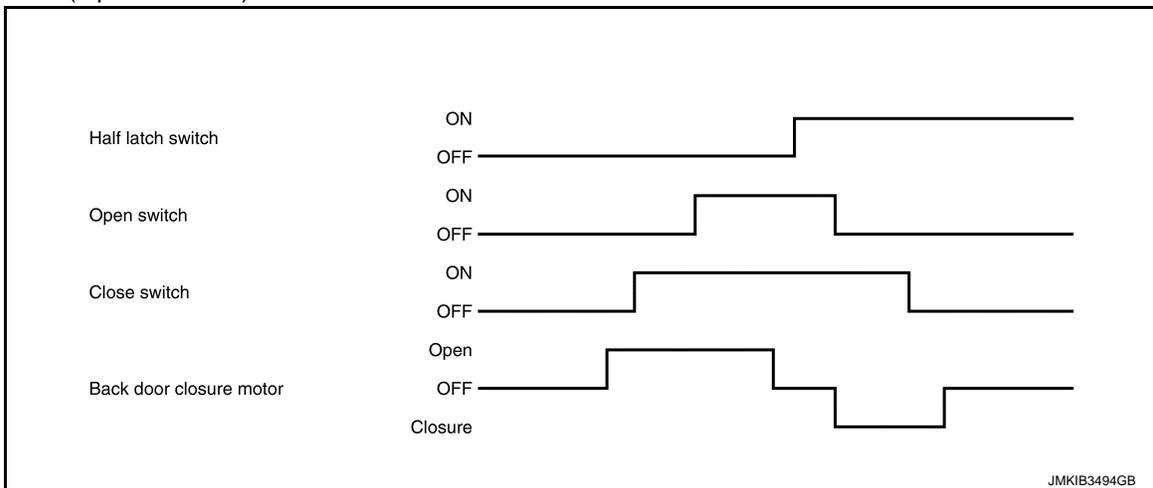
	Pattern	Description	Time
A		<ul style="list-style-type: none"> • Operation start announcement • Anti-pinch operation start announcement 	0.75 sec
B	Pi---	During the closure operation, when touch sensor detects any trapped foreign material, the back door stops halfway	2.0 sec
C	Pi-----●●●●●●	The conditions are not satisfied in the fully open position or during the operation, and then the operation continues	Back door fully closed or vehicle is stopped
D		<ul style="list-style-type: none"> • Calibration of automatic back door position information is complete • Back door open position setting procedure is complete 	2.5 sec

BACK DOOR AUTO CLOSURE FUNCTION

Open Function

When back door opener switch is pressed and automatic back door main switch in the OFF position, BCM transmits the back door open request signal to automatic back door control unit via CAN communication, and automatic back door control unit opens back door lock assembly.

Timing Chart (Open function)



Closure Function

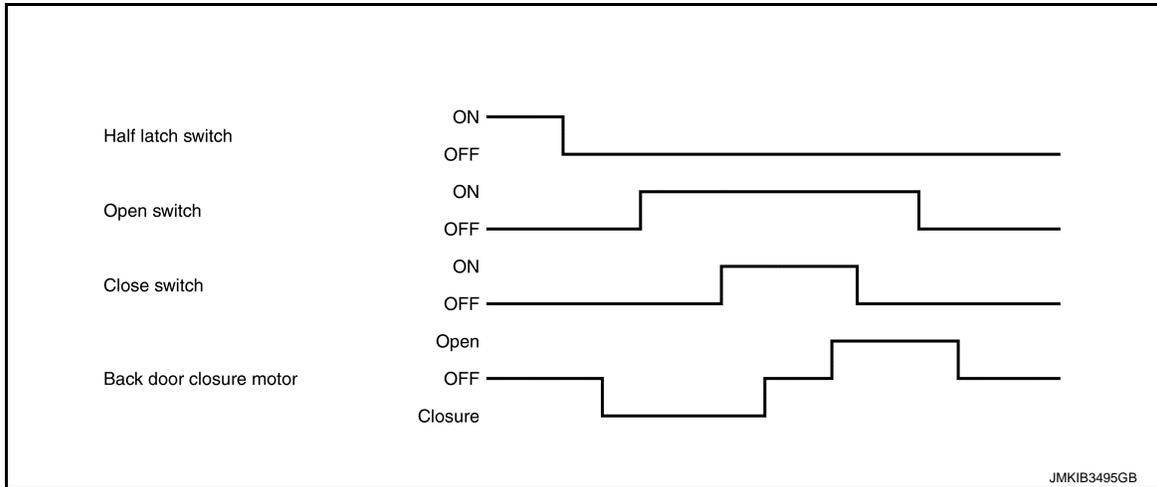
When the back door is closed to the half-latch position, the motor drives to rotate the latch lever and pulls it in from half latched to fully latched and automatically closes the door. Then, the closure motor reverses to the neutral position.

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Timing Chart (Closure Function)



ANTI-PINCH FUNCTION

During auto open operation, if an object is detected by encoder pulse in the door's path, a warning chime sounds and the back door operates in the reverse direction to prevent pinching.

During auto close operation, if an object is detected by the touch sensors and encoder pulse in the door's path, a warning chime sounds and the back door operates in the open direction until it is fully open.

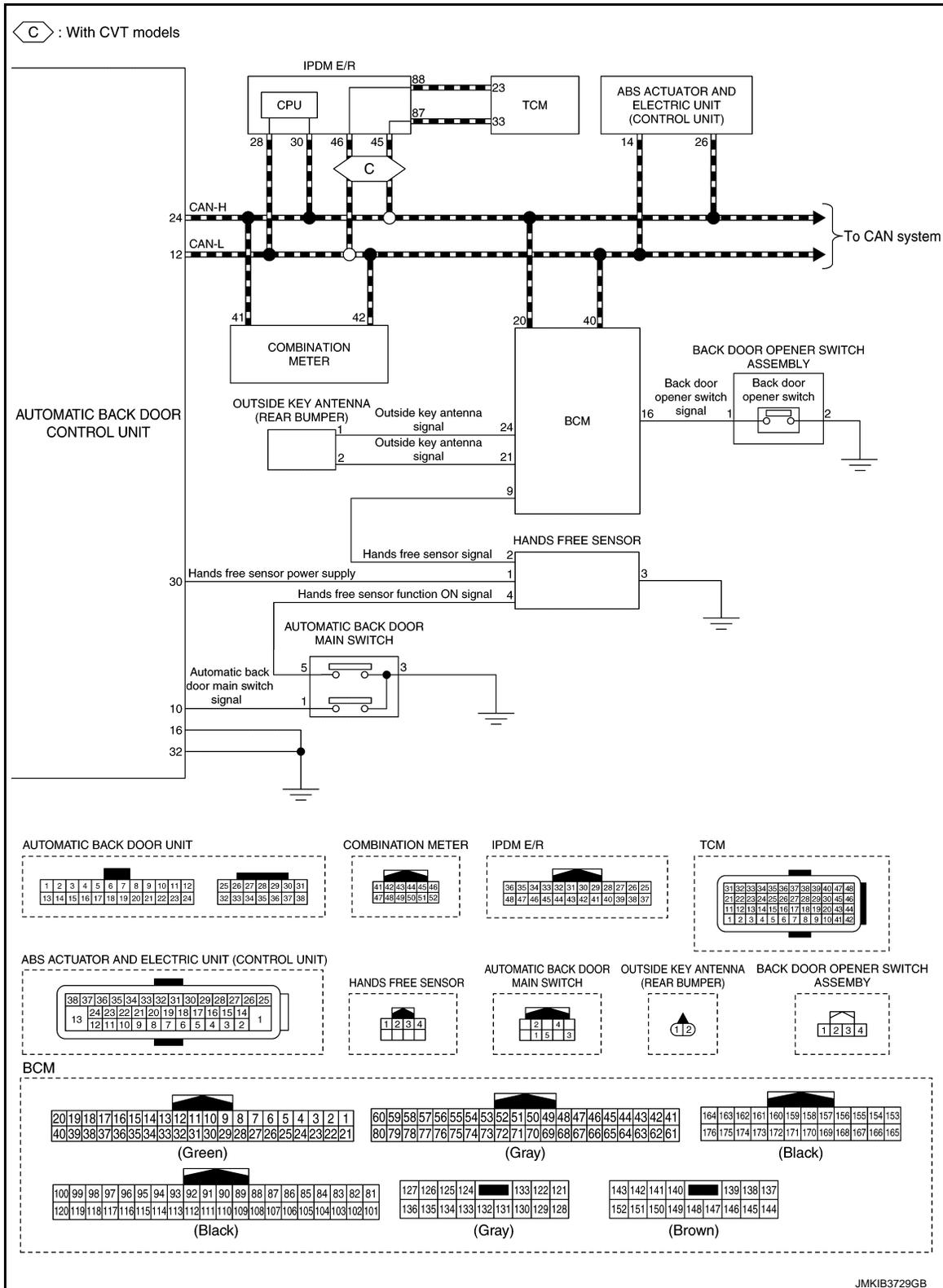
Operation Condition

Detection method		Encoder pulse	Touch sensor
Applicable operation		Open/close operation	Close operation
Operation when any trapped foreign material is detected	Stop the vehicle	Buzzer sounds (pattern A) and reverse operation	<ul style="list-style-type: none"> Buzzer sounds (pattern A) and the back door stops in the fully-open position after reverse operation During closure (close) operation (at main switch OFF): Closure [open (neutral position return)] operation
	Running the vehicle	No reverse operation (buzzer sounds, pattern C)	<ul style="list-style-type: none"> The back door reverses a certain amount, and then it reverses automatically to perform the auto close operation During closure (close) operation (at main switch ON): Closure (open) operation
Non-reverse area		<ul style="list-style-type: none"> Just after starting the motor operation Full range of closure operation Driving 	<ul style="list-style-type: none"> Back door open operation Closure [open (return the latch to the neutral position)]
Switch operation during reverse operation		Receive	
Number of allowable reverse operations		Perform the automatic open/close temporary stop function after 2 reverse operations regardless of the operation direction	

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[TYPE 2]



DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 2]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010869005

APPLICATION ITEM

CONSULT 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.
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"> Read and save the vehicle specification. 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
Door lock	DOOR LOCK	×	×	
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Exterior lamp	HEAD LAMP	×	×	×
Interior room lamp control	INT LAMP		×	
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	
—	AIR CONDITONER*		×	×
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	
Interior room lamp battery saver	BATTERY SAVER		×	
Back door open	TRUNK		×	
Vehicle security	THEFT ALM	×	×	
RAP	RETAINED PWR		×	
Remote keyless entry system	MULTI REMOTE ENT	×	×	
Signal buffer system	SIGNAL BUFFER		×	×

NOTE:

*: This item is displayed, but not used.

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 2]

CONSULT screen item	Indication/Unit	Description
BATTERY VOLTAGE	V	Battery voltage of the moment a particular DTC is detected.
VEHICLE SPEED	km/h	Vehicle speed of the moment a particular DTC is detected.
EXTERNAL TEMP	°C	External temperature of the moment a particular DTC is detected
VEHICLE COND	—	NOTE: This item is displayed, but cannot be use this item.
DOOR LOCK STATUS	—	NOTE: This item is displayed, but cannot be use this item.
POWER SUPPLY COUNTER	min	Displays the cumulative time from the time that the battery terminal is connected.

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK) (With Intelligent Key System, Without Super Lock)

INFOID:000000010717459

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

WORK SUPPORT

Monitor item	Description
DOOR LOCK-UNLOCK SET	Anti-hijack function mode can be changed to operation with this mode <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
AUTO UNLOCK TYPE	NOTE: This item is displayed, but cannot be used
SIGNATURE LIGHT SETTING	Signature light function can be changed to operation with this mode <ul style="list-style-type: none"> • On: Operate • Off: Non-operation

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Contents
REQ SW-DR	Indicated [On/Off] condition of door request switch (driver side)
REQ SW-AS	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW-BD/TR	Indicated [On/Off] condition of back door request switch
DOOR SW-DR	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK	Indicated [On/Off] condition of back door switch
CDL LOCK SW	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEY CYL LK-SW	NOTE: This item is displayed, but cannot be monitored
KEY CYL UN-SW	NOTE: This item is displayed, but cannot be monitored

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Monitor Item	Contents
SHOCK SENSOR	NOTE: This item is displayed, but cannot be monitored
KEY SW	NOTE: This item is displayed, but cannot be monitored

ACTIVE TEST

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation <ul style="list-style-type: none"> The all door lock actuators are locked when "ALL LOCK" on CONSULT screen is touched The all door lock actuators are unlocked when "ALL UNLK" on CONSULT screen is touched
SUPER LOCK	NOTE: This item is displayed, but cannot be used
DOOR LOCK IND	NOTE: This item is displayed, but cannot be used

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY) (Without Super Lock)

INFOID:000000010717460

WORK SUPPORT

Monitor item	Description
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch mode can be changed to operation in this mode <ul style="list-style-type: none"> On: Operate Off: Non-operation
ENGINE START BY I-KEY	Engine start function mode can be changed to operation with this mode <ul style="list-style-type: none"> On: Operate Off: Non-operation
TRUNK/GLASS HATCH OPEN	NOTE: This item is displayed, but cannot be monitored
AUTO LOCK SET	Auto door lock operation time can be changed in this mode <ul style="list-style-type: none"> MODE 1: OFF MODE 2: 30 sec MODE 3: 1 minute MODE 4: 2 minutes MODE 5: 3 minutes MODE 6: 4 minutes MODE 7: 5 minutes
SHORT CRANKING OUTPUT	NOTE: This item is displayed, but cannot be monitored
IGN/ACC BATTERY SAVER	Ignition battery saver system mode can be changed to operation with this mode <ul style="list-style-type: none"> On: Operate Off: Non-operation
ANSWER BACK	NOTE: This item is displayed, but cannot be used
ANSWER BACK I-KEY LOCK UNLOCK	NOTE: This item is displayed, but cannot be used
ANSWER BACK KEYLESS LOCK UNLOCK	NOTE: This item is displayed, but cannot be used

SELF-DIAG RESULT

Refer to [BCS-78, "DTC Index"](#).

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 2]

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition
REQ SW -DR	Indicates [On/Off] condition of door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of door request switch (passenger side)
REQ SW -BD/TR	Indicates [On/Off] condition of back door request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
CLUTCH SW*1	Indicates [On/Off] condition of clutch interlock switch
BRAKE SW 1	Indicates [On/Off]*2 condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
DETE/CANCL SW	Indicates [On/Off] condition of P position
START CLUTCH SW	Indicates [On/Off] condition of clutch pedal position switch
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
NEUTRAL SW - IPDM	Indicates [On/Off] condition of reverse/neutral position switch
SFT PN -IPDM	Indicates [On/Off] condition of P or N position
STARTER RELAY - IPDM	Indicates [On/Off] condition of starter relay
ENGINE STATE	Indicates [Stop/Stall/Crank/Run] condition of engine states
ST/INHIRELAY-IPDM	Display the starter relay/starter control relay status signal from IPDM E/R via CAN communication
REVERSE SIGNAL - IPDM	Indicates [On/Off] condition of R position
CRANKING PERMIT - ECM	Display the engine cranking permit signal from ECM via CAN communication
IS STATUS - ECM	Indicates [On/Off] condition of stop/start system
STARTER CUT RELAY - ECM	Indicates [On/Off] condition of starter control relay signal from ECM via CAN communication
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h]
VEH SPEED 2	Display the vehicle speed signal received from ABS actuator and electric unit (control unit) by numerical value [Km/h]
IGN REQ - IPDM	Display the ignition request signal from IPDM E/R via CAN communication
STARTER REQ - IPDM	Display the starter request signal from IPDM E/R via CAN communication
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	NOTE: This item is displayed, but cannot be monitored
ID OK FLAG	Indicates [Set/Reset] condition of Intelligent Key ID
PRMT ENG STRT	Indicates [Set/Reset] condition of engine start possibility
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored
I-KEY OK FLAG	Indicates [KEY On/NOT On] condition of Intelligent Key ID and Intelligent Key is detected inside vehicle
PRBT ENG STRT	Indicates whether or not the engine is in start prohibited status
ID AUTHENT CANCEL TIMER	Indicates whether or not it is in engine start possible status when Intelligent Key verification is unnecessary
ACC BATTERY SAVER	Indicates [On/Off] whether or not ignition battery saver is in operation

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Monitor Item	Condition
CRNK PRBT TMR	Indicates [On/Off] whether or not in cranking prohibited status due to starter motor protection function operation
AUT CRANK TMR	Indicates [On/Off] whether or not in AUTO CRANKING MODE status
CRNK PRBT TME	Indicates the time for changing from cranking prohibited status to cranking possible status
AUT CRANK TMR	Indicates the time that AUTO CRANKING MODE operates
CRANKING TME	Indicates the cranking operation time
SHORT CRANK	NOTE: This item is displayed, but not used
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing
RKE OPE COUN2	NOTE: This item is displayed, but cannot be monitored
S/L IGN OFF POSITION	Indicates [On/Off] condition of Ignition OFF signal
S/L SENSOR CIRCUIT 1	Indicates [Gnd/On] condition of steering lock unit sensor circuit
S/L SENSOR CIRCUIT 2	Indicates [On/Off] condition of steering lock unit sensor circuit
S/L POWER OUTPUT	Indicates [On/Off] condition of steering lock unit power supply
S/L POWER CHECK	Indicates [On/Off] condition of steering lock unit power supply
ANTICIPATED POWER	Indicates [On/Off] condition of anticipated power supply
S/L LOCK REQ	Indicates [On/Off] condition of steering lock unit lock request signal
S/L - BCM (CAN)	Indicates [On/Off] condition of CAN communication
S/L POWER ERROR	Indicates [On/Off] condition of steering lock unit power supply error
VEH SPEED ERROR (S/L)	Indicates [On/Off] condition of vehicle speed signal
VEH SPEED NORMAL (S/L)	Indicates [On/Off] condition of vehicle speed signal
ENGINE RUNNING (S/L)	Indicates [On/Off] condition of engine running
S/L ID DISCORD	Indicates [Correct/Incorrect] condition of ID verification
S/L ANTI-SCAN MODE	Indicates [On/Off] condition of antiscan mode
S/L LOCK NOT PERMIT	Indicates [Inhibition/No inhbt] condition of inhibit steering lock
S/L UNLOCK (CAN)	Indicates [Finished/Unfinished] condition of steering lock unit unlock
S/L ID STATUS (CAN)	Indicates [Coded/Blank] condition of registration ID
S/L RESET STATUS (CAN)	Indicates [Exit/No exit] condition of steering lock unit reset signal
S/L LO-LEVEL MALFUNC (CAN)	Indicates [Malf/No malf] condition of lo-level malfunction
S/L LOCK POSITION (CAN)	Indicates [Armed/Malf/Unlocked/Undefined] condition of lock/unlock position signal
S/L ACT MALFUNCTION (CAN)	Indicates [Malf/No malf] condition of steering lock unit malfunction
S/L HI-LEVEL MALFUNC (CAN)	Indicates [Malf/No malf] condition of hi-level malfunction
S/L OPERATION PRHBT (SPD)	Indicates [On/Off] condition of vehicle speed signal
S/L OPERATION PRHBT (PWR)	Indicates [Allowed/Forbid] condition of safety line inhibition
S/L SENSOR POWER (CAN)	Indicates [On/Off] condition of sensor test power supply
S/L SEN TEST PERMIT (CAN)	Indicates [Forbid/Authorize] condition of sensor test
S/L STAT NOT DETECT (CAN)	Indicates [Ok/Unfind] condition of steering lock undefined position signal
S/L LOCKING FINISHED (CAN)	Indicates [Unfinshd/Finished] condition of steering lock unit lock status signal
STOP/START SW	Indicates [On/Off] condition of stop/start off switch
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored

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DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Monitor Item	Condition
RKE-PANIC	NOTE: This item is displayed, but cannot be monitored
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from Intelligent Key
RKE PBD	Indicates [On/Off] condition of back door open request signal from Intelligent Key
KEY SW	NOTE: This item is displayed, but cannot be monitored
IGN SW	NOTE: This item is displayed, but cannot be monitored
START SW	NOTE: This item is displayed, but cannot be monitored

*1: It is displayed but does not operate on CVT models.

*2: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
INSIDE BUZZER	This test is able to check warning chime in combination meter operation <ul style="list-style-type: none"> • Buzzer 1: Combination meter buzzer sounds (pipipi...) when CONSULT screen is touched • Buzzer 2: Combination meter buzzer sounds (pipi-pipi-...) when CONSULT screen is touched • Buzzer 3: Combination meter buzzer sounds (pipipipi-pipipipi-...) when CONSULT screen is touched • Off: Non-operation
INDICATOR	This test is able to check warning lamp operation <ul style="list-style-type: none"> • KEY ON: [Intelligent Key system malfunction] displays when CONSULT screen is touched • KEY IND: "KEY" Warning lamp blinks when CONSULT screen is touched • Off: Non-operation
FLASHER	This test is able to check security hazard lamp operation The hazard lamps are activated after "LH/RH/Off" on CONSULT screen is touched
HORN	NOTE: This item is displayed, but cannot be used
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) <ul style="list-style-type: none"> • On: Operates • Off: Non-operation
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation Push-ignition switch illumination illuminates when "ON" on CONSULT screen is touched
ENGINE START REQUEST	This test is able to check BCM sends starter request signal to IPDM E/R via CAN communication <ul style="list-style-type: none"> • MODE 1: IGN ON, START request OFF • MODE 2: IGN OFF, START request ON • MODE 3: IGN ON, START request ON • Off: Non-operation
IGNITION RELAY	NOTE: This item is displayed, but cannot be used
STARTER CUT RELAY	This test is able to operate the starter control relay <ul style="list-style-type: none"> • On: Operates • Off: Non-operation
ENGINE START	NOTE: This item is displayed, but cannot be used
TRUNK/BACK DOOR	NOTE: This item is displayed, but cannot be used

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 2]

Test item	Description
RETRACTABLE MIRROR	NOTE: This item is displayed, but cannot be used
AUTO ACC 2	This test is able to check BCM sends power supply to audio unit or NAVI control unit <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
AUTOMATIC BACK DOOR	NOTE: This item is displayed, but cannot be used
AUTO ACC 1	This test is able to check BCM sends power supply to ignition relay <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk/luggage room lamp operation <ul style="list-style-type: none"> • On: Operates • Off: Non-operation

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK) (With Intelligent Key System, Without Super Lock)

INFOID:000000010717461

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Contents
PUSH SW	Indicates [On/Off] condition of push switch
STARTER CUT RELAY	Indicates [On/Off] condition of starter control relay
DETECTION SENSOR (BK)	Indicates [On/Off] condition of hands free sensor
VEH SPEED 1	Indicates [Km/h] condition of vehicle speed signal from combination meter
KEY CYL SW-TR	NOTE: This item is displayed, but cannot be monitored
TR CANCEL SW	NOTE: This item is displayed, but cannot be monitored
TRUNK LID OPENER SW	NOTE: This item is displayed, but cannot be monitored
BACK DOOR OPENER SW	Indicates [On/Off] condition of back door opener switch
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored

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DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[TYPE 2]

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

CONSULT Function (AUTOMATIC BACK DOOR CONTROL UNIT)

INFOID:000000010717462

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with automatic back door control unit.

Diagnosis mode	Function Description
Work Support	Changes the setting for system function
Self Diagnostic Result	Displays the diagnosis results judged by automatic back door control unit
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from automatic back door control unit
Data Monitor	The automatic back door control unit input/output signals are displayed
Ecu Identification	The automatic back door control unit part number is displayed

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Description
SPINDLE SENSOR LH	Indicates [Pulse] condition of encoder LH
SPINDLE LH SPEED	Indicates [mm/s] condition of spindle motor LH operation speed
SPINDLE MOTOR LH DUTY	Indicates [%] condition of spindle motor LH duty
VHCL SPEED MTR	Display the vehicle speed signal received from unified meter and A/C amp. by numerical value [km/h]
VHCL SPEED ABS	Display the vehicle speed signal received from ABS actuator and electrical unit by numerical value [km/h]
MAIN SW	Indicates [ON/OFF] condition of automatic back door main switch
AUTO BD SW	Indicates [ON/OFF] condition of automatic back door switch
BK DOOR CL SW	Indicates [ON/OFF] condition of automatic back door close switch
PKB SW	Indicates [ON/OFF] condition of parking brake status from combination meter via CAN communication
BACK DOOR LOCK STATUS	Indicates [ON/OFF] condition of back door lock status
OPEN SW	Indicates [ON/OFF] condition of open switch
CLOSE SW	Indicates [ON/OFF] condition of close switch
HALF LATCH SW	Indicates [ON/OFF] condition of half latch switch
TOUCH SEN RH	Indicates [ON/OFF/OPEN] condition of touch sensor RH
TOUCH SEN LH	Indicates [ON/OFF/OPEN] condition of touch sensor LH
P RANGE IND	Indicates [ON/OFF] condition of P range signal from unified meter and A/C amp.
RKE REQ	Indicates [OFF/MOVE/REV] condition of remote keyless entry signal from BCM
IGN SW	Indicates [ON/OFF] condition of IGN power supply
SPINDLE LH ENCODER A	Indicates [LO/HI] condition of encoder signal A from encoder LH
SPINDLE LH ENCODER B	Indicates [LO/HI] condition of encoder signal B from encoder LH
UNLOCK SEN BD	NOTE: This item is displayed, but cannot be monitored
DESTINATION	Indicates [Type 1/Type 2/Type 3/Type 4] specification of destination of the automatic back door system Normal: [Type 3] is monitored
TRANSMISSION TYPE	Indicates [MT/(AT/CVT)] type of transmission

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[TYPE 2]

Monitor Item	Description
AUTO BCK DR POS INITIAL	Indicates [YET/DONE] condition of [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]
AUTO BCK DR POS LEARN	Indicates [YET/DONE] condition of [ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL]
SPINDLE SENSOR RH	Indicates [Pulse] condition of encoder RH
SPINDLE RH SPEED	Indicates [mm/s] condition of spindle motor RH operation speed
SPINDLE MOTOR RH DUTY	Indicates [%] condition of spindle motor RH duty
SPINDLE RH ENCODER A	Indicates [LO/HI] condition of encoder signal A from encoder RH
SPINDLE RH ENCODER B	Indicates [LO/HI] condition of encoder signal B from encoder RH
DETECT SENSOR PWR	Indicates [ON/OFF] condition of hands free sensor power supply
CLOSURE OPERATION	Indicates [ON/OFF] condition of back door auto closure function
IGN SW	Indicates [ON/OFF] condition of IGN power supply from IPDM E/R via CAN communication
DETECT SENSOR SIG 1	Indicates [ON/OFF] condition of hands free sensor signal from BCM via CAN communication

WORK SUPPORT

Monitor Item	Description
RESET AUTO BACK DOOR STATUS	This item is able to calibration of automatic back door position information

SELF-DIAG RESULT

Refer to [DLK-398. "DTC Index"](#).

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ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000010717463

ECU	Reference
BCM	BCS-53. "Reference Value"
	BCS-76. "Fail-safe"
	BCS-77. "DTC Inspection Priority Chart"
	BCS-78. "DTC Index"

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[TYPE 2]

AUTOMATIC BACK DOOR CONTROL UNIT

Reference Value

INFOID:000000010717464

VALUES ON THE DIAGNOSIS TOOL

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

CONSULT MONITOR ITEM

Monitor Item	Condition	Value/Status	
SPINDLE SENSOR LH	Back door: Moving	0 – 1000	
SPINDLE LH SPEED	Back door: Moving	0 – 6553.5	
SPINDLE MOTOR LH DUTY	Back door: Moving	0 – 255	
VHCL SPEED MTR	While driving	Equivalent to speedometer reading	
VHCL SPEED ABS	While driving	Equivalent to speedometer reading	
MAIN SW	Automatic back door main switch	OFF	OFF
		Other than above	ON
AUTO BD SW	Automatic back door switch	Release	OFF
		Press	ON
BK DOOR CL SW	Automatic back door close switch	Release	OFF
		Press	ON
PKB SW	Parking brake	OFF	OFF
		ON	ON
BACK DOOR LOCK STATUS	Back door lock	Lock	OFF
		Unlock	ON
OPEN SW	Open switch	OFF	OFF
		ON	ON
CLOSE SW	Close switch	OFF	OFF
		ON	ON
HALF LATCH SW	Half latch switch	OFF	OFF
		ON	ON
TOUCH SEN RH	Touch sensor RH	Other than bellow	OFF
		Detect obstruction	ON
TOUCH SEN LH	Touch sensor LH	Other than bellow	OFF
		Detect obstruction	ON
P RANGE IND	Selector lever	Other than P position	OFF
		P position	ON
RKE REQ	Intelligent Key button (back door)	Release	OFF
		Press (auto open/close operation)	MOVE
		Press (reverse operation)	REV
IGN SW	Ignition switch	Other than ON position	OFF
		ON position	ON
SPINDLE LH ENCODER A	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO

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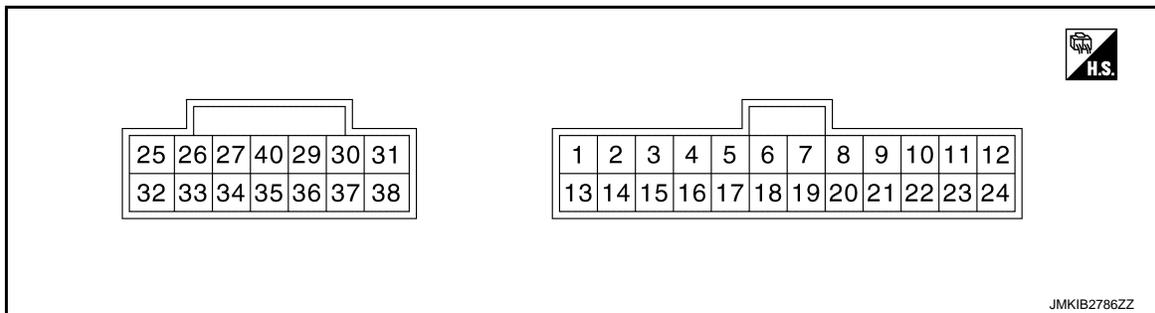
AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[TYPE 2]

Monitor Item	Condition		Value/Status
SPINDLE LH ENCODER B	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO
UNLOCK SEN BD	NOTE: The item is indicated, but not monitored		OFF
DESTINATION	—		TYPE3
TRANSMISSION TYPE	M/T models		MT
	<ul style="list-style-type: none"> • Ignition switch: ON position • CVT models 		AT/CVT
AUTO BCK DR POS INITIAL	Calibration of automatic back door position information	Not complete	YET
		Complete	DONE
AUTO BCK DR POS LEARN	Additional service when removing battery negative terminal	Not complete	YET
		Complete	DONE
SPINDLE SENSOR RH	Back door: Moving		0 – 1000
SPINDLE RH SPEED	Back door: Moving		0 – 6553.5
SPINDLE MOTOR RH DUTY	Back door: Moving		0 – 255
SPINDLE RH ENCODER A	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO
SPINDLE RH ENCODER B	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO
DETECT SENSOR PWR	Other than bellow		OFF
	<ul style="list-style-type: none"> • Automatic back door main switch: ON (hands free function ON) • Shift position: P position • Back door: Full closed 		ON
CLOSURE OPERATION	Back door	Other than bellow	OFF
		Open operation	ON
IGN SW	Ignition switch	Other than ON position	OFF
		ON position	ON
DETECT SENSOR SIG 1	Hands free sensor	Other than bellow	OFF
		ON (perform the auto open function)	ON

TERMINAL LAYOUT



PHYSICAL VALUES

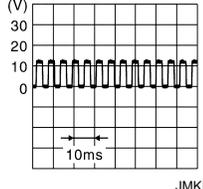
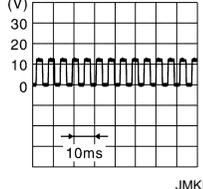
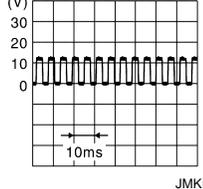
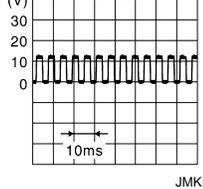
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< ECU DIAGNOSIS INFORMATION >

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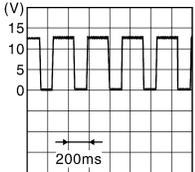
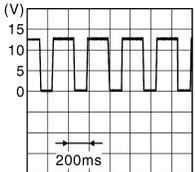
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Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(-)	Signal name	Input/ Output			
1 (LG)	Ground	Touch sensor RH signal	Input	Touch sensor RH	Detect obstruction	0.4 V
					Other than above	6.1 V
2 (G)	Ground	Touch sensor LH signal	Input	Touch sensor LH	Detect obstruction	0.4 V
					Other than above	6.1 V
3 (SB)	Ground	Half latch switch signal	Input	Back door	Open	12 V
					Fully closed/half latch	0 V
5 (BR)	Ground	Close switch signal	Input	Back door	Fully closed	0 V
					Open/half latch	12.2 V
6 (W)	Ground	Encoder LH A signal	Input	Back door	Moving (auto)	
					When stopped	0 V or 12 V
7 (L)	Ground	Encoder LH B signal	Input	Back door	Moving (auto)	
					When stopped	0 V or 12 V
8 (R)	Ground	Encoder RH A signal	Input	Back door	Moving (auto)	
					When stopped	0 V or 12 V
9 (SB)	Ground	Encoder RH B signal	Input	Back door	Moving (auto)	
					When stopped	0 V or 12 V
10 (BG)	Ground	Automatic back door main switch	Input	Automatic back door main switch	ON	12.2 V
					OFF	0 V

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[TYPE 2]

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(-)	Signal name	Input/ Output			
11 (V)	Ground	Open switch signal	Input	Back door	Closure operation	0 V
					Other than above	12.2 V
12 (P)	Ground	CAN - L	Input/ Output	—		—
13 (GR)	Ground	Touch sensor ground	Input	—		0 V
16 (B)	Ground	Ground	Input	—		0 V
19 (V)	Ground	Encoder LH power supply	Output	—		12.7 V
20 (P)	Ground	Encoder RH power supply	Output	—		12.3 V
21 (G)	Ground	Encoder ground	—	—		0 V
22 (LG)	Ground	Automatic back door switch	Input	Automatic back door switch	Pressed	12.6 V
					Released	0 V
23 (W)	Ground	Automatic back door close switch	Input	Automatic back door close switch	Pressed	12.6 V
					Released	0 V
24 (L)	Ground	CAN - H	Input/ Output	—		—
25 (W)	Ground	Power supply (BAT)	Input	—		13.6 V
27 (BR)	Ground	Spindle motor LH (open)	Output	Spindle motor LH	Auto open operation	12 V
					Auto close operation	
29 (BR)	Ground	Spindle motor RH (open)	Output	Spindle motor RH	Auto open operation	12 V
					Auto close operation	
30 (R)	Ground	Hands free sensor power supply	Output	<ul style="list-style-type: none"> • Automatic door main switch: ON • Shift position: P position • Back door: Full closed 		12.8 V
				Other than above		0 V
31 (L)	Ground	Back door closure motor (open)	Output	Back door	Closure operation	13 V
					Other than above	0 V

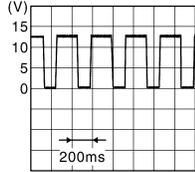
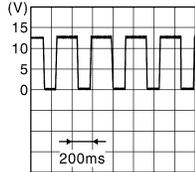
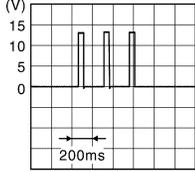
AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[TYPE 2]

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DLK

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(-)	Signal name	Input/ Output			
32 (B)	Ground	Ground	—	—		0 V
34 (G)	Ground	Spindle motor LH (close)	Output	Spindle motor LH	Auto open operation	 <p style="text-align: right; font-size: small;">JMKIB2776ZZ</p>
					Auto close operation	13.4 V
35 (B)	Ground	Ground (noise shield)	—	—		0 V
36 (G)	Ground	Spindle motor RH (close)	Output	Spindle motor RH	Auto open operation	 <p style="text-align: right; font-size: small;">JMKIB2776ZZ</p>
					Auto close operation	13.4 V
37 (Y)	Ground	Automatic back door warning buzzer	Output	Automatic back door warning buzzer	Sounding (auto open/close oper- ation)	 <p style="text-align: right; font-size: small;">JMKIB2777ZZ</p>
					Not sounding	0 V
38 (SB)	Ground	Back door closure mo- tor (close)	Output	Back door	Closure opera- tion	13 V
					Other than above	0 V

Fail-safe

INFOID:000000010717465

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Display contents of CONSULT	Fail-safe	Cancellation
U1000 CAN COMM	Inhibit automatic back door operation	Return to normal status
U1010 CONTROL UNIT (CAN)	Inhibit automatic back door operation	Return to normal status
B2401 IGN OPEN	Inhibit automatic back door operation	Automatic back door control unit de- tects ignition switch ON signal via CAN communication
B2409 HALF LATCH SW	Inhibit automatic back door operation	Automatic back door control unit de- tects that half latch switch changes from ON to OFF when back door ful- ly closes
B2416 TOUCH SEN R OPEN	Inhibit automatic back door operation	Return to normal status
B2417 TOUCH SEN L OPEN	Inhibit automatic back door operation	Return to normal status

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[TYPE 2]

Display contents of CONSULT	Fail-safe	Cancellation
B2419 OPEN SW	Inhibit automatic back door operation	Reconnect battery
B2420 CLOSE SW	Inhibit automatic back door operation	Reconnect battery
B2422 BACK DOOR STATE	Inhibit automatic back door operation	Half latch switch is ON from OFF
B2423 ABD MTR TIME OUT	Inhibit automatic back door operation	At least 180 seconds are passed after automatic back door operation is inhibited
B2426 SPINDLE SENSOR LH	Inhibit automatic back door operation	Return to normal status
B2427 SPINDLE SENSOR RH	Inhibit automatic back door operation	Return to normal status
B2428 AUTO BACK DR CNT UNIT	Inhibit automatic back door operation	Return to normal status
B242A CLSR CONDITION	Inhibit automatic back door operation	Reconnect battery
B242B DETECT SENSOR POWER SUPPLY	Hands free sensor power supply: ON→OFF	Reconnect battery

DTC Inspection Priority Chart

INFOID:000000010717466

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"> • B2428 AUTO BK DR CNT UNIT • U1000 CAN COMM • U1010 CONTROL UNIT (CAN) • B2401 IGN OPEN
2	<ul style="list-style-type: none"> • B2409 HALF LATCH SW • B2416 TOUCH SEN R OPEN • B2417 TOUCH SEN L OPEN • B2419 OPEN SW • B2420 CLOSE SW • B2422 BACK DOOR STATE • B2423 ABD MTR TIME OUT • B2426 SPINDLE SENSOR LH • B2427 SPINDLE SENSOR RH • B242A CLSR CONDITION • B242B DETECT SENSOR POWER SUPPLY

DTC Index

INFOID:000000010717467

NOTE:

Details of time display

- 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	Fail-safe	Reference page
U1000: CAN COMM	×	DLK-466
U1010: CONTROL UNIT(CAN)	×	DLK-467
B2401: IGN OPEN	×	DLK-428
B2409: HALF LATCH SW	×	DLK-430
B2416: TOUCH SEN R OPEN	×	DLK-433
B2417: TOUCH SEN L OPEN	×	DLK-436
B2419: OPEN SW	×	DLK-439
B2420: CLOSE SW	×	DLK-442
B2422: BACK DOOR STATE	×	DLK-444

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[TYPE 2]

CONSULT display	Fail-safe	Reference page
B2423: ABD MTR TIME OUT	×	DLK-447
B2426: SPINDLE SENSOR LH	×	DLK-449
B2427: SPINDLE SENSOR RH	×	DLK-452
B2428: AUTO BACK DR CNT UNIT	×	DLK-455
B242A: CLSR CONDITION	×	DLK-456
B242B: DETECT SENSOR POWER SUPPLY	×	DLK-459

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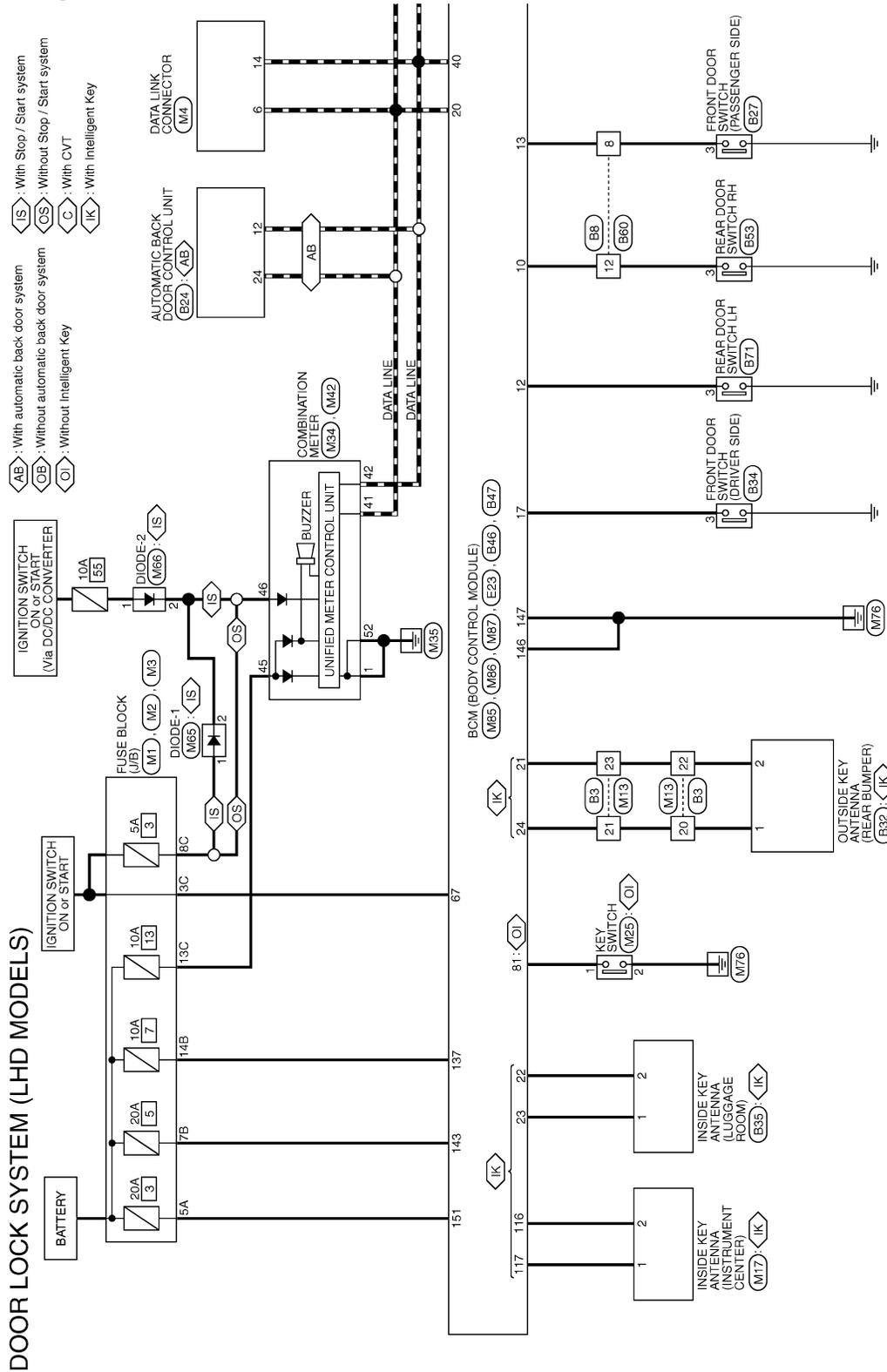
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WIRING DIAGRAM

DOOR & LOCK SYSTEM

Wiring Diagram

INFOID:000000010717468



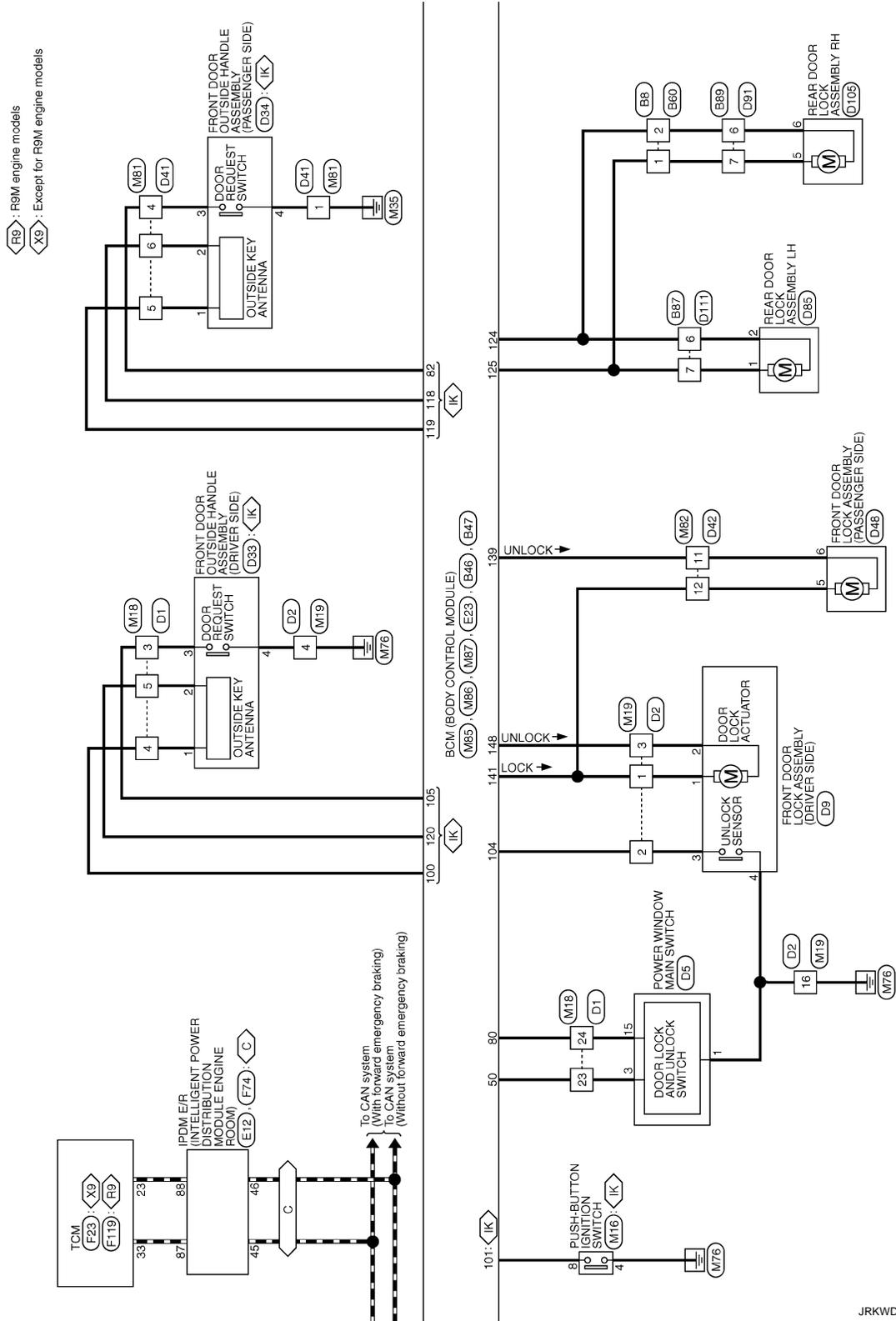
2014/03/17

JRKWD4405GB

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 2]



JRKWD4406GB

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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 2]

DOOR LOCK SYSTEM (LHD MODELS)

Connector No.	B3
Connector Name	WIPE TO WIRE
Connector Type	TH32MV-AH



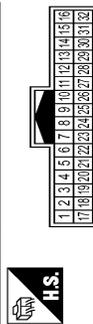
Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	V	-
3	V	-
4	LAV	-
5	GR	-
6	Y	-
7	LG	-
8	BG	-
9	W	-
10	LAV	-
11	BR	-
12	Y	-
13	W	-
14	V	-
15	L	-
16	BR	-
17	Y	-
18	LAV	- [Without PSM]
19	SB	- [With FSM]
20	LG	-
21	G	-
22	V	-
23	BR	-
24	P	-
25	L	-
26	G	-
29	SHIELD	-
30	W	-
31	B	-
32	R	-

Connector No.	B8
Connector Name	WIPE TO WIRE
Connector Type	NS16MW-CS



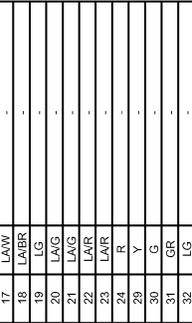
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	P	-
4	L	-
5	SB	-
6	R	-
7	LAV	-
8	W	-
9	P	-
10	R	-
11	P	-
12	P	-
13	P	-
14	P	-
15	P	-
16	P	-

Connector No.	B9
Connector Name	WIPE TO WIRE
Connector Type	TH32MV-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	-
5	W	-
6	R	-
7	B	-
8	SHIELD	-

13	W
14	V
15	BR
16	SB
17	LAV
18	LAVR
19	LG
20	LAVG
21	LAVG
22	LAVR
23	LAVR
24	R
29	Y
30	G
31	GR
32	LG

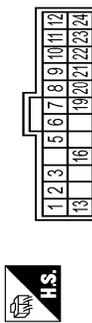


Connector No.	B20
Connector Name	WIPE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
8	LAVG	-
9	LAVR	-
10	LAV	-
12	L	-
13	SB	-
14	R	-
15	G	-
16	W	-

Connector No.	B24
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	AA024FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	TOUCH SENS RH
2	G	TOUCH SENS LH
3	SB	HANDLE LATCH SW
4	BR	CLOSE SW
5	W	A-SIGN LH
6	L	B-SIGN LH
7	R	A-SIGN RH
8	R	B-SIGN RH
9	SB	MAIN SW
10	BG	OPEN SW
11	V	CAN LOW
12	P	TOUCH SENS GND
13	GR	GROUND
16	B	POWER LH
19	V	POWER RH
20	P	ENCODER GROUND
21	G	DRIVER SW
22	LG	INSIDE CLOSE SW
23	W	CAN HI
24	L	

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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 2]

DOOR LOCK SYSTEM (LHD MODELS)

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

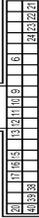


Terminal No.	3	GR	SB
Wire			
Signal Name [Specification]			
			- [For LHD models]
			- [For RHD models]

Terminal No.	3	SB
Wire		
Signal Name [Specification]		
		-

Terminal No.	121	LA/V
Wire		
Signal Name [Specification]		BACK DOOR OPENER CONT
	122	Y
Wire		
Signal Name [Specification]		REAR FOG LAMP OUTPUT
	123	LA/R
Wire		
Signal Name [Specification]		REAR WIPER OUTPUT
	124	W
Wire		
Signal Name [Specification]		REAR DOOR UNLOCK OUTPUT
	125	L
Wire		
Signal Name [Specification]		REAR DOOR LOCK OUTPUT
	127	R
Wire		
Signal Name [Specification]		LUGGAGE ROOM LAMP CONT
	129	LA/W
Wire		
Signal Name [Specification]		STOP LAMP LH OUT
	131	R
Wire		
Signal Name [Specification]		REAR DOOR SUPERLOCK OUTPUT
	133	GR
Wire		
Signal Name [Specification]		TURN SIG LH (REAR)
	134	LA/Y
Wire		
Signal Name [Specification]		STOP LAMP RH OUT
	136	P
Wire		
Signal Name [Specification]		TURN SIG RH (REAR)

Connector No.	B47
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH00FC-NH



Terminal No.	6	R	BACK DOOR OPENER REQUEST SW
Wire			
Signal Name [Specification]			
	9	G	HANDS FREE SENSOR
Wire			
Signal Name [Specification]			
	10	W	REAR RH DOOR SW
Wire			
Signal Name [Specification]			
	11	LG	BACK DOOR SW
Wire			
Signal Name [Specification]			
	12	R	REAR LH DOOR SW
Wire			
Signal Name [Specification]			
	13	SB	PASSENGER DOOR SW
Wire			
Signal Name [Specification]			
	15	LA/G	REAR WIPER AUTO STOP
Wire			
Signal Name [Specification]			
	16	Y	BACK DOOR OPENER SW
Wire			
Signal Name [Specification]			
	17	SB	DRIVER DOOR SW
Wire			
Signal Name [Specification]			
	20	L	CAN-L
Wire			
Signal Name [Specification]			
	21	BR	BUMPER ANTENNA(L)
Wire			
Signal Name [Specification]			
	22	Y	REAR ANTENNA(L)
Wire			
Signal Name [Specification]			
	23	L	REAR ANTENNA(+)
Wire			
Signal Name [Specification]			
	24	G	BUMPER ANTENNA(+)
Wire			
Signal Name [Specification]			
	38	V	SIREN
Wire			
Signal Name [Specification]			
	39	LA/W	HIGH MOUNTED STOP LAMP
Wire			
Signal Name [Specification]			
	40	P	CAN-L
Wire			
Signal Name [Specification]			

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH



Terminal No.	3	SB
Wire		
Signal Name [Specification]		
		-

Connector No.	B35
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	RG02FGY



Terminal No.	1	L
Wire		
Signal Name [Specification]		
	2	Y
Wire		
Signal Name [Specification]		
		-

Connector No.	B46
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FGY-CS

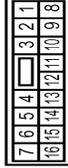


Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	TH04FW-NH



Terminal No.	3	W
Wire		
Signal Name [Specification]		
		-

Connector No.	B60
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	1	LA/LG	Signal Name [Specification]
Wire			
Signal Name [Specification]			
	2	LA/GR	
Wire			
Signal Name [Specification]			
	3	P	
Wire			
Signal Name [Specification]			
	6	L	
Wire			
Signal Name [Specification]			
	7	L	
Wire			
Signal Name [Specification]			
	8	GR	- [For LHD models]
Wire			
Signal Name [Specification]			
	8	SB	- [For RHD models]
Wire			
Signal Name [Specification]			
	9	LA/R	
Wire			
Signal Name [Specification]			
	10	LA/Y	
Wire			
Signal Name [Specification]			
	11	LA/BR	
Wire			
Signal Name [Specification]			
	12	W	
Wire			
Signal Name [Specification]			
	13	LA/V	
Wire			
Signal Name [Specification]			
	14	R	
Wire			
Signal Name [Specification]			
	15	P	
Wire			
Signal Name [Specification]			
	16	P	
Wire			
Signal Name [Specification]			

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 2]

DOOR LOCK SYSTEM (LHD MODELS)

Connector No.	B71
Connector Name	REAR DOOR SWITCH-LH
Connector Type	TH24FM-NH

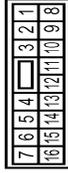


Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	R	-
3	LAV	-
6	W	-
7	L	-
8	LA/R	-
9	LAVL	-
12	G	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH24FM-NH

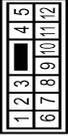


Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS18FM-GS



Terminal No.	3	R	-
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Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-GS



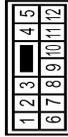
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/B	-
2	LA/B	-
3	W	-
4	V	-
5	SB	-
6	LG	-
7	GR	-
8	G	-
9	Y	-
10	B	-
11	R	-
13	LAW	-
14	LAY	-
15	LALG	-
16	LAV	-
17	LAL	-
18	LABG	-
19	LA/R	-
22	LA/G	-
23	L	-
24	BG	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAV	-
2	R	-
3	LAG	-
4	B	-
5	B	-
6	LAVL	-
7	LA/R	-
8	SB	-
9	LA/GR	-
10	LASSE	-
11	P	-
12	LG	-
13	LAY	-
14	LAW	-
15	LA/R	-
16	B	-

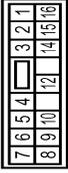
Terminal No.	1	B	-
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Terminal No.	1	Y	-
2	L	-	
3	LAP	-	
4	LAV	-	
5	LAY	-	
6	LA/GR	-	
7	LALG	-	
8	LA/R	-	

Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-GS



Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS18FM-GS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	LA/GR	POWER WINDOW MOTOR (DRIVER SIDE DOWN/UP)
3	L	-
4	R	ENCODER SIGNAL 2

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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 2]

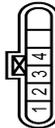
DOOR LOCK SYSTEM (LHD MODELS)

5	W	ENCODER SIGNAL 1
6	P	REAR POWER WINDOW MOTOR RL/DOWN SIGNAL
7	LG	REAR POWER WINDOW MOTOR RH/UP SIGNAL
8	LAV	REAR POWER WINDOW MOTOR RL/DOWN SIGNAL
9	LAV	REAR POWER WINDOW MOTOR RL/UP SIGNAL
10	SB	IGN ON/POWER SUPPLY
12	Y	ENCODER GROUND
14	G	ENCODER POWER SUPPLY
15	BG	-
16	LA5E	FRONT POWER WINDOW MOTOR (PASSENGER SIDE)/UP SIGNAL



Connector No.	D34
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE)
Connector Type	RHMFB

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	EDFFGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	SB	-
3	P	-
4	B	-

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TR24FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAV	-
2	LAG	-
3	R	-
4	B	-

Connector No.	D33
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE)
Connector Type	RHMFB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	B	-
4	P	-
5	R	-
6	SB	-
7	L	-
8	V	-
9	Y	-
10	B	-
11	G	-
13	LAV	-
14	LAV	-
15	LAV	-
16	LAV	-
17	LAV	-
18	GR	-

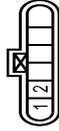
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	SB	-
3	W	-
4	B	-

Terminal No.	Color Of Wire	Signal Name [Specification]
21	LAG	-

Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS16FM-CS

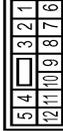


Connector No.	D85
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	EDFFGY-RS

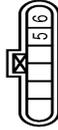


Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAG	-
2	LAV	-

Connector No.	D91
Connector Name	WIRE TO WIRE
Connector Type	NS12FM-CS



Connector No.	D48
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	EDFFGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAV	-
2	LABR	-
3	LA/GR	-
4	LAV	-
5	LAV	-
6	LAV	- [For LHD models]
7	W	- [For LHD models]
8	P	- [For RHD models]

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 2]

DOOR LOCK SYSTEM (LHD MODELS)

Connector No.	D105
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	EDFCY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
5	LAL	-
6	LAV	-

Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NS2FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAY	-
2	LABR	-
3	LAGR	-
6	LAV	- [For LHD models]
6	V	- [For RHD models]
7	LAG	- [For LHD models]
7	LG	- [For RHD models]
8	LAV	-
9	LAL	-
12	W	-

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	MD2FW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-

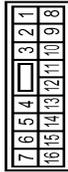
Connector No.	D160
Connector Name	WIRE TO WIRE
Connector Type	TH2FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	-
5	W	-
6	W	-
7	W	-
8	W	-
13	W	-
14	W	-
15	W	-
16	W	-
17	W	-
18	W	-
19	W	-
20	W	-
21	W	-
22	W	-
23	W	-
24	W	-
29	W	-
30	W	-

31	W	-
32	W	-

Connector No.	D164
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
8	W	-
9	W	-
10	W	-
12	W	-
13	W	-
14	W	-
15	W	-
16	W	-

Connector No.	D168
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	W	-
4	GR	-

Connector No.	D169
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH04MV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	GR	- [Without PBD]
4	W	- [With PBD]

Connector No.	D172
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
4	W	-
5	W	-
6	W	-
7	W	-
8	B	-

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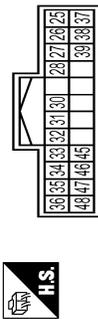
DOOR & LOCK SYSTEM

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[TYPE 2]

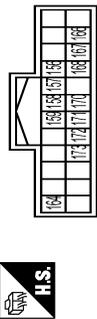
DOOR LOCK SYSTEM (LHD MODELS)

Connector No.	E12
Connector Name	POWER INTELLIGENT POWER/BS TRIBUNION MODULE (ENGINE ROOM)
Connector Type	TH24FGY-NH



Terminal No.	Wire	Signal Name [Specification]
25	LG	-
26	W	-
27	SB	-
28	P	-
30	L	-
31	G	-
32	B	-
33	BG	-
34	LG	-
35	V	-
36	Y	-
37	B	-
38	GR	-
39	BR	-
45	L	-
46	P	-
47	W	-
48	R	-

Connector No.	E23
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH



Terminal No.	Wire	Signal Name [Specification]
156	V	CLUTCH INTERLOCK SW
157	LG	STOP LAMP SW 2
158	W	STOP LAMP SW 1
159	R	ASCD CLUTCH SWITCH
164	Y	INTELLIGENT KEY WARNING BUZZER
166	P	STEERING LOCK UNIT POWER SUPPLY
167	BR	TURN SIG LH (FRONT)
168	GR	TURN SIG RH (FRONT)
170	L	PTC RELAY-3 CONTROL
171	G	STARTER RELAY CONT
172	V	PTC RELAY-1 CONTROL
173	BG	PTC RELAY-2 CONTROL

Connector No.	E26
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	FKG3FBR



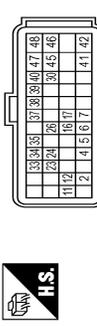
Terminal No.	Wire	Signal Name [Specification]
1	G	-
3	B	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FM-GS16-TM4



Terminal No.	Wire	Signal Name [Specification]
2	W	-
5	V	- [Without ISS]
8	W	- [With ISS]
8	L	-
8	B	-
88	B	-
91	R	-
92	BR	-
93	W	-
96	GR	-
97	R	-
98	V	-
99	Y	-

Connector No.	F23
Connector Name	TCM
Connector Type	RH40FB-E26-LRH



Terminal No.	Wire	Signal Name [Specification]
2	GR	-
4	Y	D RANGE SWITCH
5	BR	N RANGE SWITCH
6	G	R RANGE SWITCH
7	V	P RANGE SWITCH
11	LG	SENSOR GROUND
12	BR	CVT FLUID TEMPERATURE SENSOR
16	SB	SECONDARY PRESSURE SENSOR
17	R	PRIMARY PRESSURE SENSOR
23	P	CANL
24	LG	INPUT SPEED SENSOR
26	BG	SENSOR POWER SUPPLY
30	GR	LINE PRESSURE SOLENOID VALVE
33	L	CANH
34	W	OUTPUT SPEED SENSOR
35	GR	PRIMARY SPEED SENSOR
37	V	SELECT SOLENOID VALVE
38	G	TRIPLE CONVERTER/CLUTCH/SOLENOID VALVE
39	SB	SECONDARY PRESSURE SOLENOID VALVE
40	V	PRIMARY PRESSURE SOLENOID VALVE

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 2]

DOOR LOCK SYSTEM (LHD MODELS)

41	B	GROUND
42	B	GROUND
45	V	BATTERY POWER SUPPLY
46	V	BATTERY POWER SUPPLY
47	BG	IGNITION POWER SUPPLY
48	BG	IGNITION POWER SUPPLY

Connector No.	F74
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH24FB-NH



103	107	108	109	110	111
104	105	106	107	108	109

Terminal No.	Color Of Wire	Signal Name (Specification)
87	L	-
88	P	-
89	W	-
90	R	-
92	GR	-
93	G	- [With R3M Engine]
94	P	- [With MR20 or QR25 Engine]
95	LG	-
96	W	-
97	P	-
98	Y	-
99	BG	-
100	LG	-
101	V	-
102	Y	-
105	W	-
106	BR	-
107	V	-
110	SB	-

Connector No.	F119
Connector Name	TCM
Connector Type	RH40FB-RZSL-LH



31	32	33	34	35	37	38	43	47	48
11	12	13	14	15	16	17	31	45	46
11	12	13	14	15	16	17	41	42	

Terminal No.	Color Of Wire	Signal Name (Specification)
1	P	ELECTRIC OIL PUMP RELAY
2	GR	-
4	Y	D RANGE SWITCH
5	BR	N RANGE SWITCH
6	G	R RANGE SWITCH
7	V	P RANGE SWITCH
11	LG	SENSOR GROUND
12	BR	CVT FLUID TEMPERATURE SENSOR
14	V	G SENSOR
16	SB	SECONDARY PRESSURE SENSOR
17	R	PRIMARY PRESSURE SENSOR
23	P	CANL
24	LG	INPUT SPEED SENSOR
25	R	ELECTRIC OIL PUMP COMMAND SIGNAL
26	BG	SENSOR POWER SUPPLY
30	GR	LINE PRESSURE SOLENOID VALVE
32	SB	ELECTRIC OIL PUMP STATUS SIGNAL
33	L	CAN-H
34	W	OUTPUT SPEED SENSOR
35	GR	PRIMARY SPEED SENSOR
37	Y	SELECT SOLENOID VALVE
38	G	TORQUE CONVERTER CLUTCH SOLENOID VALVE
39	W	SECONDARY PRESSURE SOLENOID VALVE
40	V	PRIMARY PRESSURE SOLENOID VALVE
41	B	GROUND
42	B	GROUND
45	V	BATTERY POWER SUPPLY
46	V	BATTERY POWER SUPPLY
47	BG	IGNITION POWER SUPPLY
48	BG	IGNITION POWER SUPPLY

Connector No.	M1
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS06FW-MZ



3A	7A	8A	1A	4A	6A
2A	5A	9A	3A	10A	11A

Terminal No.	Color Of Wire	Signal Name (Specification)
1A	L	-
2A	LG	-
3A	Y	-
4A	LG	-
5A	R	-
6A	BG	-
7A	BR	-
8A	SB	-

Connector No.	M2
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS16FRCS



7B	8B	9B	10B	11B	12B
13B	14B	15B	16B	17B	18B

Terminal No.	Color Of Wire	Signal Name (Specification)
10B	GR	- [With MR20 engine or R3M engine]
10B	LA/GR	- [With QR25 Engine]
12B	BR	-
14B	W	-
15B	W	-
16B	GR	-
18B	G	-
2B	R	-
3B	V	-
6B	LA/L	-
7B	LAV	-

Connector No.	M3
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS16FW-CS



7C	8C	9C	10C	11C	12C
13C	14C	15C	16C	17C	18C

Terminal No.	Color Of Wire	Signal Name (Specification)
10C	LG	-
13C	LA/G	-
14C	R	-
15C	L	-
16C	LAV	-
1C	R	-
2C	G	-
3C	Y	-
4C	LG	-
5C	GR	-
6C	LAR	-
7C	Y	-
8C	BR	- [With ISS]
8C	LA/BR	- [Without ISS]
9C	L	-

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



11	14	15	16
3	4	5	6
7	8		

Terminal No.	Color Of Wire	Signal Name (Specification)
3	LG	-
4	B	-
5	B	-
6	B	-
8	L	-
8	Y	-

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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 2]

DOOR LOCK SYSTEM (LHD MODELS)

11	SB	-
14	P	-
15	BR	-
16	W	-

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



16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	V	-
3	SB	-
4	BR	-
5	L	-
6	Y	-
7	LG	-
8	BG	-
9	W	-
10	Y	-
11	R	-
12	SB	-
13	LG	-
14	V	-
15	SB	-
16	Y	-
17	LA/BR	-
18	LAL	-
20	BG	-
21	BG	-
22	GR	-
23	GR	-
24	P	-
25	L	-
26	BR	-
29	SHIELD	-
30	W	-
31	B	-
32	R	-

Connector No.	M16
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH08FW-NH



4	5	6	8
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Terminal No.	Color Of Wire	Signal Name [Specification]
4	B	-
5	W	-
6	B	-
8	Y	-

Connector No.	M17
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FGY



1	2
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	BG	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH24MV-NH



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	Y	-
4	V	-
6	BR	-
6	LG	-
7	L	-
8	Y	-
9	G	-
10	SHIELD	-
11	R	-
13	GR	-
14	LASE	-
15	LA/GR	-
16	LAV	-
17	LAL	-
18	LABG	-
19	LAV	-
22	LA/G	-
23	BG	-
24	SB	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MV-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	R	-
3	G	-
4	B	-
6	B	-
6	Y	-
7	R	-
8	L	-
9	BR	-
10	GR	-
11	Y	-
12	BG	-
13	G	-
14	R	-
15	P	-
16	B	-

Connector No.	M25
Connector Name	KEY SWITCH
Connector Type	TH02FW



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Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	B	-

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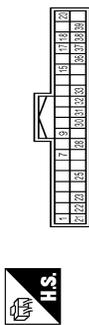
DOOR & LOCK SYSTEM

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[TYPE 2]

DOOR LOCK SYSTEM (LHD MODELS)

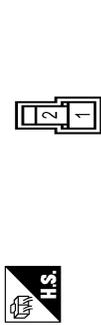
Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FV-NH



Connector No.	M42
Connector Name	COMBINATION METER
Connector Type	TH12FV-NH



Connector No.	M66
Connector Name	DIODE-2
Connector Type	ET02-ZW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
7	BG	SECURITY SIGNAL
9	GR	ECO MODE SWITCH SIGNAL
15	Y	AMBIENT SENSOR SIGNAL
17	BG	METER CONTROL SWITCH GROUND
18	SB	TRIP RESET SWITCH SIGNAL
20	Y	AMBIENT SENSOR GROUND
21	L	STEERING SWITCH SIGNAL A
22	Y	STEERING SWITCH SIGNAL B
23	GR	STEERING SWITCH SIGNAL
25	V	BRAKE FLUID LEVEL SWITCH SIGNAL
28	Y	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	LG	MANUAL MODE SIGNAL
31	SB	NON-MANUAL MODE SIGNAL
32	BG	MANUAL MODE SHIFT UP SIGNAL
33	BR	MANUAL MODE SHIFT DOWN SIGNAL
36	GR	ILLUMINATION CONTROL SWITCH SIGNAL (+)
37	V	ILLUMINATION CONTROL SWITCH SIGNAL (-)
38	G	VEHICLE SPEED SIGNAL (8-PULSE)
39	W	VEHICLE SPEED SIGNAL (2-PULSE)

Terminal No.	Color Of Wire	Signal Name [Specification]
41	L	CANH
42	P	CANH
43	W	ILLUMINATION CONTROL SIGNAL
44	LA/R	FUEL LEVEL SENSOR GROUND
45	LA/G	BATTERY POWER SUPPLY
46	LA/R	IGNITION SIGNAL (Without ISS)
47	SB	AV COMMUNICATION SIGNAL (H)
48	LG	AV COMMUNICATION SIGNAL (L)
49	Y	OIL LEVEL SENSOR SIGNAL
50	BG	FUEL LEVEL SENSOR SIGNAL
51	LA/L	FUEL LEVEL SENSOR SIGNAL
52	B	GROUND

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Connector No.	M65
Connector Name	DIODE-1
Connector Type	ET02-ZW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LA/R	-
5	V	- [Without ISS]
5	W	- [With ISS]
8	G	-
9	Y	-
10	R	-
20	W	-
21	B	-
22	SHIELD	-
31	V	-
32	GR	-
33	G	-
34	LG	-
35	BG	-
36	LG	-
37	V	-
38	G	-
39	BR	-

40	L	-
41	P	-
47	Y	-
48	BG	-
51	GR	-
52	SB	-
53	R	-
54	LA/L	-
55	BR	-
56	P	-
57	B	-
58	L	-
59	W	-
60	LA/R	-
61	P	-
62	V	-
63	LA/R	-
64	Y	-
65	GR	-
66	BG	-
67	L	-
68	R	-
71	V	-
72	L	-
73	Y	-
76	L	-
77	V	-
78	LG	-
79	SHIELD	-
80	L	- [Without ISS]
80	LA/L	- [With ISS]
82	GR	-
83	LG	-
84	SB	-
85	G	-
86	G	-
87	B	-
88	B	-
91	L	-
92	W	-
93	W	-
96	LG	-
97	BR	-
98	V	-
99	R	-

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DOOR & LOCK SYSTEM

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[TYPE 2]

DOOR LOCK SYSTEM (LHD MODELS)

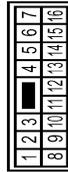
Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TH24MV-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	GR	-
8	SB	-
9	BR	-
10	GR	-
11	L	-
12	Y	-
13	GR	-
14	W	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	GR	- [With SOWI]
4	Y	- [Without SOWI]
5	BR	-
6	SB	-
7	B	-
8	L	-
9	Y	-
10	SHIELD	-
11	G	-
13	LAVS	-
14	LAVR	-
15	LAV	-
16	LAL	-
17	LAVG	-
18	GR	-
21	LAY	-

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Connector No.	M86
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



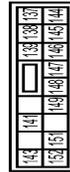
Terminal No.	Color Of Wire	Signal Name [Specification]
81	L	KEY SWITCH
82	LAV	KEY SW (ST) [Without Intelligent Key]
83	W	PASS DOOR REQ SW [With Intelligent Key]
84	BR	COMBI SW OUTPUT 2
85	SB	COMBI SW OUTPUT 3
86	B	COMBI SW OUTPUT 4
87	BG	COMBI SW OUTPUT 5
88	W	PUSH BATT IGN SW/ILL CONT
90	Y	S/L CONDITION
94	G	DEFENTION SW
95	V	EXTENDED STORAGE FUSE SW
99	R	STOP/START OFF SW
100	V	DRIVER DOOR ANT +
101	Y	PUSH SW
104	R	DR DOOR UNLK SENS
105	Y	DR DOOR REQ SW
106	W	ACC OUTPUT
107	V	SENSOR CANCEL SW
109	P	NATS ANTENNA AMP.
110	BG	DIMMER SIGNAL
111	R	DOOR LK STAT IND OUTPUT
112	SB	STOP/START OFF SW INDICATOR
113	LG	NATS ANTENNA AMP.
114	Y	NATS ANTENNA AMP.
115	W	NATS ANTENNA AMP.
116	BG	ROOM ANT 1 -
117	GR	ROOM ANT 1 +
118	SB	PASSENGER DOOR ANT -
119	P	PASSENGER DOOR ANT +
120	BR	DRIVER DOOR ANT +

Connector No.	M87
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40GY-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	STEERING LOCK UNIT POWER SUPPLY
42	LAV	TURN SIG LH (SIDE)
43	LAY	TURN SIG RH (SIDE)
44	P	INTERIOR ROOM LAMP RELAY CONT
45	R	CAN-L
46	L	CAN-R
47	G	LIGHT & RAIN SENSOR
48	L	CAN-L
49	R	CAN-R
50	BG	DOOR LOCK SW
51	Y	HAZARD SW
56	P	DONGLE
57	L	CVT SHIFT SELECT (DETENT SW) PWR
60	R	HEADLAMP WASHER SW
63	G	POWER WINDOW RELAY CON
64	LAV	REAR WINDOW DEFROGGER RELAY CONT
65	BR	ACC RELAY CONT
67	Y	IGN RELAY (F/B) CONT OUTPUT
68	LAV	BLOWER RELAY CONT
73	LG	COMBI SW INPUT 5
74	Y	COMBI SW INPUT 5
75	BG	SECURITY IND LAMP CONT
76	G	COMBI SW INPUT 3
77	GR	COMBI SW INPUT 4
78	V	COMBI SW INPUT 1
79	W	COMBI SW INPUT 2
80	SB	DOOR UNLOCK SW

Terminal No.	Color Of Wire	Signal Name [Specification]
137	W	BAT POWER SUPPLY (FUSE)
138	SB	INT ROOM LAMP CONT
139	L	PASSENGER DOOR UNLOCK OUTPUT
141	V	FRONT DOOR LOCK OUTPUT
143	LAV	POWER SUPPLY (FR DOOR LK ACT)
144	BG	POWER SUPPLY (TURN SIGNAL)
145	GR	POWER SUPPLY (STOP LAMP)
146	B	GROUND
147	B	GROUND
148	G	DRIVER DOOR UNLOCK OUTPUT
149	W	FRONT DOOR SUPERLOCK OUTPUT
151	R	POWER SUPPLY (REAR DOOR LK ACT)
152	LG	POWER SUPPLY (REAR WIPER)



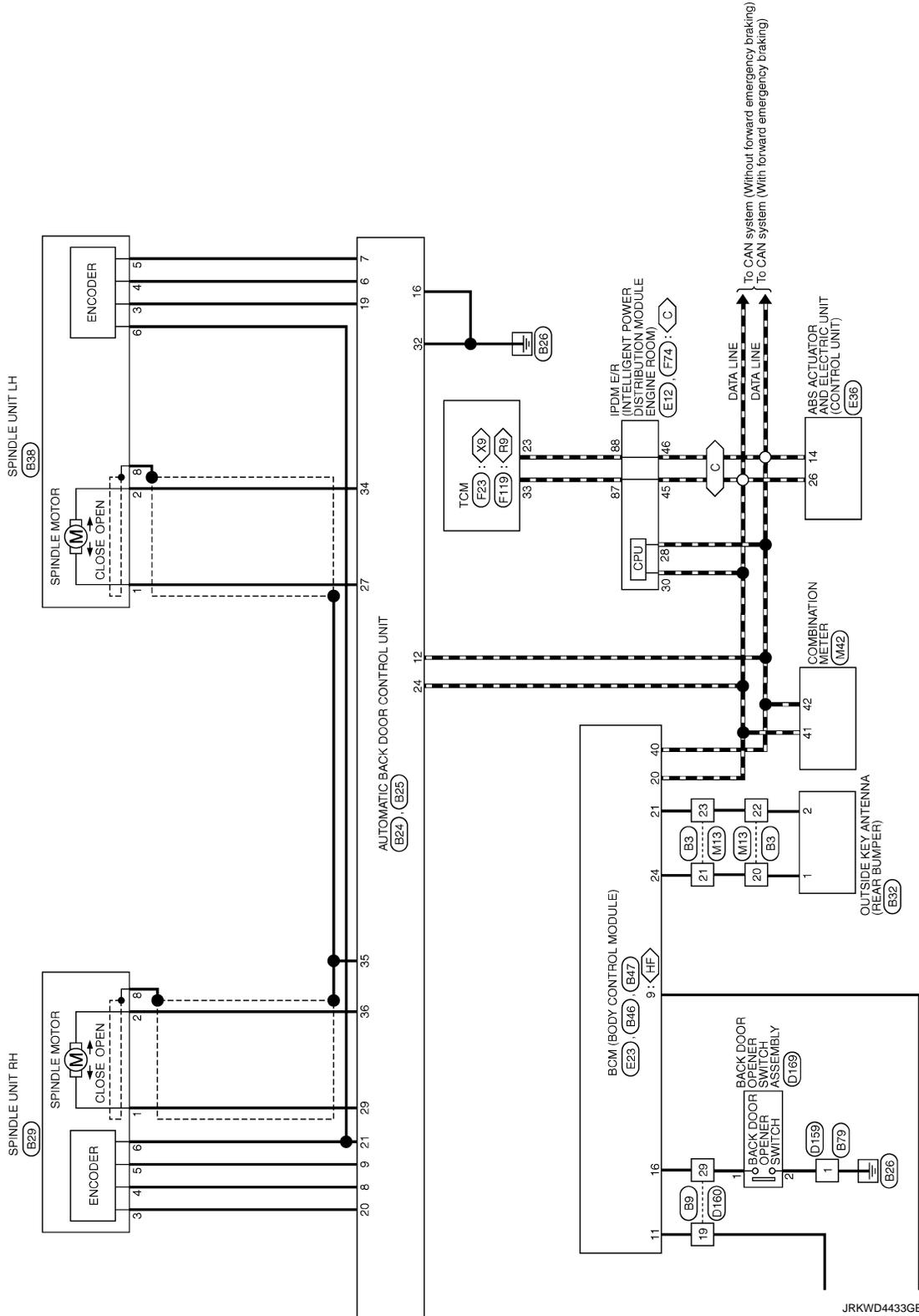
Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16BR-CS



AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 2]



JRKWD4433GB

AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 2]

AUTOMATIC BACK DOOR SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH82MW-AH1



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	V	-
3	LAVR	-
4	V	-
5	GR	-
6	Y	-
7	LG	-
8	BG	-
9	W	-
10	LAV	-
11	BR	-
12	Y	-
13	W	-
14	V	-
15	L	-
16	BR	-
17	Y	-
18	LAVL	- [Without PSM]
19	SB	- [With FSM]
20	LG	-
21	G	-
22	V	-
23	BR	-
24	P	-
25	L	-
26	G	-
29	SHIELD	-
30	W	-
31	B	-
32	R	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	LAVG	-
5	W	-
6	G	-
7	R	-
8	LAVG	-
9	P	-
10	R	-
11	LAV	-
12	LAVL	-
13	LAVR	-
14	LAVG	-
15	LAVR	-
16	R	-

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	TH82MW-AH1



Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	W	-
8	SHIELD	-
13	W	-

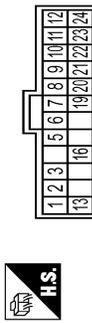
14	V	-
15	BR	-
16	SB	-
17	LAV	-
18	LAVR	-
19	LG	-
20	LAVG	-
21	LAV	-
22	LAVR	-
23	LAVR	-
24	R	-
29	Y	-
30	G	-
31	GR	-
32	LG	-

Connector No.	B20
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
8	LAVG	-
9	LAVR	-
12	L	-
13	SB	-
14	R	-
15	G	-
16	W	-

Connector No.	B24
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	AA024FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	TOUCH SENS RH
2	G	TOUCH SENS LH
3	SB	HALE LATCH SW
5	BR	CLOSE SW
6	W	A-SIGN LH
7	L	B-SIGN LH
8	R	A-SIGN RH
9	SB	B-SIGN RH
10	BG	MAIN SW
11	V	OPEN SW
12	P	CAN LOW
13	GR	TOUCH SENS GND
16	B	GROUND
19	V	POWER LH
20	P	POWER RH
21	G	ENCODER GROUND
22	LG	DRIVER SW
23	W	INSIDE CLOSE SW
24	L	CAN HI

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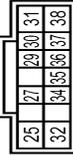
AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 2]

AUTOMATIC BACK DOOR SYSTEM

Connector No.	B25
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	YEA10FGY-YH4



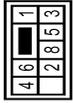
Terminal No.	Color Of Wire	Signal Name [Specification]
25	W	BAT POWER SUPPLY
27	BR	P. BID. LH MTR. OPEN
29	BR	P. BID. RH MTR. OPEN
30	R	IR SENSOR POWER
31	L	LATCH MTR. OPEN
32	B	GROUND
34	G	P. BID. LH MTR. CLOSE
35	B	SPINDLE NOISE
36	G	P. BID. RH MTR. CLOSE
37	Y	BUZZER
38	SB	LATCH MTR. CLOSE

Connector No.	B28
Connector Name	AUTOMATIC BACK DOOR WARNING BUZZER
Connector Type	RK02FBR-DGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	B	-

Connector No.	B29
Connector Name	SPINDLE UNIT RH
Connector Type	NS08MW-CS



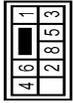
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	G	-
3	P	-
4	R	-
5	SB	-
6	G	-
8	SHIELD	-

Connector No.	B32
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY



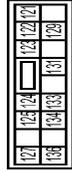
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	V	-

Connector No.	B38
Connector Name	SPINDLE UNIT LH
Connector Type	NS08MW-CS



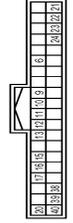
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	G	-
3	V	-
4	W	-
5	L	-
6	G	-
8	SHIELD	-

Connector No.	B46
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FGY-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
121	LAV	BACK DOOR OPENER CONT
122	Y	REAR FOG LAMP OUTPUT
123	LAV	REAR WIPER OUTPUT
124	W	REAR DOOR UNLOCK OUTPUT
125	L	REAR DOOR LOCK OUTPUT
127	R	LUGGAGE ROOM LAMP CONT
129	LAVW	STOP LAMP LH OUT
131	R	REAR DOOR SUPER LOCK OUTPUT
133	GR	TURN SIG LH (REAR)
134	LAV	STOP LAMP RL OUT
136	P	TURN SIG RH (REAR)

Connector No.	B47
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
6	R	BACK DOOR OPENER REOLEST SW
9	G	HANDS FREE SENSOR
10	W	REAR RH DOOR SW
11	LG	BACK DOOR SW
12	R	REAR LH DOOR SW
13	SB	PASSENGER DOOR SW
16	LAV	REAR WIPER AUTO STOP
17	Y	BACK DOOR OPENER SW
20	L	DRIVER DOOR SW
21	BR	CAHH
22	Y	BUMPER ANTENNA(-)
24	L	REAR ANTENNA(+)
38	G	BUMPER ANTENNA(+)
39	LAVW	SIREN
40	P	HIGH-MOUNTED STOP LAMP CAN-L

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC



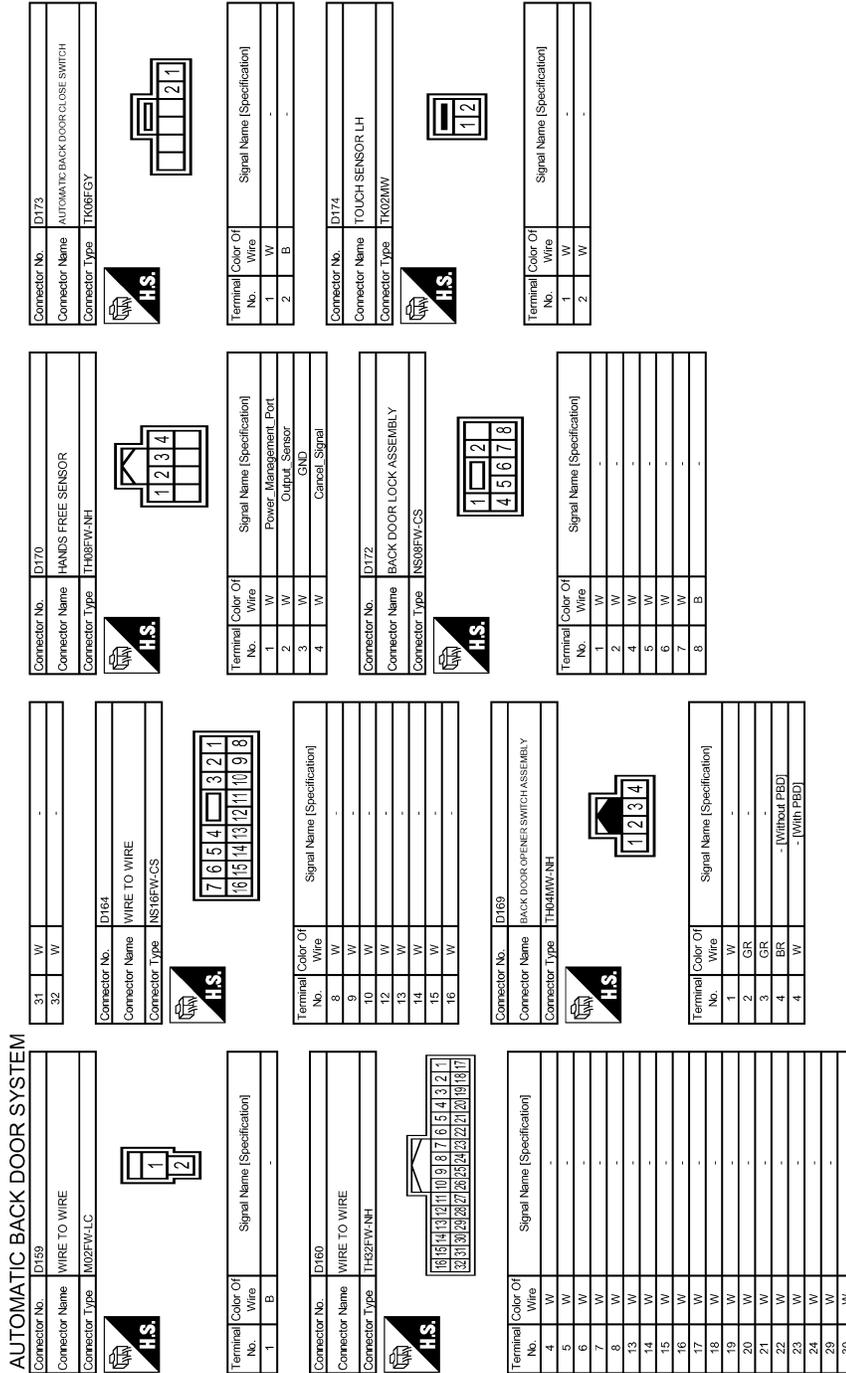
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-

JRKWD4435GB

AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 2]



JRKWD4436GB

AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 2]

AUTOMATIC BACK DOOR SYSTEM

Connector No.	D175
Connector Name	TOUCH SENSOR RH
Connector Type	TK02MW



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

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Type	MS16MBR-CS



Terminal No.	Wire	Signal Name [Specification]
1	BR	- [With MR20 or QR25 engine]
2	BR	- [With RSM engine]
3	G	- [With RSM engine]
4	R	- [With MR20 engine]
5	B	- [With RSM engine]
6	LG	- [With QR25 engine]
7	G	-
8	V	- [With MR20 engine or RSM engine]
9	W	- [With QR25 engine]
10	BR	- [With RSM engine]
11	Y	- [With MR20 engine]
12	L	- [With RSM engine]

Terminal No.	12	LG	- [With QR25 engine]
13	BR	- [With MR20 or QR25 engine]	
14	R	- [With RSM engine]	
15	L	-	
16	SB	-	

Connector No.	E12
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH24FY-NH



Terminal No.	Wire	Signal Name [Specification]
25	LG	-
26	W	-
27	SB	-
28	P	-
30	L	-
31	G	-
32	B	-
33	BG	-
34	LG	-
35	V	-
36	Y	-
37	B	-
38	GR	-
39	BR	-
45	L	-
46	P	-
47	W	-
48	R	-

Connector No.	E23
Connector Name	BOM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH



Terminal No.	Wire	Signal Name [Specification]
156	V	CLUTCH INTERLOCK SW
157	LG	STOP LAMP SW 2
158	W	STOP LAMP SW 1
159	R	ASC D CLUTCH SWITCH
164	Y	INTELLIGENT KEY WARNINGS BUZZER
166	P	STEERING LOCK UNIT POWER SUPPLY
167	BR	TURNSIG LH (FRONT)
168	GR	TURNSIG RH (FRONT)
170	L	PTC-RELAY-3 CONTROL
171	G	STARTER RELAY CONT
172	V	PTC-RELAY-1 CONTROL
173	BG	PTC-RELAY-2 CONTROL

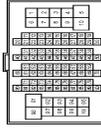
Connector No.	E36
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT CONTROL UNIT
Connector Type	BE234FB-BHR-2-BJZ-RH



Terminal No.	Wire	Signal Name [Specification]
1	Y	MOTOR POWER SUPPLY
4	SB	FR RH WHEEL SENSOR SIGNAL
5	V	BRAKE VACUUM SENSOR POWER SUPPLY
8	P	FR LH WHEEL SENSOR SIGNAL
9	Y	INHIBIT CONTROL SWITCH SIGNAL
12	LG	BRAKE VACUUM SENSOR SIGNAL
13	B	GROUND (MOTOR)
14	P	CANL

Terminal No.	15	BR	VDC OFF SWITCH SIGNAL
16	R	FR RH WHEEL SENSOR POWER SUPPLY	
17	Y	RR RH WHEEL SENSOR POWER SUPPLY	
18	G	FR LH WHEEL SENSOR SIGNAL	
19	W	FR LH WHEEL SENSOR POWER SUPPLY	
24	SHIELD	BRAKE VACUUM SENSOR GROUND	
25	BR	VALVE POWER SUPPLY	
26	L	CANH	
28	GR	IGNITION POWER SUPPLY	
29	LG	RR RH WHEEL SENSOR SIGNAL	
31	BR	RR LH WHEEL SENSOR POWER SUPPLY	
38	B	GROUND (VALVE)	

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



Terminal No.	Wire	Signal Name [Specification]
2	W	-
5	V	- [Without ISS]
5	W	- [With ISS]
8	L	-
9	LG	-
10	W	-
20	W	-
21	B	-
22	SHIELD	-
31	Y	-
32	W	-
33	SB	-
34	LG	-
35	BG	-
36	LG	-
37	V	-
38	G	-
39	BR	-
40	B	-
41	P	-
47	GR	-
48	SB	-

AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 2]

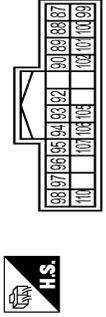
AUTOMATIC BACK DOOR SYSTEM

51	P	-	-	-	-
52	L	-	-	-	-
53	W	-	-	-	-
54	Y	-	-	-	-
55	BR	-	-	-	-
56	P	-	-	-	-
57	B	-	-	-	-
58	L	-	-	-	-
59	W	-	-	-	-
60	G	-	-	-	-
61	BR	-	-	-	-
62	V	-	-	-	-
63	BR	-	-	-	-
64	GR	-	-	-	-
65	LG	-	-	-	-
66	BG	-	-	-	-
67	R	-	-	-	-
68	R	-	-	-	-
71	V	-	-	-	-
72	L	-	-	-	-
73	R	-	-	-	-
76	L	-	-	-	-
77	V	-	-	-	-
78	LG	-	-	-	-
79	SHIELD	-	-	-	-
80	GR	-	-	-	-
82	Y	-	-	-	-
83	SB	-	-	-	-
84	L	-	-	-	-
85	G	-	-	-	-
86	Y	-	-	-	-
87	B	-	-	-	-
88	B	-	-	-	-
91	R	-	-	-	-
92	BR	-	-	-	-
93	W	-	-	-	-
96	GR	-	-	-	-
97	R	-	-	-	-
98	V	-	-	-	-
99	Y	-	-	-	-

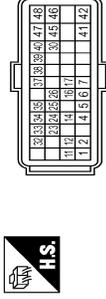
Connector No.	F23
Connector Name	TCM
Connector Type	RH40FB-RZ2L-RH



Connector No.	F74
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH24FB-NH



Connector No.	F119
Connector Name	TCM
Connector Type	RH40FB-RZ2L-LH



Terminal No.	Color	Wire	Signal Name [Specification]
2	GR	Y	-
4	Y	-	-
5	BR	-	D RANGE SWITCH
6	GR	-	N RANGE SWITCH
7	G	-	R RANGE SWITCH
11	LG	-	SENSOR GROUND
12	BR	-	CVT FLUID TEMPERATURE SENSOR
16	SB	-	SECONDARY PRESSURE SENSOR
17	R	-	PRIMARY PRESSURE SENSOR
23	P	-	CAN/L
24	LG	-	INPUT SPEED SENSOR
26	BG	-	LINE PRESSURE SOLENOID VALVE
30	GR	-	OUTPUT SPEED SENSOR
33	L	-	CAN/H
34	W	-	PRIMARY SPEED SENSOR
35	GR	-	SELECT SOLENOID VALVE
37	Y	-	TORQUE CONVERTER CLUTCH SOLENOID VALVE
38	G	-	SECONDARY PRESSURE SOLENOID VALVE
39	W	-	PRIMARY PRESSURE SOLENOID VALVE
40	V	-	GROUND
41	B	-	GROUND
42	B	-	GROUND
45	V	-	BATTERY POWER SUPPLY
46	V	-	BATTERY POWER SUPPLY
47	BG	-	IGNITION POWER SUPPLY
48	BG	-	IGNITION POWER SUPPLY

Terminal No.	Color	Wire	Signal Name [Specification]
87	L	-	-
88	P	-	-
89	W	-	-
90	R	-	-
92	GR	-	-
93	G	-	- [With R30i Engine]
94	SB	-	- [With M120 or CH23 Engine]
95	LG	-	-
96	W	-	-
97	P	-	-
98	Y	-	-
99	BG	-	-
100	LG	-	-
101	V	-	-
102	Y	-	-
105	W	-	-
106	BR	-	-
107	V	-	-
110	SB	-	-

Terminal No.	Color	Wire	Signal Name [Specification]
1	P	-	ELECTRIC OIL PUMP RELAY
2	GR	-	-
4	Y	-	D RANGE SWITCH
5	BR	-	N RANGE SWITCH
6	GR	-	R RANGE SWITCH
7	V	-	P RANGE SWITCH
11	LG	-	SENSOR GROUND
12	BR	-	CVT FLUID TEMPERATURE SENSOR
14	V	-	G SENSOR
16	SB	-	SECONDARY PRESSURE SENSOR
17	R	-	PRIMARY PRESSURE SENSOR
23	P	-	CAN/L
24	LG	-	INPUT SPEED SENSOR
25	R	-	ELECTRIC OIL PUMP COMMAND SIGNAL
26	BG	-	SENSOR POWER SUPPLY
30	GR	-	LINE PRESSURE SOLENOID VALVE
32	SB	-	ELECTRIC OIL PUMP STATUS SIGNAL
33	L	-	CAN/H
34	W	-	OUTPUT SPEED SENSOR
35	GR	-	PRIMARY SPEED SENSOR
37	Y	-	SELECT SOLENOID VALVE
38	G	-	TORQUE CONVERTER CLUTCH SOLENOID VALVE
39	W	-	SECONDARY PRESSURE SOLENOID VALVE
40	V	-	PRIMARY PRESSURE SOLENOID VALVE
41	B	-	GROUND
42	B	-	GROUND
45	V	-	BATTERY POWER SUPPLY
46	V	-	BATTERY POWER SUPPLY
47	BG	-	IGNITION POWER SUPPLY
48	BG	-	IGNITION POWER SUPPLY

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AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[TYPE 2]

AUTOMATIC BACK DOOR SYSTEM

Connector No.	M70
Connector Name	CIRCUIT BREAKER
Connector Type	MD2FW-PLC



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

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal Color Of No.	Wire	Signal Name [Specification]
2	LA/R	-
5	V	- [Without ISS]
8	G	- [With ISS]
9	Y	-
10	R	-
20	W	-
21	B	-
22	SHIELD	-
31	V	-
32	GR	-
33	G	-
34	LG	-
35	RG	-
36	LG	-
37	V	-
38	G	-
39	BR	-

40	L	-
41	P	-
47	Y	-
48	BG	-
51	GR	-
52	SB	-
53	R	-
54	LAL	-
55	BR	-
56	P	-
57	B	-
58	L	-
59	W	-
60	LA/R	-
61	P	-
62	V	-
63	LA/R	-
64	V	-
66	GR	-
66	BG	-
67	L	-
68	R	-
71	V	-
72	L	-
73	Y	-
76	L	-
77	V	-
78	LG	-
79	SHIELD	-
80	L	- [With ISS]
80	LAL	- [Without ISS]
82	GR	-
83	LG	-
84	SB	-
85	G	-
86	G	-
87	B	-
88	B	-
91	L	-
92	W	-
93	W	-
96	LG	-
97	BR	-
98	V	-
99	R	-

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JRKWD4440GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[TYPE 2]

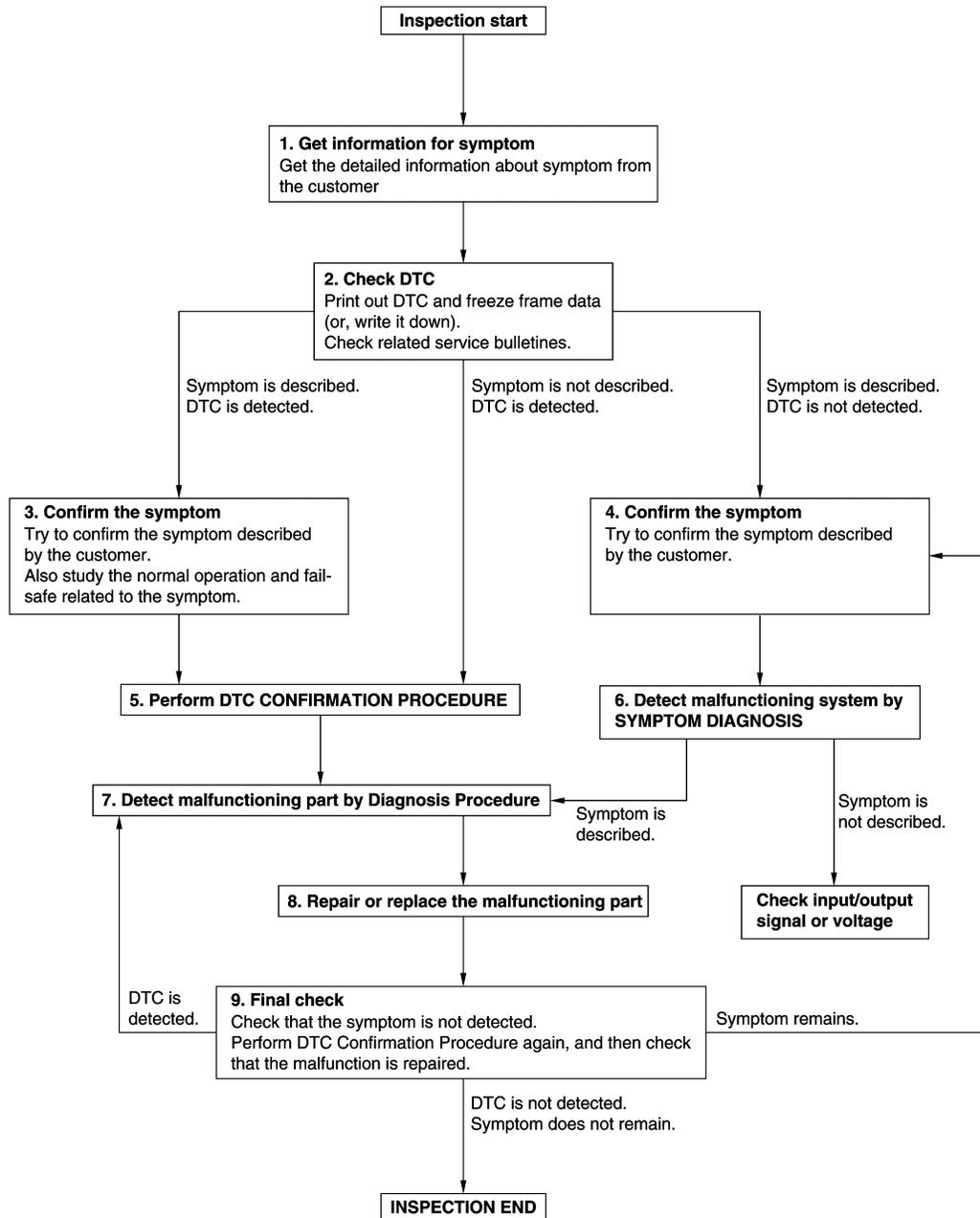
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000010717470

OVERALL SEQUENCE



DETAILED FLOW

JMKIA8652GB

DIAGNOSIS AND REPAIR WORK FLOW

[TYPE 2]

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2. CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.
 - Record DTC and freeze frame data (print them out using CONSULT).
 - 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.

Are any symptoms described or 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.
Also study the normal operation and fail-safe related to the symptom.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.
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 detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check diagnostic results in real time. If two or more DTCs are detected, refer to [BCS-77. "DTC Inspection Priority Chart"](#) (BCM) or [DLK-398. "DTC Inspection Priority Chart"](#) (automatic back door control unit), and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.
If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

- YES >> GO TO 7.
- NO >> Refer to [GI-44. "Intermittent Incident"](#).

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

Is the symptom described?

- YES >> GO TO 7.
- NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

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DIAGNOSIS AND REPAIR WORK FLOW

[TYPE 2]

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-44. "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is completely repaired.

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

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

< BASIC INSPECTION >

[TYPE 2]

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

Description

INFOID:000000010717471

When the battery is disconnected from the negative terminal, it is necessary to perform initial setting to operate automatic back door control system normally. Refer to [DLK-427, "Work Procedure"](#).

Work Procedure

INFOID:000000010717472

1. INITIALIZATION

1. Fully close the back door manually. (When back door is already fully closed, this operation is not necessary)
2. Perform automatic back door open/close operation of back door.
3. Check for noise or malfunctioning during operation.
4. Check automatic back door warning buzzer operates.

NOTE:

Never touch back door, or allow foreign materials to be pinched in back door, when performing automatic back door open/close operation of back door, until it is in the fully closed or fully open position.

>> WORK END

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ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL UNIT

< BASIC INSPECTION >

[TYPE 2]

ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL UNIT

Description

INFOID:000000010717473

When replacing automatic back door control unit, or removing connector terminal, it is necessary to perform initial setting to operate automatic back door system normally. Refer to [DLK-426. "Work Procedure"](#).

Work Procedure

INFOID:000000010717474

1.STEP 1

1. Select "AUTO BACK DOOR" using CONSULT.
2. Select "RESET AUTO BACK DOOR STATUS" of "WORK SUPPORT" mode.
3. Touch "Start" to erase automatic back door position information.

>> GO TO 2.

2.STEP 2

Fully close the back door manually.

>> GO TO 3.

3.STEP 3

Operate back door opener switch and perform automatic back door open operation.

>> GO TO 4.

4.STEP 4

1. The back door fully opens.
2. Check that automatic back door warning buzzer sounds normally.

Does automatic back door warning buzzer sound normally?

YES >> GO TO 5.

NO >> GO TO 2.

5.STEP 5

Fully close the back door.

>> WORK END

CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

< BASIC INSPECTION >

[TYPE 2]

CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

Description

INFOID:000000010717475

When the following work is performed, it is necessary to perform initial setting of automatic back door position information to operate automatic back door system.

- After removing and installing, or replacing automatic back door control unit
- After removing and installing, or replacing back door assembly
- After removing and installing, or replacing spindle unit

Work Procedure

INFOID:000000010717476

1.STEP 1

1. Select "AUTO BACK DOOR" using CONSULT.
2. Select "RESET AUTO BACK DOOR STATUS" of "WORK SUPPORT" mode.
3. Touch "Start" to erase automatic back door position information.

>> GO TO 2.

2.STEP 2

Fully close the back door manually.

>> GO TO 3.

3.STEP 3

Operate back door opener switch and perform automatic open operation.

>> GO TO 4.

4.STEP 4

1. The back door fully opens.
2. Check that automatic back door warning buzzer sounds normally.

Does automatic back door warning buzzer sound normally?

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

5.STEP 5

Fully close the back door.

>> WORK END

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DLK

B2401 IGNITION POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

DTC/CIRCUIT DIAGNOSIS

B2401 IGNITION POWER SUPPLY CIRCUIT

DTC Description

INFOID:000000010717477

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2401	IGN OPEN (Ignition open)	Automatic back door control unit cannot detect ignition switch ON signal via CAN communication with BCM

POSSIBLE CAUSE

- CAN communication system
- BCM
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-428, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717478

1.CHECK DTC PRIORITY

If DTC B2401 is displayed with DTC U1000 or U1010, first perform the trouble diagnosis for DTC U1000 or U1010.

Is applicable DTC detected?

- YES >> U1000: Refer to [DLK-466, "DTC Description"](#). U1010: Refer to [DLK-467, "DTC Description"](#).
NO >> GO TO 2.

2.CHECK DTC OF BCM AND IPDM E/R

Check DTC in "Self Diagnostic Result" mode of "BCM" and "IPDM E/R" using CONSULT.

Is DTC detected?

- YES >> Refer to [BCS-78, "DTC Index"](#) (BCM) or [PCS-38, "DTC Index"](#) (IPDM E/R).
NO >> GO TO 3.

3.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "IGN SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
IGN SW	Ignition switch (automatic back door control unit judgment)	ON
		OFF

B2401 IGNITION POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Monitor item	Condition	Status
IGN SW	Ignition switch (IPDM E/R judgment)	ON
		OFF

Is the inspection result normal?

YES >> GO TO 4.

NO-1 >> Automatic back door control unit NG: Replace automatic back door control unit, refer to [DLK-633, "Removal and Installation"](#).

NO-2 >> IPDM E/R NG: Replace BCM, refer to [BCS-121, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

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DLK

B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

B2409 HALF LATCH SWITCH

DTC Description

INFOID:000000010717479

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2409	HALF LATCH SW (Half latch switch)	Automatic back door control unit detects a malfunction of half latch switch during automatic operation of back door

POSSIBLE CAUSE

- Entry of foreign materials to back door lock assembly
- Back door mechanism
- Half latch switch
- Harness or connectors (half latch switch circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-430, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717480

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace the malfunction parts.

3.CHECK HALF LATCH SWITCH MONITOR ITEM

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "HALF LATCH SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
HALF LATCH SW	Back door	Fully closed
		Open
		OFF
		ON

Is the inspection result normal?

- YES >> GO TO 7.

B2409 HALF LATCH SWITCH

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 4.

4. CHECK HALF LATCH SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal	Ground	12 V
D172	6		

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	3	D172	6	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	3		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

NO >> Repair or replace harness.

6. CHECK HALF LATCH SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D172	8		Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunction parts.

8. REPLACE BACK DOOR LOCK ASSEMBLY

1. Replace back door lock assembly. Refer to [DLK-619, "DOOR LOCK : Removal and Installation"](#).
2. Erase DTC.
3. Perform DTC CONFIRMATION PROCEDURE for DTC 2409. Refer to [DLK-430, "DTC Description"](#).

Is the inspection result normal?

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B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

YES >> INSPECTION END

NO >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

B2416 TOUCH SENSOR RH

DTC Description

INFOID:000000010717481

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2416	TOUCH SEN R OPEN (Touch sensor right open)	Automatic back door control unit detects a malfunction of touch sensor RH during automatic operation of back door

POSSIBLE CAUSE

- Improper installation of touch sensor
- Touch sensor RH
- Harness or connectors (touch sensor circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-433, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717482

1. CHECK INSTALLATION OF TOUCH SENSOR RH

Check that touch sensor RH is installed normally.
Refer to [DLK-622, "TOUCH SENSOR : Removal and Installation"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Refer to [DLK-622, "TOUCH SENSOR : Removal and Installation"](#).

2. CHECK TOUCH SENSOR MONITOR ITEM

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "TOUCH SEN RH" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
TOUCH SEN RH	Touch sensor RH	Other than below
		Detect obstruction
		OFF
		ON

Is the inspection result normal?

- YES >> GO TO 6.
NO >> GO TO 3.

3. CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between touch sensor RH harness connector and automatic back door control unit harness connector.

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

(+)		(-)	Voltage (Approx.)
Touch sensor RH			
Connector	Terminal		
D175	1	Ground	6.1 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK TOUCH SENSOR RH CIRCUIT

1. Disconnect automatic back door control unit and touch sensor RH connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor RH harness connector.

Automatic back door control unit		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B24	1	D175	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	1		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR RH GROND CIRCUIT

1. Disconnect automatic back door control unit and each touch sensor connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor RH harness connector.

Automatic back door control unit		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B24	13	D175	2	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	13		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK TOUCH SENSOR RH

Refer to [DLK-435, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace touch sensor RH.

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Component Inspection

INFOID:000000010717483

1. CHECK TOUCH SENSOR RH

1. Turn ignition switch OFF.
2. Disconnect touch sensor RH connector.
3. Check resistance between touch sensor RH terminals.

Touch sensor RH		Condition		Resistance (Approx.)
Terminal				
1	2	Touch sensor RH	Detect obstruction	380 – 420 kΩ
			Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace touch sensor RH.

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B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

B2417 TOUCH SENSOR LH

DTC Description

INFOID:000000010717484

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2417	TOUCH SEN L OPEN (Touch sensor left open)	Automatic back door control unit detects a malfunction of touch sensor LH during automatic operation of back door

POSSIBLE CAUSE

- Improper installation of touch sensor
- Touch sensor LH
- Harness or connectors (touch sensor circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-436, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717485

1. CHECK INSTALLATION OF TOUCH SENSOR LH

Check that touch sensor LH is installed normally.
Refer to [DLK-622, "TOUCH SENSOR : Removal and Installation"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Refer to [DLK-622, "TOUCH SENSOR : Removal and Installation"](#).

2. CHECK TOUCH SENSOR MONITOR ITEM

1. Select "AUTO BACK DOOR" using CONSULT.
2. Select "TOUCH SEN LH" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
TOUCH SEN LH	Touch sensor LH	Other than below
		Detect obstruction
		OFF
		ON

Is the inspection result normal?

- YES >> GO TO 6.
NO >> GO TO 3.

3. CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between touch sensor LH harness connector and automatic back door control unit harness connector.

B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

(+)		(-)	Voltage (Approx.)
Touch sensor LH			
Connector	Terminal		
D174	1	Ground	6.1 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK TOUCH SENSOR LH CIRCUIT

1. Disconnect automatic back door control unit and touch sensor LH connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor LH harness connector.

Automatic back door control unit		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B24	2	D174	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	2		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).

NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR LH GROND CIRCUIT

1. Disconnect automatic back door control unit and each touch sensor connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor LH harness connector.

Automatic back door control unit		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B24	13	D174	2	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	13		Not existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK TOUCH SENSOR LH

Refer to [DLK-435. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace touch sensor LH.

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

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B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Component Inspection

INFOID:000000010717486

1. CHECK TOUCH SENSOR LH

1. Turn ignition switch OFF.
2. Disconnect touch sensor LH connector.
3. Check resistance between touch sensor LH terminals.

Touch sensor LH		Condition	Resistance (Approx.)	
Terminal				
1	2	Touch sensor LH	Detect obstruction	380 – 420 kΩ
			Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace touch sensor LH.

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

B2419 OPEN SWITCH

DTC Description

INFOID:000000010717487

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2419	OPEN SW (Open switch)	Automatic back door control unit detects a malfunction of open switch during automatic operation of back door

POSSIBLE CAUSE

- Entry of foreign materials to back door lock assembly
- Back door mechanism
- Open switch
- Harness or connectors (open switch circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-439, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717488

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK OPEN SWITCH SIGNAL

1. Select "AUTO BACK DOOR" using CONSULT.
2. Select "OPEN SW" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
OPEN SW	Back door	Closure operation ON
		Other than above OFF

Is the inspection result normal?

- YES >> GO TO 7.
NO >> GO TO 4.

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B2419 OPEN SWITCH

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK OPEN SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal		
D172	4	Ground	12.2 V

Is the inspection result normal?

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

5. CHECK OPEN SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	11	D172	4	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	11		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).
NO >> Repair or replace harness.

6. CHECK OPEN SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D172	8		Existed

Is the inspection result normal?

- YES >> GO TO 7.
NO >> Repair or replace harness.

7. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> GO TO 8.
NO >> Repair or replace harness.

8. REPLACE BACK DOOR LOCK ASSEMBLY

1. Replace back door lock assembly. Refer to [DLK-619, "DOOR LOCK : Removal and Installation"](#).
2. Erase DTC.
3. Perform DTC CONFIRMATION PROCEDURE for DTC 2419.
Refer to [DLK-439, "DTC Description"](#).

Is the inspection result normal?

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

YES >> INSPECTION END

NO >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

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B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

B2420 CLOSE SWITCH

DTC Description

INFOID:000000010717489

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2420	CLOSE SW (Close switch)	Automatic back door control unit detects a malfunction of close switch during automatic operation of back door

POSSIBLE CAUSE

- Entry of foreign materials to back door lock assembly
- Back door mechanism
- Close switch
- Harness or connectors (close switch circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-442, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717490

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK CLOSE SWITCH SIGNAL

1. Select "AUTO BACK DOOR" using CONSULT.
2. Select "CLOSE SW" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CLOSE SW	Back door	Closure operation	ON
		Other than above	OFF

Is the inspection result normal?

- YES >> GO TO 7.
NO >> GO TO 4.

4.CHECK CLOSE SWITCH INPUT SIGNAL

B2420 CLOSE SWITCH

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal		
D172	5	Ground	12.2 V

Is the inspection result normal?

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

5.CHECK CLOSE SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	5	D172	5	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	5		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).
NO >> Repair or replace harness.

6.CHECK CLOSE SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D172	8		Existed

Is the inspection result normal?

- YES >> GO TO 7.
NO >> Repair or replace harness.

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> GO TO 8.
NO >> Repair or replace harness.

8.REPLACE BACK DOOR LOCK ASSEMBLY

1. Replace back door lock assembly. Refer to [DLK-619, "DOOR LOCK : Removal and Installation"](#).
2. Erase DTC.
3. Perform DTC CONFIRMATION PROCEDURE for DTC 2420.
Refer to [DLK-442, "DTC Description"](#).

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

B2422 BACK DOOR STATE

DTC Description

INFOID:000000010717491

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2422	BACK DOOR STATE (Back door state)	When the automatic back door control unit detects back door position malfunction according to the pulse signal

POSSIBLE CAUSE

- Improper installation of back door assembly
- [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete
- Back door mechanism
- Encoder
- Harness or connectors (encoder circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-444, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717492

1.CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

1. Perform initialization setting of automatic back door position information.
Refer to [DLK-427, "Work Procedure"](#).
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
NO >> INSPECTION END

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

1. Check that back door assembly is installed normally.
Refer to [DLK-601, "BACK DOOR ASSEMBLY : Adjustment"](#).
2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK ENCODER SIGNAL

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "SPINDLE SENSOR LH" and "SPINDLE SENSOR RH" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Monitor item	Status
SPINDLE SENSOR LH	0 – 1000
SPINDLE SENSOR RH	0 – 1000

Is the difference between the 2 monitor items 10 or more?

YES >> GO TO 7.

NO >> GO TO 4.

4.CHECK ENCODER POWER SUPPLY

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

(+)		Spindle unit	(-)	Voltage (Approx.)
Connector	Terminal			
LH	B38	3	Ground	12.7 V
RH	B29			12.3 V

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK ENCODER CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit harness connector.

Automatic back door control unit		Spindle unit		Continuity
Connector	Terminal	Connector	Terminal	
B24	19	LH	B38	Existed
	20	RH	B29	

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	19		Not existed
	20		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK ENCODER CIRCUIT 2

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit harness connector.

Automatic back door control unit		Spindle unit		Continuity
Connector	Terminal	Connector	Terminal	
B24	21	LH	B38	Existed
		RH	B29	

3. Check continuity between automatic back door control unit harness connector and ground.

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	21		Not existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

DTC Description

INFOID:000000010717493

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2423	ABD MTR TIME OUT (Automatic back door motor time out)	When the automatic back door control unit and spindle motor operate in the same direction for 180 seconds or more continuously

POSSIBLE CAUSE

- Spindle motor
- Harness or connectors (circuit is shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-447. "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44. "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717494

1. ERASE DTC

1. At least 180 seconds are passed after automatic back door operation is inhibited.
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
NO >> INSPECTION END

2. CHECK SPINDLE MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic back door control unit and spindle unit connector.
3. Check continuity between automatic back door control unit harness connector and spindle unit harness connector.

Automatic back door control unit		Spindle unit			Continuity
Connector	Terminal	Connector	Terminal		
B25	27	LH	B38	1	Existed
	34			2	
	29	RH	B29	1	
	36			2	

4. Check continuity between automatic back door control unit harness connector and ground.

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B25	27		Not existed
	29		
	34		
	36		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.REPLACE SPINDLE UNIT LH

1. Replace spindle unit LH.
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> GO TO 4.

NO >> INSPECTION END

4.REPLACE SPINDLE UNIT RH

1. Replace spindle unit LH.
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> GO TO 5.

NO >> INSPECTION END

5.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door unit.
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

NO >> INSPECTION END

B2426 ENCODER

DTC Description

INFOID:000000010717495

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2426	SPINDLE SENSOR LH (Spindle sensor left handle)	When the automatic back door control unit can not receive the pulse signal from the encoder just after starting the open/close operation

POSSIBLE CAUSE

- Improper installation of back door assembly
- [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete
- Back door mechanism
- Encoder
- Harness or connectors (encoder circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-449, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717496

1.CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

DLK

1. Perform initialization setting of automatic back door position information.
Refer to [DLK-427, "Work Procedure"](#).
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
- NO >> INSPECTION END

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

1. Check that back door assembly is installed normally.
Refer to [DLK-601, "BACK DOOR ASSEMBLY : Adjustment"](#).
2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3.CHECK ENCODER SIGNAL

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "SPINDLE LH ENCODER A" and "SPINDLE LH ENCODER B" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

B2426 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Monitor item	Condition		Status
SPINDLE LH ENCODER A	Back door	Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO
SPINDLE LH ENCODER B		Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO

Is the inspection result normal?

- YES >> GO TO 7.
NO >> GO TO 4.

4. CHECK ENCODER POWER SUPPLY

- Turn ignition switch OFF.
- Disconnect spindle unit LH connector.
- Check voltage between spindle unit LH harness connector and ground.

(+)		(-)	Voltage (Approx.)
Spindle unit LH			
Connector	Terminal		
B38	3	Ground	12.7 V

Is the inspection result normal?

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

5. CHECK ENCODER CIRCUIT

- Disconnect automatic back door control unit connector.
- Check continuity between automatic back door control unit harness connector and spindle unit LH harness connector.

Automatic back door control unit		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B24	19	B38	3	Existed

- Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	19		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).
NO >> Repair or replace harness.

6. CHECK ENCODER CIRCUIT 2

- Disconnect automatic back door control unit connector.
- Check continuity between automatic back door control unit harness connector and spindle unit LH harness connector.

Automatic back door control unit		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B24	21	B38	6	Existed

- Check continuity between automatic back door control unit harness connector and ground.

B2426 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	21		Not existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

8. REPLACE SPINDLE UNIT

1. Replace spindle unit
2. Erase DTC.
3. Perform DTC confirmation procedure for DTC 2426. Refer to [DLK-449, "DTC Description"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

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B2427 ENCODER

DTC Description

INFOID:000000010717497

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2427	SPINDLE SENSOR RH (Spindle sensor right handle)	When the automatic back door control unit can not receive the pulse signal from the encoder just after starting the open/close operation

POSSIBLE CAUSE

- Improper installation of back door assembly
- [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete
- Back door mechanism
- Encoder
- Harness or connectors (encoder circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-452, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717498

1. CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

1. Perform initialization setting of automatic back door position information.
Refer to [DLK-427, "Work Procedure"](#).
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
- NO >> INSPECTION END

2. CHECK INSTALLATION OF BACK DOOR ASSEMBLY

1. Check that back door assembly is installed normally.
Refer to [DLK-601, "BACK DOOR ASSEMBLY : Adjustment"](#).
2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3. CHECK ENCODER SIGNAL

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "SPINDLE RH ENCODER A" and "SPINDLE RH ENCODER B" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

B2427 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Monitor item	Condition		Status
SPINDLE RH ENCODER A	Back door	Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO
SPINDLE RH ENCODER B		Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

4.CHECK ENCODER POWER SUPPLY

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

(+)		(-)	Voltage (Approx.)
Spindle unit RH			
Connector	Terminal		
B29	3	Ground	12.3 V

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK ENCODER CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit RH harness connector.

Automatic back door control unit		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B24	20	B29	3	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	20		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK ENCODER CIRCUIT 2

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit RH harness connector.

Automatic back door control unit		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B24	21	B29	6	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

B2427 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	21		Not existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

8. REPLACE SPINDLE UNIT

1. Replace spindle unit
2. Erase DTC.
3. Perform DTC confirmation procedure for DTC 2427. Refer to [DLK-452, "DTC Description"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

B2428 AUTOMATIC BACK DOOR CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

B2428 AUTOMATIC BACK DOOR CONTROL UNIT

DTC Description

INFOID:000000010717499

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2428	AUTO BACK DR CNT UNIT (Auto back door control unit)	Automatic back door control unit detected CPU malfunction

POSSIBLE CAUSE

Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-455. "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-44. "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717500

1.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

When DTC B2428 is detected, replace automatic back door control unit.

>> Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).

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B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

B242A CLOSURE CONDITION

DTC Description

INFOID:000000010717501

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B242A	CLSR CONDITION (Closure condition)	Automatic back door control unit detects malfunctions of open switch, close switch and half latch switch when auto closure of back door operates

POSSIBLE CAUSE

- Entry of foreign materials to back door lock assembly
- Back door mechanism
- Close switch
- Half latch switch
- Open switch
- Harness or connectors (open or shorted)
- Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate back door auto closure operation.
3. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-456, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717502

1. CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

Check for entry of foreign materials in back door lock assembly.

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Remove foreign materials.

2. CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3. CHECK MONITOR ITEM

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "HALF LATCH SW", "OPEN SW" and "CLOSE SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Monitor item	Condition	Status
HALF LATCH SW	Fully closed	OFF
	Open	ON
OPEN SW	Closure operation	ON
	Other than above	OFF
CLOSE SW	Closure operation	ON
	Other than above	OFF

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 4.

4.CHECK SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)		
Back door lock assembly					
Connector	Terminal	Ground	Voltage (Approx.)		
D172	4			Ground	12.2 V
	5				12.2 V
	6	12 V			

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	3	D172	6	Existed
	5		5	
	11		4	

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	3	Ground	Not existed
	5		
	11		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK SWITCH GROUND CIRCUIT

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

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Back door lock assembly		Ground	Continuity
Connector	Terminal		Existed
D172	8		

Is the inspection result normal?

YES >> GO TO 7.

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

7. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace harness.

8. REPLACE BACK DOOR LOCK ASSEMBLY

1. Replace back door lock assembly.
2. Erase DTC.
3. Perform DTC confirmation procedure for DTC 242A. Refer to [DLK-456, "DTC Description"](#).

Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

B242B HANDS FREE DETECT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

B242B HANDS FREE DETECT SENSOR

DTC Description

INFOID:000000010717503

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B242B	DETECT SENSOR POWER SUPPLY (Detect sensor power supply)	An excessive high voltage from hands free sensor power supply is sent to automatic back door control unit.

POSSIBLE CAUSE

- Hands free sensor
- Harness or connector (hands free sensor power supply circuit is open or shorted)
- Automatic back door control unit

FAIL-SAFE

Hands free sensor power supply: ON→OFF

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-459, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717504

1. CHECK HANDS FREE POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic back door control unit connector and hands free sensor connector.
3. Check continuity between automatic back door control unit harness connector and hands free sensor harness connector.

Automatic back door control unit		Hands free sensor		Continuity
Connector	Terminal	Connector	Terminal	
B25	30	D170	1	Existed

4. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B25	30		Not existed

Is the inspection result normal?

- YES >> Replace hands free sensor.
- NO >> Repair or replace harness.

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B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

B2621 INSIDE ANTENNA

DTC Description

INFOID:000000010717505

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2621-00	INSIDE ANTENNA (Inside antenna)	An excessive high or low voltage from inside key antenna (instrument center) is sent to BCM.

POSSIBLE CAUSE

- BCM
- Inside key antenna (instrument center)
- Harness or connector [inside key antenna (instrument center) circuit is open or shorted]

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
3. Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "WORK SUPPORT" of "INTELLIGENT KEY".
4. Check BCM for DTC.

Is inside key antenna DTC detected?

- YES >> Refer to [DLK-460, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717506

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M86	116	Ground	When Intelligent Key is not in the antenna detection area	
			When Intelligent Key is in the antenna detection area	
	117		When Intelligent Key is not in the antenna detection area	
			When Intelligent Key is in the antenna detection area	

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Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
- NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and inside key antenna (instrument center) connector.
3. Check continuity between BCM harness connector and inside key antenna (instrument center) harness connector.

BCM		Inside key antenna (instrument center)		Continuity
Connector	Terminal	Connector	Terminal	
M86	116	M17	2	Existed
	117		1	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	116		Not existed
	117		

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B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M86	116	Ground	When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMMIA1652GB</p>
			When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMMIA1653GB</p>
	117		When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1348GB</p>
			When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1406GB</p>

Is the inspection result normal?

YES >> Replace inside key antenna (instrument center).

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

B2622 INSIDE ANTENNA

DTC Description

INFOID:000000010717507

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detecting condition
B2622-00	INSIDE ANTENNA (Inside antenna)	An excessive high or low voltage from inside key antenna (luggage room) is sent to BCM

POSSIBLE CAUSE

- BCM
- Inside key antenna (luggage room)
- Harness or connector [inside key antenna (luggage room) circuit is open or shorted]

FAIL-SAFE

-

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
3. Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "WORK SUPPORT" of "INTELLIGENT KEY".
4. Check BCM for DTC.

Is inside key antenna DTC detected?

- YES >> Refer to [DLK-463, "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717508

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

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B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
B47	22	Ground	Ignition switch ON and any door is open	When Intelligent Key is not in the antenna detection area
				When Intelligent Key is in the antenna detection area
	23			When Intelligent Key is not in the antenna detection area
				When Intelligent Key is in the antenna detection area

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).
- NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and inside key antenna (luggage room) connector.
3. Check continuity between BCM harness connector and inside key antenna (luggage room) harness connector.

BCM		Inside key antenna (luggage room)		Continuity
Connector	Terminal	Connector	Terminal	
B47	22	B35	2	Existed
	23		1	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B47	22		Not existed
	23		

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace inside key antenna (luggage room). (New antenna or other antenna)
2. Connect BCM connector and inside key antenna (luggage room) connector.
3. Turn ignition switch ON.
4. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
B47	22	Ground	When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMMIA1652GB</p>
			When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMMIA1653GB</p>
	23		When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1507GB</p>
			When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JSMIA1506GB</p>

Is the inspection result normal?

YES >> Replace inside key antenna (luggage room).

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

U1000 CAN COMM CIRCUIT

DTC Description

INFOID:000000010717509

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-41, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart"](#).

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
U1000	CAN COMM (CAN communication)	When automatic back door control unit cannot communicate CAN communication signal continuously for 2 seconds or more.

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn the ignition switch OFF.
2. Turn the ignition switch ON and wait for 2 seconds or more.
3. Check "Self Diagnostic Result" of "AUTO BACK DOOR".

s DTC "U1000" displayed?

- YES >> Refer to [DLK-466, "Diagnosis Procedure"](#).
NO-1 >> To check malfunction symptom before repair: Refer to [GI-44, "Intermittent Incident"](#).
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717510

1.PERFORM SELF DIAGNOSTIC

1. Turn the ignition switch OFF.
2. Turn the ignition switch ON and wait for 2 seconds or more.
3. Check "Self Diagnostic Result" of "AUTO BACK DOOR".

s DTC "U1000" displayed?

- YES >> Refer to [LAN-17, "Trouble Diagnosis Flow Chart"](#).
NO >> Refer to [GI-44, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

U1010 CONTROL UNIT (CAN)

DTC Description

INFOID:000000010717511

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
U1010	CONTROL UNIT (CAN) [Control unit (CAN)]	Automatic back door control unit detected internal CAN communication circuit malfunction

POSSIBLE CAUSE

Automatic back door control unit

FAIL-SAFE

Inhibit automatic back door operation

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn the ignition switch OFF.
2. Turn the ignition switch ON and wait for 2 seconds or more.
3. Check "Self Diagnostic Result" of "AUTO BACK DOOR".

s DTC "U1000" displayed?

- YES >> Refer to [DLK-467. "Diagnosis Procedure"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-44. "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:000000010717512

1. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

When DTC U1010 is detected, replace automatic back door control unit.

- >> Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).

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AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

AUTOMATIC BACK DOOR CLOSE SWITCH

Component Function Check

INFOID:000000010717513

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "BK DOOR CL SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
BK DOOR CL SW	Automatic back door close switch	Pressed
		Released
		ON
		OFF

Is the inspection result normal?

- YES >> Automatic back door close switch is OK.
NO >> Refer to [DLK-468. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717514

1.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect automatic back door close switch connector.
3. Check voltage between automatic back door close switch harness connector and ground.

(+)		(-)	Voltage (Approx.)
Connector	Terminal		
D173	1	Ground	12.6 V

Is the inspection result normal?

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

2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door close switch harness connector.

Automatic back door control unit		Automatic back door close switch		Continuity
Connector	Terminal	Connector	Terminal	
B24	23	D173	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	23		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH GROUND CIRCUIT

Check continuity between automatic back door close switch harness connector and ground.

AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Automatic back door close switch		Ground	Continuity
Connector	Terminal		Existed
D173	2		

Is the inspection result normal?

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

4.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Refer to [DLK-469. "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Replace automatic back door close switch.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010717515

1.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

1. Turn ignition switch OFF.
2. Disconnect automatic back door close switch connector.
3. Check continuity between automatic back door close switch terminals.

Automatic back door close switch		Condition		Continuity
Terminal		Automatic back door close switch	Pressed	Existed
1	2		Released	Not existed

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace automatic back door close switch.

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AUTOMATIC BACK DOOR SWITCH

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

AUTOMATIC BACK DOOR SWITCH

Component Function Check

INFOID:000000010717516

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "AUTO BD SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
AUTO BD SW	Automatic back door switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

- YES >> Automatic back door switch is OK.
NO >> Refer to [DLK-470. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717517

1.CHECK AUTOMATIC BACK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect automatic back door switch connector.
3. Check voltage between automatic back door switch harness connector and ground.

(+)		(-)	Voltage (Approx.)
Connector	Terminal		
M58	1	Ground	12.6 V

Is the inspection result normal?

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

2.CHECK AUTOMATIC BACK DOOR SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door switch harness connector.

Automatic back door control unit		Automatic back door switch		Continuity
Connector	Terminal	Connector	Terminal	
B24	22	M58	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	22		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR SWITCH GROUND CIRCUIT

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

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Automatic back door switch		Ground	Continuity
Connector	Terminal		Existed
M58	2		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR SWITCH

Refer to [DLK-471, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door switch.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010717518

1.CHECK AUTOMATIC BACK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect automatic back door switch connector.
3. Check continuity between automatic back door switch terminals.

Automatic back door switch		Condition	Continuity
Terminal			Existed
1	2	Automatic back door switch Pressed	Existed
		Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door switch.

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AUTOMATIC DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

AUTOMATIC DOOR MAIN SWITCH

Component Function Check

INFOID:000000010717519

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "MAIN SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
MAIN SW	Automatic door main switch	ON	ON
		OFF	OFF

Is the inspection result normal?

- YES >> Automatic door main switch is OK.
NO >> Refer to [DLK-472. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717520

1.CHECK AUTOMATIC BACK DOOR MAIN SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect automatic back door main switch connector.
3. Check voltage between automatic back door main switch harness connector and ground.

(+)		(-)	Voltage (Approx.)
Connector	Terminal		
M54	1	Ground	12.2 V

Is the inspection result normal?

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

2.CHECK AUTOMATIC BACK DOOR MAIN SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door main switch harness connector.

Automatic back door control unit		Automatic back door main switch		Continuity
Connector	Terminal	Connector	Terminal	
B24	10	M54	1	Existed

3. Check continuity between automatic back door control unit connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	10		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR MAIN SWITCH GROUND CIRCUIT

Check continuity between automatic back door main switch connector and ground.

AUTOMATIC DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Automatic back door main switch		Ground	Continuity
Connector	Terminal		Existed
M54	3		

Is the inspection result normal?

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

4.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Refer to [DLK-473. "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Replace automatic back door main switch.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010717521

1.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

1. Turn ignition switch OFF.
2. Disconnect automatic back door main switch connector.
3. Check continuity between automatic back door main switch terminals.

Automatic back door main switch		Condition	Continuity
Terminal			Existed
1	3	Automatic back door main switch ON	Existed
		Automatic back door main switch OFF	Not existed

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace automatic back door main switch.

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AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

AUTOMATIC BACK DOOR WARNING BUZZER

Diagnosis Procedure

INFOID:000000010717522

1. CHECK AUTOMATIC BACK DOOR WARNING BUZZER POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic back door warning buzzer connector.
3. Check voltage between automatic back door warning buzzer harness connector and ground.

(+)		(-)	Voltage (Approx.)
Automatic back door warning buzzer Connector	Terminal		
B28	1	Ground	12 V

Is the inspection result normal?

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

2. CHECK AUTOMATIC BACK DOOR WARNING BUZZER OUTPUT SIGNAL CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door warning buzzer harness connector.

Automatic back door control unit		Automatic back door warning buzzer		Continuity
Connector	Terminal	Connector	Terminal	
B25	37	B28	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B25	37		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

Check continuity between automatic back door warning buzzer harness connector and ground.

Automatic back door warning buzzer		Ground	Continuity
Connector	Terminal		
B28	2		Existed

Is the inspection result normal?

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

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#)

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).
NO >> Repair or replace the malfunctioning parts.

Component Inspection

INFOID:000000010717523

1. CHECK AUTOMATIC BACK DOOR WARNING BUZZER

AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

1. Turn ignition switch OFF.
2. Disconnect automatic back door warning buzzer connector.
3. Check battery power supply directly to automatic back door warning buzzer terminals and check the operation.

Automatic back door warning buzzer		Operation
Terminal		
(+)	(-)	
1	2	Buzzer sounds

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace automatic back door warning buzzer.

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BACK DOOR CLOSURE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

BACK DOOR CLOSURE MOTOR

Diagnosis Procedure

INFOID:000000010717524

1. CHECK BACK DOOR CLOSURE MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door lock assembly connector.
3. Turn ignition switch ON.
4. Check voltage between back door lock assembly harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)	
Back door lock assembly					
Connector	Terminal				
D172	1	Ground	Back door closure motor	Closure operation	13 V
				Other than above	0 V
	2			Closure operation	13 V
				Other than above	0 V

Is the inspection result normal?

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

2. CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B25	31	D172	1	Existed
	38		2	

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B25	31		Not existed
	38		

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

BACK DOOR SWITCH

Component Function Check

INFOID:000000010717528

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR SW-BK" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-BK	Back door	Open	On
		Closed	Off

Is the inspection result normal?

- YES >> Back door switch is OK.
NO >> Refer to [DLK-477, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717529

1.CHECK BACK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door lock assembly connector.
3. Check signal between back door lock assembly harness connector and ground using oscilloscope.

(+)		(-)	Voltage
Back door lock assembly Connector	Terminal		
D172	7	Ground	9 – 16 V

Is the inspection result normal?

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

2.CHECK BACK DOOR SWITCH CIRCUIT

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

Back door lock assembly		BCM		Continuity
Connector	Terminal	Connector	Terminal	
D172	7	B47	11	Existed

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D172	7		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK BACK DOOR SWITCH GROUND CIRCUIT

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

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BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D172	8		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR SWITCH

Refer to [DLK-478, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010717530

1.CHECK BACK DOOR SWITCH

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

Back door lock assembly		Condition	Continuity
Terminal			
7	8	Back door lock	Lock Existed
			Unlock Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

BACK DOOR OPENER SWITCH

Component Function Check

INFOID:000000010717532

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "TRUNK" of "BCM" using CONSULT.
3. Select "BACK DOOR OPENER SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
BACK DOOR OPENER SW	Back door opener switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

- YES >> Back door opener switch is OK.
NO >> Refer to [DLK-479. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717533

1.CHECK BACK DOOR OPEN INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door opener switch assembly connector.
3. Check voltage between back door opener switch assembly harness connector and ground.

(+)		(-)	Voltage
Back door opener switch assembly	Connector		
	Terminal	Ground	9 – 16 V
D169	1		

Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

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

BCM		Back door opener switch assembly		Continuity
Connector	Terminal	Connector	Terminal	
B47	16	D169	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B47	16		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

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BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Back door opener switch assembly		Ground	Continuity
Connector	Terminal		
D169	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR OPENER SWITCH

Refer to [DLK-480, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010717534

1.CHECK BACK DOOR OPENER SWITCH

1. Turn ignition switch OFF.
2. Disconnect back door opener switch assembly connector.
3. Check continuity between back door opener switch assembly terminals.

Back door opener switch assembly		Condition	Continuity
Terminal			
1	2	Back door opener switch Pressed	Existed
		Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch assembly.

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

BACK DOOR REQUEST SWITCH

Description

INFOID:0000000010717535

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:0000000010717536

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
3. Select "REQ SW BD/TR" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
REQ SW -BD/TR	Back door request switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

- YES >> Back door request switch is OK.
NO >> Refer to [DLK-481, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010717537

1.CHECK BCM OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door opener switch assembly connector.
3. Check voltage between back door opener switch assembly harness connector and ground.

(+)		(-)	Voltage
Back door opener switch assembly			
Connector	Terminal		
D169	4	Ground	9 – 16 V

Is the inspection result normal?

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

2.CHECK BACK DOOR REQUEST SWITCH CIRCUIT

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

BCM		Back door opener switch assembly		Continuity
Connector	Terminal	Connector	Terminal	
B47	6	D169	4	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B47	6		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK BACK DOOR REQUEST SWITCH GROUND CIRCUIT

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BACK DOOR REQUEST SWITCH

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

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

Back door opener switch assembly		Ground	Continuity
Connector	Terminal		
D169	3		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR REQUEST SWITCH

Refer to [DLK-482. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010717538

1.CHECK BACK DOOR REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect back door opener switch assembly connector.
3. Check back door opener switch assembly terminals.

Back door opener switch assembly		Condition	Continuity
Terminal			
4	3	Back door opener request switch	Pressed Existed
			Released Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch assembly.

CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

CLOSE SWITCH

Component Function Check

INFOID:000000010717539

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "CLOSE SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CLOSE SW	Back door	Closure operation	ON
		Other than above	OFF

Is the inspection result normal?

YES >> Close switch is OK.

NO >> Refer to [DLK-483. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717540

1.CHECK CLOSE SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal	Ground	12.2 V
D172	5		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK CLOSE SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	5	D172	5	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	5		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK CLOSE SWITCH GROUND CIRCUIT

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

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CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Back door lock assembly		Ground	Continuity
Connector	Terminal		Existed
D172	8		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

COMBINATION METER BUZZER

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION METER BUZZER

Component Function Check

INFOID:000000010717541

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
3. Select "INSIDE BUZZER" in "ACTIVE TEST" mode.
4. Touch "Buzzer 1", "Buzzer 2" or "Buzzer 3" to check that it works normally.

Is the inspection result normal?

Yes >> Combination meter buzzer is OK.

No >> Refer to [DLK-485, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717542

1.CHECK METER BUZZER CIRCUIT

Refer to [WCS-54, "Component Function Check"](#).

Is the inspection result normal?

Yes >> GO TO 2.

No >> Repair or replace harness.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

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DOOR LOCK ACTUATOR

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:000000010717543

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-486, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000010717544

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check voltage between front door lock assembly (driver side) harness connector and ground.

(+)		(-)	Condition	Voltage
Front door lock assembly (driver side)				
Connector	Terminal			
D9	1	Ground	Door lock and unlock switch	Lock
	2			Unlock
				9 – 16 V

Is the inspection result normal?

YES >> Replace front door lock assembly (driver side).

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M85	141	D9	1	Existed
	148		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	141		Not existed
	148		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

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

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

(+)		(-)	Condition	Voltage
BCM				
Connector	Terminal			
M85	141	Ground	Door lock and unlock switch	Lock
	148			Unlock
9 – 16 V				

Is the inspection result normal?

YES >> Check for internal short of front door lock actuator.

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:000000010717545

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-487, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010717546

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (passenger side) connector.
3. Check voltage between front door lock assembly (passenger side) harness connector and ground.

(+)		(-)	Condition	Voltage
Front door lock assembly (passenger side)				
Connector	Terminal			
D48	5	Ground	Door lock and unlock switch	Lock
	6			Unlock
9 – 16 V				

Is the inspection result normal?

YES >> Replace front door lock assembly (passenger side).

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M85	139	D48	6	Existed
	141		5	

3. Check continuity between BCM harness connector and ground.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

BCM		Ground	Continuity
Connector	Terminal		
M85	139		
	141		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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

(+) BCM		(-)	Condition	Voltage
Connector	Terminal			
M85	139	Ground	Door lock and unlock switch	9 – 16 V
	141		Unlock Lock	

Is the inspection result normal?

YES >> Check for internal short of front door lock actuator.

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

REAR LH

REAR LH : Component Function Check

INFOID:000000010717547

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-488, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000010717548

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly LH connector.
3. Check voltage between rear door lock assembly LH harness connector and ground.

(+) Rear door lock assembly LH		(-)	Condition	Voltage
Connector	Terminal			
D85	1	Ground	Door lock and unlock switch	9 – 16 V
	2		Lock Unlock	

Is the inspection result normal?

YES >> Replace rear door lock assembly LH.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

BCM		Rear door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	
B46	124	D85	2	Existed
	125		1	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B46	124		Not existed
	125		

Is the inspection result normal?

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

3.CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition	Voltage
BCM				
Connector	Terminal			
B46	124	Ground	Door lock and unlock switch	9 – 16 V
	125		Unlock	
			Lock	

Is the inspection result normal?

- YES >> Check for internal short of rear door lock actuator.
NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

REAR RH

REAR RH : Component Function Check

INFOID:000000010717549

DLK

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
NO >> Refer to [DLK-489, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000010717550

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly RH connector.
3. Check voltage between rear door lock assembly RH harness connector and ground.

(+)		(-)	Condition	Voltage
Rear door lock assembly RH				
Connector	Terminal			
D105	5	Ground	Door lock and unlock switch	9 – 16 V
	6		Lock	
			Unlock	

DOOR LOCK ACTUATOR

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace rear door lock assembly RH.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Rear door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	
B46	124	D105	6	Existed
	125		5	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B46	124		Not existed
	125		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition		Voltage
BCM					
Connector	Terminal				
B46	124	Ground	Door lock and unlock switch	Unlock	9 – 16 V
	125		Lock		

Is the inspection result normal?

YES >> Check for internal short of rear door lock actuator.

NO >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

DOOR LOCK AND UNLOCK SWITCH

Component Function Check

INFOID:000000010717551

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "CDL LOCK SW", "CDL UNLOCK SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
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 (driver door) is OK.
 NO >> Refer to [DLK-491, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717552

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect power window main switch connector.
3. Check voltage between power window main switch harness connector and ground.

(+)		(-)	Voltage
Connector	Terminal		
D5	3	Ground	9 – 16 V
	15		

Is the inspection result normal?

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

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and power window main switch harness connector.

BCM		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
M87	50	D5	3	Existed
	80		15	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M87	50		Not existed
	80		

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
 NO >> Repair or replace harness.

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace power window main switch. Refer to [PWC-74. "POWER WINDOW MAIN SWITCH : Removal and Installation"](#).
- NO >> Repair or replace the malfunctioning parts.

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

DOOR REQUEST SWITCH

Component Function Check

INFOID:000000010717553

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
3. Select "REQ SW-DR", "REQ SW-AS" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
REQ SW -DR	Driver side door request switch	Pressed	ON
		Released	OFF
REQ SW -AS	Passenger side door request switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

YES >> Front door request switch is OK.

NO >> Refer to [DLK-493, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717554

1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning front door outside handle assembly connector.
3. Check voltage between malfunctioning front door outside handle assembly harness connector and ground.

(+)		Terminal	(-)	Voltage
Front door outside handle assembly				
Connector	Terminal			
Driver side	D33	3	Ground	9 – 16 V
Passenger side	D34			

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between malfunctioning front door outside handle assembly harness connector and BCM harness connector.

Front door outside handle assembly		Terminal	BCM		Continuity
Connector	Terminal		Connector	Terminal	
Driver side	D33	3	M86	105	Existed
Passenger side	D34			82	

3. Check continuity between malfunctioning front door outside handle assembly harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	105		Not existed
	82		

DOOR REQUEST SWITCH

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between malfunctioning front door outside handle assembly harness connector and ground.

Front door outside handle assembly		Terminal	Ground	Continuity
Connector				Continuity
Driver side	D33	4		Existed
Passenger side	D34			

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR REQUEST SWITCH

Refer to [DLK-494, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door outside handle grip.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010717555

1.CHECK DOOR REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning front outside handle assembly connector.
3. Check continuity between malfunctioning front outside handle assembly terminals.

Front outside handle assembly		Condition	Continuity	
Terminal			Continuity	
3	4	Door request switch	Pressed	Existed
			Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front outside handle grip.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

DOOR SWITCH

Component Function Check

INFOID:000000010717556

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL" and "DOOR SW-RR" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-DR	Driver side door	Open	ON
		Closed	OFF
DOOR SW-AS	Passenger side door	Open	ON
		Closed	OFF
DOOR SW-RL	Rear door LH	Open	ON
		Closed	OFF
DOOR SW-RR	Rear door RH	Open	ON
		Closed	OFF

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [DLK-495, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717557

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check voltage between malfunctioning door switch harness connector and ground using oscilloscope.

(+)		Terminal	(-)	Voltage
Door switch				
Connector	Terminal	3	Ground	9 – 16 V
Driver side	B34			
Passenger side	B27			
Rear LH	B71			
Rear RH	B53			

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

Door switch		Terminal	BCM		Continuity
Connector	Terminal		Connector	Terminal	
Driver side	B34	3	B47	17	Existed
Passenger side	B27			13	
Rear LH	B71			12	
Rear RH	B53			10	

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

3. Check continuity between door switch harness connector and ground.

Door switch		Terminal	Ground	Continuity
Connector				3
Driver side	B34	3	Ground	Not existed
Passenger side	B27			
Rear LH	B71			
Rear RH	B53			

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR SWITCH

Refer to [DLK-496, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010717558

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check continuity between door switch terminals.

Door switch			Condition	Continuity	
Terminal					
Driver side	3	Ground part of door switch	Door switch	Pressed	Not existed
Passenger side			Released	Existed	
			Pressed	Not existed	
Rear LH			Released	Existed	
			Pressed	Not existed	
Rear RH			Released	Existed	
			Pressed	Not existed	
					Released

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

HALF LATCH SWITCH

Component Function Check

INFOID:000000010717559

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "HALF LATCH SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
HALF LATCH SW	Back door	Fully closed	OFF
		Open	ON

Is the inspection result normal?

YES >> Half latch switch is OK.

NO >> Refer to [DLK-497. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717560

1. CHECK HALF LATCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal		
D172	6	Ground	12 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	3	D172	6	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	3		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK HALF LATCH SWITCH GROUND CIRCUIT

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

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HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Back door lock assembly		Ground	Continuity
Connector	Terminal		Existed
D172	8		

Is the inspection result normal?

YES >> GO TO 4.

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

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

HANDS FREE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

HANDS FREE SENSOR

Component Function Check

INFOID:000000010717561

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "DETECT SENSOR PWR" and "DETECT SENSOR SIG 1" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DETECT SENSOR PWR	<ul style="list-style-type: none"> Automatic back door main switch: ON Shift position: P position Back door: Fully closed 		ON
	Other than above		OFF
DETECT SENSOR SIG 1	Hands free sensor	ON (auto open operation start)	ON
		Other than above	OFF

Is the inspection result normal?

- YES >> Hands free sensor is OK.
 NO >> Refer to [DLK-499. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717562

1.CHECK HANDS FREE SENSOR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect hands free sensor connector.
3. Check voltage between hands free sensor harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Hands free sensor				
Connector	Terminal			
D170	1	Ground	<ul style="list-style-type: none"> Automatic back door main switch: ON Shift position: P position Back door: Fully closed 	12.2 V
			Other than above	0 V

Is the inspection result normal?

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

2.CHECK HANDS FREE SENSOR POWER SUPPLY CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and hands free sensor harness connector.

Automatic back door control unit		Hands free sensor		Continuity
Connector	Terminal	Connector	Terminal	
B25	30	D170	1	Existed

3. Check continuity between automatic back door control unit connector and ground.

HANDS FREE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B25	30		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK HANDS FREE SENSOR GROUND CIRCUIT

Check continuity between hands free sensor connector and ground.

Hands free sensor		Ground	Continuity
Connector	Terminal		
D170	3		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK HANDS FREE SENSOR CANCEL SIGNAL

1. Connect hands free sensor connector.
2. Check voltage between automatic back door main switch harness connector and ground.

Automatic back door main switch		(-)	Condition	Voltage (Approx.)
Connector	Terminal			
M54	5			

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK HANDS FREE SENSOR CANCEL SIGNAL CIRCUIT

1. Disconnect automatic back door main switch connector.
2. Check continuity between automatic back door main switch harness connector and hands free sensor harness connector.

Automatic back door main switch		Hands free sensor		Continuity
Connector	Terminal	Connector	Terminal	
M54	5	D170	4	

3. Check continuity between automatic back door main switch connector and ground.

Automatic back door main switch		Ground	Continuity
Connector	Terminal		
M54	5		Not existed

Is the inspection result normal?

YES >> Replace hands free sensor.

NO >> Repair or replace harness.

6. CHECK AUTOMATIC BACK DOOR MAIN SWITCH GROUND CIRCUIT

Check continuity between automatic back door main switch connector and ground.

HANDS FREE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Automatic back door main switch		Ground	Continuity
Connector	Terminal		Existed
M54	3		

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK HANDS FREE SENSOR OUTPUT SIGNAL

1. Disconnect hands free sensor connector.
2. Check voltage between hands free sensor harness connector and ground.

(+)		(-)	Voltage
Hands free sensor			
Connector	Terminal		
D170	2	Ground	9 – 16 V

Is the inspection result normal?

YES >> GO TO 9.

NO >> GO TO 8.

8. CHECK HANDS FREE SENSOR CANCEL SIGNAL CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and hands free sensor harness connector.

BCM		Hands free sensor		Continuity
Connector	Terminal	Connector	Terminal	
B47	9	D170	2	Existed

3. Check continuity between BCM connector and ground.

Automatic back door main switch		Ground	Continuity
Connector	Terminal		Not existed
B47	9		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

9. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

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< DTC/CIRCUIT DIAGNOSIS >

HAZARD FUNCTION

Component Function Check

INFOID:000000010717563

1.CHECK FUNCTION

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
2. Select "FLASHER" in "ACTIVE TEST" mode.
3. Touch "LH" or "RH" to check that it works normally.

Is the inspection result normal?

- YES >> Hazard warning lamp circuit is OK.
NO >> Refer to [DLK-502, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717564

1.CHECK HAZARD OPERATION

Refer to [EXL-36, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Refer to [EXL-176, "Symptom Table"](#).

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

INFORMATION DISPLAY

Component Function Check

INFOID:000000010717565

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
3. Select "INDICATOR" in "ACTIVE TEST" mode.
4. Touch "KEY ON" or "KEY IND" to check that it works normally.

Is the inspection result normal?

- YES >> Information display is OK.
- NO >> Refer to [DLK-503, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717566

1.CHECK COMBINATION METER

Refer to [MWI-84, "On Board Diagnosis Function"](#).

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace the malfunctioning parts.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

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INTELLIGENT KEY BATTERY

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

INTELLIGENT KEY BATTERY

Component Inspection

INFOID:000000010717567

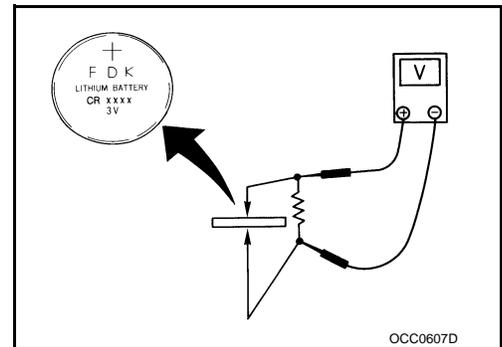
1. CHECK INTELLIGENT KEY BATTERY

Check by connecting a resistance (approximately 300 Ω) so that the current value becomes about 10 mA. Refer to [DLK-631, "Removal and Installation"](#).

Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

- YES >> INSPECTION END
- NO >> Replace Intelligent Key battery.



INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

INTELLIGENT KEY WARNING BUZZER

Component Function Check

INFOID:000000010717568

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
3. Select "OUTSIDE BUZZER" in "ACTIVE TEST" mode.
4. Touch "On" to check that it works normally.

Is the inspection result normal?

- YES >> Intelligent Key warning buzzer is OK.
NO >> Refer to [DLK-505, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717569

1.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.

(+)		(-)	Condition	Voltage
Intelligent Key warning buzzer Connector	Terminal			
E25	1	Ground	Buzzer ON	9 – 16 V

Is the inspection result normal?

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

2.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT

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

BCM		Intelligent Key warning buzzer		Continuity
Connector	Terminal	Connector	Terminal	
E23	164	E25	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
E23	164		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK INTELLIGENT KEY WARNING BUZZER

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

Intelligent Key warning buzzer		Ground	Continuity
Connector	Terminal		
E25	3		Existed

Is the inspection result normal?

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

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INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

Is the inspection result normal?

- YES >> Replace Intelligent Key warning buzzer.
- NO >> Repair or replace malfunctioning parts

OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

OPEN SWITCH

Component Function Check

INFOID:000000010717570

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "OPEN SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
OPEN SW	Back door	Closure operation	ON
		Other than above	OFF

Is the inspection result normal?

YES >> Open switch is OK.

NO >> Refer to [DLK-507. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010717571

1.CHECK OPEN SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal	Ground	12.2 V
D172	4		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK OPEN SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	11	D172	4	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	11		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK OPEN SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly connector and ground.

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OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D172	8		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

OUTSIDE KEY ANTENNA DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:000000010717572

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M86	100	Ground	Intelligent Key is outside the vehicle	<p>JSMIA1348GB</p>
			Intelligent Key is inside the vehicle	<p>JSMIA1406GB</p>
	120		Intelligent Key is outside the vehicle	<p>JMMIA1652GB</p>
			Intelligent Key is inside the vehicle	<p>JMMIA1653GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
 NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and front door outside handle assembly (driver side) connector.
- Check continuity between BCM harness connector and front door outside handle assembly (driver side) harness connector.

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OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

BCM		Front door outside handle assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M86	100	D33	1	Existed
	120		2	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	100		Not existed
	120		

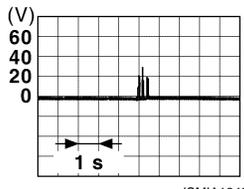
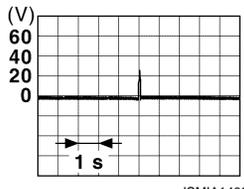
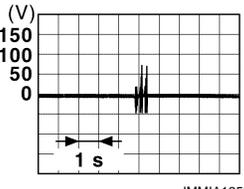
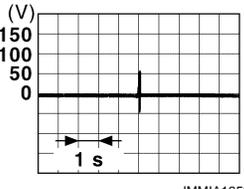
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace front door outside handle grip. (New antenna or other antenna)
2. Connect BCM connector and front door outside handle assembly (driver side) connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)	
BCM					
Connector	Terminal				
M86	100	Ground	Ignition switch ON and any door is open	Intelligent Key is outside the vehicle	 <p style="text-align: right; font-size: small;">JSMIA1348GB</p>
	100		Intelligent Key is inside the vehicle	 <p style="text-align: right; font-size: small;">JSMIA1406GB</p>	
	120		Intelligent Key is outside the vehicle	 <p style="text-align: right; font-size: small;">JMMIA1652GB</p>	
	120		Intelligent Key is inside the vehicle	 <p style="text-align: right; font-size: small;">JMMIA1653GB</p>	

Is the inspection result normal?

OUTSIDE KEY ANTENNA

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace front door outside handle grip.
- NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

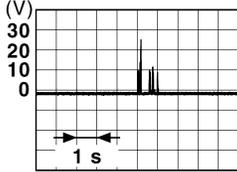
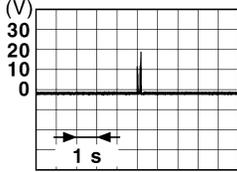
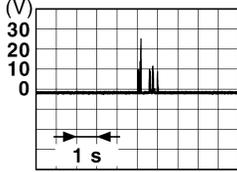
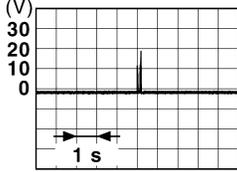
PASSENGER SIDE

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010717573

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M86	118	Ground	Ignition switch ON and any door is open	Intelligent Key is outside the vehicle  <p style="text-align: right; font-size: small;">JSMIA1507GB</p>
	119			Intelligent Key is inside the vehicle  <p style="text-align: right; font-size: small;">JSMIA1506GB</p>
	118			Intelligent Key is outside the vehicle  <p style="text-align: right; font-size: small;">JSMIA1507GB</p>
	119			Intelligent Key is inside the vehicle  <p style="text-align: right; font-size: small;">JSMIA1506GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
- NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and front door outside handle assembly (passenger side) connector.
3. Check continuity between BCM harness connector and front door outside handle assembly (passenger side) harness connector.

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

BCM		Front door outside handle assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M86	118	D34	2	Existed
	119		1	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	118		Not existed
	119		

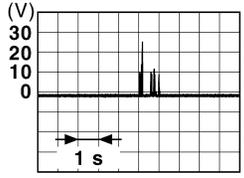
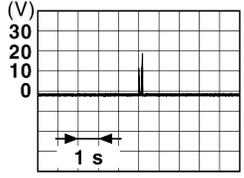
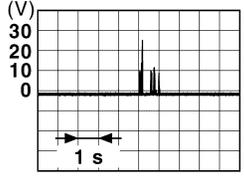
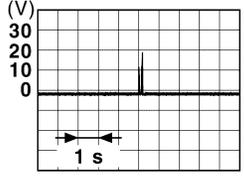
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace front door outside handle grip. (New antenna or other antenna)
2. Connect BCM connector and front door outside handle assembly (passenger side) connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M86	118	Ground	Ignition switch ON and any door is open	 <p style="text-align: right; font-size: small;">JSMIA1507GB</p>
	118		Ignition switch ON and any door is open	 <p style="text-align: right; font-size: small;">JSMIA1506GB</p>
	119		Ignition switch ON and any door is open	 <p style="text-align: right; font-size: small;">JSMIA1507GB</p>
	119		Ignition switch ON and any door is open	 <p style="text-align: right; font-size: small;">JSMIA1506GB</p>

OUTSIDE KEY ANTENNA

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace front door outside handle grip.

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

REAR BUMPER

REAR BUMPER : Diagnosis Procedure

INFOID:000000010717574

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
B47	21	Ground	Intelligent Key is outside the vehicle	<p>JMMIA1652GB</p>
			Intelligent Key is inside the vehicle	<p>JMMIA1653GB</p>
	24		Intelligent Key is outside the vehicle	<p>JSMIA1507GB</p>
			Intelligent Key is inside the vehicle	<p>JSMIA1506GB</p>

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and outside key antenna (rear bumper) connector.
3. Check continuity between BCM harness connector and outside key antenna (rear bumper) harness connector.

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

BCM		Outside key antenna (rear bumper)		Continuity
Connector	Terminal	Connector	Terminal	
B47	21	B32	2	Existed
	24		1	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B47	21		Not existed
	24		

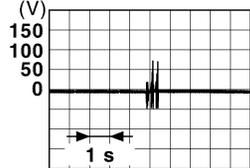
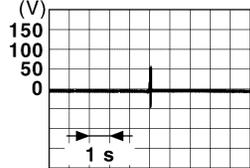
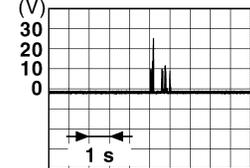
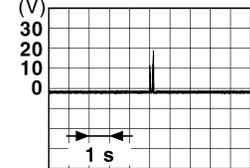
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna (rear bumper). (New antenna or other antenna)
2. Connect BCM and outside key antenna (rear bumper) connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

(+)		(-)	Condition	Signal (Reference value)	
BCM					
Connector	Terminal				
B47	21	Ground	Ignition switch ON and any door is open	Intelligent Key is outside the vehicle	 <p style="text-align: right; font-size: small;">JMMIA1652GB</p>
	21		Intelligent Key is inside the vehicle	 <p style="text-align: right; font-size: small;">JMMIA1653GB</p>	
	24		Intelligent Key is outside the vehicle	 <p style="text-align: right; font-size: small;">JSMIA1507GB</p>	
	24		Intelligent Key is inside the vehicle	 <p style="text-align: right; font-size: small;">JSMIA1506GB</p>	

Is the inspection result normal?

OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

- YES >> Replace outside key antenna (rear bumper).
- NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

POWER SUPPLY AND GROUND CIRCUIT FRONT DOOR LOCK

FRONT DOOR LOCK : Diagnosis Procedure

INFOID:000000010717575

1.CHECK FUSE

Check that the following fuse is not fusing.

Signal name	Fuse No.
Front door lock actuator power supply	5 (20 A)

Is the fuse fusing?

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 BCM connector.
3. Check voltage between BCM harness connector and ground.

(+)		(-)	Voltage
BCM			
Connector	Terminal		
M85	143	Ground	9 – 16 V

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	146		Existed
	147		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

REAR DOOR LOCK

REAR DOOR LOCK : Diagnosis Procedure

INFOID:000000010717576

1.CHECK FUSE

Check that the following fuse is not fusing.

Signal name	Fuse No.
Rear door lock actuator power supply	3 (20 A)

Is the fuse fusing?

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 BCM connector.

POWER SUPPLY AND GROUND CIRCUIT

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

3. Check voltage between BCM harness connector and ground.

(+)		(-)	Voltage
BCM			
Connector	Terminal		
M85	151	Ground	9 – 16 V

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	146		Existed
	147		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

AUTOMATIC BACK DOOR CONTROL UNIT

AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:000000010717577

1.CHECK FUSIBLE LINK AND CIRCUIT BREAKER

Check that the following fuse and circuit breaker are not fusing.

Fusible link No.		Signal name
R9M engine models	T (30A)	Battery power supply
Except for R9M engine models	J (30A)	

Is the fuse fusing?

YES >> Replace the blown 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 automatic back door control unit connector.
3. Check voltage between automatic back door control unit harness connector and ground.

(+)		(-)	Voltage (Approx.)
Automatic back door control unit			
Connector	Terminal		
B25	25	Ground	13.6 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between automatic back door control unit harness connector and ground.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	16		Existed
B25	32		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

TOUCH SENSOR

RH

RH : Component Function Check

INFOID:0000000010717578

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "AUTO BACK DOOR" using CONSULT.
3. Select "TOUCH SEN RH" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TOUCH SEN RH	Touch sensor RH	Other than below	OFF
		Detect obstruction	ON

Is the inspection result normal?

- YES >> Touch sensor RH is OK.
NO >> Refer to [DLK-519. "RH : Diagnosis Procedure"](#).

RH : Diagnosis Procedure

INFOID:0000000010717579

1. CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect touch sensor RH connector.
3. Check voltage between touch sensor RH harness connector and ground.

(+)		(-)	Voltage (Approx.)
Touch sensor RH			
Connector	Terminal	Ground	6.1 V
D175	1		

Is the inspection result normal?

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

2. CHECK TOUCH SENSOR RH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor RH harness connector.

Automatic back door control unit		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B24	1	D175	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	1		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK TOUCH SENSOR RH GROND CIRCUIT

1. Disconnect automatic back door control unit and touch sensor LH connector.

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TOUCH SENSOR

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

- Check continuity between automatic back door control unit harness connector and touch sensor RH harness connector.

Automatic back door control unit		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B24	13	D175	2	Existed

- Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	13		Not existed

Is the inspection result normal?

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

4.CHECK TOUCH SENSOR RH

Refer to [DLK-520, "RH : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
 NO >> Replace touch sensor RH.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

RH : Component Inspection

INFOID:000000010717580

1.CHECK TOUCH SENSOR RH

- Turn ignition switch OFF.
- Disconnect touch sensor RH connector.
- Check resistance between touch sensor RH terminals.

Touch sensor RH		Condition	Resistance (Approx.)
Terminal			
1	2	Touch sensor RH	380 – 420 kΩ
			0.95 – 1.05 kΩ

Is the inspection result normal?

- YES >> INSPECTION END
 NO >> Replace touch sensor RH.

LH

LH : Component Function Check

INFOID:000000010717581

1.CHECK FUNCTION

- Turn ignition switch ON.
- Select "AUTO BACK DOOR" using CONSULT.
- Select "TOUCH SEN LH" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TOUCH SEN LH	Touch sensor LH	Other than below	OFF
		Detect obstruction	ON

TOUCH SENSOR

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Touch sensor LH is OK.
 NO >> Refer to [DLK-521, "LH : Diagnosis Procedure"](#).

LH : Diagnosis Procedure

INFOID:000000010717582

1. CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect touch sensor LH connector.
3. Check voltage between touch sensor LH harness connector and ground.

(+)		(-)	Voltage (Approx.)
Touch sensor LH			
Connector	Terminal		
D174	1	Ground	6.1 V

Is the inspection result normal?

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

2. CHECK TOUCH SENSOR LH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor LH harness connector.

Automatic back door control unit		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B24	2	D174	1	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	2		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).
 NO >> Repair or replace harness.

3. CHECK TOUCH SENSOR LH GROND CIRCUIT

1. Disconnect automatic back door control unit and touch sensor RH connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor LH harness connector.

Automatic back door control unit		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B24	13	D174	2	Existed

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B24	13		Not existed

Is the inspection result normal?

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

TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

4.CHECK TOUCH SENSOR LH

Refer to [DLK-522, "LH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace touch sensor LH.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

LH : Component Inspection

INFOID:000000010717583

1.CHECK TOUCH SENSOR LH

1. Turn ignition switch OFF.
2. Disconnect touch sensor LH connector.
3. Check resistance between touch sensor LH terminals.

Touch sensor LH		Condition	Resistance (Approx.)	
Terminal				
1	2	Touch sensor LH	Detect obstruction	380 – 420 kΩ
			Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace touch sensor LH.

SPINDLE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

SPINDLE MOTOR

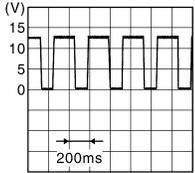
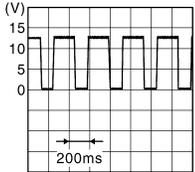
RH

RH : Diagnosis Procedure

INFOID:000000010717584

1. CHECK SPINDLE MOTOR INPUT SIGNAL

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

(+)		(-)	Condition	Voltage (Approx.)
Spindle unit RH				
Connector	Terminal			
B29	1	Ground	Auto open operation	12 V
			Auto close operation	
	Auto close operation		13.4 V	
	Auto open operation			

Is the inspection result normal?

- YES >> Replace spindle unit RH.
 NO >> GO TO 2.

2. CHECK SPINDLE MOTOR CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit harness connector.

Automatic back door control unit		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B25	29	B29	1	Existed
	36		2	

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B25	29		Ground
	36		

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

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SPINDLE MOTOR

[TYPE 2]

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

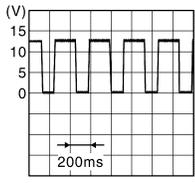
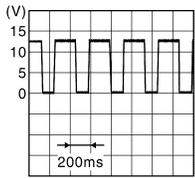
LH

LH : Diagnosis Procedure

INFOID:0000000010717585

1. CHECK SPINDLE MOTOR INPUT SIGNAL

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

(+)		(-)	Condition	Voltage (Approx.)	
Spindle unit LH					
Connector	Terminal				
B38	1	Ground	Back door	Auto open operation	12 V
				Auto close operation	 <p style="text-align: right; font-size: small;">JMK1B2776ZZ</p>
	Auto close operation			13.4 V	
	Auto open operation			 <p style="text-align: right; font-size: small;">JMK1B2776ZZ</p>	

Is the inspection result normal?

YES >> Replace spindle unit LH.

NO >> GO TO 2.

2. CHECK SPINDLE MOTOR CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and spindle unit LH harness connector.

Automatic back door control unit		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B25	27	B38	1	Existed
	34		2	

3. Check continuity between automatic back door control unit harness connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B25	27		Not existed
	34		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).

SPINDLE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

NO >> Repair or replace harness.

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UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

UNLOCK SENSOR

Diagnosis Procedure

INFOID:000000010717586

1. CHECK UNLOCK SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check voltage between front door lock assembly (driver side) harness connector and ground with oscilloscope.

(+)		(-)	Voltage
Front door lock assembly (driver side)			
Connector	Terminal		
D9	3	Ground	9 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK UNLOCK SENSOR CIRCUIT

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

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M86	104	D9	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	104		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK UNLOCK SENSOR GROUND CIRCUIT

Check continuity between front door lock assembly (driver side) harness connector and ground.

Front door lock assembly (driver side)		Ground	Continuity
Connector	Terminal		
D9	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK UNLOCK SENSOR

Refer to [DLK-527, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 2]

>> INSPECTION END

Component Inspection

INFOID:0000000010717587

1. CHECK UNLOCK SENSOR

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check continuity between front door lock assembly (driver side) terminals.

Front door lock assembly (driver side)		Condition		Continuity
Terminal				
3	4	Driver door	Unlock	Existed
			Lock	Not existed

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace front door lock assembly (driver side).

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ANTI-HIJACK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

SYMPTOM DIAGNOSIS

ANTI-HIJACK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010754945

1. CHECK "DOOR LOCK-UNLOCK SET" SETTING IN "WORK SUPPORT"

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" mode.
3. Check "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT"
Refer to [DLK-384, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\) \(With Intelligent Key System, Without Super Lock\)"](#).

Is the inspection result normal?

- YES >> GO TO 2
NO >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT".

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010717605

1. CHECK "AUTO LOCK SET" SETTING IN "WORK SUPPORT"

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
2. Select "AUTO LOCK SET" in "WORK SUPPORT" mode.
3. Check "AUTO LOCK SET" in "WORK SUPPORT".

Refer to [DLK-385, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\) \(Without Super Lock\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "MODE 2", "MODE 3", "MODE 4", "MODE 5", "MODE 6" or "MODE 7" in "AUTO LOCK SET".

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

ALL SWITCHES

ALL SWITCHES : Description

INFOID:0000000010717588

Automatic back door open/close function does not operate using all switches.

ALL SWITCHES : Diagnosis Procedure

INFOID:0000000010717589

1. CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL UNIT

Check that DTC is not detected with automatic back door control unit.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-398, "DTC Index"](#).

2. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check automatic back door control unit power supply and ground circuit.

Refer to [DLK-517, "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK BACK DOOR AUTO CLOSURE FUNCTION

Check back door auto closure function.

Does back door auto closure function operate with back door opener switch?

YES >> GO TO 4.

NO >> Refer to [DLK-538, "OPEN/CLOSURE FUNCTION : Diagnosis Procedure"](#).

4. CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Refer to [DLK-472, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK TOUCH SENSOR

Check touch sensor.

Refer to [DLK-520, "LH : Component Function Check"](#) (LH) and [DLK-519, "RH : Component Function Check"](#) (RH).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6. CHECK SPINDLE MOTOR

Check spindle motor.

Refer to [DLK-524, "LH : Diagnosis Procedure"](#) (LH) and [DLK-523, "RH : Diagnosis Procedure"](#) (RH).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

AUTOMATIC BACK DOOR SWITCH

AUTOMATIC BACK DOOR SWITCH : Description

INFOID:0000000010717590

Automatic back door open/close function does not operate using automatic back door switch.

AUTOMATIC BACK DOOR SWITCH : Diagnosis Procedure

INFOID:0000000010717591

1.CHECK AUTO CLOSE FUNCTION

Check auto close function using automatic back door close switch or Intelligent Key button operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-530. "ALL SWITCHES : Diagnosis Procedure"](#).

2.CHECK AUTOMATIC BACK DOOR SWITCH

Check automatic back door switch.

Refer to [DLK-470. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44. "Intermittent Incident"](#).

AUTOMATIC BACK DOOR CLOSE SWITCH

AUTOMATIC BACK DOOR CLOSE SWITCH : Description

INFOID:0000000010717592

Automatic back door open/close function does not operate using automatic back door close switch.

AUTOMATIC BACK DOOR CLOSE SWITCH : Diagnosis Procedure

INFOID:0000000010717593

1.CHECK AUTO OPEN/CLOSE FUNCTION

Check auto open/close function using automatic back door switch.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-530. "ALL SWITCHES : Diagnosis Procedure"](#).

2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Check automatic back door close switch.

Refer to [DLK-468. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-633. "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44. "Intermittent Incident"](#).

INTELLIGENT KEY

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AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

[TYPE 2]

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY : Description

INFOID:000000010717594

Automatic back door open/close function does not operate using Intelligent Key.

INTELLIGENT KEY : Diagnosis Procedure

INFOID:000000010717595

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.

NO >> Refer to [DLK-547, "Diagnosis Procedure"](#).

2.CHECK AUTO OPEN/CLOSE FUNCTION

Check auto open/close function using automatic back door switch.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to [DLK-530, "ALL SWITCHES : Diagnosis Procedure"](#).

3.REPLACE INTELLIGENT KEY

1. Replace Intelligent Key.
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> GO TO 4.

4.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : Description

INFOID:000000010717596

Automatic back door open/close function does not operate using back door opener switch.

BACK DOOR OPENER SWITCH : Diagnosis Procedure

INFOID:000000010717597

1.CHECK AUTO OPEN/CLOSE FUNCTION

Check auto open/close function using automatic back door switch.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-530, "ALL SWITCHES : Diagnosis Procedure"](#).

2.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-479, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

NO >> Check intermittent incident. Refer to [GI-44. "Intermittent Incident"](#).

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AUTOMATIC BACK DOOR HANDS FREE FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

AUTOMATIC BACK DOOR HANDS FREE FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010717598

1. RECONNECT BATTERY

1. Remove battery negative terminal.
2. Reconnect battery negative terminal.
3. Confirm the hands free function operation.

Is the inspection result normal?

- YES >> INSPECTION END
NO >> GO TO 2.

2. CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL UNIT

Check that DTC is not detected with automatic back door control unit.

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Refer to [DLK-398, "DTC Index"](#).

3. CHECK AUTO OPEN/CLOSE FUNCTION

Check auto open/close using Intelligent Key button operation.

Does auto open/close function operate with Intelligent Key button?

- YES >> GO TO 4.
NO >> Refer to [DLK-532, "INTELLIGENT KEY : Diagnosis Procedure"](#).

4. CHECK HANDS FREE SENSOR

Check hands free sensor.

Refer to [DLK-499, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5. REPLACE HANDS FREE SENSOR

1. Replace hands free sensor.
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
NO >> GO TO 6.

6. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
NO >> GO TO 7.

7. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE BUZZER

BUZZER : Description

INFOID:000000010717599

Automatic back door warning buzzer does not operate when automatic back door warning function are performed.

BUZZER : Diagnosis Procedure

INFOID:000000010717600

1. CHECK AUTOMATIC BACK DOOR WARNING BUZZER

Check automatic back door warning buzzer.
Refer to [DLK-474, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

< SYMPTOM DIAGNOSIS >

[TYPE 2]

AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

Diagnosis Procedure

INFOID:000000010717603

1. CHECK AUTOMATIC DOOR MAIN SWITCH

Check automatic door main switch.

Refer to [DLK-472, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010717604

1. CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL UNIT

Check that DTC is not detected with automatic back door control unit.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-398, "DTC Index"](#).

2. CHECK TOUCH SENSOR LH

Check touch sensor LH.

Refer to [DLK-520, "LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK TOUCH SENSOR RH

Check touch sensor RH.

Refer to [DLK-519, "RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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BACK DOOR AUTO CLOSURE FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

BACK DOOR AUTO CLOSURE FUNCTION DOES NOT OPERATE OPEN/CLOSURE FUNCTION

OPEN/CLOSURE FUNCTION : Description

INFOID:000000010717606

Back door auto closure function does not operate when back door opening and closing operations are performed.

OPEN/CLOSURE FUNCTION : Diagnosis Procedure

INFOID:000000010717607

1. CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL UNIT

Check that DTC is not detected with automatic back door control unit.

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Refer to [DLK-398, "DTC Index"](#).

2. CHECK OPEN SWITCH

Check open switch.

Refer to [DLK-507, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3. CHECK CLOSE SWITCH

Check close switch.

Refer to [DLK-483, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace the malfunctioning parts.

4. CHECK HALF LATCH SWITCH

Check half latch switch.

Refer to [DLK-497, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace the malfunctioning parts.

5. CHECK BACK DOOR CLOSURE MOTOR

Check back door closure motor.

Refer to [DLK-476, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Repair or replace the malfunctioning parts.

6. REPLACE BACK DOOR LOCK ASSEMBLY

1. Replace back door lock assembly.
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> GO TO 7.

7. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

BACK DOOR AUTO CLOSURE FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

CLOSURE FUNCTION

CLOSURE FUNCTION : Description

INFOID:0000000010717608

Back door auto closure function does not operate when back door closing operations are performed.

CLOSURE FUNCTION : Diagnosis Procedure

INFOID:0000000010717609

1. CHECK HALF LATCH SWITCH

Check half latch switch.

Refer to [DLK-497, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE BACK DOOR LOCK ASSEMBLY

1. Replace back door lock assembly.

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> GO TO 3.

3. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

1. Replace automatic back door control unit. Refer to [DLK-633, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 2]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Description

INFOID:0000000010717610

All doors do not lock/unlock using door lock and unlock switch.

ALL DOOR : Diagnosis Procedure

INFOID:0000000010717611

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check door lock and unlock power supply and ground circuit.

Refer to [DLK-516, "FRONT DOOR LOCK : Diagnosis Procedure"](#) (front door) and [DLK-516, "REAR DOOR LOCK : Diagnosis Procedure"](#) (rear door).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Refer to [DLK-491, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

FRONT DOOR

FRONT DOOR : Description

INFOID:0000000010717612

Front doors do not lock/unlock using door lock and unlock switch.

FRONT DOOR : Diagnosis Procedure

INFOID:0000000010717613

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check front door lock and unlock power supply and ground circuit.

Refer to [DLK-516, "FRONT DOOR LOCK : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK ACTUATOR

Check front door lock actuator.

Refer to [DLK-486, "DRIVER SIDE : Component Function Check"](#) (driver door).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 2]

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REAR DOOR

REAR DOOR : Description

INFOID:0000000010717614

Rear doors do not lock/unlock using door lock and unlock switch.

REAR DOOR : Diagnosis Procedure

INFOID:0000000010717615

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check rear doors lock and unlock power supply and ground circuit.
Refer to [DLK-516, "REAR DOOR LOCK : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator.

Refer to [DLK-488, "REAR LH : Component Function Check"](#) (LH).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000010717616

Driver door does not lock/unlock using door lock and unlock switch.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000010717617

1.CHECK DOOR LOCK ACTUATOR

Check front door lock actuator (driver door).

Refer to [DLK-486, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000010717618

Passenger door does not lock/unlock using door lock and unlock switch.

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 2]

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010717619

1.CHECK DOOR LOCK ACTUATOR

Check front door lock actuator (passenger door).

Refer to [DLK-487, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REAR LH

REAR LH : Description

INFOID:000000010717620

Rear LH door does not lock/unlock using door lock and unlock switch.

REAR LH : Diagnosis Procedure

INFOID:000000010717621

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator LH.

Refer to [DLK-488, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REAR RH

REAR RH : Description

INFOID:000000010717622

Rear RH door does not lock/unlock using door lock and unlock switch.

REAR RH : Diagnosis Procedure

INFOID:000000010717623

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator RH.

Refer to [DLK-489, "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 2]

NO >> Check intermittent incident. Refer to [GI-44. "Intermittent Incident"](#).

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DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

< SYMPTOM DIAGNOSIS >

[TYPE 2]

DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

Diagnosis Procedure

INFOID:000000010780998

1. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 2.

NO >> Refer to [DLK-540, "ALL DOOR : Diagnosis Procedure"](#).

2. CHECK UNLOCK SENSOR

Check unlock sensor.

Refer to [DLK-526, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 2]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

ALL DOOR REQUEST SWITCHES

ALL DOOR REQUEST SWITCHES : Description

INFOID:0000000010717624

All doors do not lock/unlock using all door request switches.

ALL DOOR REQUEST SWITCHES : Diagnosis Procedure

INFOID:0000000010717625

1. CHECK REMOTE KEYLESS ENTRY FUNCTION

Check door lock/unlock using Intelligent Key button operation.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.

NO >> Refer to [DLK-547, "Diagnosis Procedure"](#).

2. CHECK "LOCK/UNLOCK BY I-KEY" SETTING IN "WORK SUPPORT"

1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.

2. Select "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT" mode.

3. Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".

Refer to [DLK-385, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\) \(Without Super Lock\)"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "On" in "LOCK/UNLOCK BY I-KEY".

3. CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-495, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-460, "DTC Description"](#).

• Luggage room: Refer to [DLK-463, "DTC Description"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.

• Driver door : Refer to [DLK-509, "DRIVER SIDE : Diagnosis Procedure"](#).

• Passenger door : Refer to [DLK-511, "PASSENGER SIDE : Diagnosis Procedure"](#).

• Rear bumper: Refer to [DLK-513, "REAR BUMPER : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DRIVER SIDE DOOR REQUEST SWITCH

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 2]

DRIVER SIDE DOOR REQUEST SWITCH : Description

INFOID:000000010717626

All doors do not lock/unlock using front door request switch (driver door).

DRIVER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:000000010717627

1.CHECK DOOR REQUEST SWITCH

Check front door request switch (driver door).
Refer to [DLK-493, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (driver door).
Refer to [DLK-509, "DRIVER SIDE : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

PASSENGER SIDE DOOR REQUEST SWITCH

PASSENGER SIDE DOOR REQUEST SWITCH : Description

INFOID:000000010717628

All doors do not lock/unlock using front door request switch (passenger door).

PASSENGER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:000000010717629

1.CHECK PASSENGER SIDE DOOR REQUEST SWITCH

Check front door request switch (passenger door).
Refer to [DLK-493, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (passenger door).
Refer to [DLK-511, "PASSENGER SIDE : Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[TYPE 2]

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:000000010717630

1.CHECK INTELLIGENT KEY

For Intelligent Key that cannot be used for door lock and unlock, check that the Intelligent Key belongs to the vehicle to be checked.

Does the Intelligent Key belong to the vehicle to checked?

YES >> GO TO 2.

NO >> Check Intelligent Key button operation with registered Intelligent Key belonging to the vehicle.

2.CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning is operated.

Is the Intelligent Key low battery warning operated?

YES >> GO TO 6.

NO-1 >> With another registered Intelligent Key: GO TO 3.

NO-2 >> Without another registered Intelligent Key: GO TO 4.

3.CHECK INTELLIGENT KEY BUTTON OPERATION

Check that door lock and unlock can be performed by operating the buttons of another registered Intelligent Key.

Can door lock and unlock be performed with another registered Intelligent Key?

YES >> GO TO 4.

NO >> GO TO 7.

4.CHECK ENGINE START

While depressing the brake pedal, contact the backside of the Intelligent Key that cannot be used to perform door lock and unlock operation to the push-button ignition switch. Operate the push-button ignition switch, and check that the vehicle is in START status.

Is the vehicle in START status?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK INTELLIGENT KEY

Check the inside of the Intelligent Key for rust or corrosion by water. Simultaneously check the internal circuits for damage.

Is the vehicle in START status?

YES >> GO TO 6.

NO >> Replace Intelligent Key.

6.CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Refer to [DLK-504, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace Intelligent Key battery.

7.CHECK POWER DOOR LOCK OPERATION

Check door lock/unlock using door lock and unlock switch.

Does door lock/unlock using door lock and unlock switch?

YES >> GO TO 8.

NO >> Refer to [DLK-540, "ALL DOOR : Diagnosis Procedure"](#).

8.REPLACE INTELLIGENT KEY

1. Replace Intelligent Key.
2. Confirm the operation after replacement.

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DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[TYPE 2]

Is the result normal?

YES >> INSPECTION END

NO >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010717631

1.CHECK DOOR LOCK FUNCTION

Check door lock using door request switch.

Does door lock with door request switch?

YES >> GO TO 2.

NO >> Refer to [DLK-545, "ALL DOOR REQUEST SWITCHES : Diagnosis Procedure"](#).

2.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-505, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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HAZARD LAMP OPERATES WHEN AUTOMATIC BACK DOOR IS OPERATED

< SYMPTOM DIAGNOSIS >

[TYPE 2]

HAZARD LAMP OPERATES WHEN AUTOMATIC BACK DOOR IS OPERATED

Diagnosis Procedure

INFOID:000000010753249

1. CHECK AUTOMATIC BACK DOOR CONTROL UNIT GROUND CIRCUIT

Check automatic back door control unit ground circuit.

Refer to [DLK-517, "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE AUTOMATIC BACK DOOR CONTROL UNIT

Replace automatic back door control unit.

Refer to [DLK-633, "Removal and Installation"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010717632

1. CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)

NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2. CHECK INFORMATION DISPLAY

Check information display.

Refer to [DLK-503, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.

Refer to [DLK-504, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-460, "DTC Description"](#).

• Luggage room: Refer to [DLK-463, "DTC Description"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010717633

1. CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [BCS-78, "DTC Index"](#).

2. CHECK POWER DOOR LOCK OPERATION

Check door lock/unlock using door lock and unlock switch.

Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 3.

NO >> Refer to [DLK-540, "ALL DOOR : Diagnosis Procedure"](#).

3. CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to [DLK-495, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

KEY ID WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

KEY ID WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010717635

1. CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)

NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2. CHECK INFORMATION DISPLAY

Check information display.

Refer to [DLK-503, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-460, "DTC Description"](#).

• Luggage room: Refer to [DLK-463, "DTC Description"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

KEY REMINDER FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010717636

1. CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-495, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK UNLOCK SENSOR

Check unlock sensor.

Refer to [DLK-526, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK BACK DOOR SWITCH

Check back door switch.

Refer to [DLK-477, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-460, "DTC Description"](#).

• Luggage room: Refer to [DLK-463, "DTC Description"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

OFF POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

OFF POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010717637

1. CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)

NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2. CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to [DLK-495, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-485, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-505, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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P POSITION WARNING DOES NOT OPERATE

[TYPE 2]

< SYMPTOM DIAGNOSIS >

P POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010717639

1. CHECK DTC WITH BCM, TCM AND COMBINATION METER

Check that DTC is not detected with BCM, TCM and combination meter.

Is the inspection result normal?

- YES >> GO TO 2.
- NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)
- NO-2 >> Refer to [TM-288, "DTC Index"](#). (TCM)
- NO-3 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2. CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-485, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-505, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace the malfunctioning parts.

4. CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to [DLK-495, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace the malfunctioning parts.

5. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to [DLK-460, "DTC Description"](#).
- Luggage room: Refer to [DLK-460, "DTC Description"](#).

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Repair or replace the malfunctioning parts.

6. CHECK INFORMATION DISPLAY

Check information display.

Refer to [DLK-503, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 7.
- NO >> Repair or replace the malfunctioning parts.

7. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REMINDER FUNCTION DOES NOT OPERATE

[TYPE 2]

< SYMPTOM DIAGNOSIS >

REMINDER FUNCTION DOES NOT OPERATE DOOR REQUEST SWITCH

DOOR REQUEST SWITCH : Description

INFOID:0000000010754993

Reminder function does not operate using door request switch.

DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:0000000010754994

1.CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

- YES >> GO TO 2.
- NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)
- NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2.CHECK HAZARD FUNCTION

Check hazard function.

Refer to [DLK-502, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

INTELLIGENT KEY

INTELLIGENT KEY : Description

INFOID:0000000010754995

Reminder function does not operate using Intelligent Key.

INTELLIGENT KEY : Diagnosis Procedure

INFOID:0000000010754996

1.CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

- YES >> GO TO 2.
- NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)
- NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2.CHECK HAZARD FUNCTION

Check hazard function.

Refer to [DLK-502, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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TAKE AWAY WARNING DOES NOT OPERATE

[TYPE 2]

< SYMPTOM DIAGNOSIS >

TAKE AWAY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010717645

1. CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

- YES >> GO TO 2.
- NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)
- NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2. CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-485, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3. CHECK INFORMATION DISPLAY

Check information display.

Refer to [DLK-503, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace the malfunctioning parts.

4. CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-495, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace the malfunctioning parts.

5. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-505, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Repair or replace the malfunctioning parts.

6. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to [DLK-460, "DTC Description"](#).
- Luggage room: Refer to [DLK-463, "DTC Description"](#).

Is the inspection result normal?

- YES >> GO TO 7.
- NO >> Repair or replace the malfunctioning parts.

7. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

UNLOCK LINK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 2]

UNLOCK LINK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010754946

1. CHECK DRIVER SIDE OR PASSENGER SIDE DOOR SWITCH

Check driver side or passenger side door switch.
Refer to [DLK-495, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

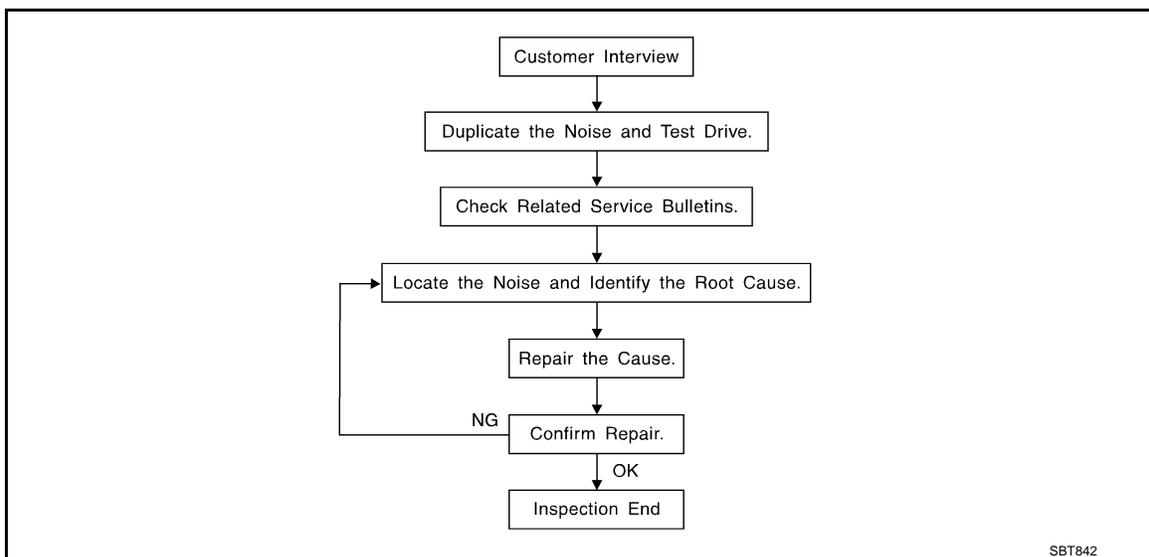
< SYMPTOM DIAGNOSIS >

[TYPE 2]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000010717647



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-564, "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 >

[TYPE 2]

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-562, "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 >

[TYPE 2]

INFOID:000000010717648

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 >

[TYPE 2]

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 >

[TYPE 2]

Diagnostic Worksheet

INFOID:000000010717649



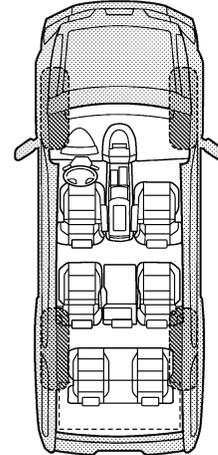
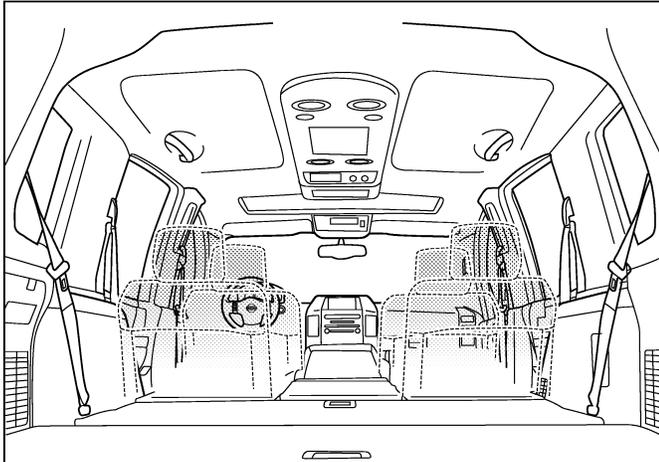
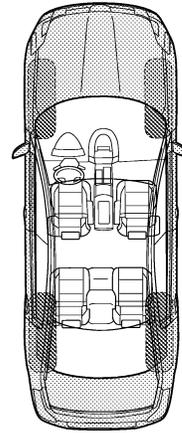
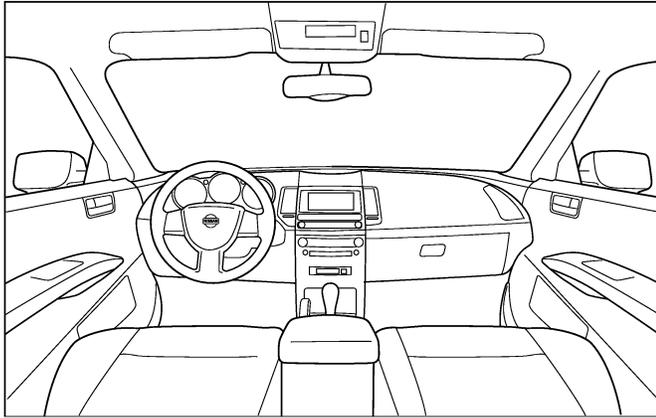
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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 >

[TYPE 2]

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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HOOD

< REMOVAL AND INSTALLATION >

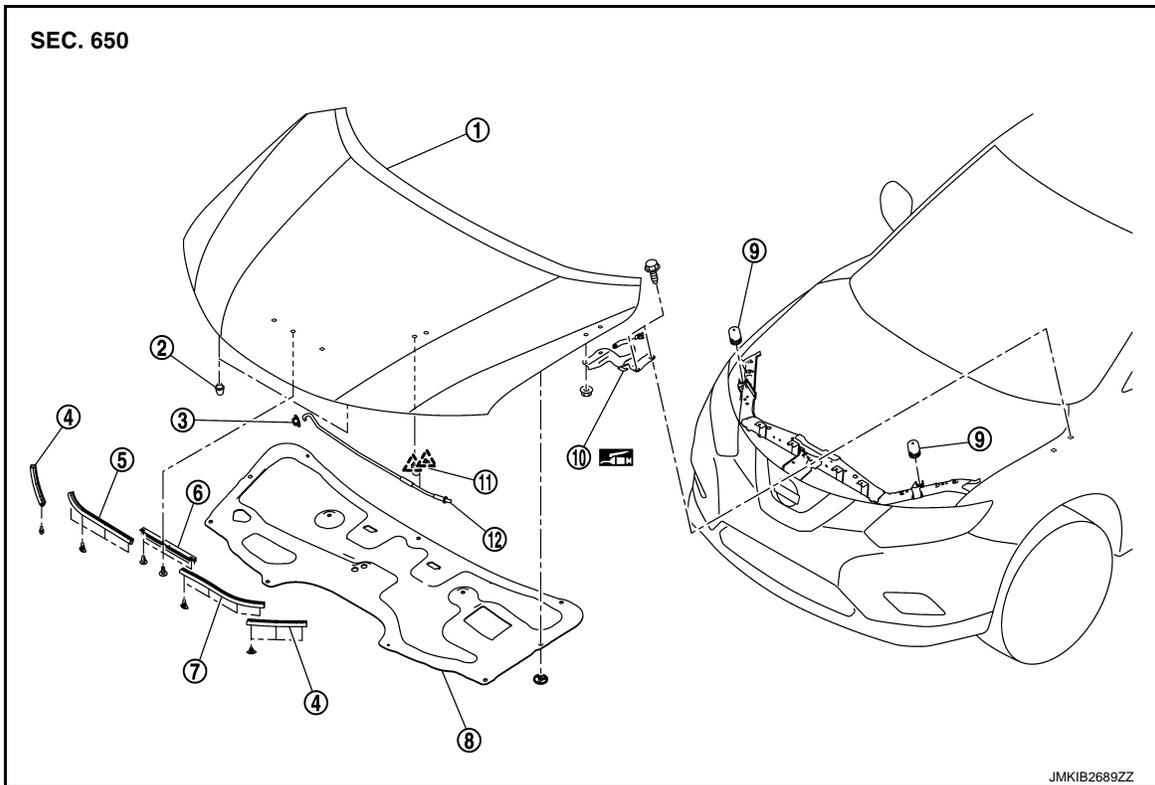
[TYPE 2]

REMOVAL AND INSTALLATION

HOOD

Exploded View

INFOID:0000000010728105



- | | | |
|-------------------------|-------------------------|----------------------|
| ① Hood assembly | ② Bumper rubber | ③ Hood rod grommet |
| ④ Radiator core seal | ⑤ Radiator core seal RH | ⑥ Radiator core seal |
| ⑦ Radiator core seal LH | ⑧ Hood insulator | ⑨ Hood bumper rubber |
| ⑩ Hood hinge | ⑪ Hood rod clamp | ⑫ Hood support rod |

 : Pawl

 : Body grease

HOOD ASSEMBLY

HOOD ASSEMBLY : Removal and Installation

INFOID:0000000010728106

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- Use protective tape or shop cloth to protect from damage during removal and installation.

REMOVAL

1. Support hood assembly with the proper material to prevent it from falling.

WARNING:

Injury may occur if hood assembly is not supported with appropriate material when removing hood assembly.

2. Remove hood assembly mounting nuts, and then remove hood assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

HOOD

[TYPE 2]

< REMOVAL AND INSTALLATION >

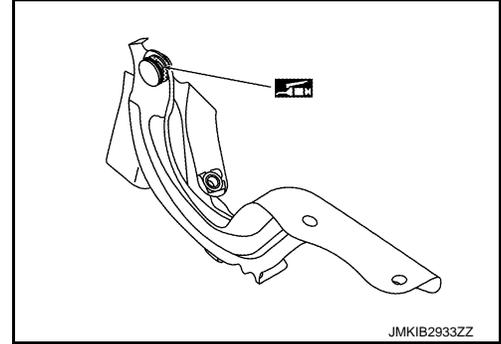
- Before installation of hood, apply anticorrosive agent onto the mounting surface of the hood hinge.
- After installing, perform hood fitting adjustment. Refer to [DLK-567, "HOOD ASSEMBLY : Adjustment"](#).
- Apply touch-up paint to the body color if the paint around the hinge is peeled off during removal.
- After installation, check that hood opens and closes normally. Refer to [DLK-567, "HOOD ASSEMBLY : Inspection"](#).

HOOD ASSEMBLY : Inspection

INFOID:000000010728107

1. Open and close the hood. Check that hood hinge rotation portion moves smoothly.
2. Check hood hinge rotating part for poor lubrication. If necessary, apply grease.

 : Body grease



INFOID:000000010728108

HOOD ASSEMBLY : Adjustment

FITTING ADJUSTMENT

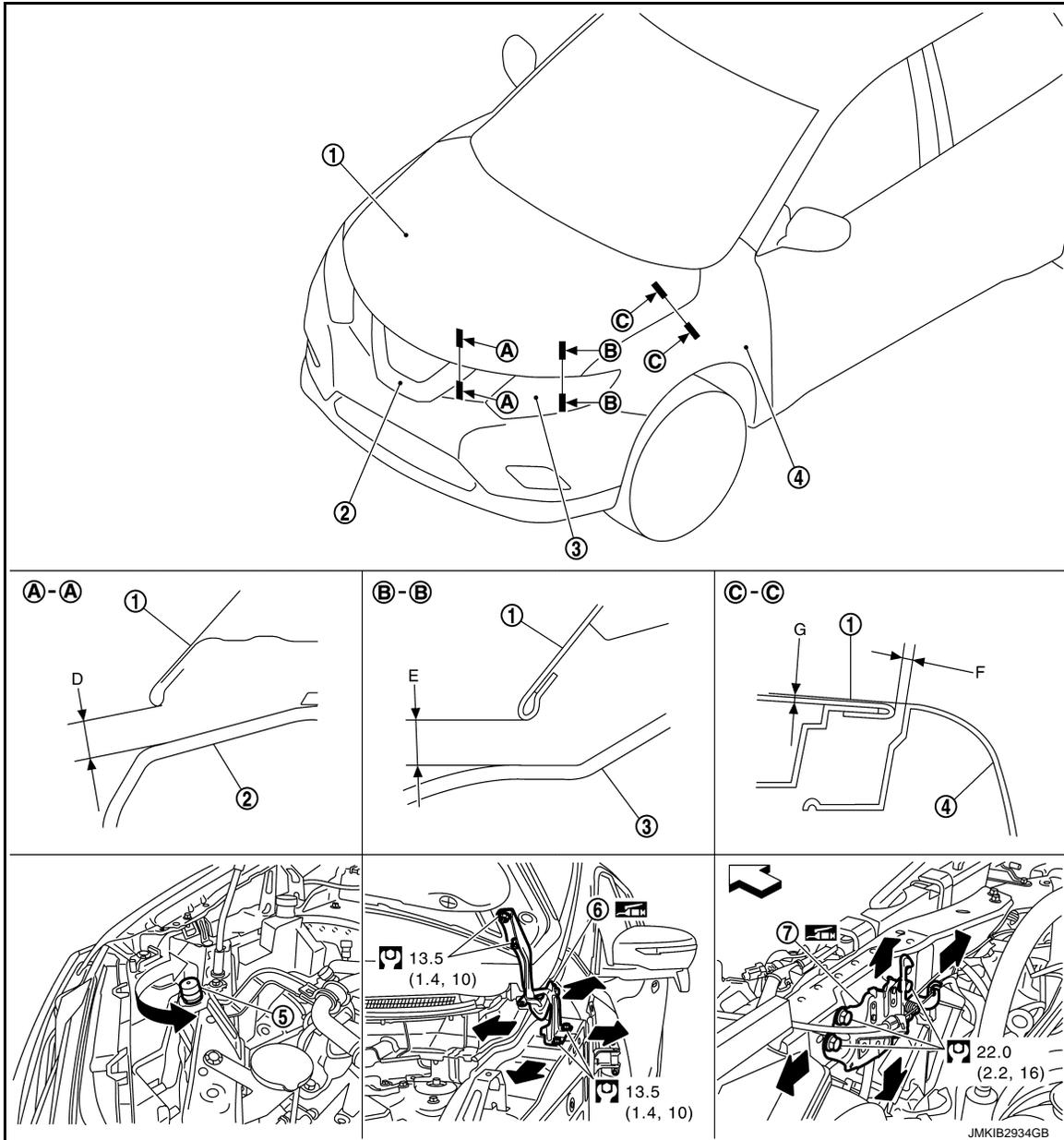
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DLK

HOOD

< REMOVAL AND INSTALLATION >

[TYPE 2]



- ① Hood assembly
- ② Front grille
- ③ Front combination lamp
- ④ Front fender
- ⑤ Hood bumper rubber
- ⑥ Hood hinge
- ⑦ Hood lock assembly

← : Vehicle front

 : N·m (kg-m, ft-lb)

 : Body grease

Fitting Adjustment Standard

Check the clearance and the surface height between hood and each part by visually and touching.

If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

HOOD

< REMOVAL AND INSTALLATION >

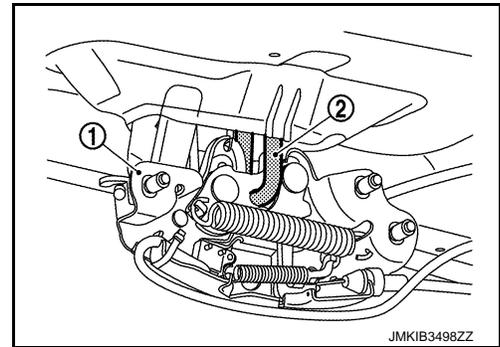
[TYPE 2]

Unit: mm [in]

Portion			Standard	Difference (RH/LH, MAX)
Hood – Front grille	Ⓐ – Ⓐ	D	7.2 – 11.2 [0.283 – 0.441]	—
Hood – Front combination lamp	Ⓑ – Ⓑ	E	7.0 – 11.0 [0.276 – 0.433]	—
Hood – Front fender	Ⓒ – Ⓒ	F	2.5 – 4.5 [0.098 – 0.177]	< 1.4 [0.055]
		G	(-1.0) – (+1.0) [(-0.039) – (+0.039)]	< 1.4 [0.055]

Fitting Adjustment Procedure

1. Remove hood lock assembly mounting bolts, and then remove hood lock assembly.
2. Adjust the surface height of hood assembly according to the specified value by rotating hood bumper rubber.
3. Loosen hood hinge mounting bolts, and then adjust clearance of hood according to the specified value by moving the hood assembly.
4. Tighten hood hinge mounting bolts to the specified torque.
5. Install hood lock assembly and temporarily tighten hood lock assembly mounting bolts, and then position hood lock assembly ① and engage primary striker ②. Check hood lock assembly and primary striker for looseness.



6. Move hood lock assembly laterally until the center of primary striker and hood lock assembly are vertical when viewed from the front.
7. Tighten hood lock assembly mounting bolts to the specified torque.
8. After adjusting, check that hood opens and closes normally. Refer to [DLK-606. "HOOD LOCK : Inspection"](#).

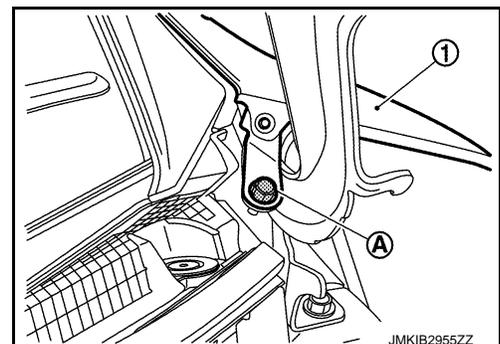
HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:000000010728109

REMOVAL

1. Remove hood assembly. Refer to [DLK-566. "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove upper mounting bolt Ⓐ of front fender assembly ①.



HOOD

[TYPE 2]

< REMOVAL AND INSTALLATION >

3. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the hood hinge.
- After installation, perform hood fitting adjustment. Refer to [DLK-567, "HOOD ASSEMBLY : Adjustment"](#).
- Apply touch-up paint to the body color if the paint around the hinge is peeled off during removal.
- After installation, check that hood opens and closes normally. Refer to [DLK-567, "HOOD ASSEMBLY : Inspection"](#).

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Removal and Installation

INFOID:0000000010728110

CAUTION:

2 workers are required to support the hood.

REMOVAL

1. Support hood assembly with a suitable material to prevent it from falling.

WARNING:

Injury may occur if hood assembly is not supported by the proper material when removing hood assembly.

2. Pull hood support rod from grommet and remove it.

INSTALLATION

Install in the reverse order of removal.

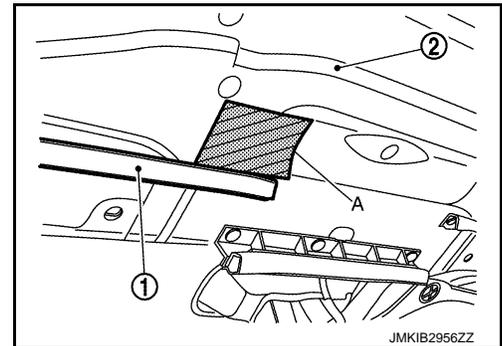
RADIATOR CORE SEAL

RADIATOR CORE SEAL : Removal and Installation

INFOID:0000000010728111

REMOVAL

1. Apply protective tape (A) to hood assembly ② around radiator core seal ① fixing clips for preventing damage.

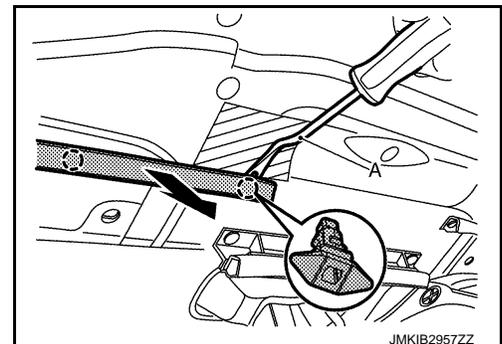


2. Disengage fixing clips on the reverse side of radiator core seal using a remover tool (A).

CAUTION:

Never damage hood assembly.

○ : Clip



3. Remove radiator core seal from hood assembly.

INSTALLATION

HOOD

[TYPE 2]

< REMOVAL AND INSTALLATION >

Install in the reverse order of removal.

HOOD INSULATOR

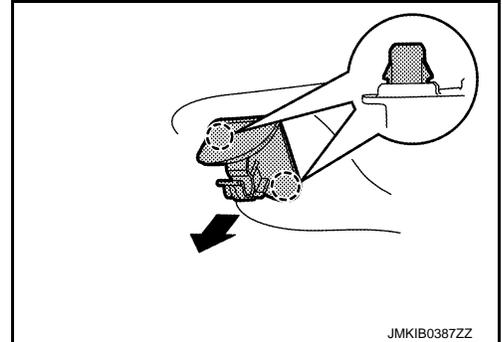
HOOD INSULATOR : Removal and Installation

INFOID:000000010728112

REMOVAL

1. Remove hood rod clamp from hood assembly.

 : Clip



2. Remove hood insulator fixing clips, and then remove hood insulator from hood assembly.

INSTALLATION

Install in the reverse order of removal.

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RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

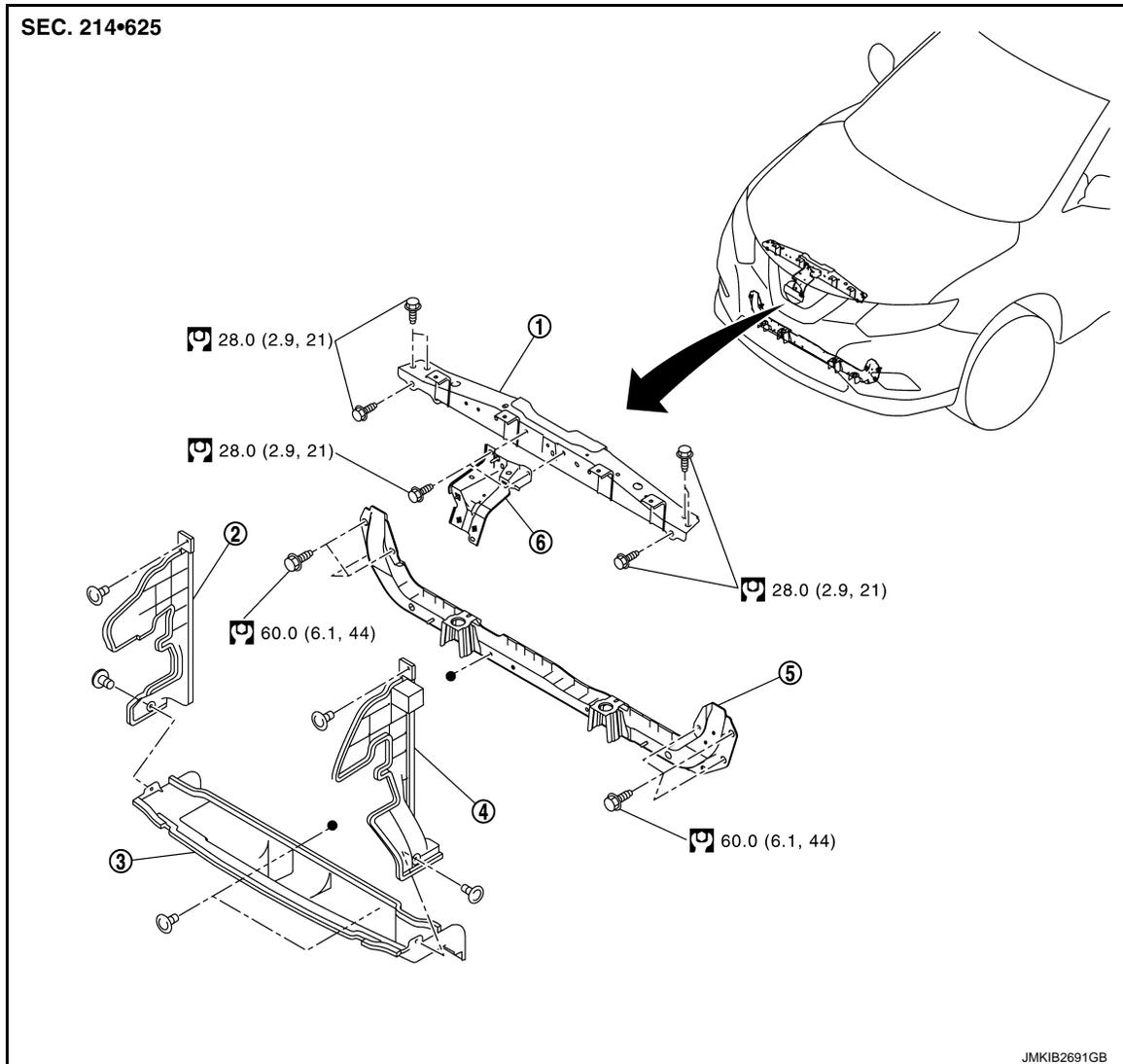
[TYPE 2]

RADIATOR CORE SUPPORT

MR20DD

MR20DD : Exploded View

INFOID:000000010728113



- | | | |
|-------------------------------|-------------------------------|--------------------------|
| ① Radiator core support upper | ② Air guide RH | ③ Air lower guide |
| ④ Air guide LH | ⑤ Radiator core support lower | ⑥ Hood lock support stay |

 : N·m (kg·m, ft·lb)

●: Indicates that the part is connected at points with same symbol in actual vehicle.

MR20DD : Removal and Installation

INFOID:000000010728114

RADIATOR CORE SUPPORT UPPER

Removal

1. Remove air duct 1. Refer to [EM-31, "Removal and Installation"](#).
2. Remove front grille assembly. Refer to [EXT-22, "Removal and Installation"](#).
3. Remove hood lock assembly. Refer to [DLK-605, "HOOD LOCK : Removal and Installation"](#).
4. Remove hood lock control cable fixing clips from radiator core support upper. Refer to [DLK-605, "Exploded View"](#).

DLK-572

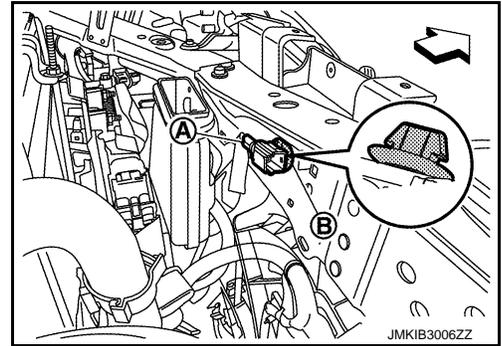
RADIATOR CORE SUPPORT

[TYPE 2]

< REMOVAL AND INSTALLATION >

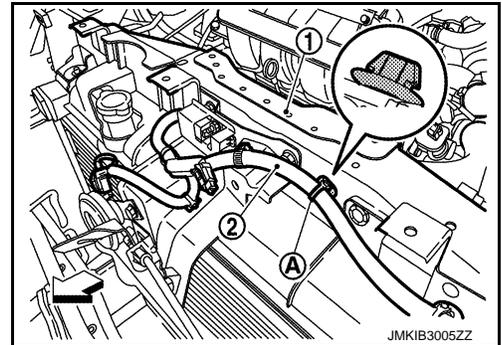
5. Remove fixing clip ② of engine room harness connector ①.

⇐ : Vehicle front



6. Remove fixing clip ① of engine room harness ② from radiator core support upper ③.

⇐ : Vehicle front



7. Remove crash zone sensor. Refer to [SR-31, "Removal and Installation"](#).
8. Remove hood lock support stay mounting bolts, and then move hood lock support stay to a location where it does not inhibit work.
9. Remove radiator mounting bracket fixing clips. Refer to [CO-17, "Exploded View"](#).
10. Remove radiator core support upper mounting bolts, and then remove radiator core support upper.

Installation

Install in the reverse order of removal.

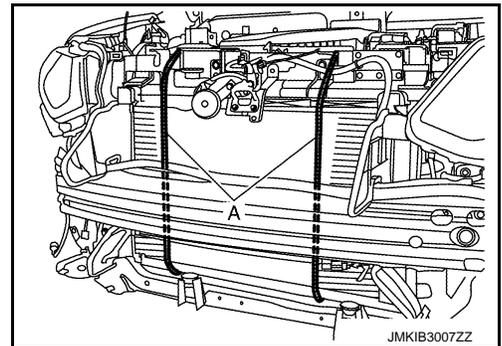
RADIATOR CORE SUPPORT LOWER

Removal

1. Remove front bumper fascia and apron bracket. Refer to [EXT-15, "Removal and Installation"](#).
2. Remove air lower guide fixing clips, and then remove air lower guide.
3. Use belts (A) to suspend radiator and condenser to prevent them from falling as shown in the figure.

CAUTION:

Never damage radiator and condenser.



4. Remove radiator core support lower mounting bolts, and then remove radiator core support lower.

Installation

Install in the reverse order of removal.

QR25DE

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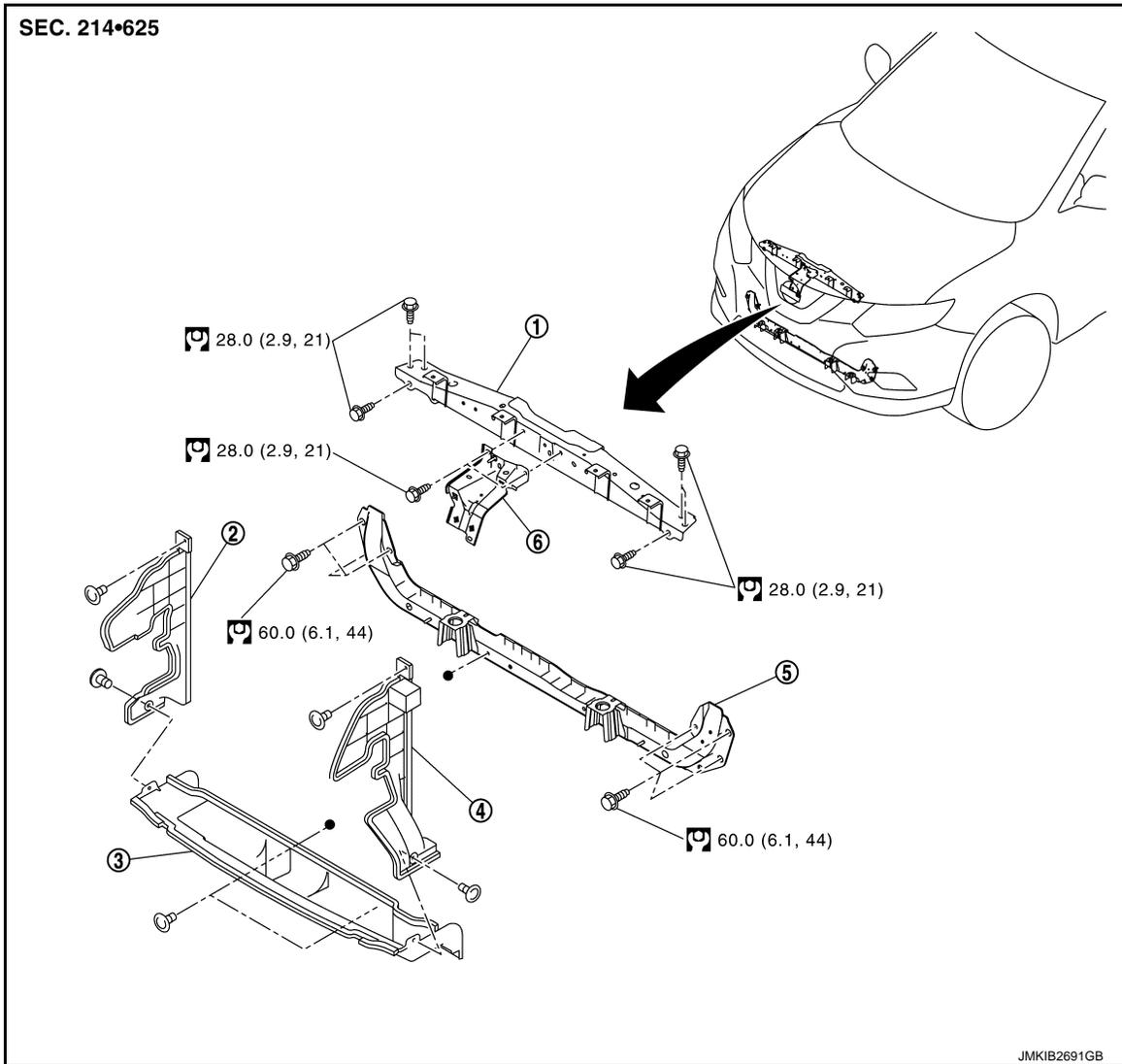
RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

[TYPE 2]

QR25DE : Exploded View

INFOID:000000010728115



- | | | |
|-------------------------------|-------------------------------|--------------------------|
| ① Radiator core support upper | ② Air guide RH | ③ Air lower guide |
| ④ Air guide LH | ⑤ Radiator core support lower | ⑥ Hood lock support stay |

 : N-m (kg-m, ft-lb)

●: Indicates that the part is connected at points with same symbol in actual vehicle.

QR25DE : Removal and Installation

INFOID:000000010728116

RADIATOR CORE SUPPORT UPPER

Removal

1. Remove air duct 1. Refer to [EM-175, "Removal and Installation"](#).
2. Remove front grille assembly. Refer to [EXT-22, "Removal and Installation"](#).
3. Remove hood lock assembly. Refer to [DLK-605, "HOOD LOCK : Removal and Installation"](#).
4. Remove hood lock control cable fixing clips from radiator core support upper. Refer to [DLK-605, "Exploded View"](#).

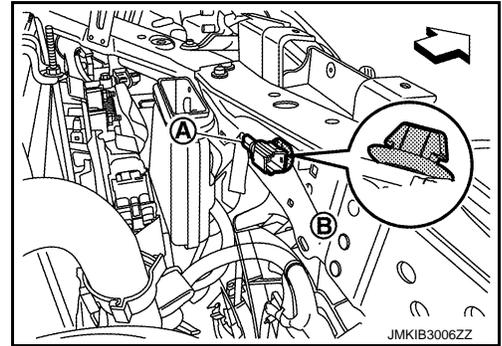
RADIATOR CORE SUPPORT

[TYPE 2]

< REMOVAL AND INSTALLATION >

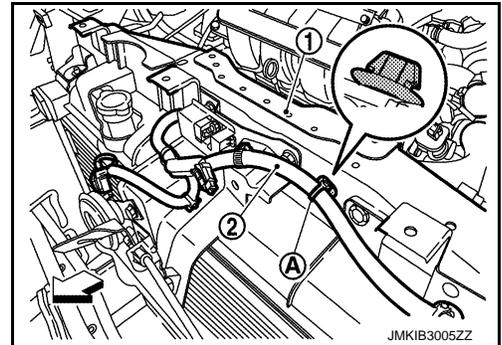
5. Remove fixing clip ② of engine room harness connector ①.

↔ : Vehicle front



6. Remove fixing clip ① of engine room harness ② from radiator core support upper ①.

↔ : Vehicle front



7. Remove crash zone sensor. Refer to [SR-31, "Removal and Installation"](#).
8. Remove hood lock support stay mounting bolts, and then move hood lock support stay to a location where it does not inhibit work.
9. Remove radiator mounting bracket fixing clips. Refer to [CO-43, "Exploded View"](#).
10. Remove radiator core support upper mounting bolts, and then remove radiator core support upper.

Installation

Install in the reverse order of removal.

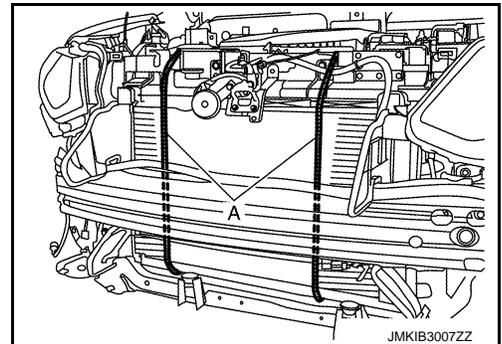
RADIATOR CORE SUPPORT LOWER

Removal

1. Remove front bumper fascia and apron bracket. Refer to [EXT-15, "Removal and Installation"](#).
2. Remove air lower guide fixing clips, and then remove air lower guide.
3. Remove CVT fluid cooler lower bracket mounting bolt and CVT fluid cooler tube bracket mounting bolts (if equipped). Refer to [TM-441, "QR25DE : Exploded View"](#).
4. Use belts (A) to suspend radiator and condenser to prevent them from falling as shown in the figure.

CAUTION:

Never damage radiator and condenser.



5. Remove radiator core support lower mounting bolts, and then remove radiator core support lower.

Installation

Install in the reverse order of removal.

R9M

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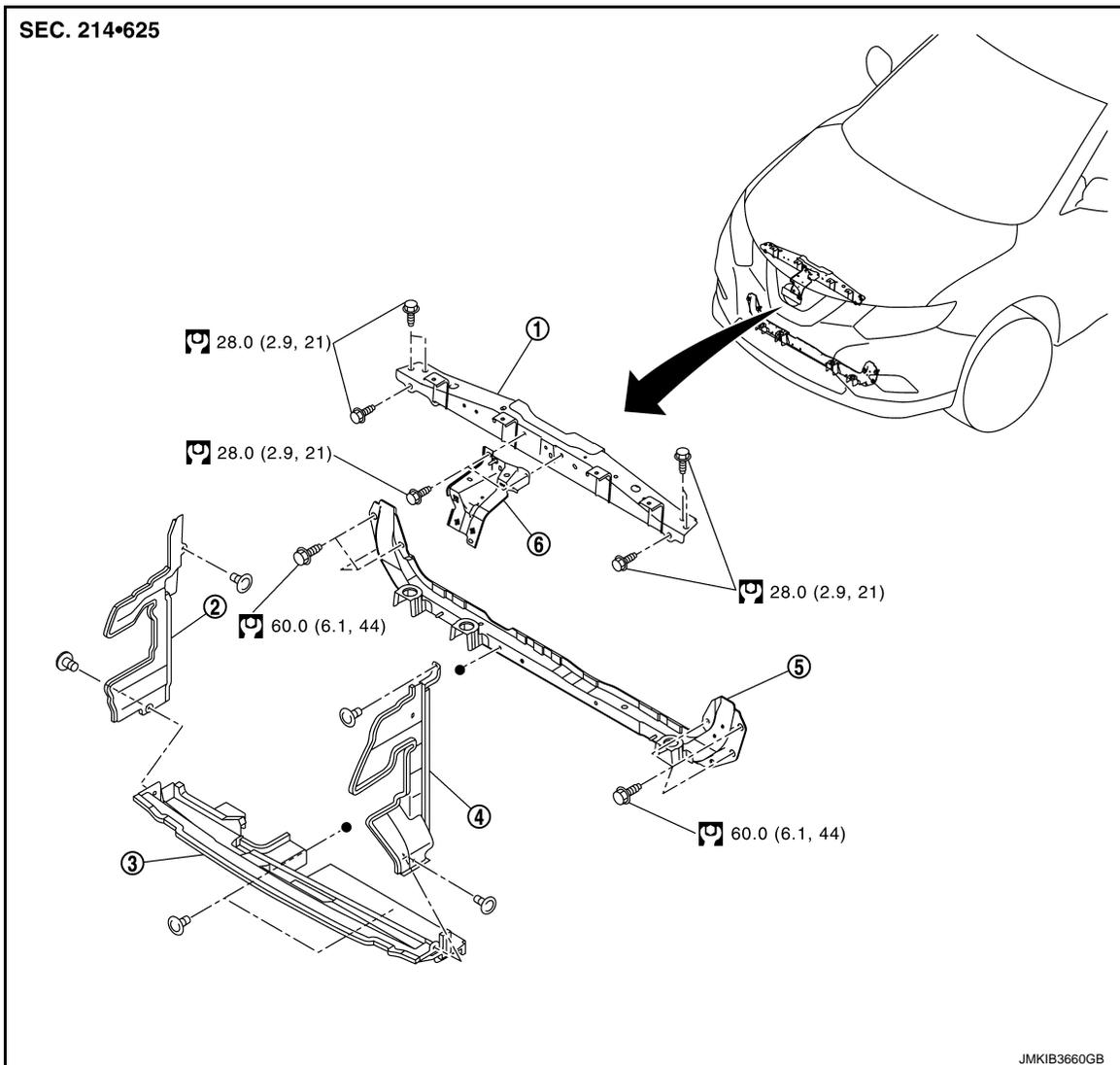
RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

[TYPE 2]

R9M : Exploded View

INFOID:000000010728117



- | | | |
|-------------------------------|-------------------------------|--------------------------|
| ① Radiator core support upper | ② Air guide RH | ③ Air lower guide |
| ④ Air guide LH | ⑤ Radiator core support lower | ⑥ Hood lock support stay |

 : N·m (kg·m, ft·lb)

●: Indicates that the part is connected at points with same symbol in actual vehicle.

R9M : Removal and Installation

INFOID:000000010728118

RADIATOR CORE SUPPORT UPPER

Removal

1. Remove air duct 1. Refer to [EM-308, "Removal and Installation"](#).
2. Remove front grille assembly. Refer to [EXT-22, "Removal and Installation"](#).
3. Remove hood lock assembly. Refer to [DLK-605, "HOOD LOCK : Removal and Installation"](#).
4. Remove hood lock control cable fixing clips from radiator core support upper. Refer to [DLK-605, "Exploded View"](#).

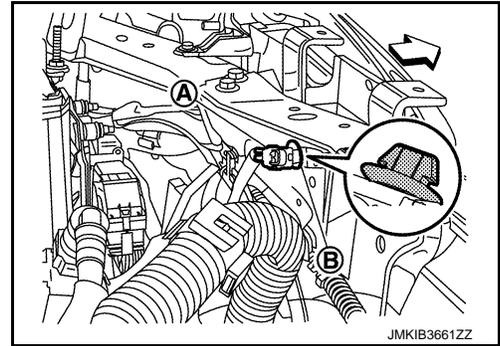
RADIATOR CORE SUPPORT

[TYPE 2]

< REMOVAL AND INSTALLATION >

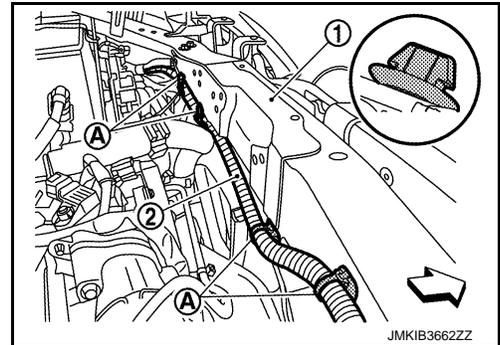
5. Remove fixing clip ② of engine room harness connector ①.

⇐ : Vehicle front



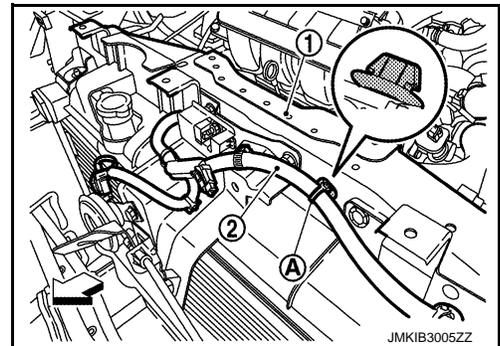
6. Remove fixing clips ① of engine room harness ② from radiator core support upper ③.

⇐ : Vehicle front



7. Remove fixing clip ① of engine room harness ② from radiator core support upper ③.

⇐ : Vehicle front



8. Remove crash zone sensor. Refer to [SR-31. "Removal and Installation"](#).
9. Remove hood lock support stay mounting bolts, and then move hood lock support stay to a location where it does not inhibit work.
10. Remove radiator mounting bracket fixing clips. Refer to [CO-70. "Exploded View"](#).
11. Remove radiator core support upper mounting bolts, and then remove radiator core support upper.

Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

Removal

1. Remove front bumper fascia and apron bracket. Refer to [EXT-15. "Removal and Installation"](#).
2. Remove air lower guide fixing clips, and then remove air lower guide.

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RADIATOR CORE SUPPORT

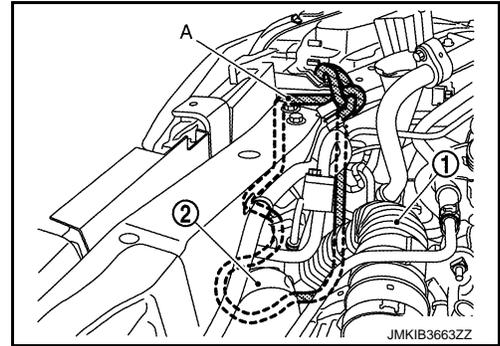
[TYPE 2]

< REMOVAL AND INSTALLATION >

- Using strings (A), hang inlet hose ① and inlet hose ② together with charge air cooler.

CAUTION:

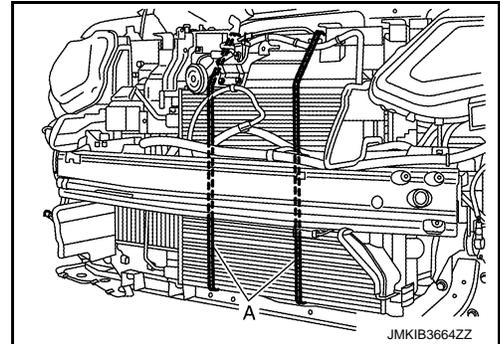
Never damage inlet hoses and charge air cooler.



- Use belts (A) to suspend radiator and condenser to prevent them from falling as shown in the figure.

CAUTION:

Never damage radiator and condenser.



- Remove radiator core support lower mounting bolts, and then remove radiator core support lower.

Installation

Install in the reverse order of removal.

FRONT FENDER

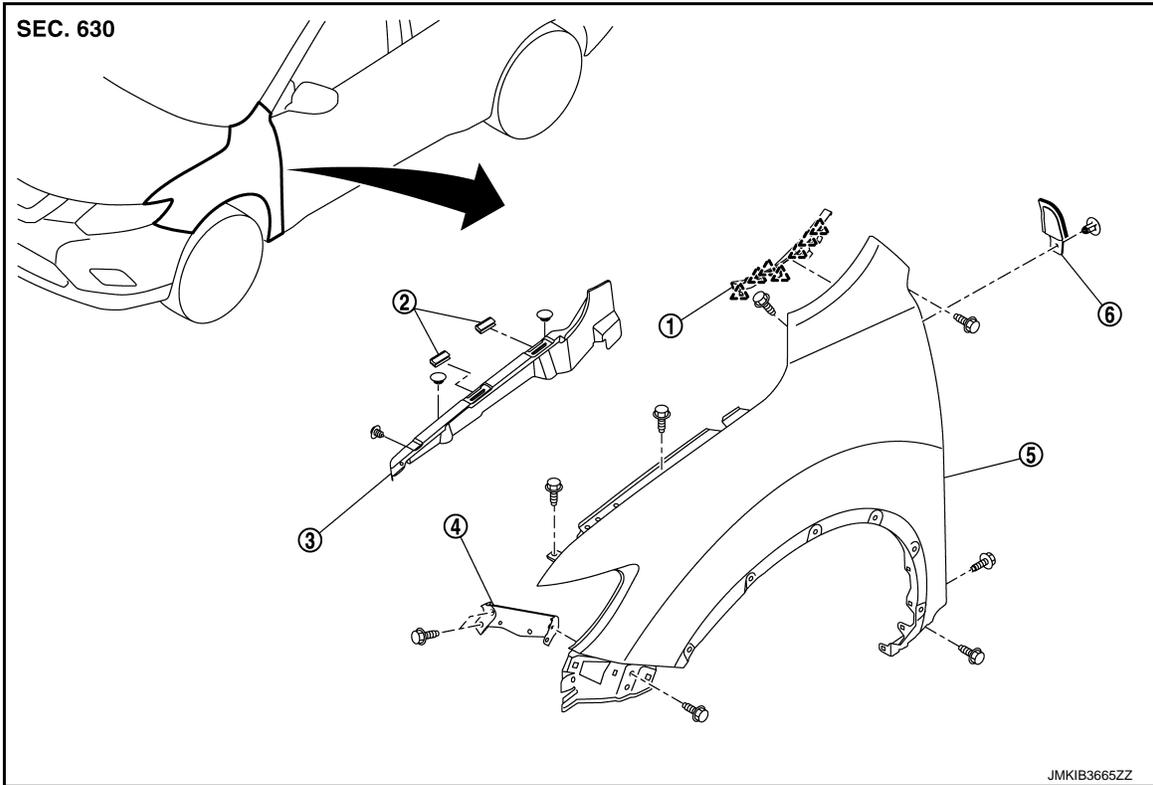
< REMOVAL AND INSTALLATION >

[TYPE 2]

FRONT FENDER

Exploded View

INFOID:000000010728119



- | | | |
|------------------------|-------------------------|---------------------|
| ① Front fender cover | ② Front fender spacer | ③ Front hood seal |
| ④ Front fender bracket | ⑤ Front fender assembly | ⑥ Front fender seal |

△ : Pawl

FRONT FENDER

FRONT FENDER : Removal and Installation

INFOID:000000010728120

REMOVAL

1. Remove front fender protector. Refer to [EXT-35, "FENDER PROTECTOR : Removal and Installation"](#).
2. Remove sill cover. Refer to [EXT-62, "Removal and Installation"](#).
3. Remove front bumper fascia assembly and bumper side bracket. Refer to [EXT-15, "Removal and Installation"](#).
4. Remove front combination lamp. Refer to [EXL-191, "Removal and Installation"](#) (LED headlamp), [EXL-376, "Removal and Installation"](#) (halogen headlamp).
5. Remove front fender cover. Refer to [DLK-580, "FENDER COVER : Removal and Installation"](#).

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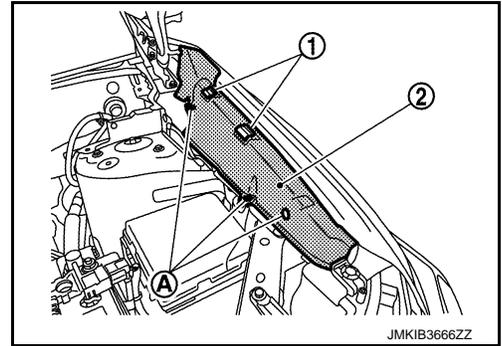
DLK

FRONT FENDER

[TYPE 2]

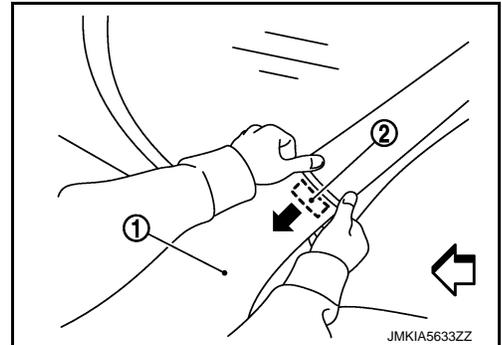
< REMOVAL AND INSTALLATION >

6. Remove front hood seal fixing clips (A) and front fender spacers (1), and then remove front hood seal (2).



7. Remove mounting bolts of front fender assembly.
8. Remove front fender stiffener (2) from the vehicle body while carefully pulling upper portion of front fender (1) toward vehicle outside.

⇐ : Vehicle front



9. Remove front fender assembly.

CAUTION:

A viscous urethane foam is installed on the back surface of front fender. When removing the front fender, be careful to not deform the front fender while performing the procedure and removing the viscous urethane foam a little at a time.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- After installation, adjust the following part.
- Hood assembly: Refer to [DLK-567, "HOOD ASSEMBLY : Adjustment"](#).
- Front door: Refer to [DLK-584, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.

FENDER COVER

FENDER COVER : Removal and Installation

INFOID:000000010728121

REMOVAL

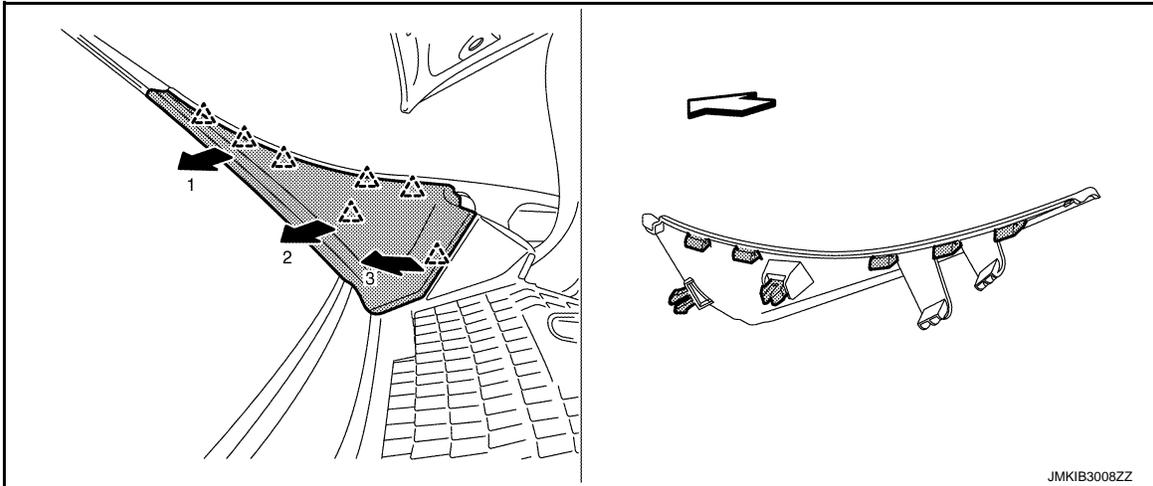
1. Fully open hood assembly.

FRONT FENDER

< REMOVAL AND INSTALLATION >

[TYPE 2]

2. Disengage fixing pawls according to the numerical order 1→3 indicated by arrows as shown in the figure, and then remove front fender cover.



- △ : Pawl
⇐ : Vehicle front

CAUTION:

When performing the procedure after removing fender cover, protect the lower of windshield glass with urethane etc.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

Install so that there is no clearance between windshield and cowl top cover.

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FRONT DOOR

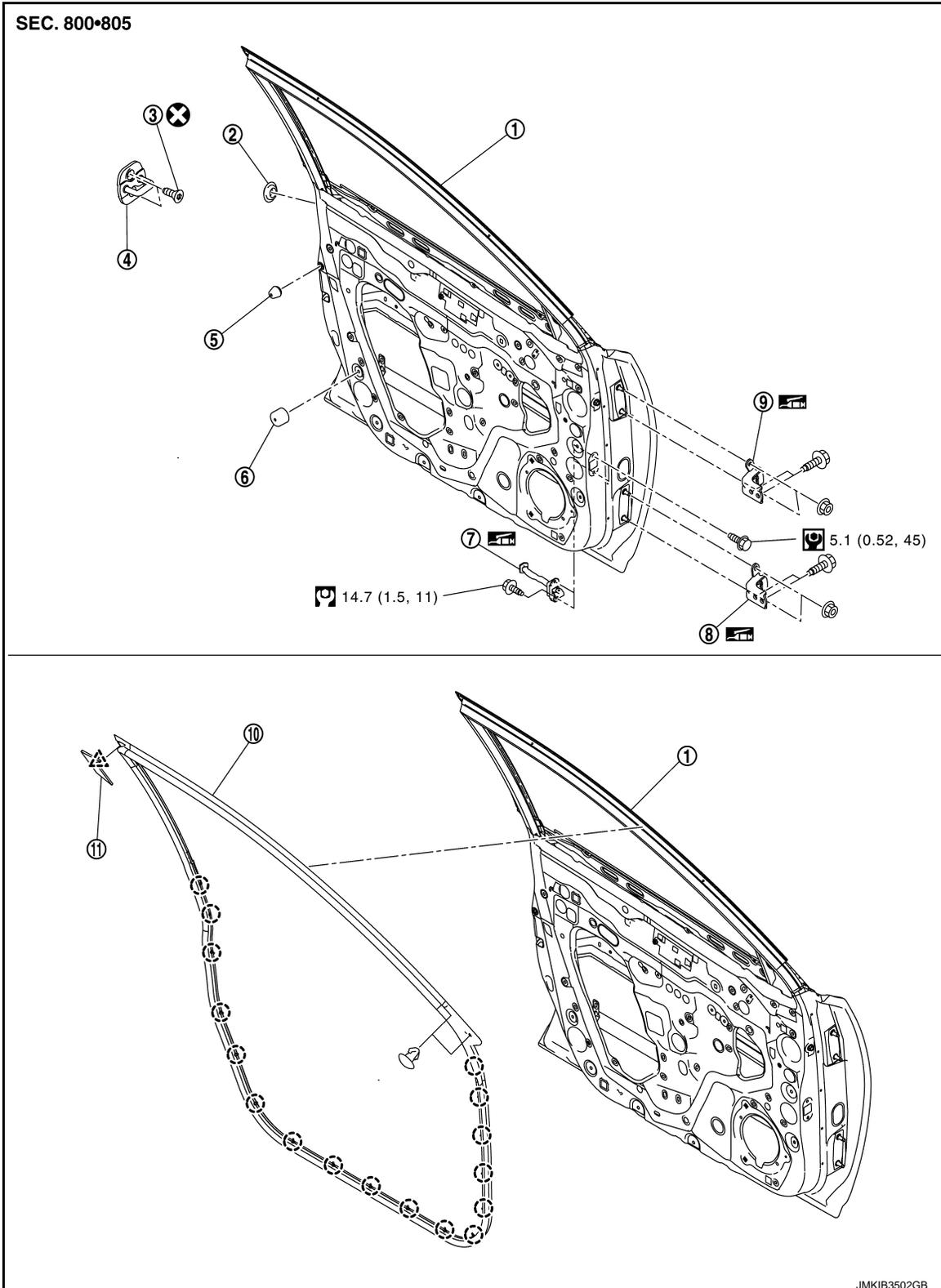
< REMOVAL AND INSTALLATION >

[TYPE 2]

FRONT DOOR

Exploded View

INFOID:000000010728122



① Front door panel

② Grommet

③ TORX bolt

④ Door striker

⑤ Bumper rubber

⑥ Bumper rubber

DLK-582

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]

- | | | |
|----------------------------|---------------------------------|----------------------|
| ⑦ Door check link | ⑧ Door hinge (lower) | ⑨ Door hinge (upper) |
| ⑩ Front door weather-strip | ⑪ Front door weather-strip clip | |
- : Clip
△ : Pawl
⊗ : Always replace after every disassembly.
Ⓜ : N·m (kg·m, in·lb)
Ⓜ : N·m (kg·m, ft·lb)
🛢 : Body grease

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

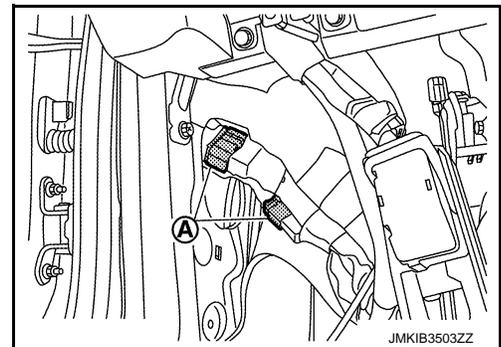
INFOID:000000010728123

CAUTION:

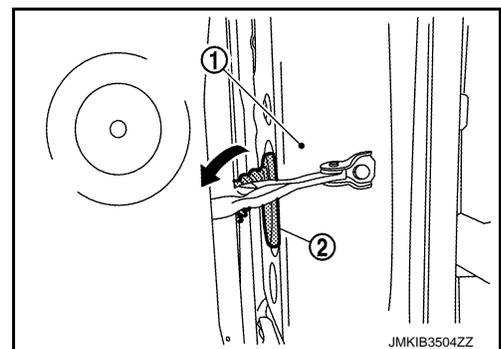
- Perform work with 2 workers, because of its heavy weight.
- When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

1. Remove dash side finisher. Refer to [INT-26. "DASH SIDE FINISHER : Removal and Installation"](#).
2. Remove SMJ (super multiple junction).
3. Disconnect front door harness connectors (A).



4. Remove front door harness grommet (2) from vehicle body (1), and then pull out front door harness from vehicle body.



5. Remove mounting bolt of door check link on vehicle body.
6. Remove door hinge mounting nuts of door side, and then remove front door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-584. "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

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FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]

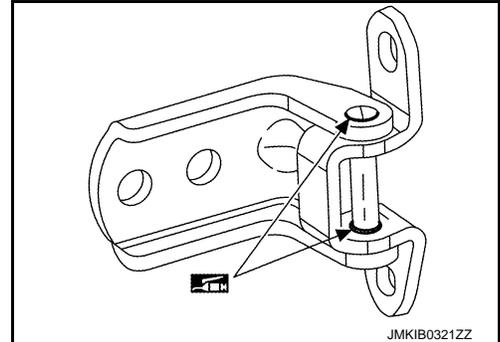
- After installation, check that door opens and closes normally. Refer to [DLK-584, "DOOR ASSEMBLY : Inspection"](#).

DOOR ASSEMBLY : Inspection

INFOID:000000010728124

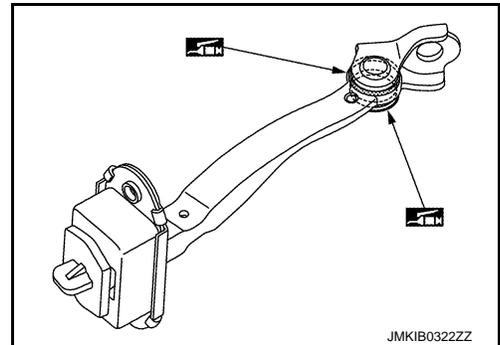
1. Open and close the door. Check that door hinge and check link rotation portion moves smoothly.
2. Check door hinge rotating part for poor lubrication. Apply body grease if necessary.

 : Body grease



3. Check door check link rotating part for poor lubrication. Apply body grease if necessary.

 : Body grease



DOOR ASSEMBLY : Adjustment

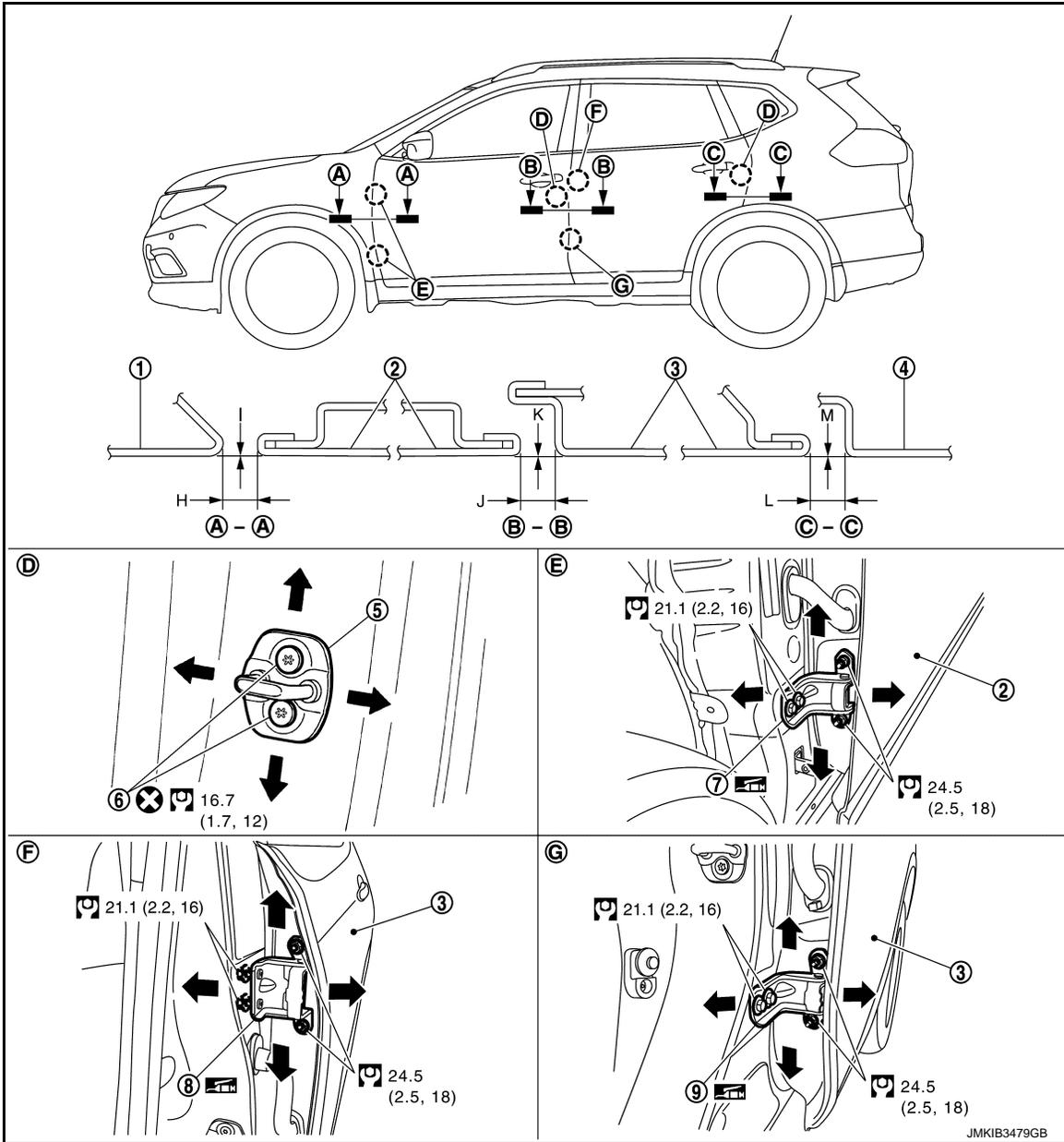
INFOID:000000010728125

FITTING ADJUSTMENT

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]



- | | | |
|--------------------|---------------------------|---------------------------|
| ① Front fender | ② Front door | ③ Rear door |
| ④ Body side outer | ⑤ Door striker | ⑥ TORX bolt |
| ⑦ Front door hinge | ⑧ Rear door hinge (upper) | ⑨ Rear door hinge (lower) |

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, ft·lb)

Ⓜ : Body grease

Fitting Adjustment Standard

Check the clearance and surface height between front door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

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FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]

Unit: mm [in]

Portion			Standard	
Front fender – Front door	Ⓐ – Ⓐ	H	Clearance	3.0 – 5.0 [0.118 – 0.197]
		I	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]
Front door – Rear door	Ⓑ – Ⓑ	J	Clearance	3.3 – 5.3 [0.130 – 0.209]
		K	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]

Fitting Adjustment Procedure

1. Remove front fender assembly. Refer to [DLK-579, "FRONT FENDER : Removal and Installation"](#).
2. Loosen door hinge mounting nuts of door side.
3. Adjust the surface height of front door according to the fitting standard dimension.
4. Temporarily tighten door hinge mounting nuts on door side.
5. Loosen door hinge mounting bolts of vehicle body side.
6. Raise front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
7. After adjustment, tighten bolts and nuts to the specified torque.
CAUTION:
After installation, apply touch-up paint (the body color) onto the head of hinge mounting bolts and nuts.
8. Install front fender assembly. Refer to refer to [DLK-579, "FRONT FENDER : Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:000000010728126

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- After installation, perform the fitting adjustment. Refer to [DLK-584, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, check that door opens and closes normally. Refer to [DLK-584, "DOOR ASSEMBLY : Inspection"](#).

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:000000010728127

REMOVAL

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
 - When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.
1. Remove front door assembly. Refer to [DLK-583, "DOOR ASSEMBLY : Removal and Installation"](#).
 2. Remove front fender assembly. Refer to [DLK-579, "FRONT FENDER : Removal and Installation"](#).
 3. Remove front door hinge mounting bolts of vehicle body side, and then remove front door hinge.

INSTALLATION

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-584, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts.
- After installation, check that door opens and closes normally. Refer to [DLK-584, "DOOR ASSEMBLY : Inspection"](#).

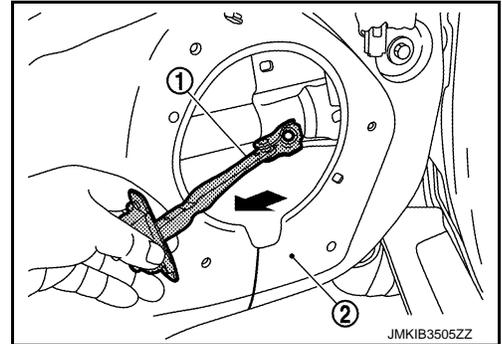
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000010728128

REMOVAL

1. Fully close front door glass.
2. Remove front door finisher. Refer to [INT-14, "Removal and Installation"](#).
3. Disconnect harness connector of front door speaker.
4. Remove mounting bolts of front door speaker, and then remove front door speaker.
5. Remove door check link mounting bolt of vehicle body side.
6. Remove door check link mounting bolts of door panel, and then take door check link ① out from the hole of door panel ②.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check that door opens and closes normally. Refer to [DLK-584, "DOOR ASSEMBLY : Inspection"](#).

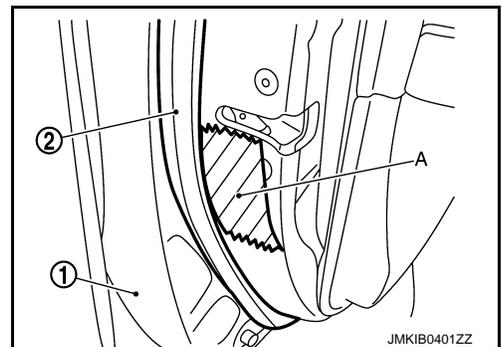
DOOR WEATHER-STRIP

DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000010728129

REMOVAL

1. Apply protective tape (A) to front door panel ① around front door weather-strip ② fixing clips for preventing damage.



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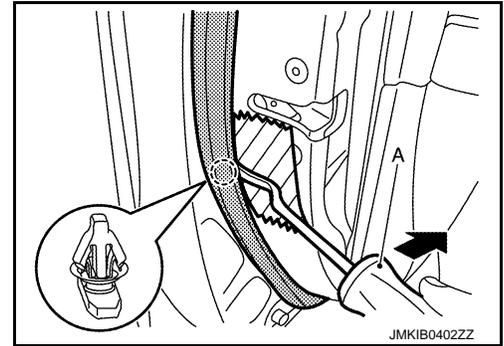
FRONT DOOR

[TYPE 2]

< REMOVAL AND INSTALLATION >

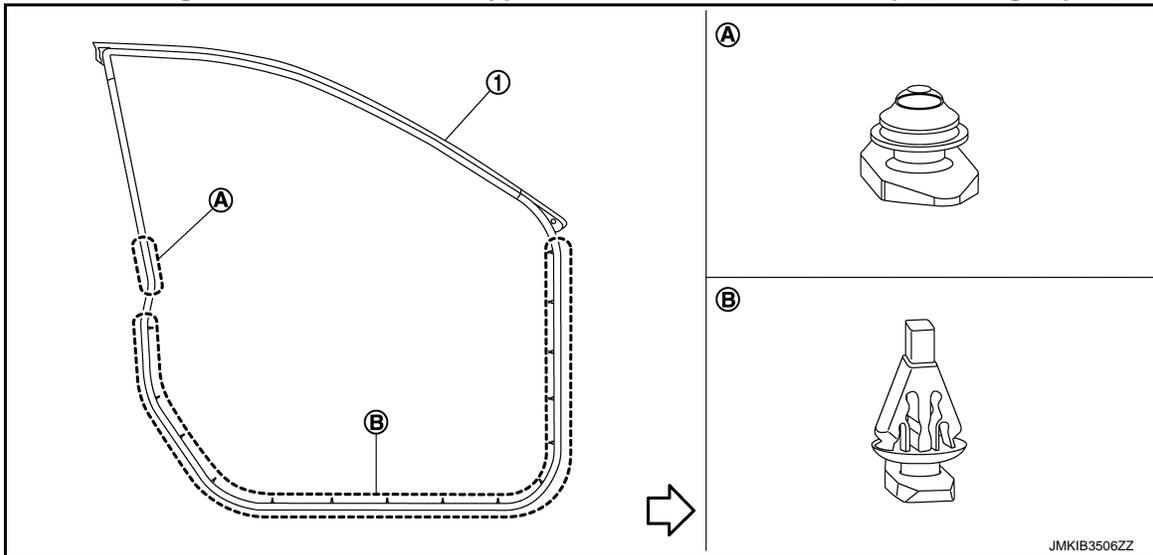
- Disengage fixing clips on the reverse side of front door weather-strip using a remover tool (A).

 : Clip



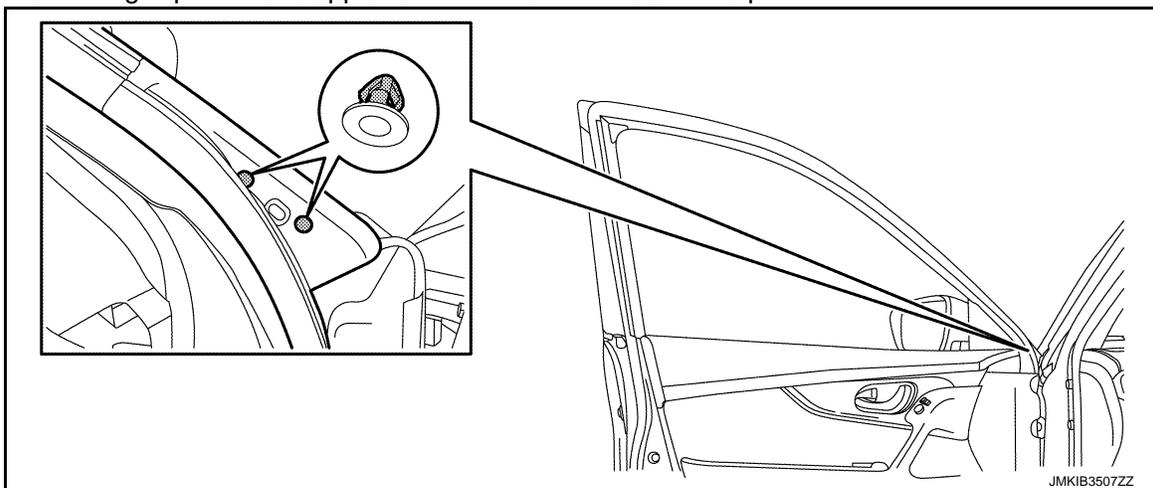
CAUTION:

- Never damage front door panel.
- When removing, never confuse the 2 types of front door weather-strip ① fixing clips A and B.



 : Vehicle front

- Remove fixing clips on front upper end of front door weather-strip.

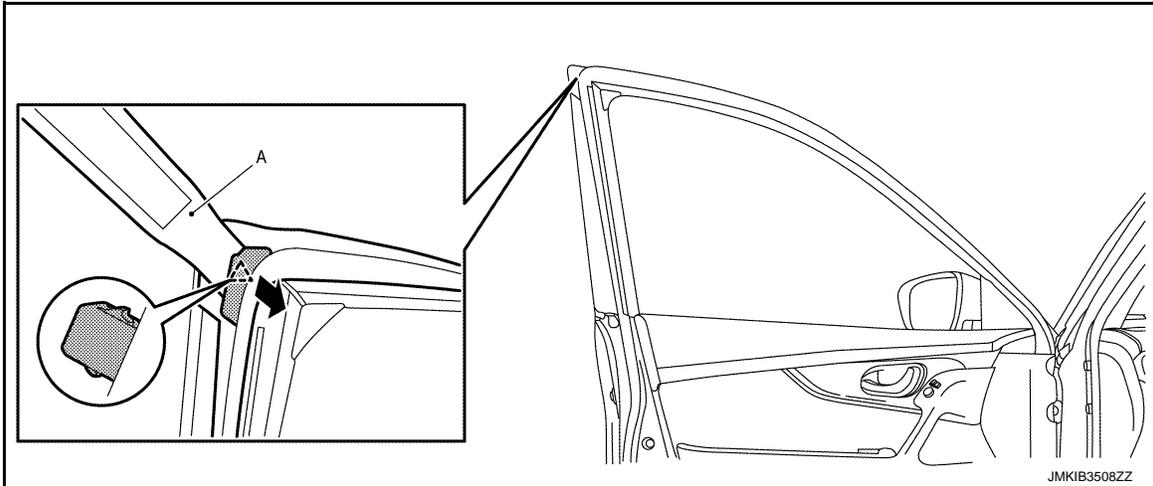


FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]

4. Disengage fixing pawl on rear upper end of front door weather-strip using a remover tool (A), and then remove weather-strip clip.



 : Pawl

5. Remove door check link mounting bolt of vehicle body side.
6. Remove front door weather-strip from front door panel.

INSTALLATION

Install in the reverse order of removal.

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REAR DOOR

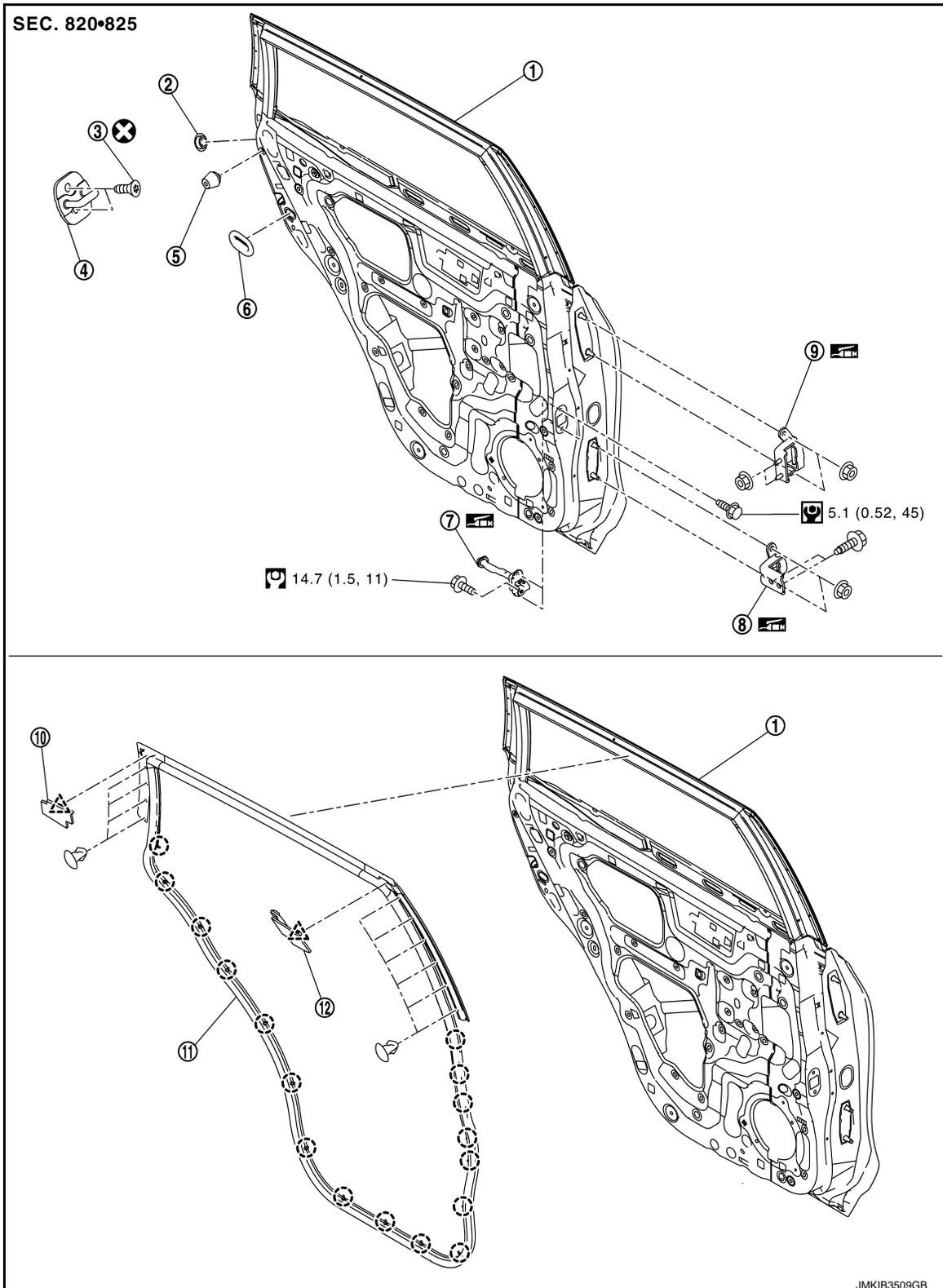
< REMOVAL AND INSTALLATION >

[TYPE 2]

REAR DOOR

Exploded View

INFOID:000000010728130



① Rear door panel

② Grommet

③ TORX bolt

④ Door striker

⑤ Bumper rubber

⑥ Child lock lever cover

DLK-590

REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]

- | | | |
|--------------------------------|---------------------------|--------------------------------|
| ⑦ Door check link | ⑧ Door hinge (lower) | ⑨ Door hinge (upper) |
| ⑩ Rear door weather-strip clip | ⑪ Rear door weather-strip | ⑫ Rear door weather-strip clip |

⊖ : Clip

△ : Pawl

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg-m, in-lb)

Ⓜ : N·m (kg-m, ft-lb)

Ⓜ : Body grease

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

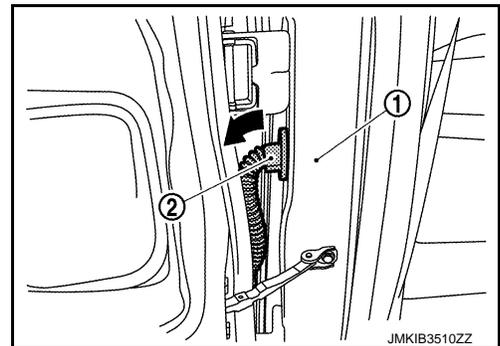
INFOID:000000010728131

CAUTION:

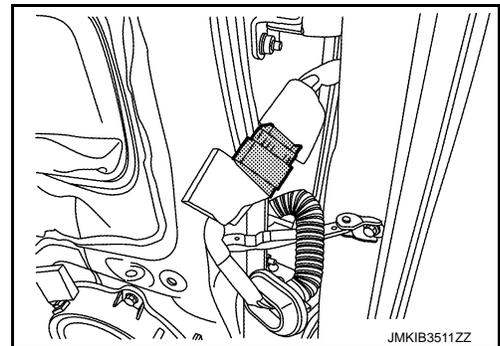
- Perform work with 2 workers, because of its heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

1. Remove rear door harness grommet ② from vehicle body ①, and then pull out rear door harness.



2. Disconnect rear door harness connector.



3. Remove mounting bolt of door check link of vehicle body side.
4. Remove door hinge mounting nuts of door side, and then remove door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-592. "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-592. "DOOR ASSEMBLY : Inspection"](#).

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REAR DOOR

< REMOVAL AND INSTALLATION >

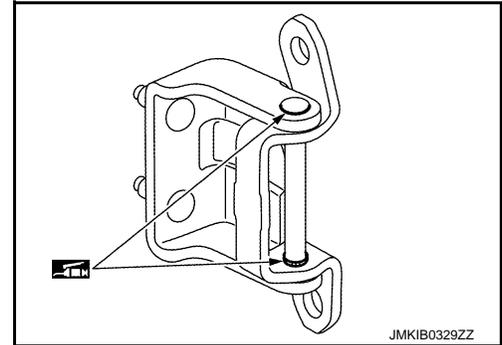
[TYPE 2]

DOOR ASSEMBLY : Inspection

INFOID:000000010728132

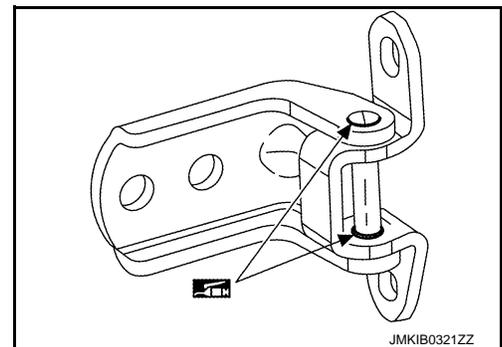
1. Open and close the door. Check that door hinge and check link rotation portion moves smoothly.
2. Check door hinge rotating part for poor lubrication. Apply body grease if necessary.
 - Door hinge (upper)

 : Body grease



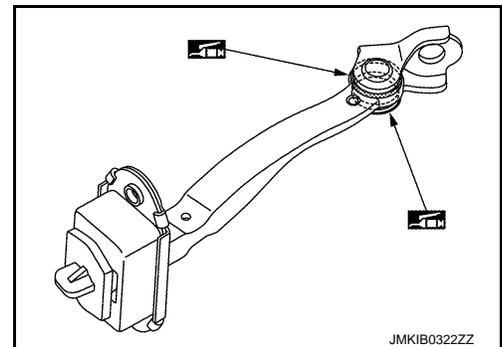
- Door hinge (lower)

 : Body grease



3. Check door check link rotating part for poor lubrication. Apply body grease if necessary.

 : Body grease



DOOR ASSEMBLY : Adjustment

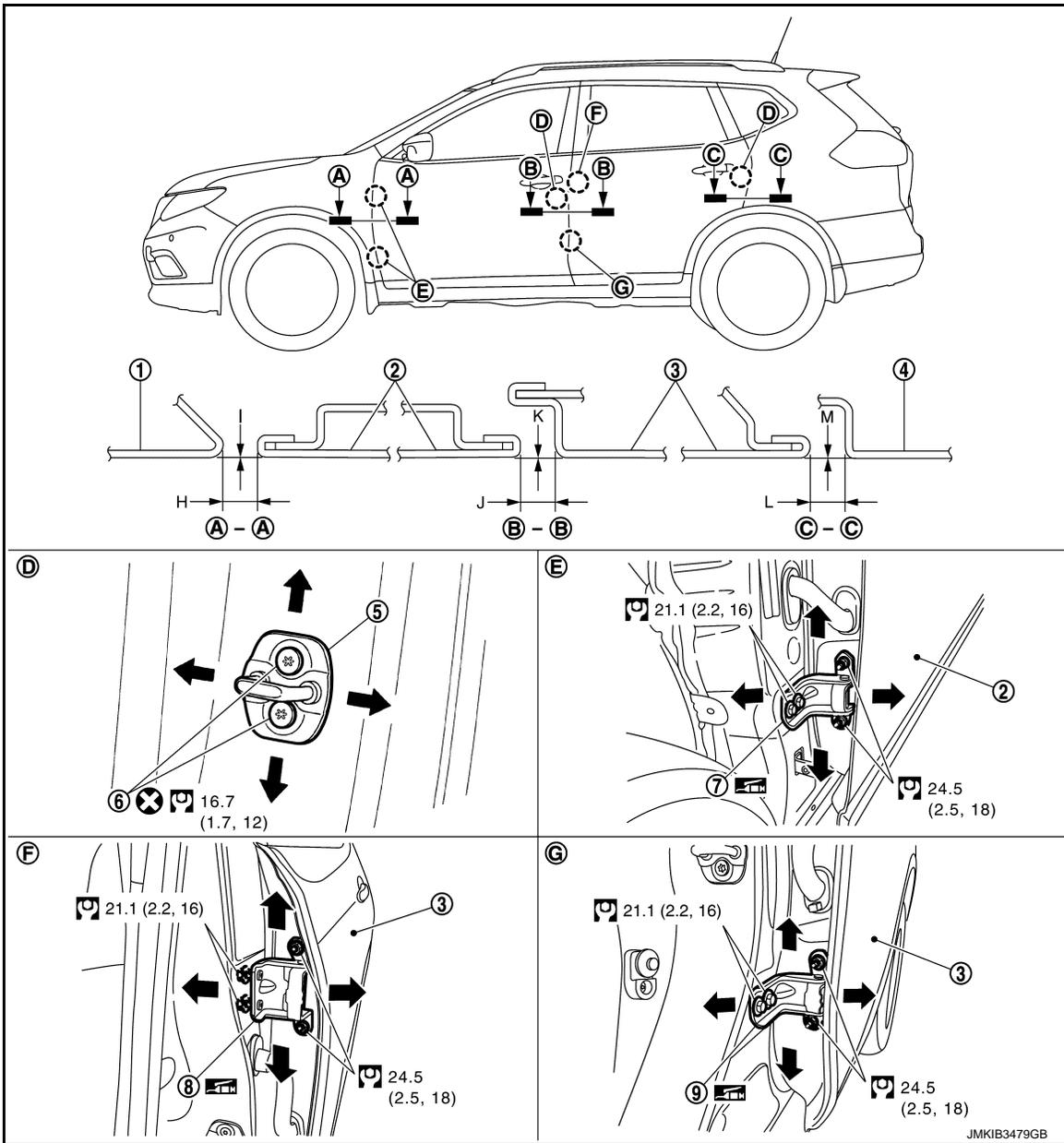
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FITTING ADJUSTMENT

REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]



- ① Front fender
- ② Front door
- ③ Rear door
- ④ Body side outer
- ⑤ Door striker
- ⑥ TORX bolt
- ⑦ Front door hinge
- ⑧ Rear door hinge (upper)
- ⑨ Rear door hinge (lower)

⊗ : Always replace after every disassembly.

Ⓛ : N·m (kg·m, ft·lb)

Ⓜ : Body grease

Fitting Adjustment Standard

Check the clearance and surface height between rear door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]

Unit: mm [in]

Portion				Standard
Front door – Rear door	Ⓑ – Ⓑ	J	Clearance	3.3 – 5.3 [0.130 – 0.209]
		K	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]
Rear door – Body side outer	Ⓒ – Ⓒ	L	Clearance	3.0 – 5.0 [0.118 – 0.197]
		M	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]

Fitting Adjustment Procedure

1. Remove center pillar lower garnish. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).
2. Loosen door hinge mounting nuts of door side.
3. Adjust the surface height of rear door according to the fitting standard dimension.
4. Temporarily tighten door hinge mounting nuts of door side.
5. Loosen door hinge mounting nuts and bolts of vehicle body side.
6. Raise rear door at rear end to adjust clearance of rear door according to the fitting standard dimension.
7. After adjustment, tighten bolts and nuts to the specified torque.
CAUTION:
After installation, apply touch-up paint (the body color) onto the head of hinge mounting bolts and nuts.
8. Install center pillar lower garnish. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:000000010728134

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- After installation, perform the fitting adjustment. Refer to [DLK-592, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, check that door opens and closes normally. Refer to [DLK-592, "DOOR ASSEMBLY : Inspection"](#).

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:000000010728135

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

1. Remove rear door assembly. Refer to [DLK-591, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove center pillar lower garnish. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).

REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]

3. Remove rear door hinge mounting bolts and nuts of vehicle body side, and then remove rear door hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-592, "DOOR ASSEMBLY : Adjustment"](#).
- After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-592, "DOOR ASSEMBLY : Inspection"](#).

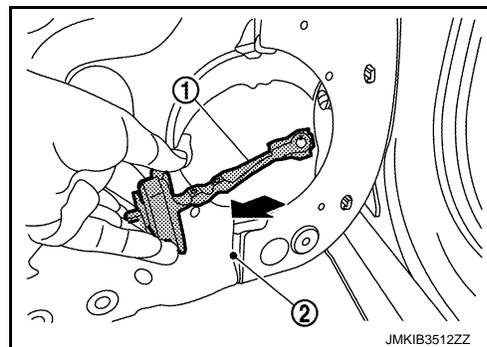
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:0000000010728136

REMOVAL

1. Fully close rear door glass.
2. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
3. Disconnect harness connector of rear door speaker.
4. Remove mounting bolts of rear door speaker, and then remove rear door speaker.
5. Remove door check link mounting bolt of vehicle body side.
6. Remove door check link mounting bolts of door panel, and then take door check link ① out from the hole of door panel ②.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check that door opens and closes normally. Refer to [DLK-592, "DOOR ASSEMBLY : Inspection"](#).

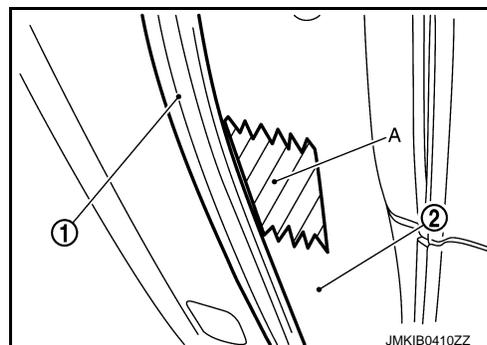
DOOR WEATHER-STRIP

DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000010728137

REMOVAL

1. Apply protective tape (A) to rear door panel ② around rear door weather-strip ① fixing clips for preventing damage.



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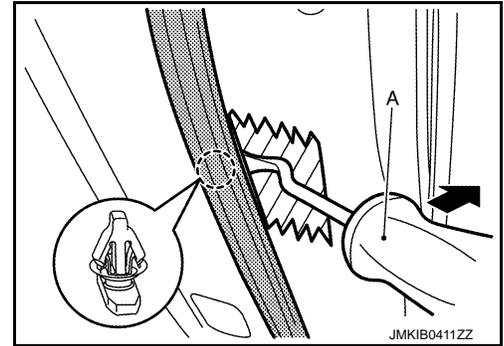
REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]

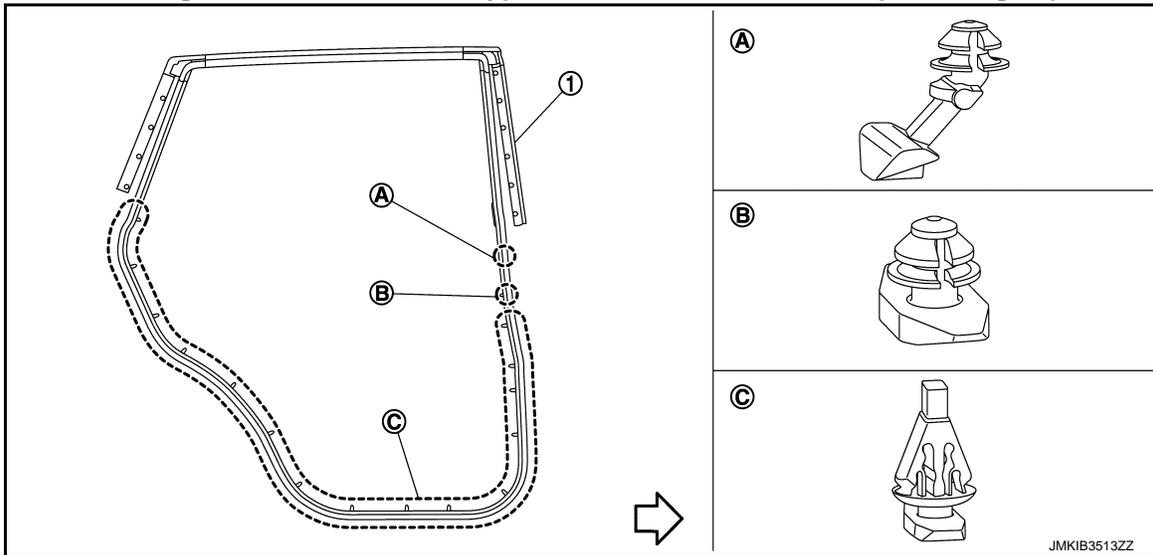
- Disengage fixing clips on the reverse side of rear door weather-strip using a remover tool (A).

 : Clip



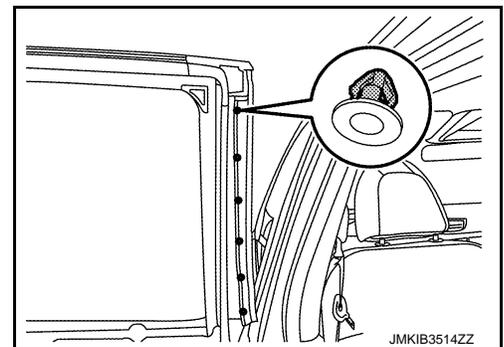
CAUTION:

- Never damage rear door panel.
- When removing, never confuse the 3 types of rear door weather-strip ① fixing clips (A), (B) and (C).



 : Vehicle front

- Remove front fixing clips from weather-strip.

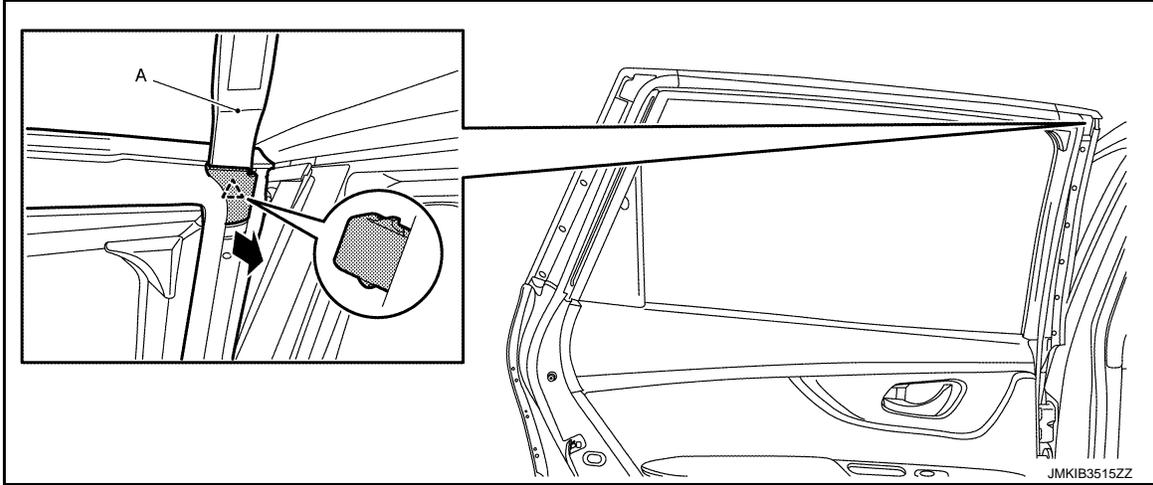


REAR DOOR

< REMOVAL AND INSTALLATION >

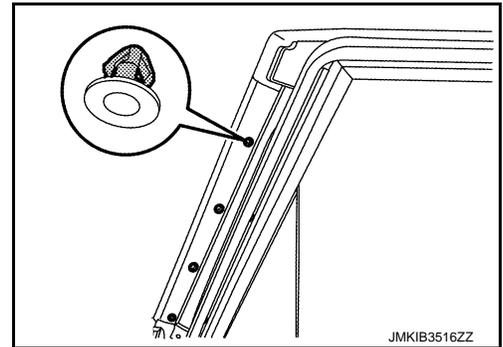
[TYPE 2]

4. Disengage fixing pawl on front upper end of rear door weather-strip using a remover tool (A), and then remove weather-strip clip.

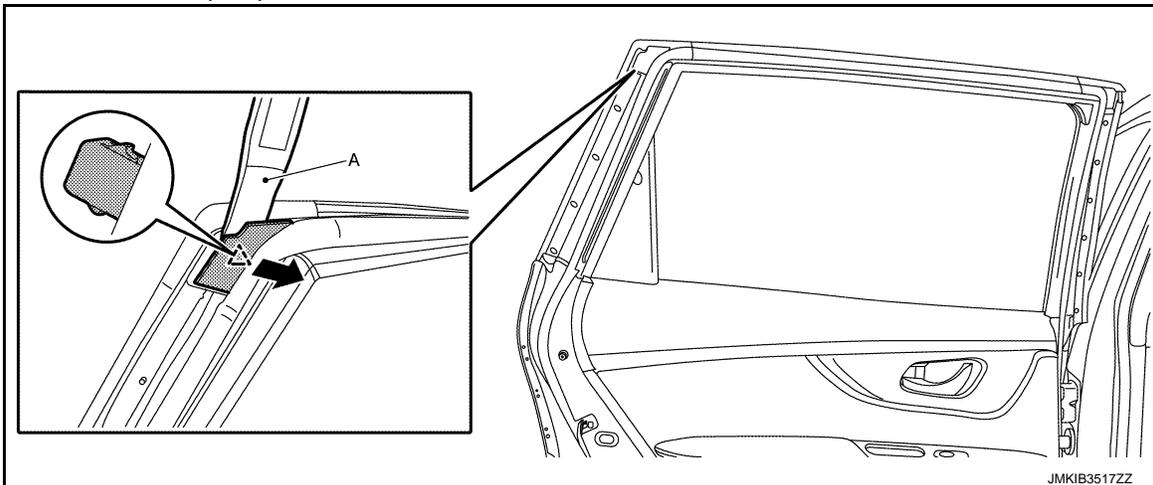


 : Pawl

5. Remove rear fixing clips from weather-strip.



6. Disengage fixing pawl on rear upper end of rear door weather-strip using a remover tool (A), and then remove weather-strip clip.



 : Pawl

7. Remove door check link mounting bolt of vehicle body side.
8. Remove rear door weather-strip from rear door panel.

INSTALLATION

Install in the reverse order of removal.

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BACK DOOR

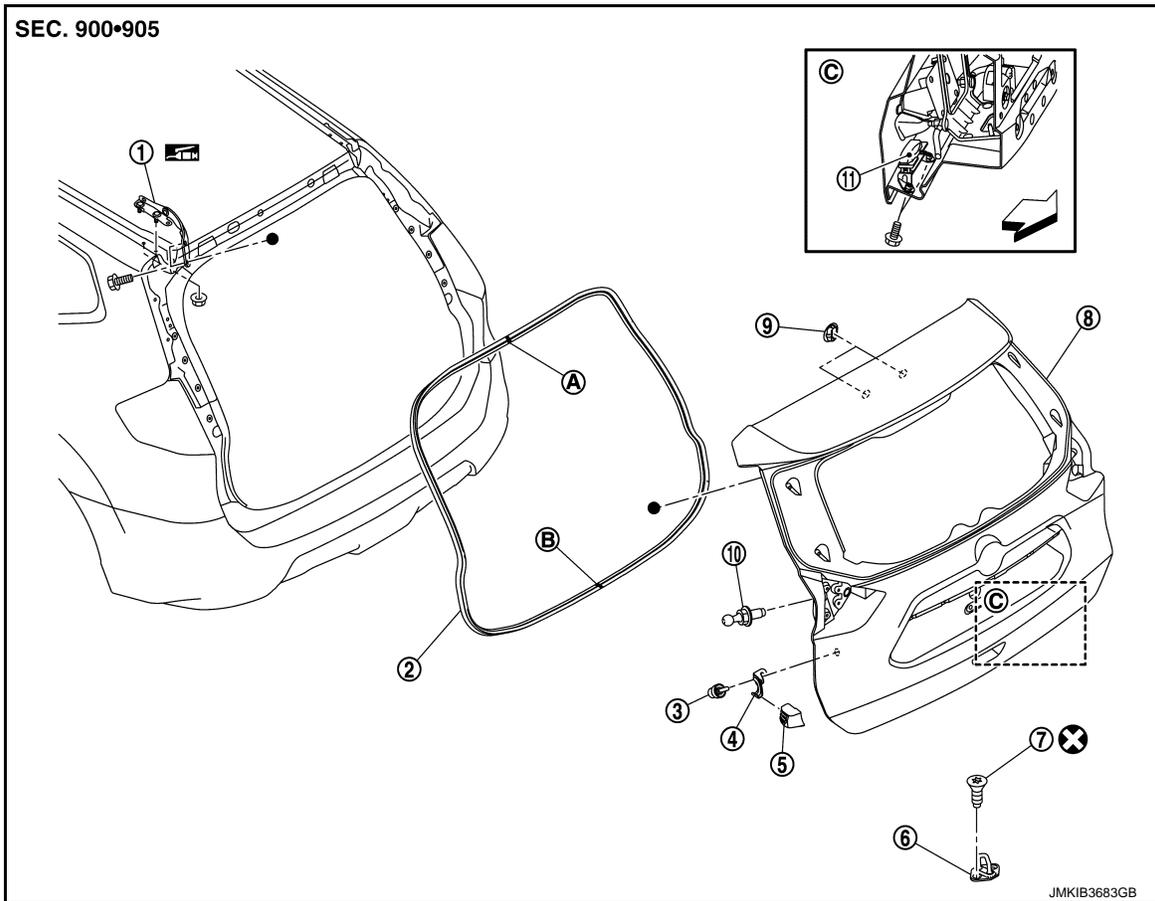
< REMOVAL AND INSTALLATION >

[TYPE 2]

BACK DOOR

Exploded View

INFOID:000000010728138



- | | | |
|-------------------|---------------------------|---------------------|
| ① Back door hinge | ② Back door weather-strip | ③ Bumper rubber |
| ④ Wedge bracket | ⑤ Back door wedge | ⑥ Back door striker |
| ⑦ TORX bolt | ⑧ Back door panel | ⑨ Plug |
| ⑩ Stud ball | ⑪ Back door damper | |

(A) : Center mark

(B) : Seam

← : Vehicle front

⊗ : Always replace after every disassembly.

⌘ : N·m (kg·m, in·lb)

🔧 : Body grease

● : Indicates that the part is connected at points with same symbol in actual vehicle.

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000010728139

CAUTION:

- Back door is made of resin. Never apply strong force to it, and be careful to prevent contact with oil.
- Perform work with 2 workers, because of its heavy weight.
- Use protective tape or shop cloth to protect from damage during removal and installation.

BACK DOOR

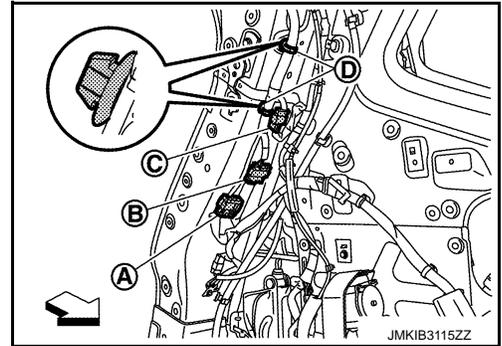
< REMOVAL AND INSTALLATION >

[TYPE 2]

REMOVAL

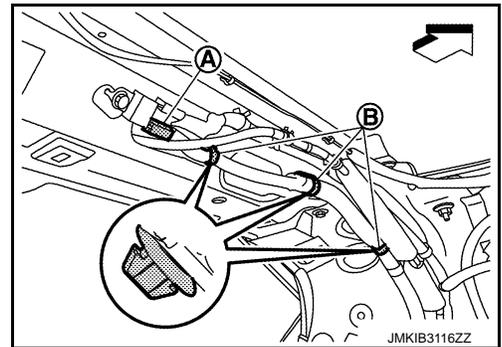
1. Remove headlining. Refer to [INT-37. "Removal and Installation"](#).
2. Disconnect back door harness connectors (A), (B) and (C), and then remove harness fixing clips (D).

← : Vehicle front

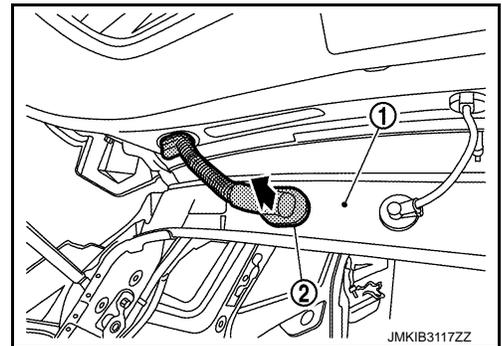


3. Disconnect harness connector (A), and then remove harness fixing clips (B).

← : Vehicle front

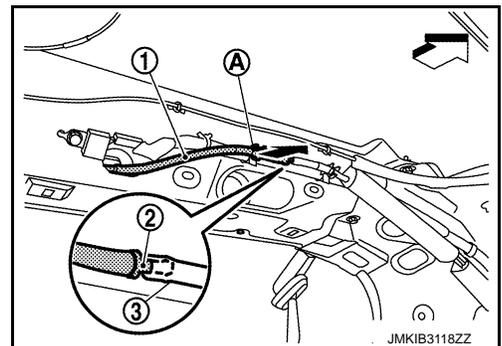


4. Remove grommet (2) from roof panel (1), and then pull out back door harness from vehicle body.



5. Remove air tube (1) from tube clip (A), and then disconnect tube joint connector (2) and air tube (3) (with around view monitor).

← : Vehicle front



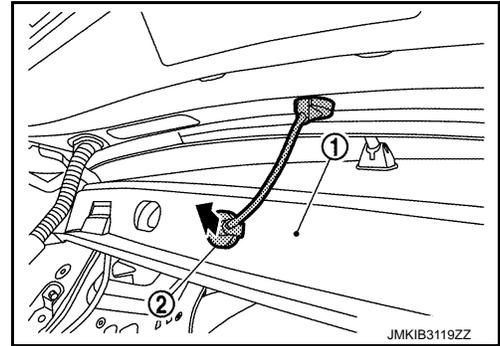
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BACK DOOR

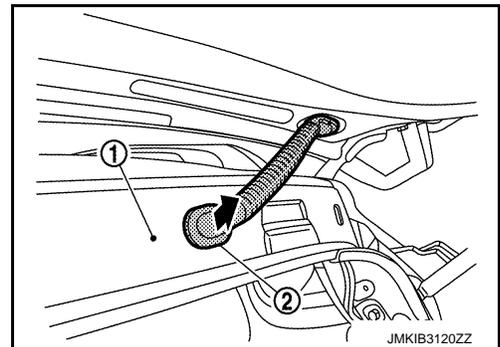
< REMOVAL AND INSTALLATION >

[TYPE 2]

6. Remove tube grommet ② from roof panel ①, and then pull out air tube from vehicle body.



7. Disconnect rear washer tube A and rear washer tube B. Refer to [WW-102. "REAR WASHER TUBE : Removal and Installation"](#).
8. Disconnect rear view camera washer tube (with around view monitor). Refer to [DAS-156. "Removal and Installation"](#).
9. Remove tube grommet ② from roof panel ①, and then pull out rear washer tube B and rear camera washer tube from vehicle body.



10. Support back door with the proper material to prevent it from falling.

WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

11. Remove spindle unit from back door. Refer to [DLK-620. "SPINDLE UNIT : Removal and Installation"](#).
12. Remove back door hinge mounting nuts of back door and remove back door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- After installation, perform the fitting adjustment. Refer to [DLK-601. "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, check whether harness is not pinched. If harness is pinched, pull harness downward lightly.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-600. "BACK DOOR ASSEMBLY : Inspection"](#).

BACK DOOR ASSEMBLY : Inspection

INFOID:000000010728140

1. Open and close the back door. Check that door hinge rotation portion moves smoothly.

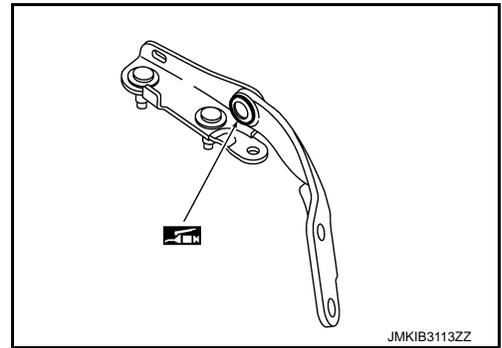
BACK DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]

2. Check back door hinge rotating part for poor lubrication. Apply body grease if necessary.

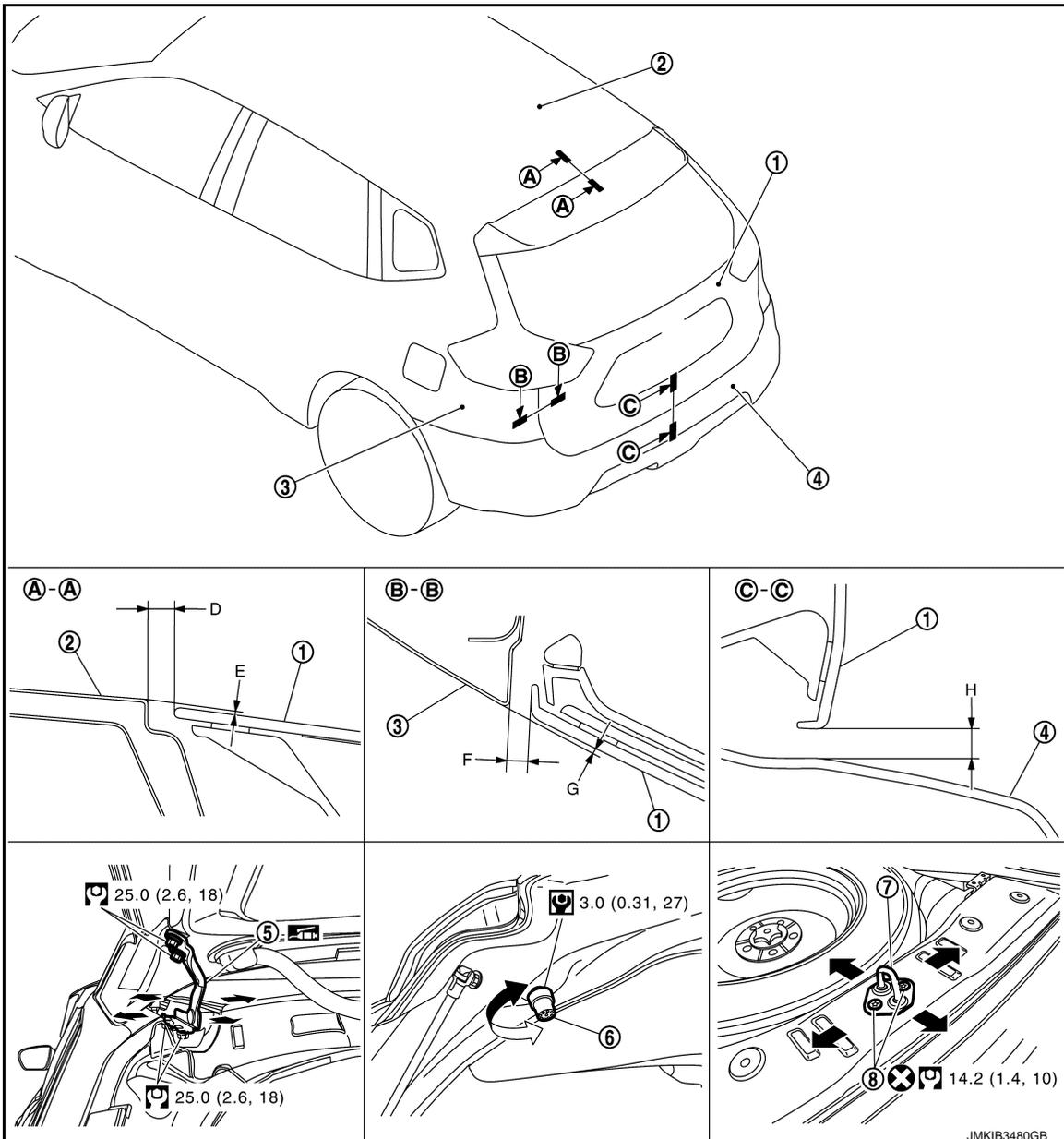
 : Body grease



BACK DOOR ASSEMBLY : Adjustment

INFOID:000000010728141

FITTING ADJUSTMENT



- | | | |
|----------------------|-------------------|-------------------------|
| ① Back door assembly | ② Roof panel | ③ Body side outer panel |
| ④ Rear bumper fascia | ⑤ Back door hinge | ⑥ Bumper rubber |

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BACK DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]

⑦ Back door striker ⑧ TORX bolt

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg-m, ft-lb)

🛠 : Body grease

Fitting Adjustment Standard

Check the clearance and the surface height between back door and each part by seeing and touching.

If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

When back door is reused.

Unit: mm [in]

Portion			Standard	Difference (LH/RH, MAX)
Back door – Roof panel	Ⓐ – Ⓐ	D	5.0 – 9.0 [0.197 – 0.354]	—
		E	(-3.0) – (+1.0) [(-0.118) – (+0.039)]	—
Back door – Body side outer panel	Ⓑ – Ⓑ	F	3.0 – 7.0 [0.118 – 0.276]	<2.0 [0.079]
		G	(-3.0) – (+1.0) [(-0.118) – (+0.039)]	—
Back door – Rear bumper fascia	ⓒ – ⓒ	H	5.5 – 9.5 [0.217 – 0.374]	—

When back door is replaced.

Unit: mm [in]

Portion			Standard	Difference (LH/RH, MAX)
Back door – Roof panel	Ⓐ – Ⓐ	D	5.1 – 9.1 [0.201 – 0.358]	—
		E	(-2.0) – (+2.0) [(-0.079) – (+0.079)]	—
Back door – Body side outer panel	Ⓑ – Ⓑ	F	2.5 – 6.5 [0.098 – 0.256]	<2.0 [0.079]
		G	(-3.3) – (+0.7) [(-0.130) – (+0.028)]	—
Back door – Rear bumper fascia	ⓒ – ⓒ	H	5.7 – 9.7 [0.224 – 0.382]	—

Fitting Adjustment Procedure

- Loosen back door hinge mounting nuts of back door side.
- Loosen bumper rubber.
- Remove luggage rear plate mask. Refer to [INT-41, "LUGGAGE REAR PLATE : Removal and Installation"](#).
- Loosen back door striker mounting TORX bolts.
- Position back door lock assembly and engage back door striker. Check back door lock assembly and back door striker for looseness.
- Adjust the clearance and surface height of back door according to the fitting standard dimension by back door hinge and bumper rubber.

BACK DOOR

[TYPE 2]

< REMOVAL AND INSTALLATION >

7. After adjustment, tighten back door striker mounting TORX bolts, bumper rubber and back door hinge mounting nuts of back door side to the specified torque.

CAUTION:

After installation, apply touch-up paint to the body color if the paint around back door hinge and back door hinge mounting nuts is peeled off.

8. Install luggage rear plate mask. Refer to [INT-41, "LUGGAGE REAR PLATE : Removal and Installation"](#).

CAUTION:

- After adjusting, check that bumper rubber is in contact with vehicle body surely.
- After adjusting, check that door opens and closes normally. Refer to [DLK-600, "BACK DOOR ASSEMBLY : Inspection"](#).
- After adjusting, perform calibration of automatic back door position information (with automatic back door). Refer to [DLK-427, "Work Procedure"](#).
- After adjusting, perform calibration camera image (with around view monitor). Refer to [AV-161, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Work Procedure"](#) (with navigation).

BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that it becomes parallel with back door lock insertion direction.

BACK DOOR STRIKER

BACK DOOR STRIKER : Removal and Installation

INFOID:000000010728142

REMOVAL

1. Remove luggage rear plate. Refer to [INT-41, "LUGGAGE REAR PLATE : Removal and Installation"](#).
2. Remove TORX bolts, and then remove back door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- After installation, perform the fitting adjustment. Refer to [DLK-601, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, check that door opens and closes normally. Refer to [DLK-600, "BACK DOOR ASSEMBLY : Inspection"](#).

BACK DOOR HINGE

BACK DOOR HINGE : Removal and Installation

INFOID:000000010728143

REMOVAL

1. Remove back door assembly. Refer to [DLK-598, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove back door hinge cover. Refer to [EXT-46, "Removal and Installation"](#).
3. Remove back door hinge mounting nuts of vehicle body side, and then remove back door hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- After installation, perform the fitting adjustment. Refer to [DLK-601, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-600, "BACK DOOR ASSEMBLY : Inspection"](#).

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000010728146

REMOVAL

Pull up and remove engagement with body from weather-strip joint.

CAUTION:

Never pull strongly on back door weather-strip.

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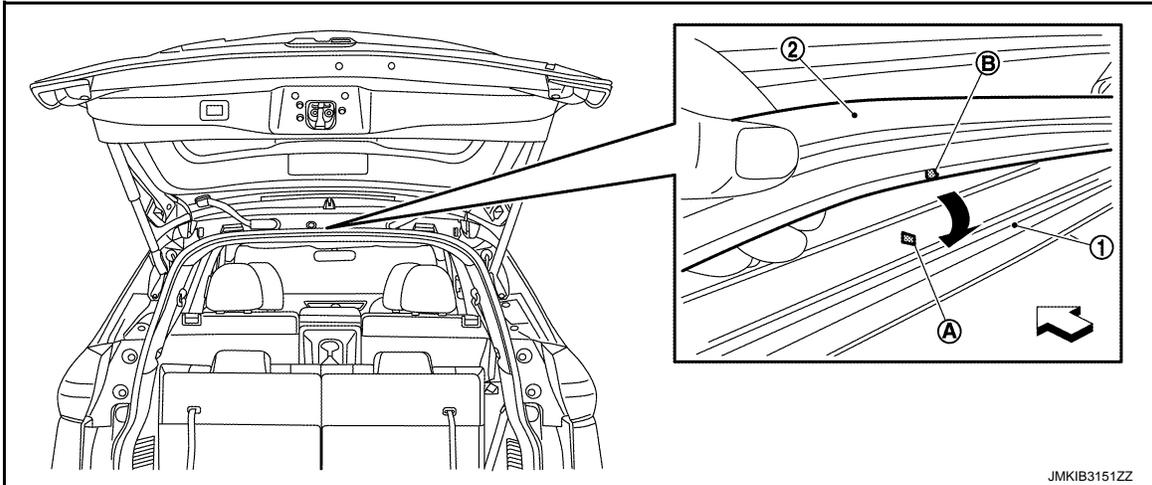
BACK DOOR

< REMOVAL AND INSTALLATION >

[TYPE 2]

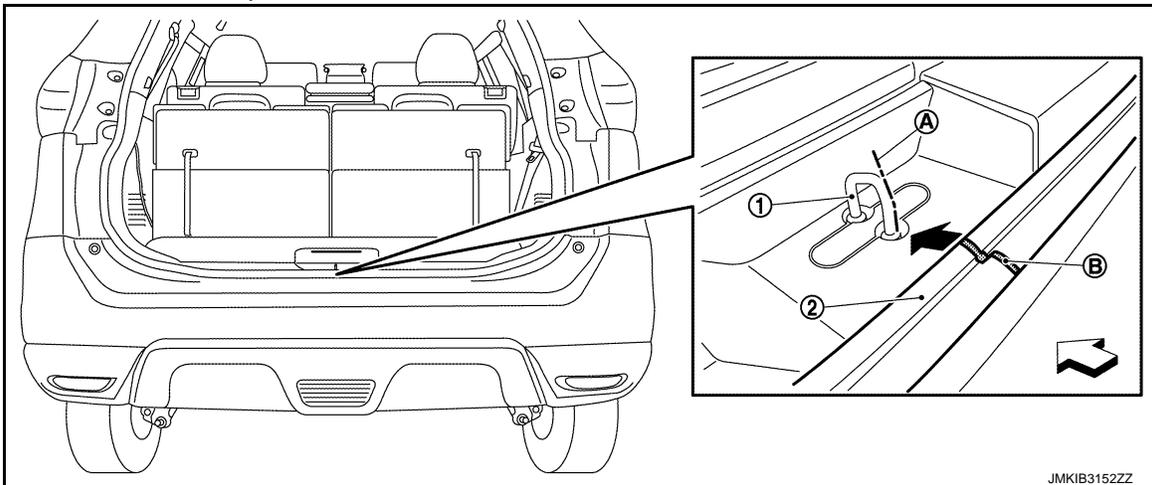
INSTALLATION

1. Working from the upper section, align back door weather-strip ② center mark ③ with vehicle center position mark ④ and install weather-strip onto the vehicle ①.



← : Vehicle front

2. Align the connecting point ③ of back door weather-strip ② with the center ④ of back door striker ①, and then install weather-strip onto the vehicle.



← : Vehicle front

3. Pull back door weather-strip gently to ensure that there is no loose section.

CAUTION:

Check that weather-strip fits tightly in each corner.

HOOD LOCK

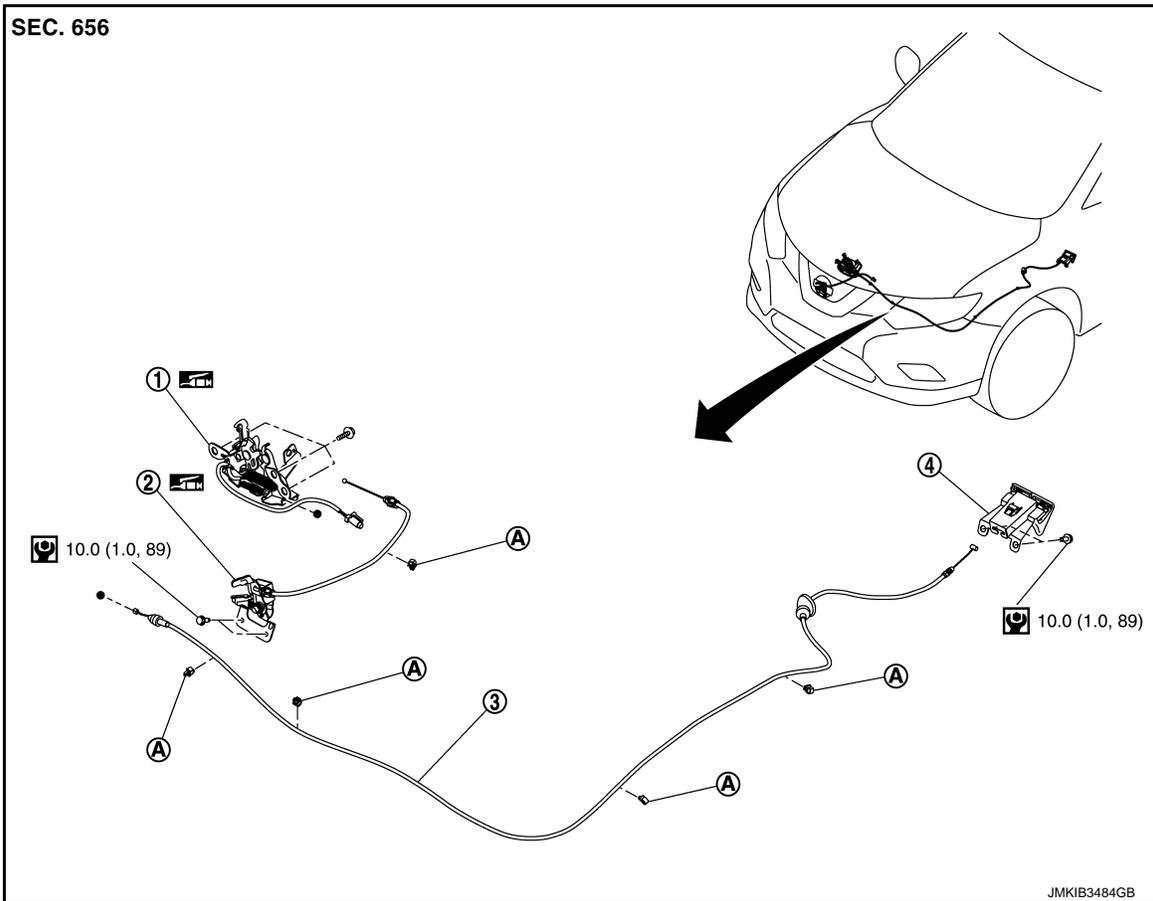
< REMOVAL AND INSTALLATION >

[TYPE 2]

HOOD LOCK

Exploded View

INFOID:000000010728147



- ① Hood lock assembly
- ② Hood lock bell crank assembly
- ③ Hood lock control cable assembly

- ④ Hood lock control handle assembly

- (A) Cable clip

: N·m (kg·m, in·lb)

: Body grease

HOOD LOCK

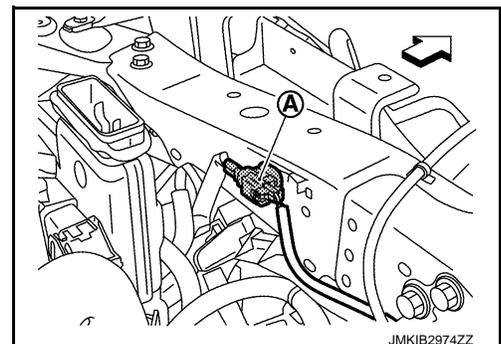
HOOD LOCK : Removal and Installation

INFOID:000000010728148

REMOVAL

1. Disconnect hood lock switch harness connector (A) (if equipped).

: Vehicle front



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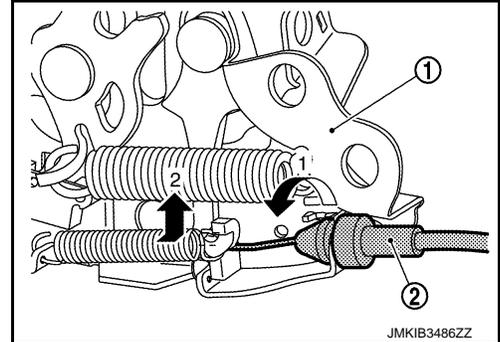
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HOOD LOCK

[TYPE 2]

< REMOVAL AND INSTALLATION >

2. Disconnect hood lock bell crank cable from hood lock assembly. Refer to [DLK-608, "HOOD LOCK BELL CRANK : Removal and Installation"](#).
3. Remove hood lock assembly mounting bolts, and then remove hood lock assembly.
4. Disconnect hood lock control cable assembly ② from hood lock assembly ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Never bend cable too much, keeping the radius 100 mm (3.937 in) or more.
- Check that hood lock control cable is properly engaged with hood lock.
- After installation, perform hood fitting adjustment. Refer to [DLK-567, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform hood lock control inspection. Refer to [DLK-606, "HOOD LOCK : Inspection"](#).

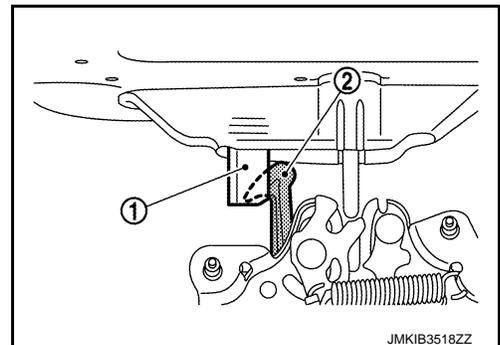
HOOD LOCK : Inspection

INFOID:000000010728149

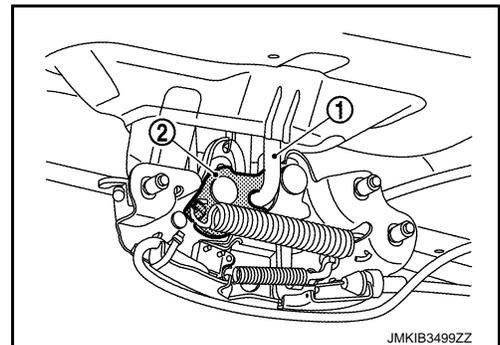
NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Check that hood opener operating is condition 49 N (5.0 kg, 11.0 lb) or below.
2. Check that secondary latch ② is securely engaged with secondary striker ① from the dead load of hood assembly.



3. Check that primary latch ② is securely engaged with primary striker ① when hood assembly is closed [free-fall from approximately 200 mm (7.874 in) height].

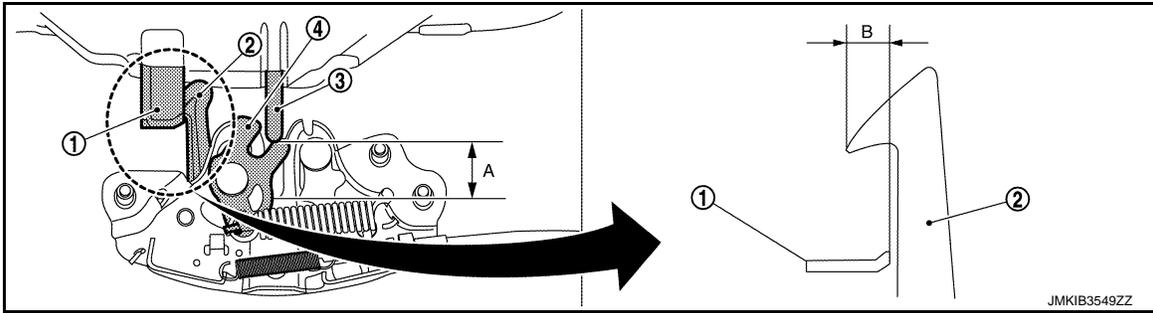


4. While operating the hood opener carefully, check that the front end of the hood is lifted by approximately 20 mm (0.787 in) (A). Also, check that the hood opener returns to the original position.

HOOD LOCK

< REMOVAL AND INSTALLATION >

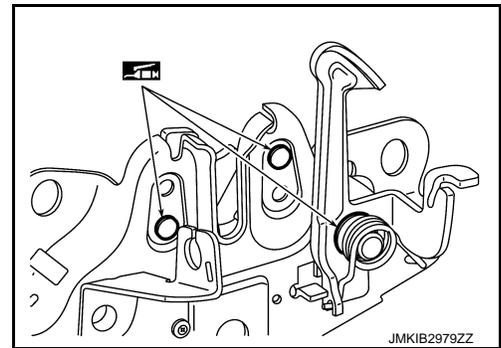
[TYPE 2]



- ① Secondary striker
- ② Secondary latch
- ③ Primary striker
- ④ Primary latch

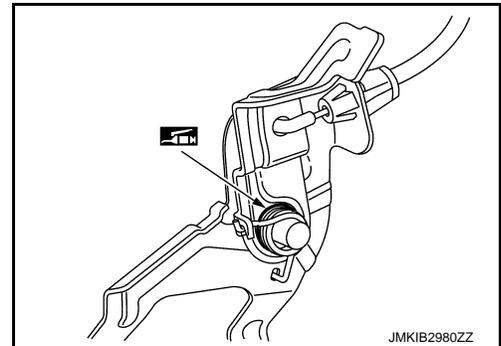
5. Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] (B).
6. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.
 - Hood lock assembly

 : Body grease



- Hood lock bell crank assembly

 : Body grease



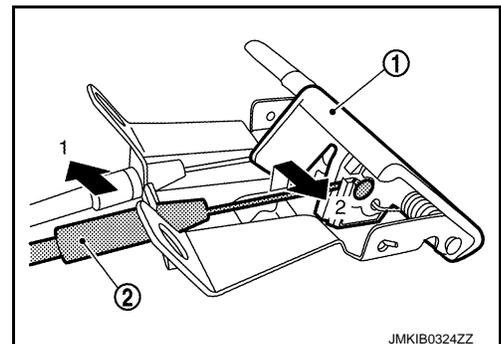
HOOD LOCK CONTROL HANDLE

HOOD LOCK CONTROL HANDLE : Removal and Installation

INFOID:000000010728150

REMOVAL

1. Remove hood lock control handle mounting bolts, and then remove hood lock control handle.
2. Remove hood lock control cable ② from hood opener lever ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



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HOOD LOCK

< REMOVAL AND INSTALLATION >

[TYPE 2]

3. Remove fuel filler lid opener cable from fuel filler lid opener lever. Refer to [DLK-625, "FUEL FILLER OPENER CABLE : Removal and Installation"](#).

INSTALLATION

Note the following item, and install in the reverse order of removal.

CAUTION:

After installation, perform hood lock control inspection. Refer to [DLK-606, "HOOD LOCK : Inspection"](#).

HOOD LOCK CONTROL CABLE

HOOD LOCK CONTROL CABLE : Removal and Installation

INFOID:000000010728151

REMOVAL

1. Remove air duct 1. Refer to [EM-31, "Removal and Installation"](#) (MR20DD) or [EM-175, "Removal and Installation"](#) (QR25DE) or [EM-308, "Removal and Installation"](#) (R9M).
2. Disconnect hood lock control cable assembly from hood lock assembly. Refer to [DLK-605, "HOOD LOCK : Removal and Installation"](#).
3. Remove fender protector LH. Refer to [EXT-35, "FENDER PROTECTOR : Removal and Installation"](#).
4. Remove hood lock control cable fixing clips.
5. Disconnect hood lock control cable assembly from hood lock control handle. Refer to [DLK-607, "HOOD LOCK CONTROL HANDLE : Removal and Installation"](#).
6. Remove dash side finisher LH. Refer to [INT-26, "DASH SIDE FINISHER : Removal and Installation"](#).
7. Remove grommet of the lower dash, and pull the hood lock control cable assembly toward inside vehicle.

CAUTION:

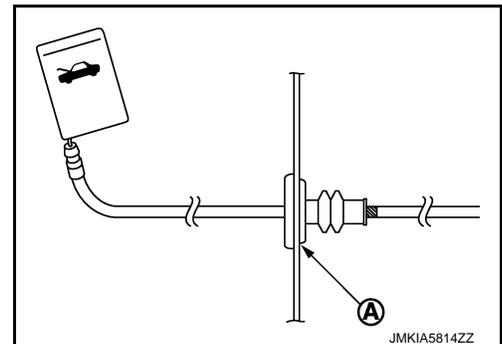
While pulling, never damage (peeling) the outside of hood lock control cable.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never bend cable too much, keeping the radius 100 mm (3.937 in) or more.
- Install grommet in the panel hole surely.
- Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (A) properly.



- After installation, perform hood lock control inspection. Refer to [DLK-606, "HOOD LOCK : Inspection"](#).

HOOD LOCK BELL CRANK

HOOD LOCK BELL CRANK : Removal and Installation

INFOID:000000010728152

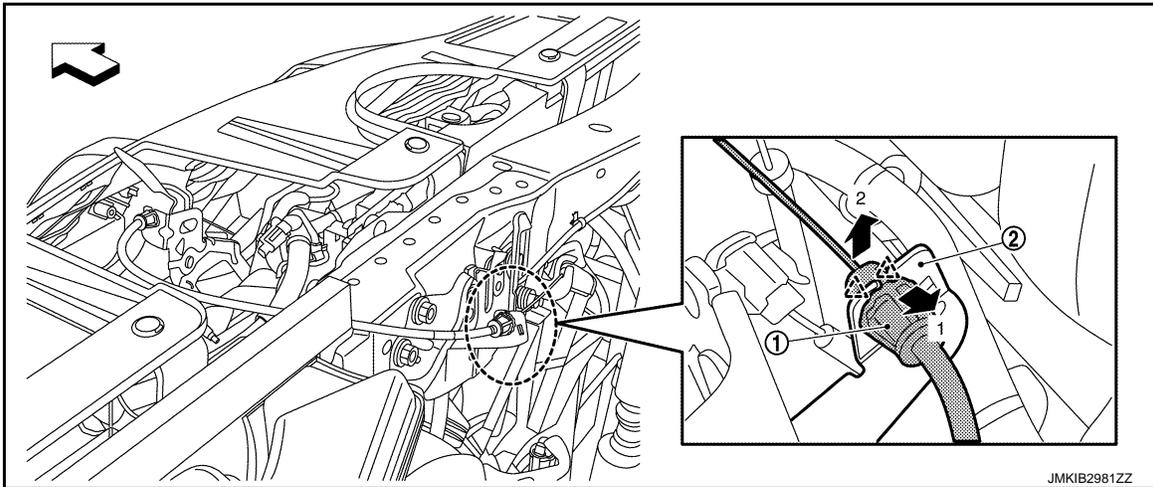
REMOVAL

HOOD LOCK

< REMOVAL AND INSTALLATION >

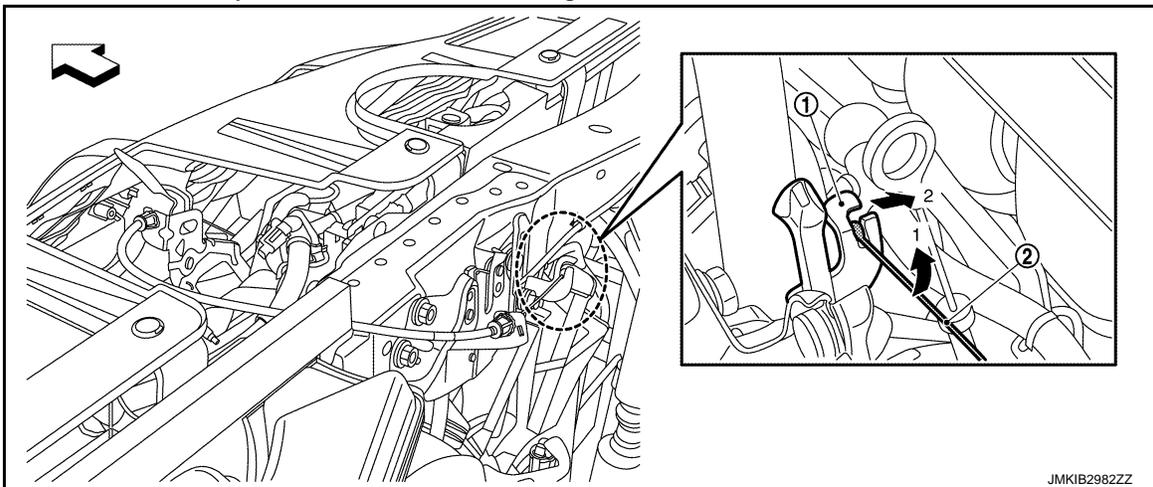
[TYPE 2]

1. Disengage pawls of hood lock bell crank cable and disconnect hood lock bell crank cable ① from housing bracket ② of hood lock assembly according to the numerical order 1→2 indicated by arrows as shown in the figure.



△ : Pawl
← : Vehicle front

2. Disconnect hood lock bell crank cable ② from lever ① of hood lock assembly according to the numerical order 1→2 indicated by arrows as shown in the figure.



← : Vehicle front

3. Remove hood lock bell crank assembly mounting bolts, and then remove hood lock bell crank assembly.

INSTALLATION

Note the following item, and install in the reverse order of removal.

CAUTION:

After installation, perform hood lock control inspection. Refer to [DLK-606, "HOOD LOCK : Inspection"](#).

FRONT DOOR LOCK

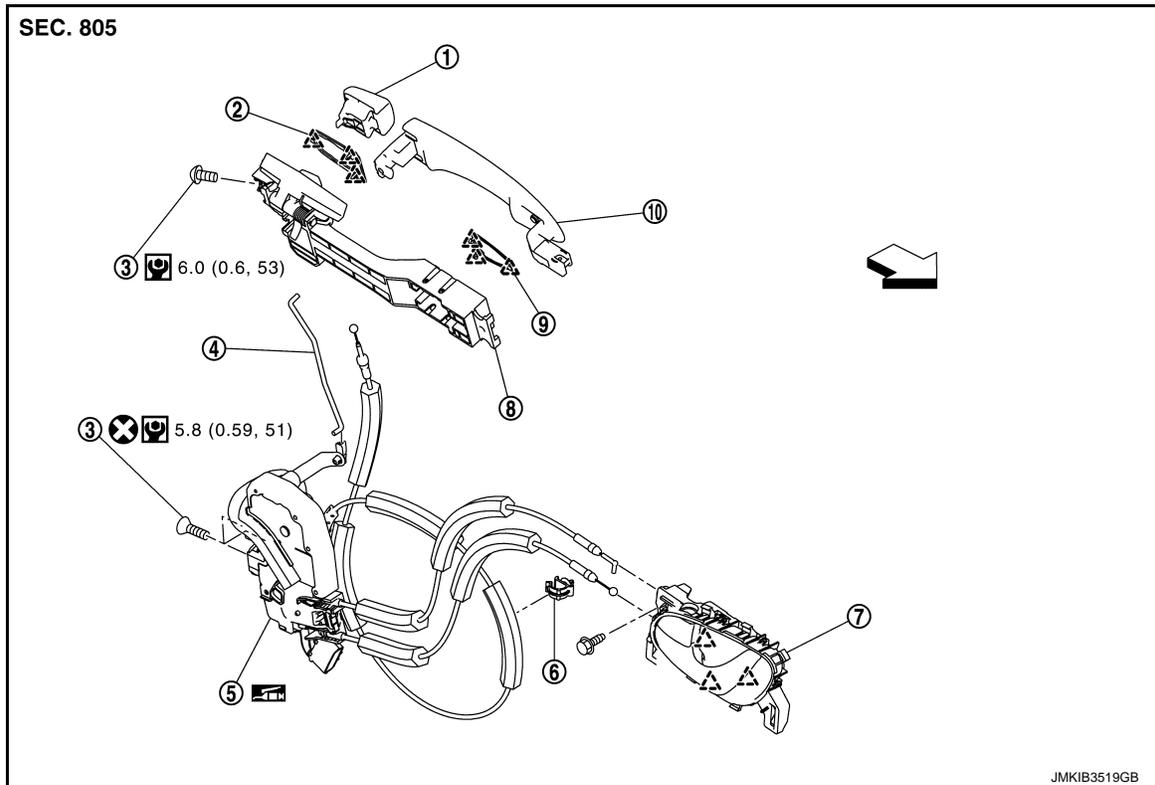
[TYPE 2]

< REMOVAL AND INSTALLATION >

FRONT DOOR LOCK

Exploded View

INFOID:000000010728153



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|-----------------------------|--------------------------|----------------|
| ① Outside handle escutcheon | ② Rear gasket | ③ TORX bolt |
| ④ Key rod (driver side) | ⑤ Door lock assembly | ⑥ Cable clip |
| ⑦ Inside handle | ⑧ Outside handle bracket | ⑨ Front gasket |
| ⑩ Outside handle grip | | |

△ : Pawl

← : Vehicle front

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, in·lb)

☑ : Body grease

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000010728154

REMOVAL

1. Disconnect lock knob cable and inside handle cable from inside handle. Refer to [DLK-611, "INSIDE HANDLE : Removal and Installation"](#).
2. Disconnect outside handle cable from outside handle bracket. Refer to [DLK-612, "OUTSIDE HANDLE : Removal and Installation"](#).
3. Disconnect door lock assembly connector.
4. Remove door lock assembly TORX bolts, and then remove door lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

DLK-610

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[TYPE 2]

CAUTION:

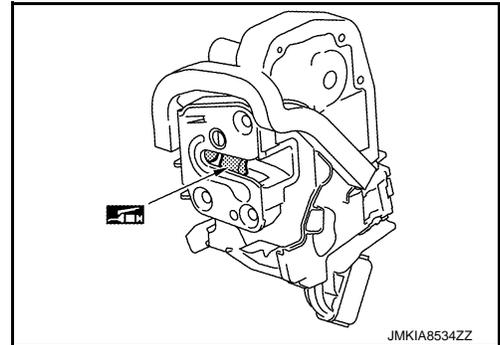
- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- When installing key rod, rotate key rod holder until a click is felt.
- After installation, check door lock. Refer to [DLK-611, "DOOR LOCK : Inspection"](#).

DOOR LOCK : Inspection

INFOID:000000010728155

1. After opening and closing the door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.
3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

 : Body grease



INSIDE HANDLE

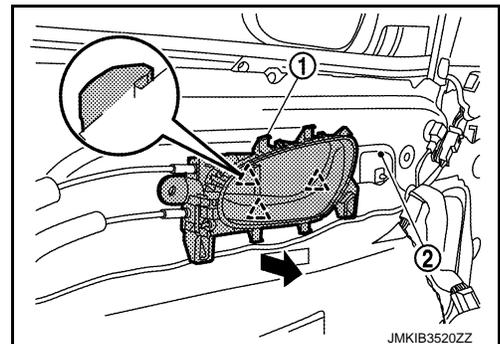
INSIDE HANDLE : Removal and Installation

INFOID:000000010728156

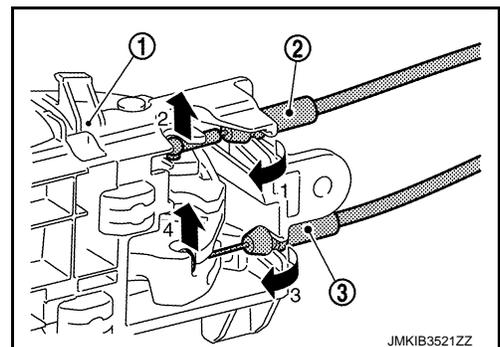
REMOVAL

1. Remove front door finisher. Refer to [INT-26, "DASH SIDE FINISHER : Removal and Installation"](#).
2. Remove inside handle mounting bolt.
3. Disengage inside handle ① from door panel ② while sliding inside handle toward vehicle rear, and then separate inside handle.

 : Pawl



4. Disengage lock knob cable ② and inside handle cable ③ from inside handle ① according to the numerical order 1→4 indicated by arrows as shown in the figure.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check door lock. Refer to [DLK-611, "DOOR LOCK : Inspection"](#).

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DLK

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[TYPE 2]

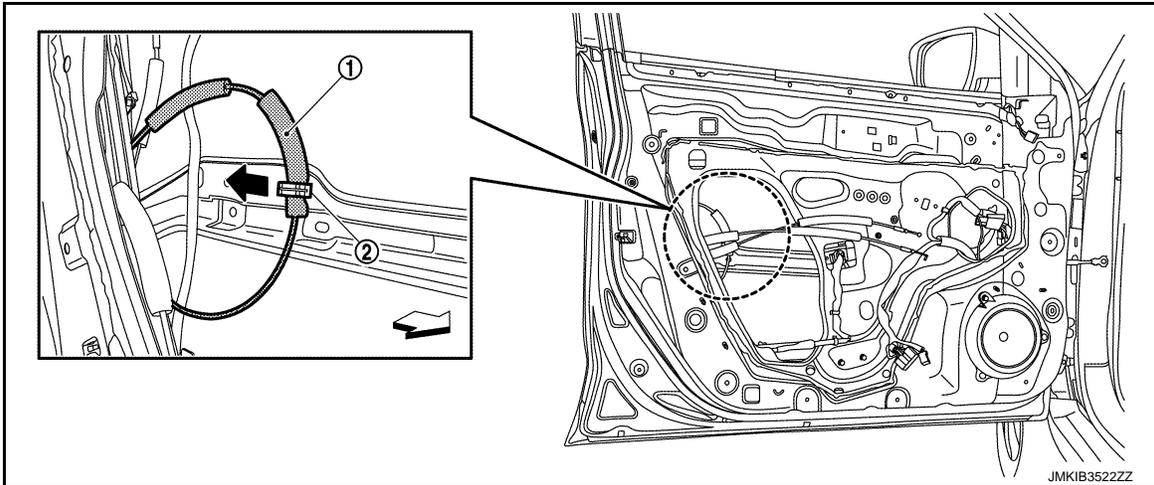
OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

INFOID:000000010728157

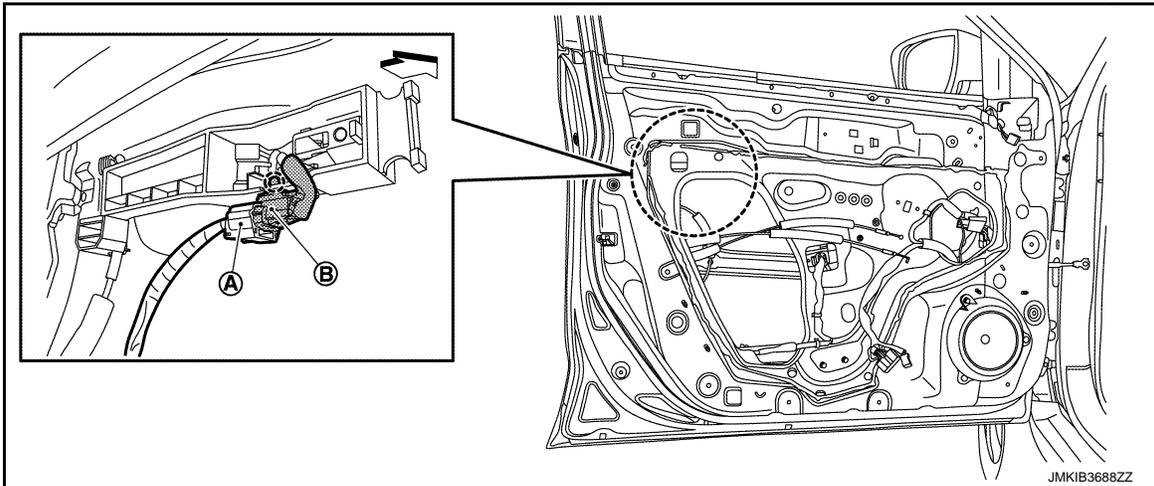
REMOVAL

1. Fully close the front door glass.
2. Remove front door finisher. Refer to [INT-14, "Removal and Installation"](#).
3. Remove inside handle. Refer to [DLK-611, "INSIDE HANDLE : Removal and Installation"](#).
4. Remove sealing screen and front door glass run lower sash. Refer to [GW-43, "FRONT DOOR GLASS RUN LOWER SASH : Removal and Installation"](#).
5. Disengage outside handle cable ① from cable clip ②.



← : Vehicle front

6. Disconnect door harness connector ① and disengage outside handle harness connector fixing clip ②.



○ : Clip

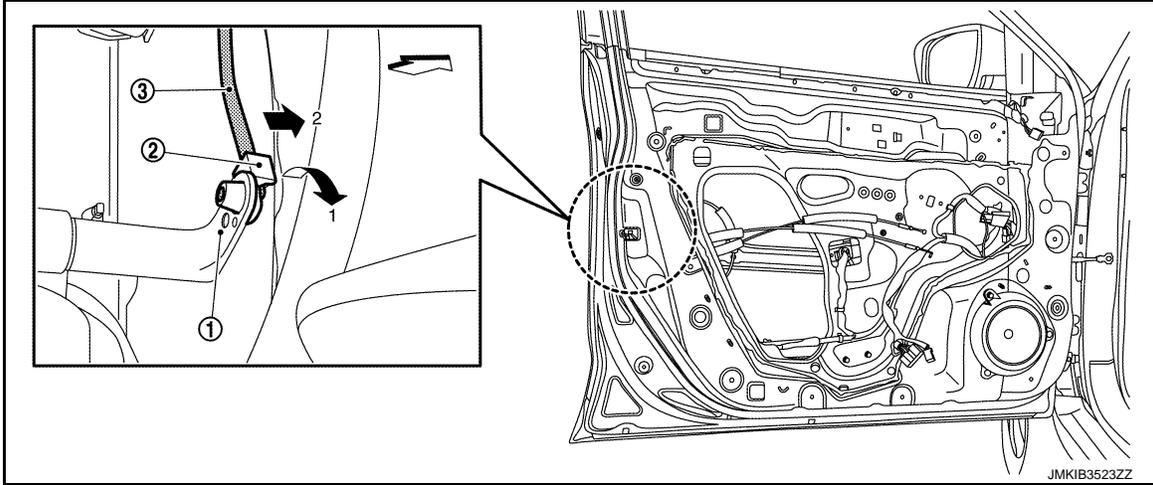
← : Vehicle front

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

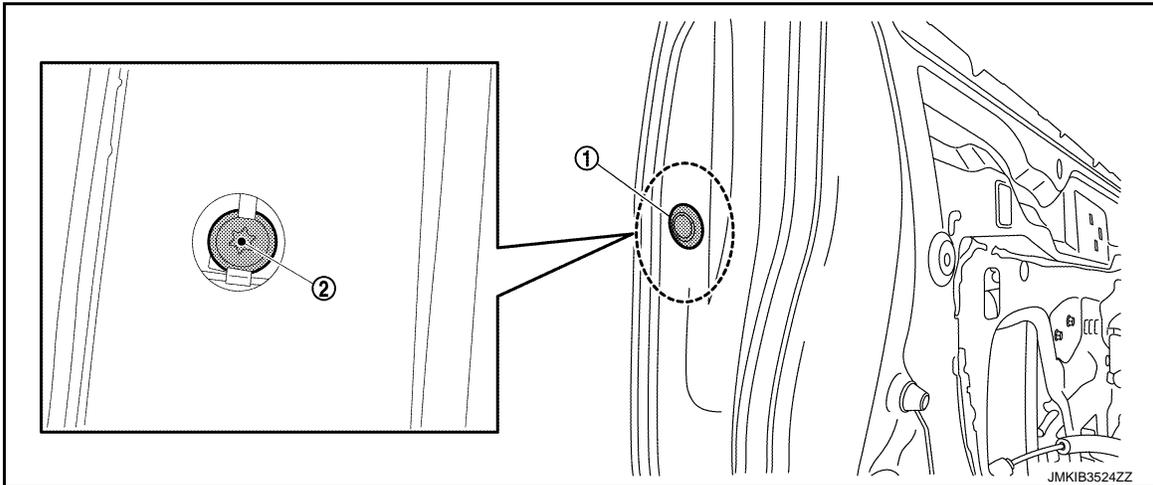
[TYPE 2]

7. Disengage rod holder ② and disconnect key rod ③ from door lock assembly ① according to the numerical order 1→2 indicated by arrows as shown in the figure (driver side).

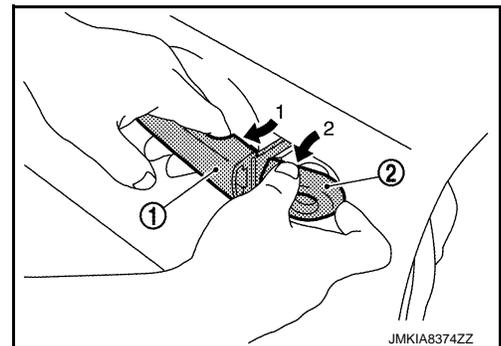


← : Vehicle front

8. Remove door side grommet ①, and then loosen TORX bolt ② from grommet hole.



9. Remove outside handle escutcheon ② while pulling outside handle grip ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



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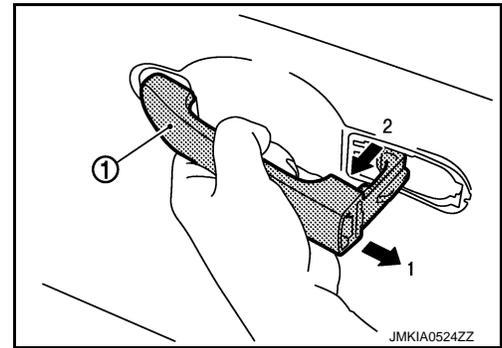
DLK

FRONT DOOR LOCK

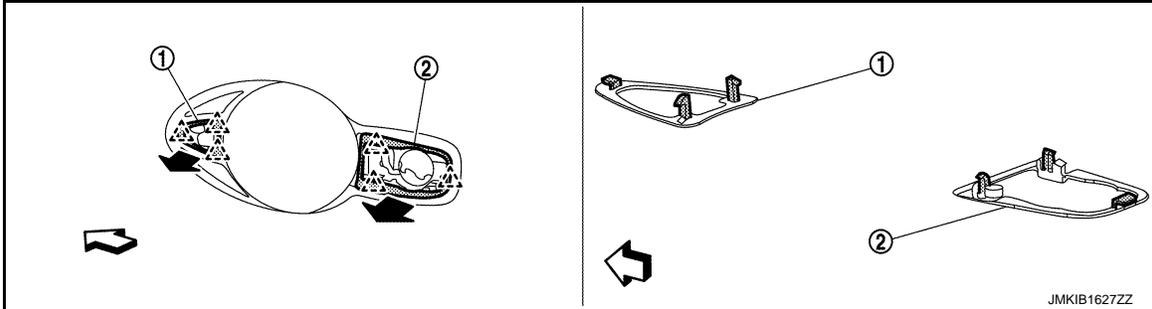
< REMOVAL AND INSTALLATION >

[TYPE 2]

10. Slide outside handle grip ① toward rear of vehicle and remove it according to the numerical order 1→2 indicated by arrows as shown in the figure.



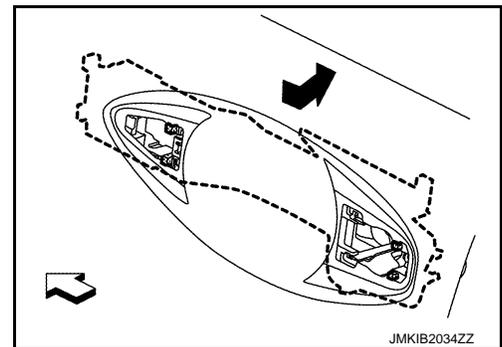
11. Remove front gasket ① and rear gasket ②.



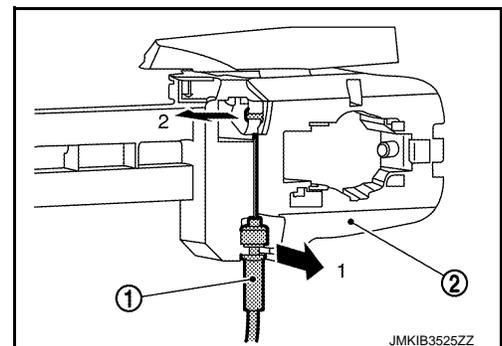
△ : Pawl
⇐ : Vehicle front

12. Slide outside handle bracket toward rear of vehicle and remove it.

⇐ : Vehicle front



13. Disconnect outside handle cable ① from outside handle bracket ② according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- When installing key rod, rotate key rod holder until a click is felt.
- After installation, check door lock. Refer to [DLK-611, "DOOR LOCK : Inspection"](#).

REAR DOOR LOCK

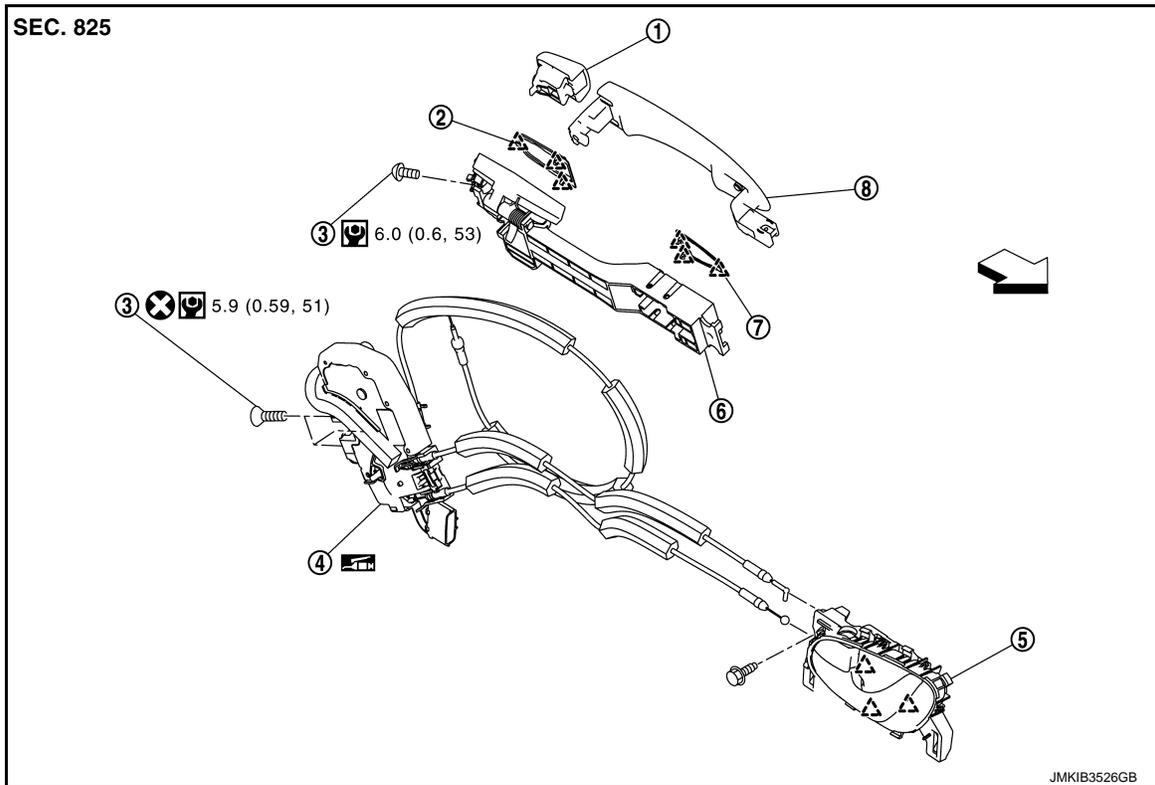
< REMOVAL AND INSTALLATION >

[TYPE 2]

REAR DOOR LOCK

Exploded View

INFOID:000000010728158



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|-----------------------------|-----------------------|--------------------------|
| ① Outside handle escutcheon | ② Rear gasket | ③ TORX bolt |
| ④ Door lock assembly | ⑤ Inside handle | ⑥ Outside handle bracket |
| ⑦ Front gasket | ⑧ Outside handle grip | |

△ : Pawl

← : Vehicle front

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg-m, in-lb)

Ⓜ : Body grease

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000010728159

REMOVAL

1. Disconnect lock knob cable and inside handle cable from inside handle. Refer to [DLK-616. "INSIDE HANDLE : Removal and Installation"](#).
2. Disconnect outside handle cable from outside handle bracket. Refer to [DLK-617. "OUTSIDE HANDLE : Removal and Installation"](#).
3. Disconnect door lock assembly connector.
4. Remove door lock assembly TORX bolts, and then remove door lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.

DLK-615

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REAR DOOR LOCK

[TYPE 2]

< REMOVAL AND INSTALLATION >

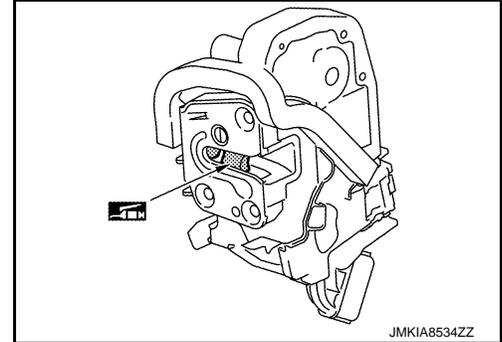
- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- After installation, check door lock. Refer to [DLK-616, "DOOR LOCK : Inspection"](#).

DOOR LOCK : Inspection

INFOID:000000010728160

1. After opening and closing the door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.
3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

 : Body grease



INSIDE HANDLE

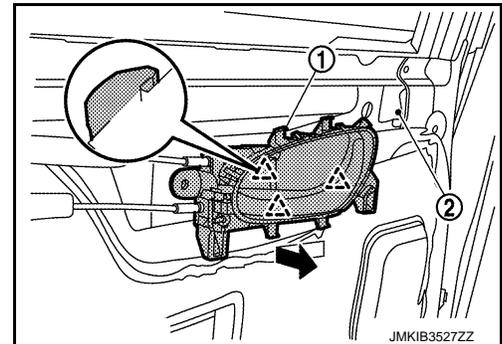
INSIDE HANDLE : Removal and Installation

INFOID:000000010728161

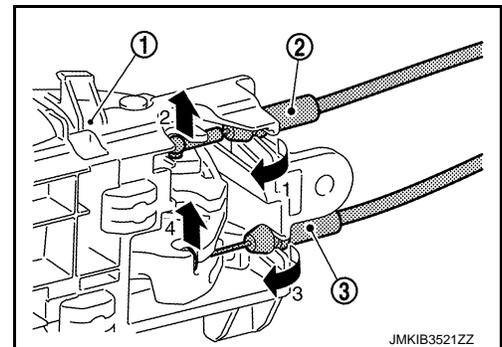
REMOVAL

1. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
2. Remove inside handle mounting bolt.
3. Disengage inside handle ① from door panel ② while sliding inside handle toward vehicle rear, and then separate inside handle.

 : Pawl



4. Disengage lock knob cable ② and inside handle cable ③ from inside handle ① according to the numerical order 1→4 indicated by arrows as shown in the figure.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check door lock. Refer to [DLK-616, "DOOR LOCK : Inspection"](#).

OUTSIDE HANDLE

REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

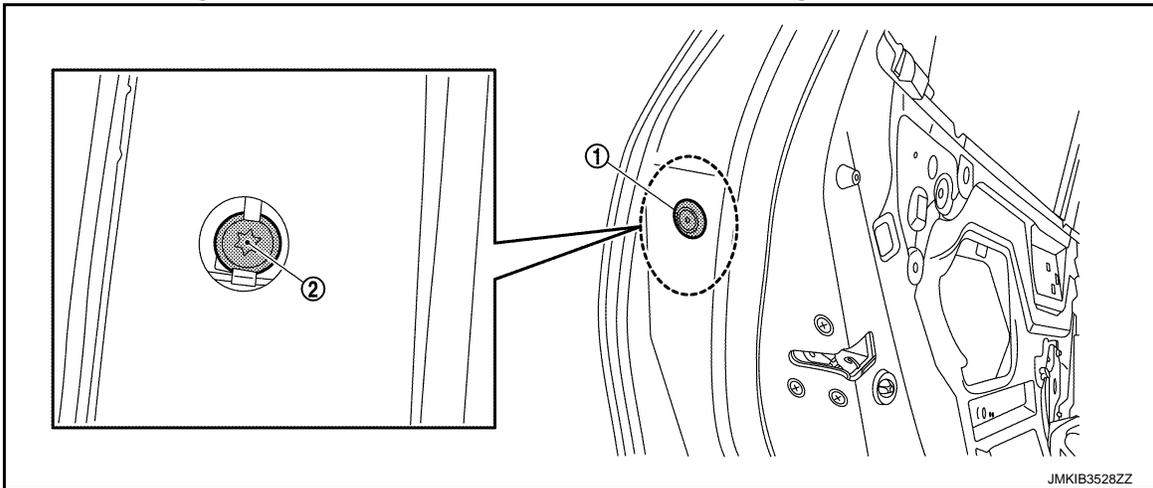
[TYPE 2]

OUTSIDE HANDLE : Removal and Installation

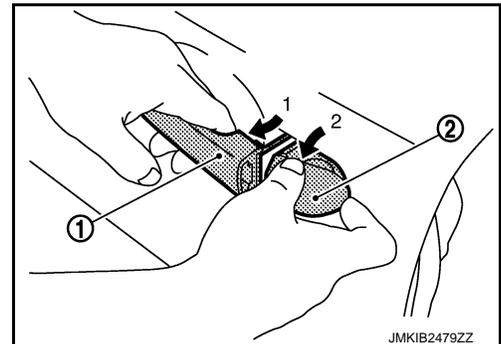
INFOID:000000010728162

REMOVAL

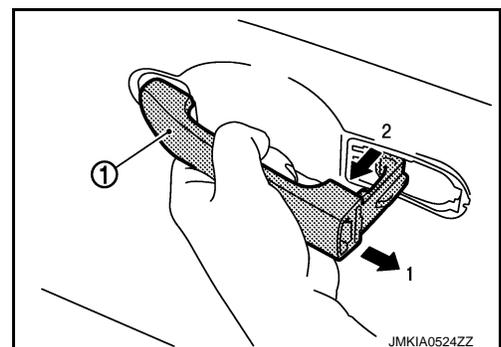
1. Fully close the rear door glass.
2. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
3. Remove inside handle. Refer to [DLK-616, "INSIDE HANDLE : Removal and Installation"](#).
4. Remove sealing screen and rear door lower sash. Refer to [GW-52, "REAR DOOR LOWER SASH : Removal and Installation"](#).
5. Remove door side grommet ①, and then loosen TORX bolt ② from grommet hole.



6. Remove outside handle escutcheon ② while pulling outside handle grip ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



7. Slide outside handle grip ① toward rear of vehicle and remove it according to the numerical order 1→2 indicated by arrows as shown in the figure.



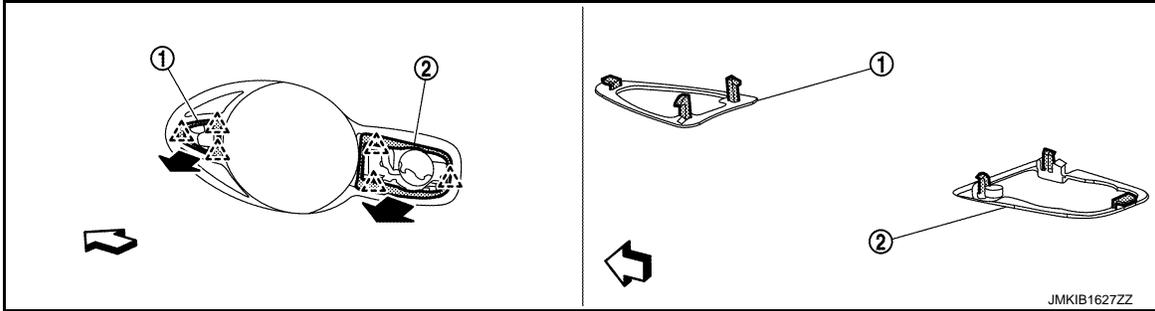
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REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[TYPE 2]

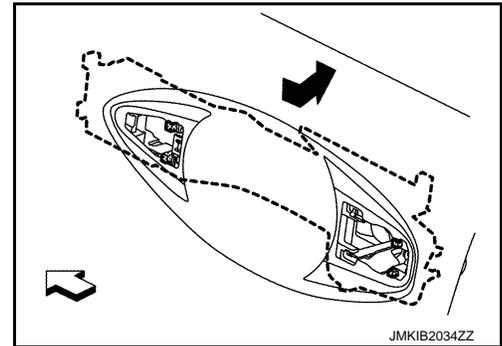
8. Remove front gasket ① and rear gasket ②.



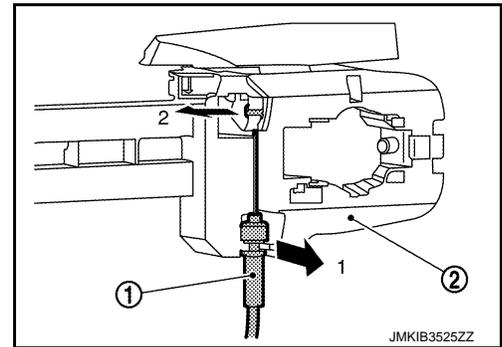
△ : Pawl
⇐ : Vehicle front

9. Slide outside handle bracket toward rear of vehicle and remove it.

⇐ : Vehicle front



10. Disconnect outside handle cable ① from outside handle bracket ② according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- After installation, check door lock. Refer to [DLK-616, "DOOR LOCK : Inspection"](#).

BACK DOOR LOCK

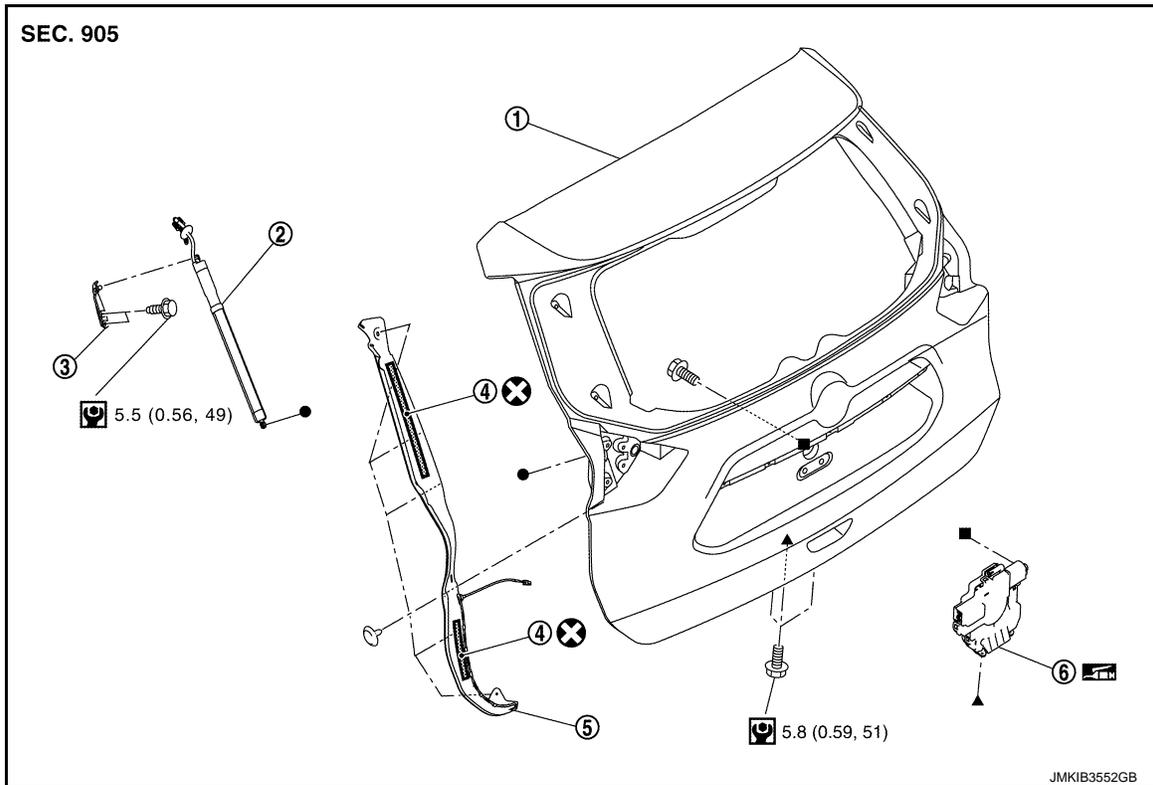
< REMOVAL AND INSTALLATION >

[TYPE 2]

BACK DOOR LOCK

Exploded View

INFOID:000000010728163



- ① Back door panel
- ② Spindle unit
- ③ Back door stay upper bracket
- ④ Double-sided tape [t: 1.2 mm (0.047 in)]
- ⑤ Back door touch sensor
- ⑥ Back door lock & remote control assembly

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, in·lb)

Ⓜ : Body grease

●, ▲, ■: Indicates that the part is connected at points with same symbol in actual vehicle.

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000010728164

REMOVAL

1. Remove back door inner finisher. Refer to [INT-47, "Removal and Installation"](#).
2. Disconnect back door lock & remote control assembly harness connector.
3. Remove back door lock & remote control assembly mounting bolts, and then remove back door lock & remote control assembly from back door panel.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check back door lock. Refer to [DLK-619, "DOOR LOCK : Inspection"](#).

DOOR LOCK : Inspection

INFOID:000000010728165

1. After opening and closing the back door, check that door is fixed to the vehicle body normally.

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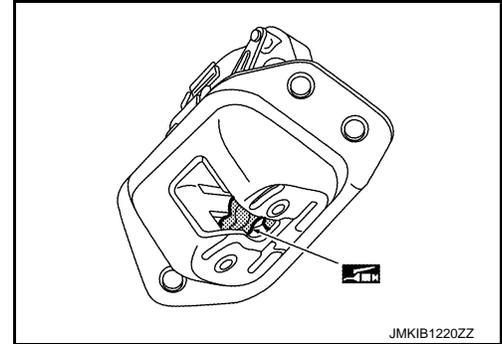
BACK DOOR LOCK

[TYPE 2]

< REMOVAL AND INSTALLATION >

2. Check the lock/unlock operation of door lock.
3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

 : Body grease



DOOR LOCK : Unlock procedures

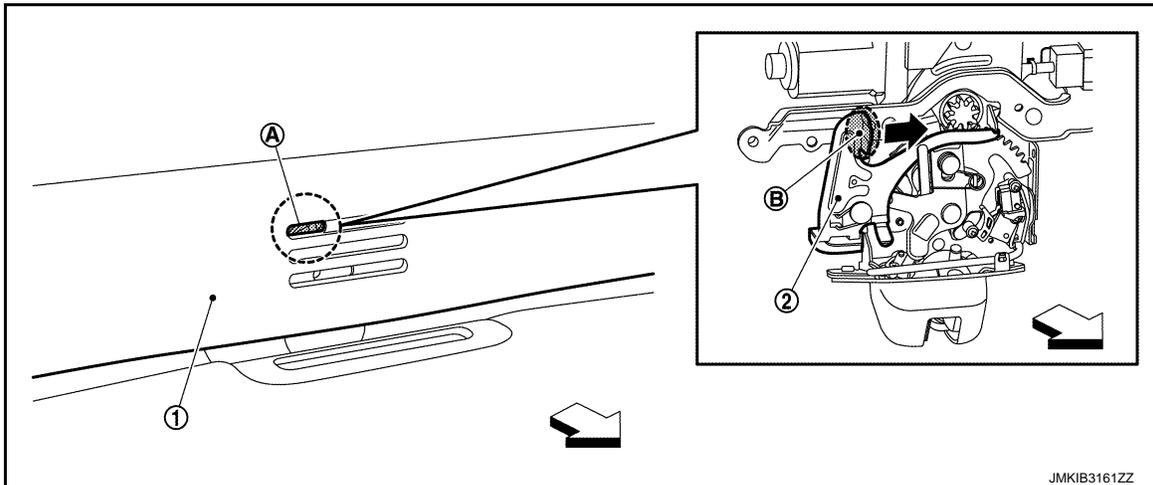
INFOID:000000010728166

UNLOCK PROCEDURES

NOTE:

Release lock according to the following procedures when lock cannot be unlocked due to a malfunction of door lock assembly or battery discharge.

Insert a screwdriver, etc. into tool insertion hole (A) of back door inner finisher (1), and then back door lock is unlocked by operating knob (B) of cancel lever (2) in the direction of arrow as shown in the figure.



 : Vehicle front

SPINDLE UNIT

SPINDLE UNIT : Removal and Installation

INFOID:000000010728167

REMOVAL

1. Disconnect battery negative terminal. Refer to [PG-139. "R9M : Removal and Installation"](#).
2. Remove luggage side upper finisher. Refer to [INT-45. "LUGGAGE SIDE UPPER FINISHER : Removal and Installation"](#).

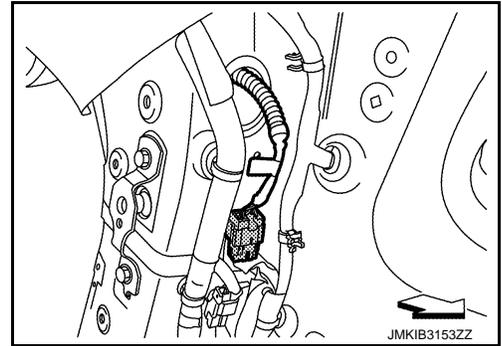
BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

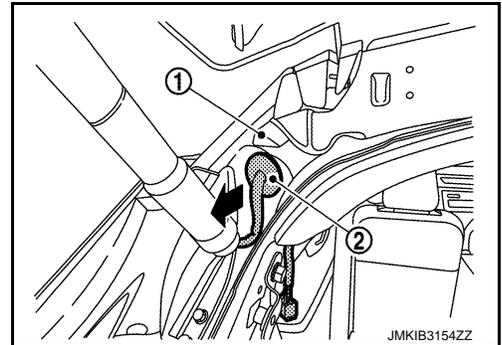
[TYPE 2]

3. Disconnect spindle unit harness connector.

↶ : Vehicle front



4. Remove harness grommet ② from back main center pillar ①, and then pull out spindle unit harness from vehicle body.

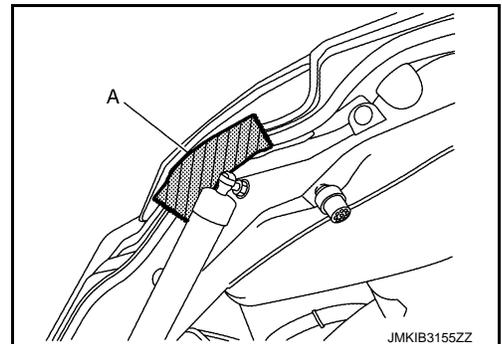


5. Support back door with the proper material to prevent it from falling.

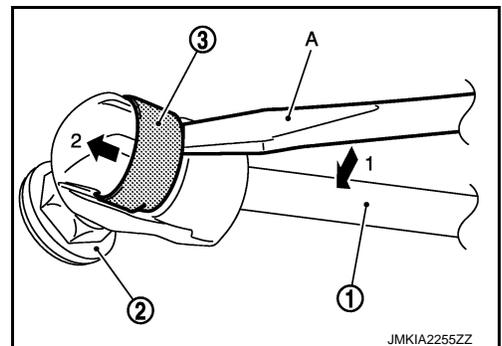
WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

6. Apply protective tape (A) to back door touch sensor around spindle unit for preventing damage.



7. Remove metal clip ③ located on connection between back door stay ① and stud ball ② using a remover tool (A) according to the numerical order 1→2 indicated by arrows as shown in the figure.



8. Disengage spindle unit and stud ball of back door side.
9. Remove back door stay upper bracket mounting bolts, and then remove spindle unit with back door stay upper bracket.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

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BACK DOOR LOCK

[TYPE 2]

< REMOVAL AND INSTALLATION >

- Perform calibration of automatic back door position information. Refer to [DLK-427, "Work Procedure"](#).
- After installation, check back door lock. Refer to [DLK-619, "DOOR LOCK : Inspection"](#).

TOUCH SENSOR

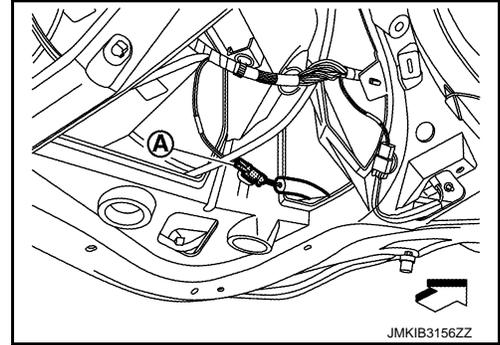
TOUCH SENSOR : Removal and Installation

INFOID:000000010728168

REMOVAL

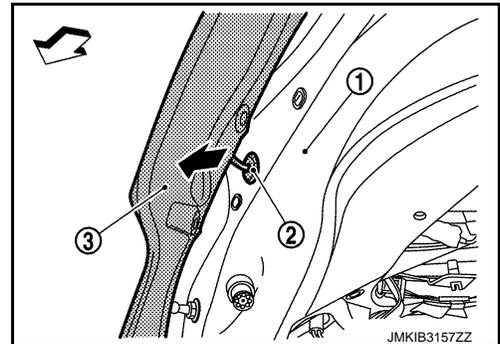
1. Remove back door inner finisher. Refer to [INT-47, "Removal and Installation"](#).
2. Disconnect back door touch sensor harness connector (A).

⇐ : Vehicle front



3. Remove spindle unit of back door side.
4. Remove back door touch sensor fixing clips, and then remove back door touch sensor while tearing off double-sided tape.
5. Remove harness grommet (2) from back door panel (1), and then pull out back door touch sensor harness from back door panel and remove back door touch sensor (3).

⇐ : Vehicle front



INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Before installing, remove double-sided tape remaining on back door touch sensor and back door panel neatly.
- When installing, apply primer for resin to double-sided tape sticking point of back door touch sensor and back door panel.
- After installing, check that there is no clearance between back door touch sensor and back door panel.
- After installing, check that back door turns over normally by back door touch sensor.
- After installation, check door lock. Refer to [DLK-619, "DOOR LOCK : Inspection"](#).

FUEL FILLER LID OPENER

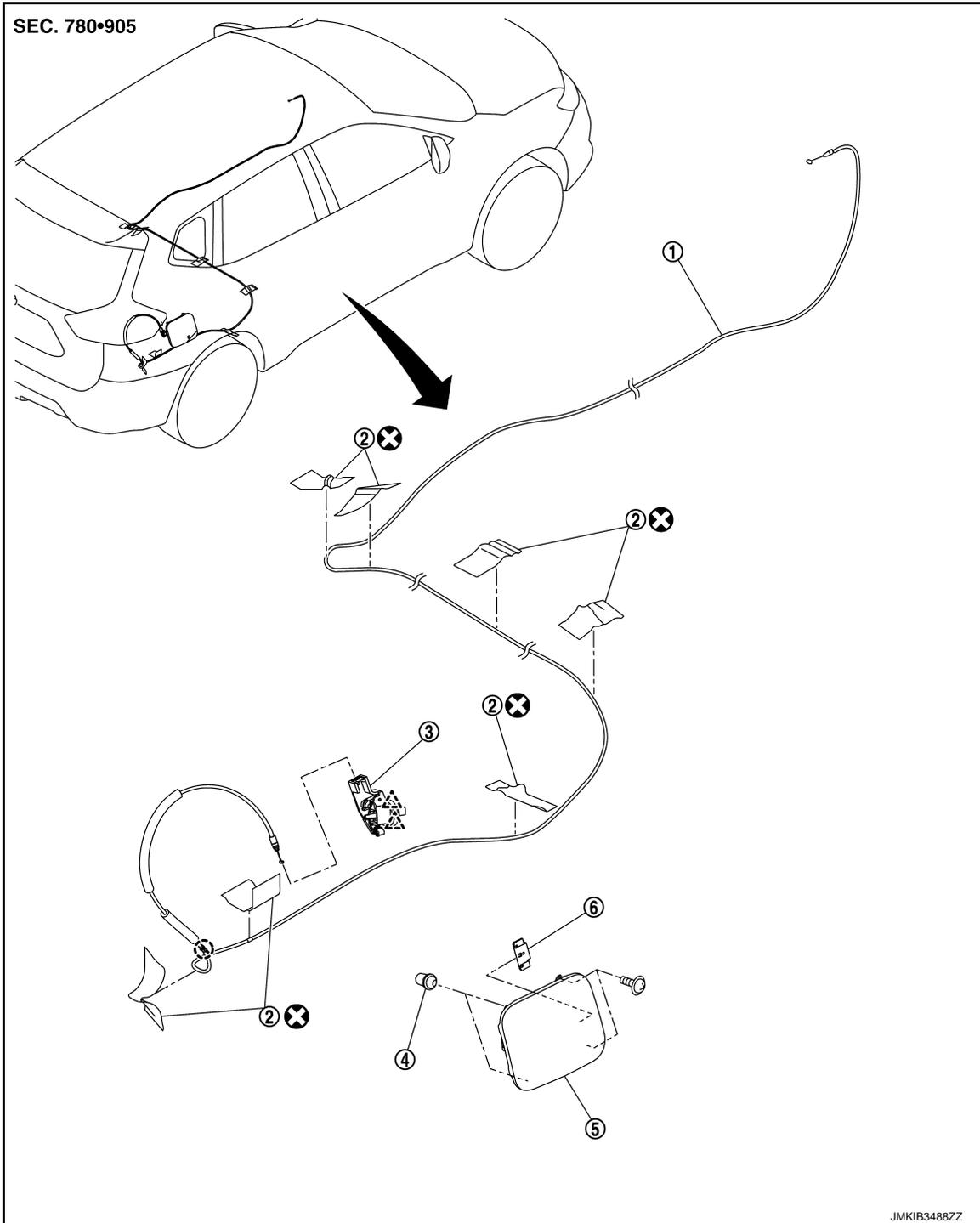
< REMOVAL AND INSTALLATION >

[TYPE 2]

FUEL FILLER LID OPENER

Exploded View

INFOID:000000010728169



- ① Fuel filler lid opener cable
- ② Cable protector
- ③ Fuel filler lid lock assembly
- ④ Bumper rubber
- ⑤ Fuel filler lid assembly
- ⑥ Spring

⊖ : Clip

⚠ : Pawl

⊗ : Always replace after every disassembly.

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FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[TYPE 2]

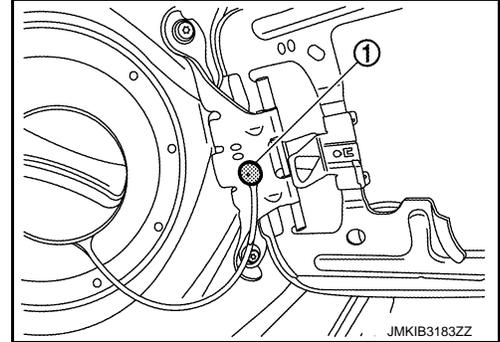
FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

INFOID:000000010728170

REMOVAL

1. Fully open fuel filler lid.
2. Remove fuel mounting pin ①.



3. Remove mounting bolts, and then remove fuel filler lid assembly.

INSTALLATION

Note the following items, and then 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.
- After installation, check fuel filler lid assembly open/close, lock/unlock operation.

NOTE:

- The following table shows the specified values for checking normal installation status.
- Fitting adjustment cannot be performed.

Unit: mm [in]

	Clearance	Evenness
Fuel filler lid – Body side outer	2.5 – 4.5 [0.098 – 0.177]	(-1.0) – (+1.0) [(-0.039) – (+0.039)]

FUEL FILLER LID LOCK

FUEL FILLER LID LOCK : Removal and Installation

INFOID:000000010728171

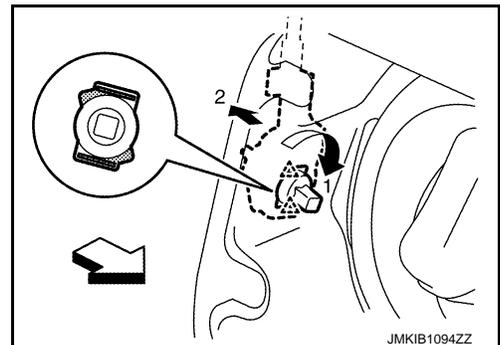
REMOVAL

1. Fully open fuel filler lid.
2. Remove luggage side lower finisher RH. Refer to [INT-43. "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).
3. Rotate fuel filler lid lock assembly to disengage pawls and remove fuel filler lid lock assembly according to the numerical order 1→2 indicated by arrows as shown in the figure.

NOTE:

Operation is performed easily when rotating fuel filler lid lock from passenger room side.

-  : Pawl
 : Vehicle front

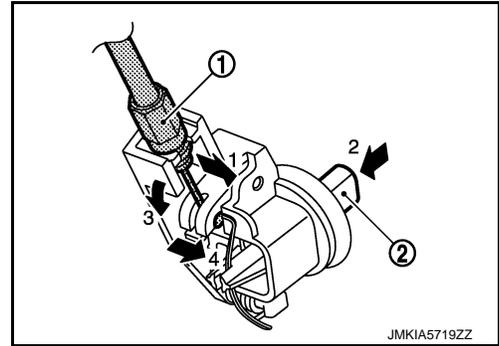


FUEL FILLER LID OPENER

[TYPE 2]

< REMOVAL AND INSTALLATION >

4. Disengage fuel filler lid opener cable ① and remove fuel filler lid opener cable while pressing stopper pin ② according to the numerical order 1→4 indicated by arrows as shown in the figure.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

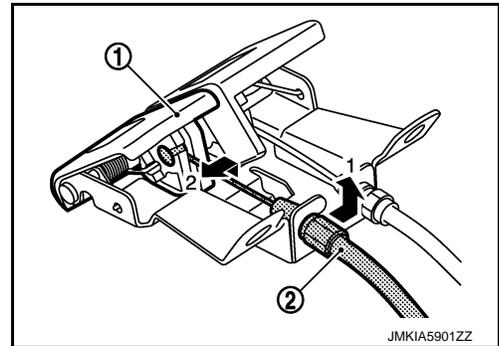
FUEL FILLER OPENER CABLE

FUEL FILLER OPENER CABLE : Removal and Installation

INFOID:000000010728172

REMOVAL

1. Remove hood lock control handle mounting bolts, and then hood lock control handle. Refer to [DLK-607, "HOOD LOCK CONTROL HANDLE : Removal and Installation"](#).
2. Remove fuel filler lid opener cable ② from fuel filler lid opener lever ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



3. Remove kicking plate inner LH and rear kicking plate inner (LH and RH). Refer to [INT-24, "KICKING PLATE : Removal and Installation"](#).
4. Remove dash side finisher LH. Refer to [INT-26, "DASH SIDE FINISHER : Removal and Installation"](#).
5. Remove center pillar lower garnish LH. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).
6. Remove luggage side lower finisher RH. Refer to [INT-43, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).
7. Remove fuel filler lid opener cable from fuel filler lid lock assembly. Refer to [DLK-624, "FUEL FILLER LID LOCK : Removal and Installation"](#).
8. Remove fuel filler lid opener cable from harness protectors.
9. Remove fuel filler lid opener cable fixing clips, and then remove fuel filler lid opener cable.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

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DOOR SWITCH

< REMOVAL AND INSTALLATION >

[TYPE 2]

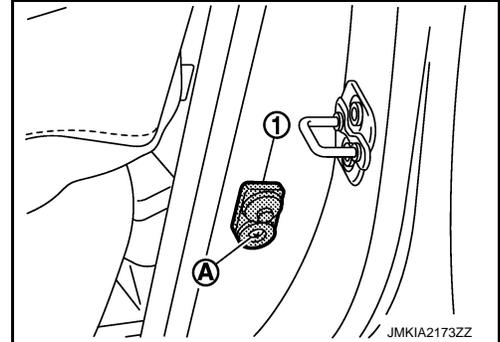
DOOR SWITCH

Removal and Installation

INFOID:000000010717716

REMOVAL

1. Remove the TORX bolt (A).
2. Disconnect door switch harness connector and then remove door switch (1).



INSTALLATION

Install in the reverse order of removal.

INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[TYPE 2]

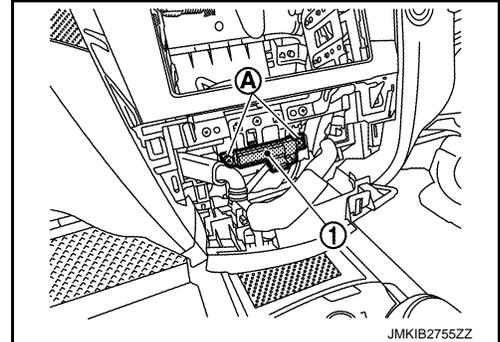
INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Removal and Installation

INFOID:0000000010717717

REMOVAL

1. Remove A/C control. Refer to [HAC-125. "Removal and Installation"](#).
2. Disconnect inside key antenna (instrument center) harness connector.
3. Remove inside key antenna (instrument center) mounting clip (A), and then remove inside key antenna (instrument center) (1).



INSTALLATION

Install in the reverse order of removal.

LUGGAGE ROOM

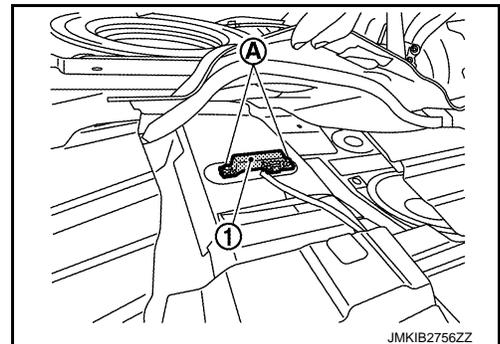
LUGGAGE ROOM : Removal and Installation

INFOID:0000000010717718

REMOVAL

3 Seat Rows

1. Remove rear seat. Refer to [SE-54. "Removal and Installation"](#).
2. Disconnect inside key antenna (luggage room) harness connector.
3. Remove inside key antenna (luggage room) mounting clip (A), and then remove inside key antenna (luggage room) (1).



2 Seat Rows

1. Remove luggage floor board. Refer to [INT-40. "Exploded View"](#).
2. Disconnect inside key antenna (luggage room) harness connector.

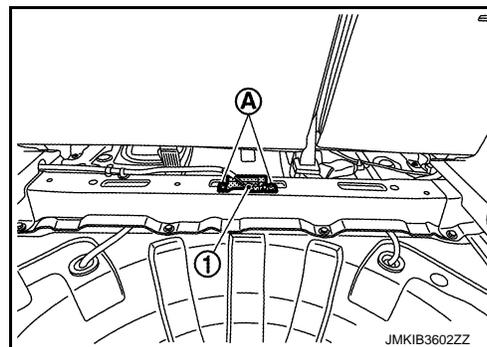
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INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[TYPE 2]

3. Remove inside key antenna (luggage room) mounting clip[Ⓐ], and then remove inside key antenna (luggage room)^①.



INSTALLATION

Install in the reverse order of removal.

OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[TYPE 2]

OUTSIDE KEY ANTENNA FRONT DOOR

FRONT DOOR : Removal and Installation

INFOID:000000010717719

REMOVAL

Remove outside handle grip. Refer to [DLK-612. "OUTSIDE HANDLE : Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

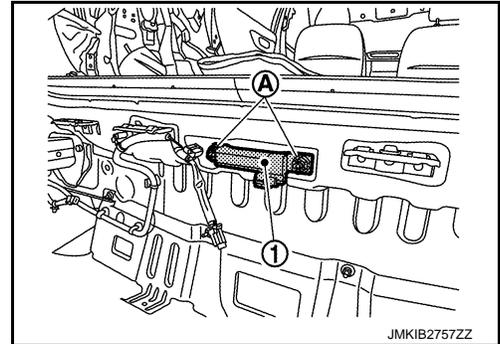
REAR BUMPER

REAR BUMPER : Removal and Installation

INFOID:000000010717720

REMOVAL

1. Remove rear bumper fascia. Refer to [EXT-18. "Removal and Installation"](#).
2. Disconnect outside key antenna (rear bumper) harness connector.
3. Remove the outside key antenna (rear bumper) mounting clip(A), and then remove outside key antenna (rear bumper)①.



INSTALLATION

Install in the reverse order of removal.

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INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

[TYPE 2]

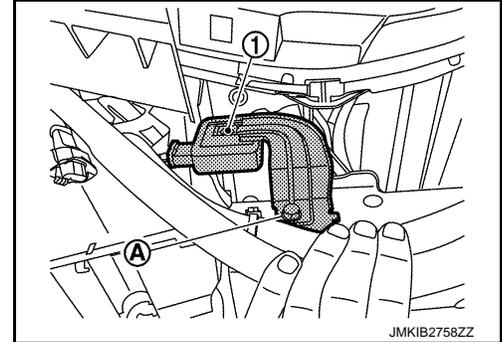
INTELLIGENT KEY WARNING BUZZER

Removal and Installation

INFOID:000000010717721

REMOVAL

1. Remove front bumper fascia. Refer to [EXT-15, "Removal and Installation"](#).
2. Disconnect Intelligent Key warning buzzer harness connector.
3. Remove Intelligent Key warning buzzer mounting boltⒶ, and then remove Intelligent Key warning buzzerⓂ.



INSTALLATION

Install in the reverse order of removal.

INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

[TYPE 2]

INTELLIGENT KEY BATTERY

Removal and Installation

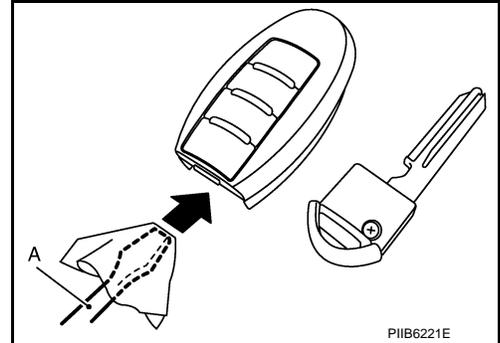
INFOID:000000010717722

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.

2. Insert remover tool (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.

CAUTION:

- Never touch the circuit board or battery terminal.
- The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.



3. Replace the battery with new one.

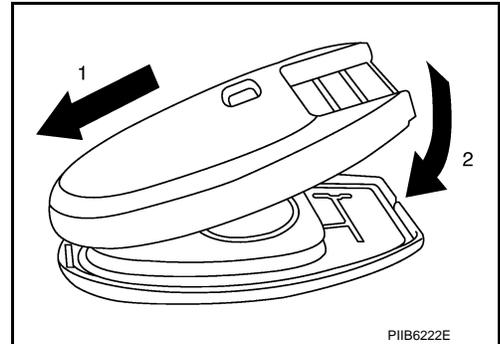
Battery replacement

:Coin-type lithium battery (CR2032)

4. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, check that all Intelligent Key functions work normally.



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BACK DOOR OPENER SWITCH ASSEMBLY

< REMOVAL AND INSTALLATION >

[TYPE 2]

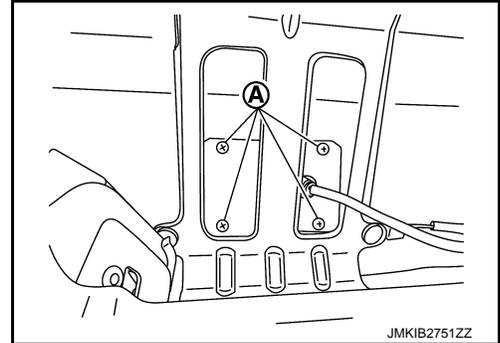
BACK DOOR OPENER SWITCH ASSEMBLY

Removal and Installation

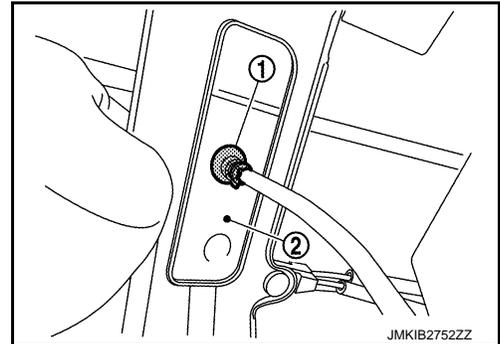
INFOID:000000010717723

REMOVAL

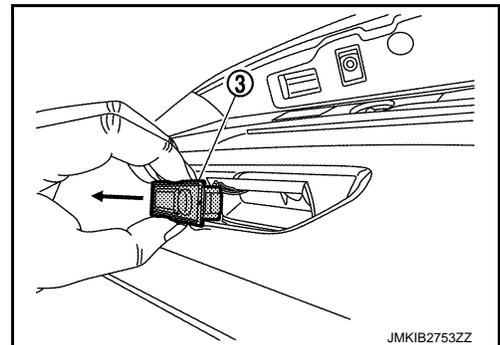
1. Remove back door inner finisher. Refer to [INT-47, "Removal and Installation"](#).
2. Remove back door lock assembly. Refer to [DLK-619, "DOOR LOCK : Removal and Installation"](#).
3. Disconnect back door opener switch assembly harness connector.
4. Remove switch cover mounting screw(A).



5. Remove grommet(1), and then remove switch cover(2).



6. Press toward outside (in the direction shown by arrow) and then remove back door opener switch assembly(3).



INSTALLATION

Install in the reverse order of removal.

AUTOMATIC BACK DOOR CONTROL UNIT

< REMOVAL AND INSTALLATION >

[TYPE 2]

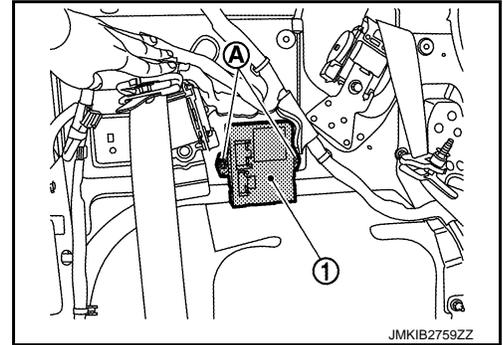
AUTOMATIC BACK DOOR CONTROL UNIT

Removal and Installation

INFOID:000000010717724

REMOVAL

1. For 3 seat row models: Remove third seat. Refer to [SE-70, "Removal and Installation"](#).
2. Remove luggage side lower finisher LH. Refer to [INT-43, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).
3. Disconnect automatic back door control unit harness connector.
4. Remove the automatic back door control unit mounting bolt[Ⓐ], and then remove the automatic back door control unit^①.



INSTALLATION

Install in the reverse order of removal.

NOTE:

After installing automatic back door control unit, perform additional service when replace control unit. Refer to [DLK-426, "Work Procedure"](#).

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AUTOMATIC BACK DOOR MAIN SWITCH

< REMOVAL AND INSTALLATION >

[TYPE 2]

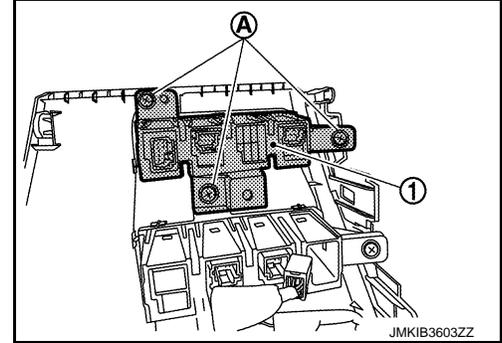
AUTOMATIC BACK DOOR MAIN SWITCH

Removal and Installation

INFOID:000000010717725

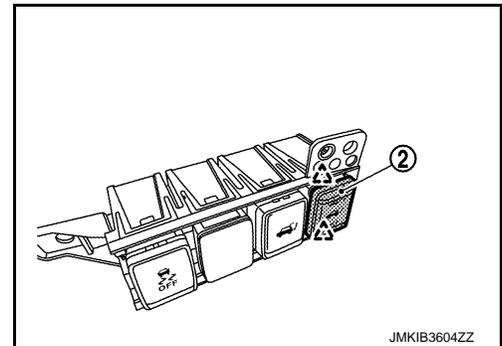
REMOVAL

1. Remove the instrument lower panel LH. Refer to [IP-14. "Removal and Installation"](#).
2. Remove screws **A** and then remove the switch bracket **1** from the instrument lower panel LH **2**.



3. Remove automatic back door main switch **2** from the switch bracket.

 : Pawl



INSTALLATION

Install in the reverse order of removal.

AUTOMATIC BACK DOOR SWITCH

< REMOVAL AND INSTALLATION >

[TYPE 2]

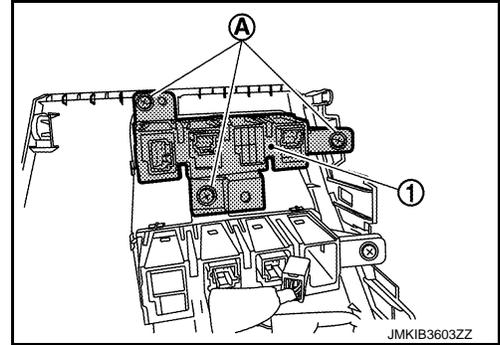
AUTOMATIC BACK DOOR SWITCH

Removal and Installation

INFOID:000000010717726

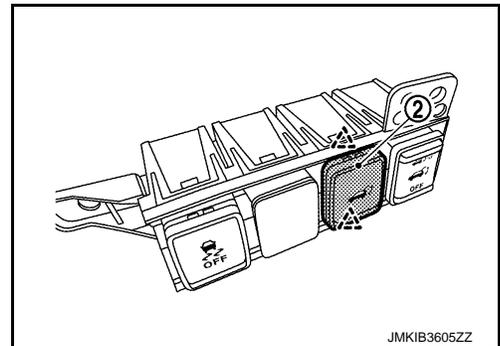
REMOVAL

1. Remove the instrument lower panel LH. Refer to [IP-14, "Removal and Installation"](#).
2. Remove screws **A** and then remove the switch bracket **1** from the instrument lower panel LH **2**.



3. Remove automatic back door switch **2** from the switch bracket.

 : Pawl



INSTALLATION

Install in the reverse order of removal.

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AUTOMATIC BACK DOOR CLOSE SWITCH

< REMOVAL AND INSTALLATION >

[TYPE 2]

AUTOMATIC BACK DOOR CLOSE SWITCH

Removal and Installation

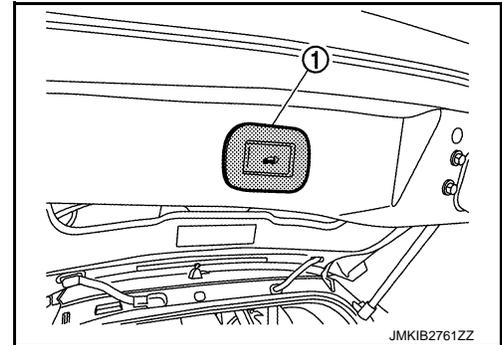
INFOID:000000010717727

REMOVAL

1. Remove automatic back door close switch and switch finisher① using a remover tool.

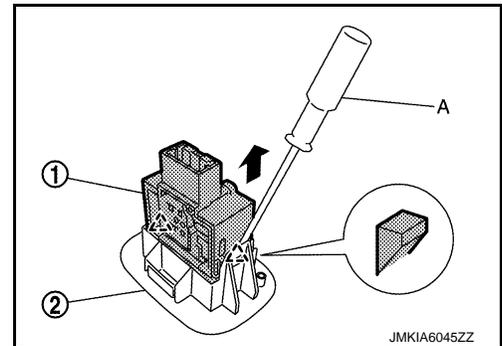
CAUTION:

Apply protective tape on the part to protect it from damage.



2. Disconnect automatic back door close switch harness connector.
3. Remove automatic back door close switch① from automatic back door close switch finisher② using flat-bladed screwdriver (A).

 : Pawl



INSTALLATION

Install in the reverse order of removal.

AUTOMATIC BACK DOOR WARNING BUZZER

< REMOVAL AND INSTALLATION >

[TYPE 2]

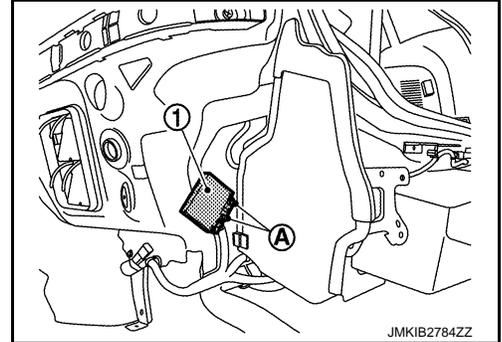
AUTOMATIC BACK DOOR WARNING BUZZER

Removal and Installation

INFOID:000000010717728

REMOVAL

1. Remove rear bumper fascia. Refer to [EXT-18, "Removal and Installation"](#).
2. Disconnect automatic back door warning buzzer harness connector.
3. Remove the automatic back door warning buzzer mounting nuts[Ⓐ], and then remove automatic back door warning buzzer^①.



INSTALLATION

Install in the reverse order of removal.

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HANDS FREE SENSOR

< REMOVAL AND INSTALLATION >

[TYPE 2]

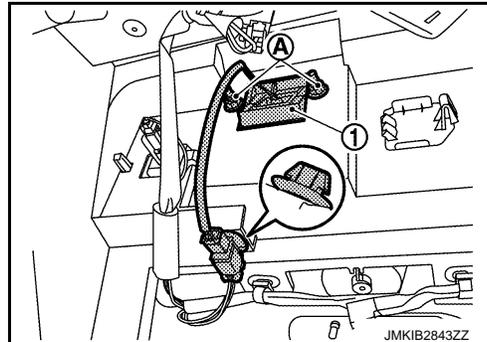
HANDS FREE SENSOR

Removal and Installation

INFOID:000000010717729

REMOVAL

1. Remove back door inner finisher. Refer to [INT-47. "Removal and Installation"](#).
2. Disconnect hands free sensor harness connector.
3. Remove the hands free sensor mounting nuts^(A), and then remove hands free sensor⁽¹⁾.



INSTALLATION

Install in the reverse order of removal.

HOW TO USE THIS MANUAL

APPLICATION NOTICE

Information

INFOID:0000000010713101

Check the vehicle type to use the service information in this section.

Service information	Destination		
	Handle	Intelligent Key system	Super lock function
Type 1	RHD	With	With
Type 2	LHD	With	Without
Type 3	RHD	Without	With
Type 4	LHD	Without	Without

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DLK

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000010708328

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

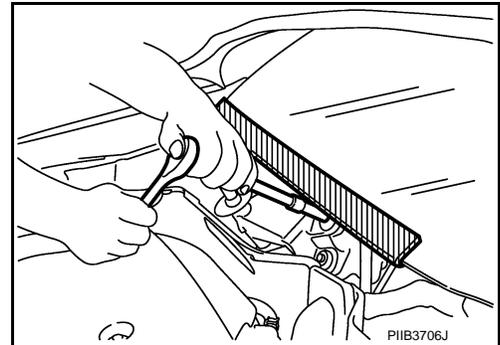
Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Procedure without Cowl Top Cover

INFOID:000000010708329

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



Precautions for Removing Battery Terminal

INFOID:000000010708330

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.

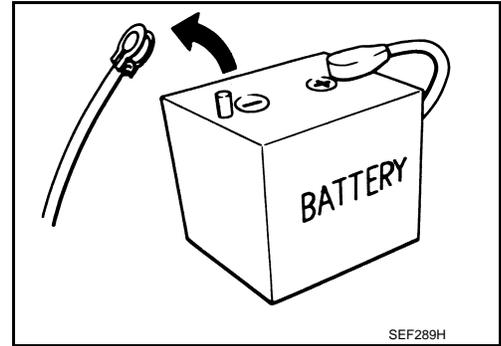
PRECAUTIONS

[TYPE 3]

< PRECAUTION >

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

D4D engine	: 20 minutes	ZD30DDTi	: 60 seconds
HRA2DDT	: 12 minutes	ZD30DDTT	: 60 seconds
K9K engine	: 4 minutes		
M9R engine	: 4 minutes		
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		
YD25DDTi	: 2 minutes		



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NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
 - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
 - Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

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NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.

Work

INFOID:0000000010708331

- 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 >

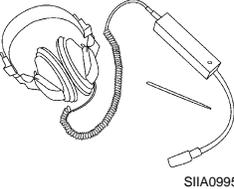
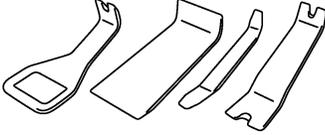
[TYPE 3]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:000000010708332

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>	

COMPONENT PARTS

< SYSTEM DESCRIPTION >

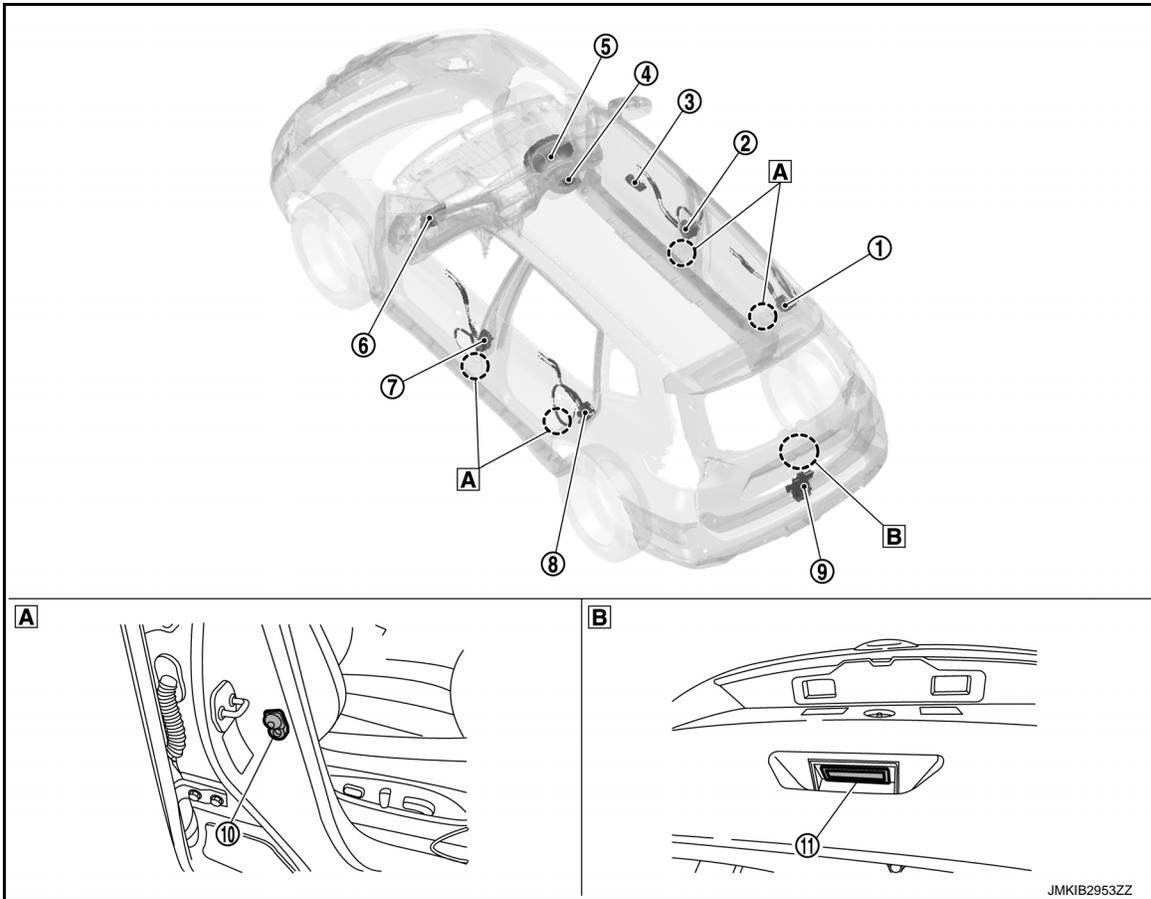
[TYPE 3]

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000010708333



A View with door opened

B View with back door panel

No.	Component	Function
①	Rear door lock assembly RH	DLK-644, "Door Lock Assembly"
②	Front door lock assembly (driver side)	DLK-644, "Door Lock Assembly"
③	Power window main switch (door lock and unlock switch)	DLK-644, "Door Lock and Unlock Switch"
④	Ignition key cylinder (key switch)	DLK-645, "Ignition Key Cylinder"
⑤	Combination meter	<ul style="list-style-type: none"> Performs operation method guide and warning with buzzer. Transmits vehicle speed signal to CAN communication line.
⑥	BCM	BCM detects the vehicle status according to signals from each door switch. BCM transmits drive signal to door lock actuator when BCM receives operation signal from remote keyless entry receiver (integrated in BCM). Refer to BCS-6, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
⑦	Front door lock assembly (passenger side)	DLK-644, "Door Lock Assembly"
⑧	Rear door lock assembly LH	DLK-644, "Door Lock Assembly"
⑨	Back door lock assembly	DLK-644, "Back Door Lock Assembly"

DLK-643

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COMPONENT PARTS

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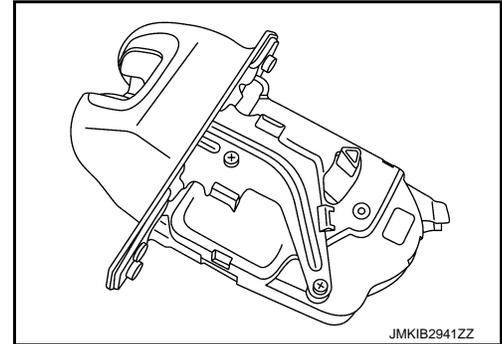
[TYPE 3]

No.	Component	Function
⑩	Door switch	DLK-645, "Door Switch"
⑪	Back door opener switch assembly	DLK-644, "Back Door Opener Switch Assembly"

Back Door Lock Assembly

INFOID:0000000010708334

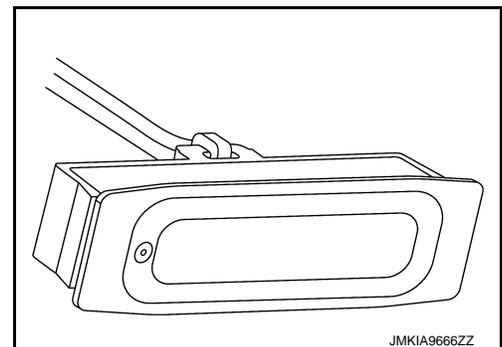
- Back door lock assembly integrates back door opener actuator and back door switch.
- Back door opener actuator opens the back door according to the back door open signal from BCM.
- Back door switch detects open/close status of back door.
- Back door lock assembly is installed in the back door panel.



Back Door Opener Switch Assembly

INFOID:0000000010708335

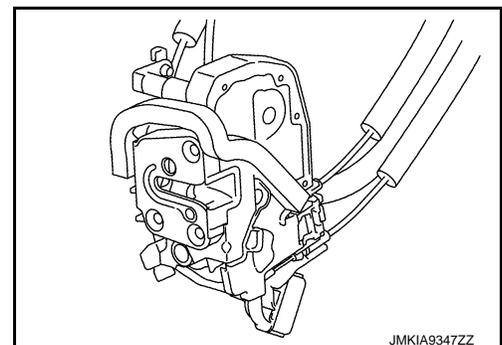
- Back door opener switch assembly integrates back door opener switch.
- Back door opener switch detects open operation of back door and transmits back door opener switch signal to BCM.
- Back door opener switch assembly is installed in the back door panel.



Door Lock Assembly

INFOID:0000000010708336

- Door lock actuator and unlock sensor are integrated in front door lock assembly (driver side).
- Door lock actuator receives lock/unlock signal from BCM, and then locks/unlocks door.
- Only front door lock assembly (driver side) integrates unlock sensor. Unlock sensor transmits lock/unlock status of driver side door to BCM.



Door Lock and Unlock Switch

INFOID:0000000010708337

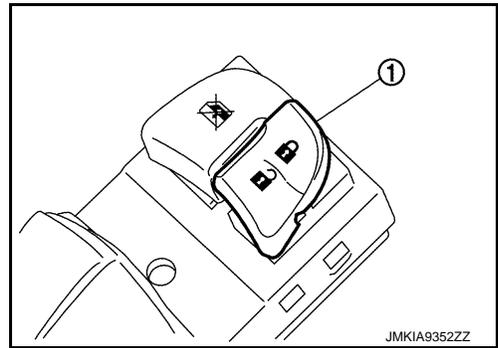
- Door lock and unlock switch transmits door lock/unlock signal operation to BCM.

COMPONENT PARTS

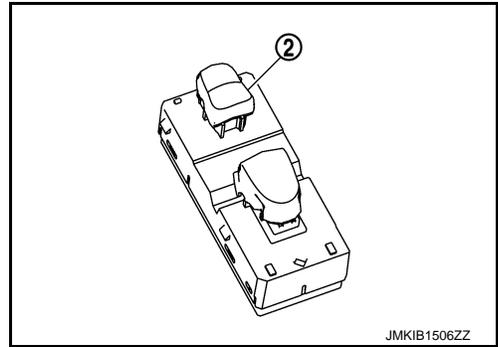
[TYPE 3]

< SYSTEM DESCRIPTION >

- Driver side door lock and unlock switch ① is integrated in the power window main switch.



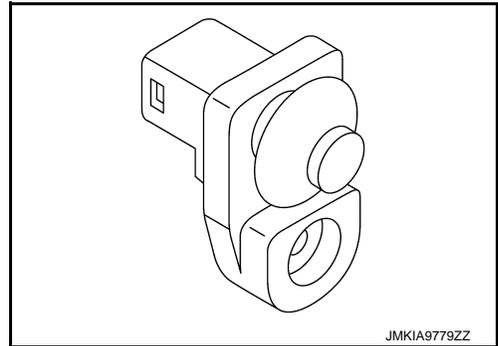
- Passenger side door lock and unlock switch ② is integrated in front power window switch (passenger side).



Door Switch

Detects door open/close condition.

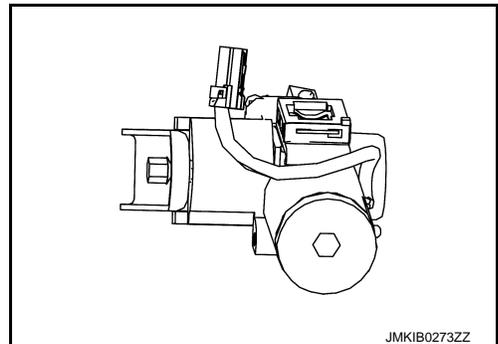
INFOID:000000010708338



Ignition Key Cylinder

- Key switch is installed in ignition key cylinder.
- Key switch detects ignition key or keyfob is inserted in ignition key cylinder, and then transmits key insertion status to BCM.

INFOID:000000010708339



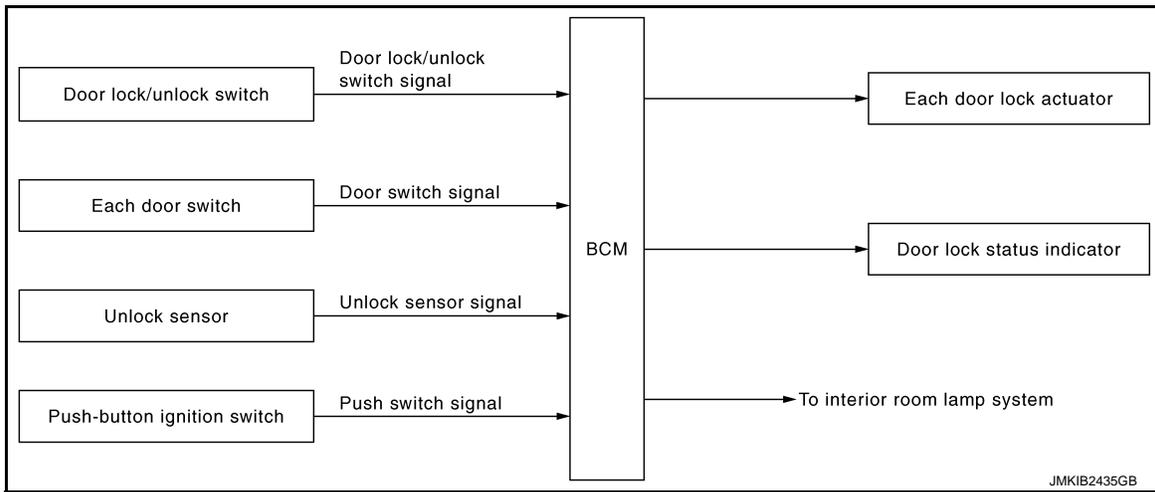
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POWER DOOR LOCK SYSTEM

System Description

INFOID:000000010708340

SYSTEM DIAGRAM



DOOR LOCK FUNCTION

Door Lock and Unlock Switch

- The door lock and unlock switches are built into power window main switch and front power window switch (passenger side).
- Interlocked with the locking operation of door lock and unlock switch, door lock actuator of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuator of all doors are unlocked.

Unlock Sensor

- BCM locks all doors or unlocks all doors, when driver door lock knob is operated.
- With the mechanical key inserted in the door key cylinder on driver side, turning it to lock position, locks door lock actuator of all doors.
- With the mechanical key inserted in the door key cylinder on driver side, turning it to unlock position once unlocks the driver door, turning it to unlock position again within 5 seconds after the first unlock operation unlocks all of the other doors actuator. (Anti-hijack function operation)

Anti-hijack function operation mode can be changed using CONSULT. Refer to [DLK-658, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\) \(Without Intelligent Key System. With Super Lock\)"](#).

Operation Condition

If all of the following conditions are satisfied, door lock and unlock operation is performed using the door lock and unlock switch.

Door lock and unlock switch operation	Operation condition
LOCK/UNLOCK	<ul style="list-style-type: none"> • Doors are not locked by keyfob and auto door lock function • Ignition position warning function is not activated

KEY REMINDER FUNCTION

- While ignition key is inserted in ignition key cylinder and driver door is open, door is not locked when door lock and unlock switch is pressed in the lock direction. This prevents keyfob from being left in the vehicle.
- While door lock and unlock switch is pressed in the lock direction, combination meter buzzer sounds and warns.

INTERIOR ROOM LAMP CONTROL FUNCTION

Interior room lamp is controlled according to door lock/unlock state, refer to [INL-11, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"](#)

OVERRIDE FUNCTION

POWER DOOR LOCK SYSTEM

[TYPE 3]

< SYSTEM DESCRIPTION >

When inside handle of driver door is operated while doors are in lock states, lock state of the applicable door lock becomes invalid and the door is open.

UNLOCK LINK FUNCTION

When driver door is opened using the override function, all doors are unlocked.

Unlock function operates when driver door is open while all of the following conditions are satisfied.

Operation condition	<ul style="list-style-type: none"> • Doors are locked by door lock/unlock switch or by automatic lock/unlock function • Driver side door switch is switched from OFF to ON • Anti-hijack function is not activated • Vehicle speed is 5 km/h (3 MPH) or less
---------------------	--

NOTE:

When anti-hijack function is activated, only the applicable door is unlocked.

DOOR LOCK STATUS INDICATOR OPERATION

The door lock status indicator indicates door lock status under the following condition.

Indicator operation	Ignition position	Door status	Lock operation
ON (30 minutes timer)	OFF	All doors are closed and door is locked	Door lock and unlock switch
ON	ON	All doors are closed and door is locked	Door lock and unlock switch
ON (1 minute timer)	OFF	All doors are closed and door is locked	Intelligent Key, door request switch or auto door lock function
ON	ON	All doors are closed and door is locked	Intelligent Key, door request switch or auto door lock function
ON → OFF	-	(All doors are closed → any door is open) or (All doors are locked → any door is unlocked)	-
ON (timer is running) → ON (timer is stop)	OFF → ON	-	-
ON → ON (30 minutes timer)	ON → OFF	-	Door lock and unlock switch
ON → ON (1 minute timer)	ON → OFF	-	Intelligent Key, door request switch or auto door lock function

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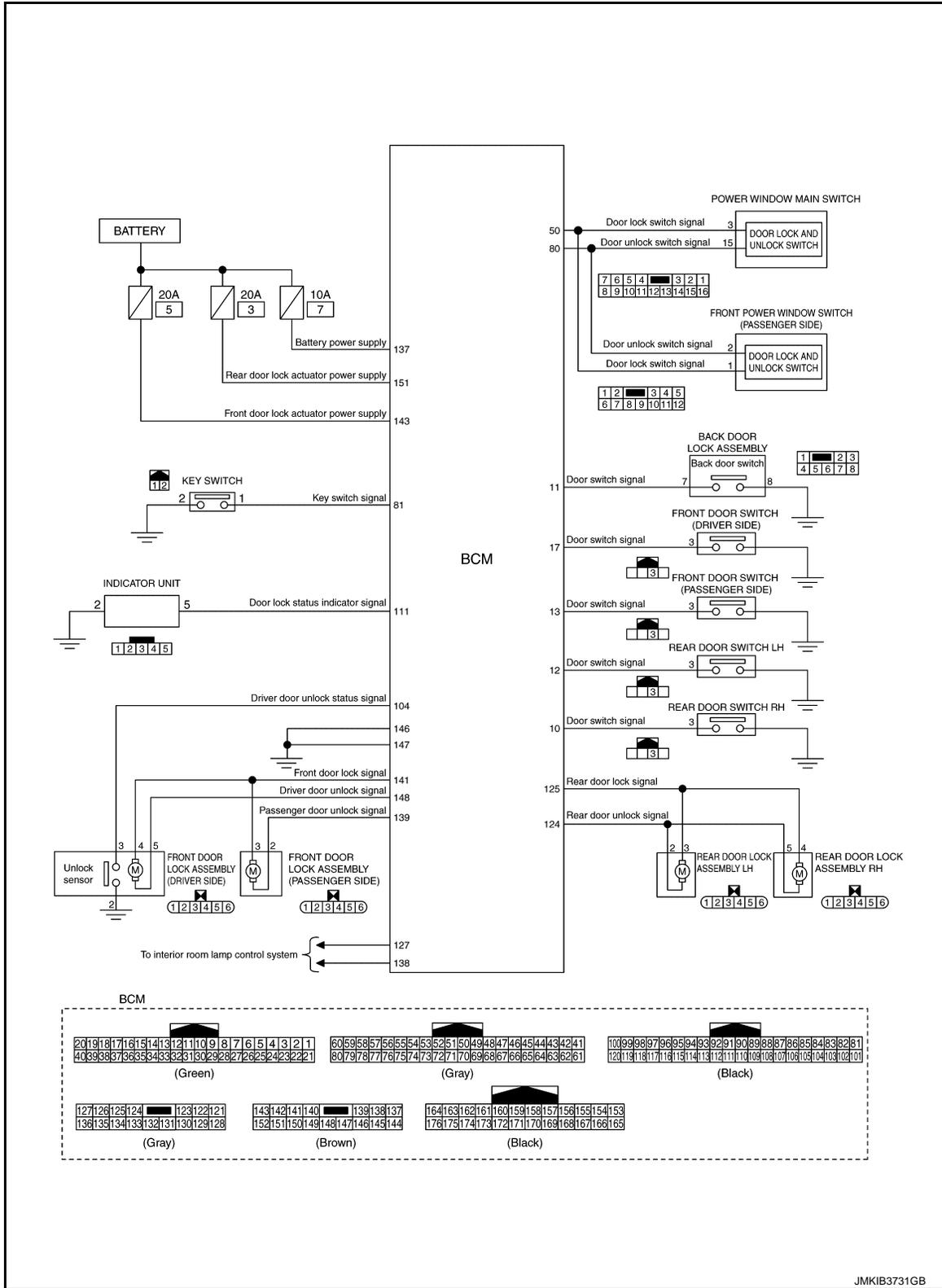
POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 3]

Circuit Diagram

INFOID:000000010708341



JMKIB3731GB

REMOTE KEYLESS ENTRY SYSTEM

< SYSTEM DESCRIPTION >

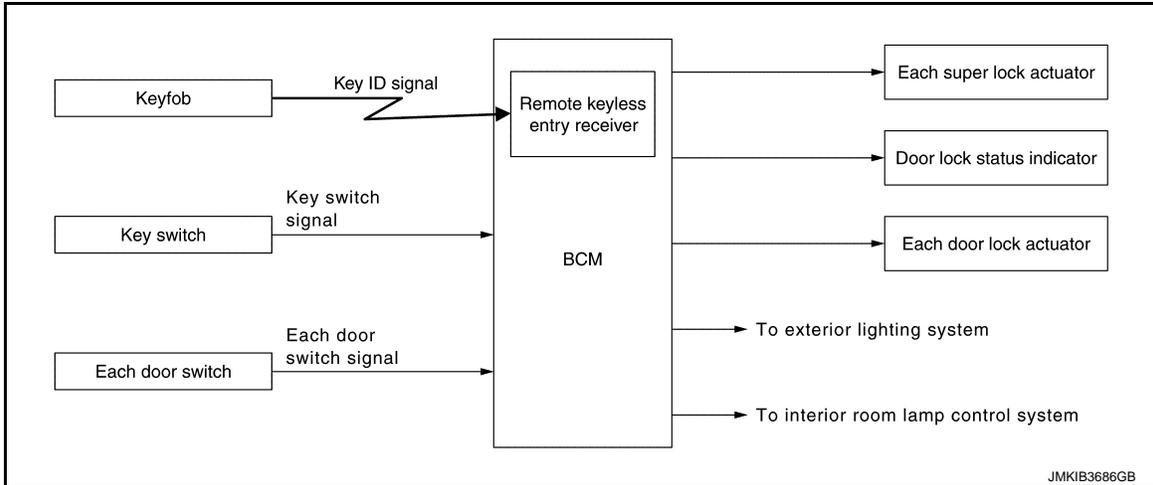
[TYPE 3]

REMOTE KEYLESS ENTRY SYSTEM REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:0000000010708342

System Diagram



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 via remote keyless entry receiver.
- When BCM receives the door lock and unlock signal, it operates door lock actuator, brinks the hazard lamp at the same time as a reminder.

OPERATION CONDITION

If the following conditions are satisfied, door lock/unlock operation is performed if the keyfob is operated.

Remote controller operation	Operation condition
Lock	<ul style="list-style-type: none"> • Key switch is off • All doors are closed
Unlock	Key switch is off

OPERATION AREA

To ensure that the keyfob works effectively, use within 1 m (3 ft) range of each door, however the operable range may differ according to surroundings.

ANTI-HIJACK FUNCTION

Information of super lock function with anti-hijack function.

Refer to [DLK-652. "SUPER LOCK FUNCTION : System Description"](#).

REMINDER FUNCTION

When doors are locked or unlocked by keyfob button operation, BCM blinks hazard warning lamps as a reminder.

Door lock operation (With keyfob button)	Hazard warning lamp blink
Lock	Once
Unlock (all door unlock)	Twice
Unlock (anti-hijack operation)	Twice (quick)

AUTO DOOR LOCK FUNCTION

After door is unlocked by keyfob button operation and if 30 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.

REMOTE KEYLESS ENTRY SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 3]

Operating condition	<ul style="list-style-type: none">• Door switch is ON (door is open)• Door is locked• Key switch is ON
---------------------	--

Auto door lock mode can be changed by the "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [DLK-659, "MULTI REMOTE ENT : CONSULT Function \(BCM - MULTI REMOTE ENT\) \(With Super Lock\)"](#).

INTERIOR ROOM LAMP CONTROL FUNCTION

Interior room lamp is controlled according to door lock/unlock state, refer to [INL-11, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"](#).

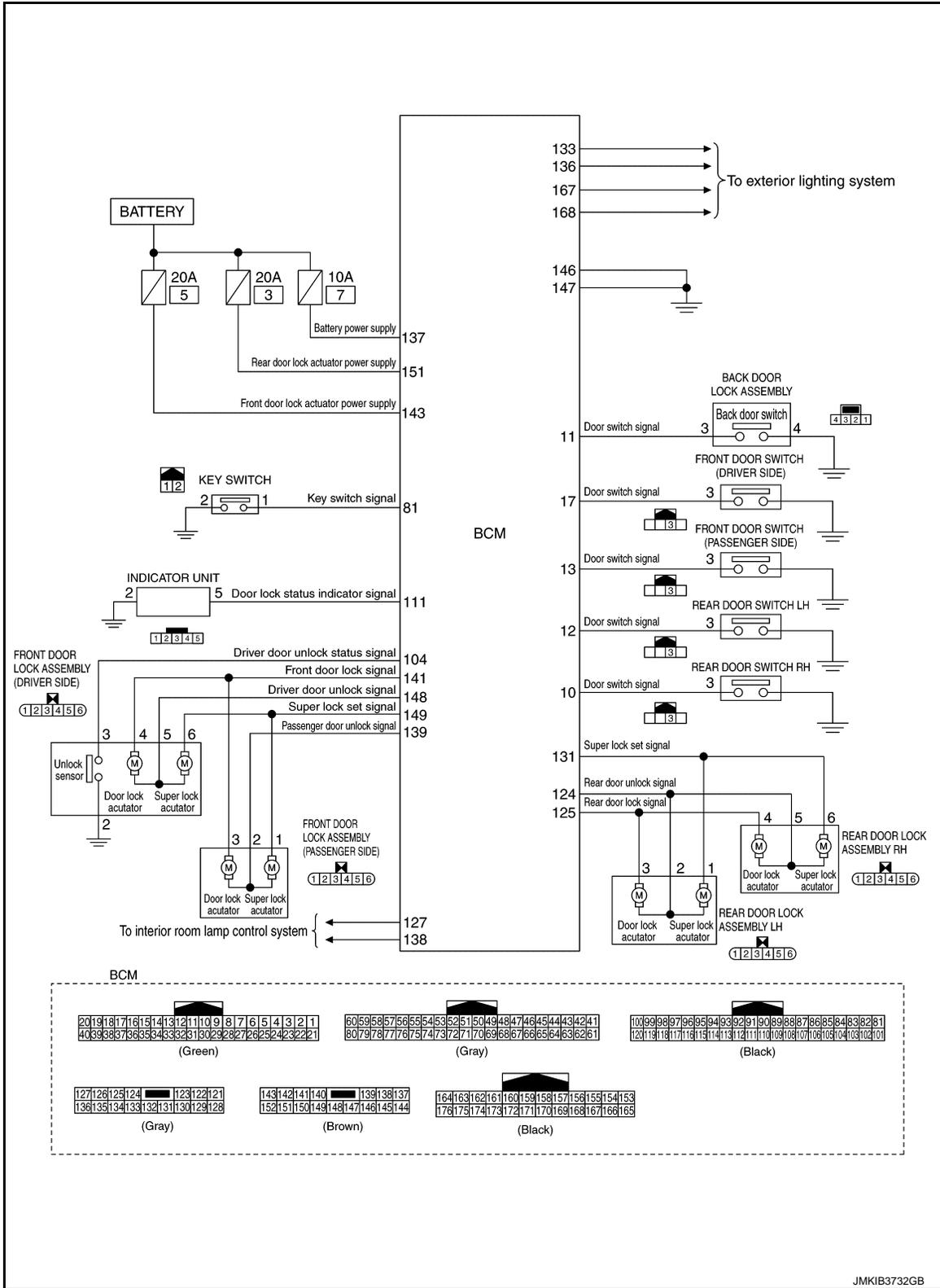
REMOTE KEYLESS ENTRY SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 3]

REMOTE KEYLESS ENTRY FUNCTION : Circuit Diagram

INFOID:000000010708343



SUPER LOCK FUNCTION

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REMOTE KEYLESS ENTRY SYSTEM

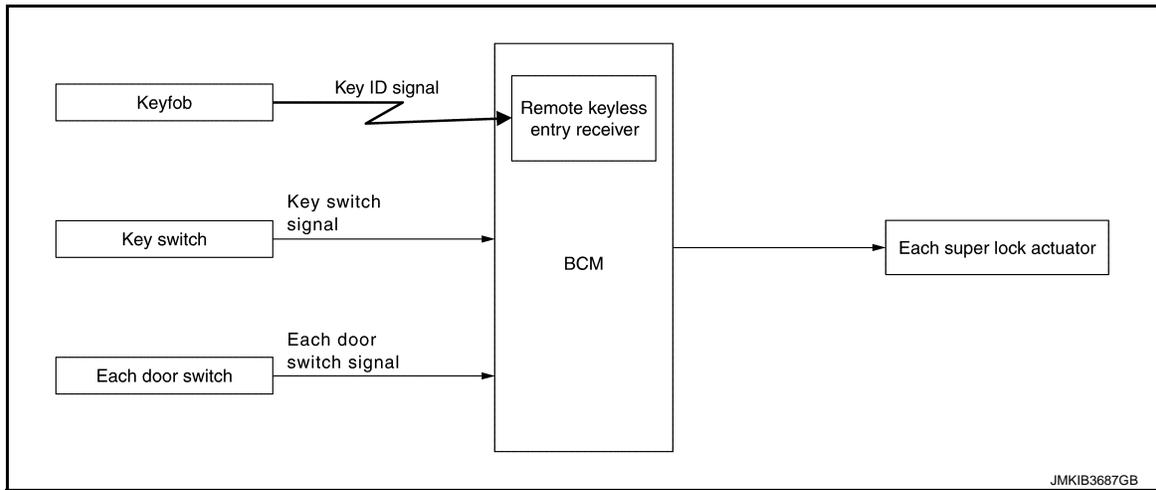
[TYPE 3]

< SYSTEM DESCRIPTION >

SUPER LOCK FUNCTION : System Description

INFOID:0000000110728213

SYSTEM DIAGRAM



- Super lock provides a higher anti-theft performance than a conventional door lock function.
- BCM controls the super lock system.
- When all doors are closed super lock system can be set/release by keyfob.
- When super lock is set, inside handle of doors do not work.

SUPER LOCK SET OPERATION (LOCK OPERATION)

When Keyfob lock button is operated while all doors are in unlock state, super lock of all doors is set, and simultaneously, all doors are locked.

SUPER LOCK RELEASE OPERATION (UNLOCK OPERATION) WITH ANTI-HIJACK MODE

When Keyfob unlock button is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, driver door are unlocked. When Keyfob unlock button is operated again, all doors are unlocked.

SUPER LOCK RELEASE OPERATION (UNLOCK OPERATION) WITHOUT ANTI-HIJACK MODE

When keyfob unlock button is operated while super lock of all doors is set, super lock of all doors is released, and simultaneously, all doors are unlocked.

SUPER LOCK RELEASE OPERATION (UNLOCK OPERATION) CHANGE IGNITION SWITCH

Super Lock Release by Ignition Switch is Changed from OFF to ON

When the super lock is set, release super lock when the ignition switch is changed from OFF to ON.

ANTI-HIJACK FUNCTION SETTING

With CONSULT

Refer to [DLK-658, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\) \(Without Intelligent Key System, With Super Lock\)"](#).

Without CONSULT

- ON/OFF can be switched when keyfob lock button and unlock button are pressed simultaneously for 4 seconds or more while steering lock is locked.
- When mode is switched, hazard warning lamp blinks.

OFF → ON : 1 blinks

ON → OFF : 3 blink

INFORMATION DISPLAY (COMBINATION METER)

INFORMATION DISPLAY (COMBINATION METER) : Door Open Warning

INFOID:0000000110708346

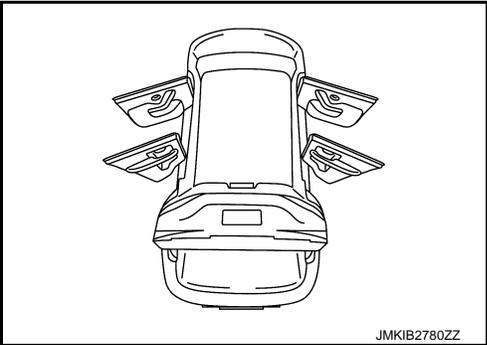
DESIGN/PURPOSE

Information display warns the driver that each door or trunk lid is open or is not fully closed.

REMOTE KEYLESS ENTRY SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 3]

Symbol	Message
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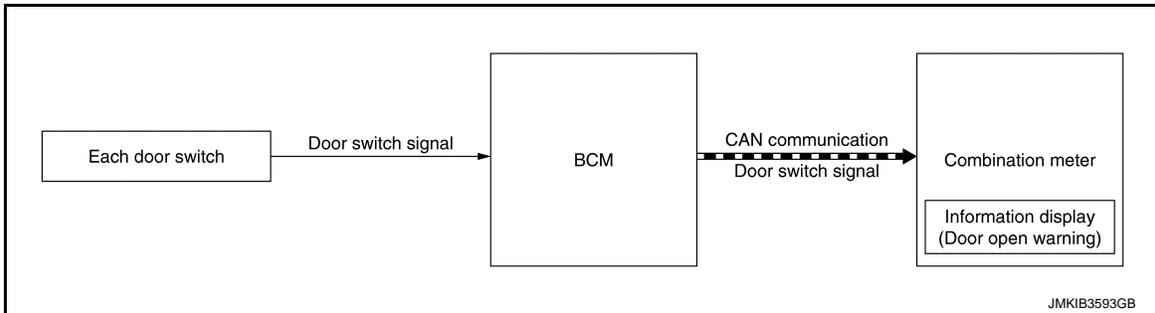
SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

Refer to [MWI-47. "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

E

SYSTEM DIAGRAM



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SIGNAL PATH

- BCM transmits door switch signal to combination meter via CAN communication.
- When combination meter judges according to received door switch signal that a door is open or not fully closed, door open warning displays.

J

WARNING/INDICATOR OPERATING CONDITION

Each door switch is ON

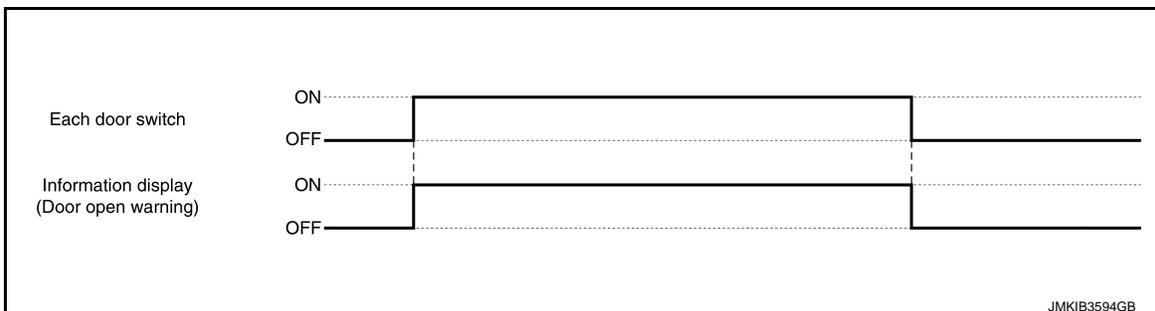
DLK

WARNING/INDICATOR CANCEL CONDITION

All door switches are OFF

L

TIMING CHART



M

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O

INFORMATION DISPLAY (COMBINATION METER) : Key System Malfunction

INFOID:000000010708347

P

DESIGN/PURPOSE

Information display warns the driver that engine cannot be started.

REMOTE KEYLESS ENTRY SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 3]

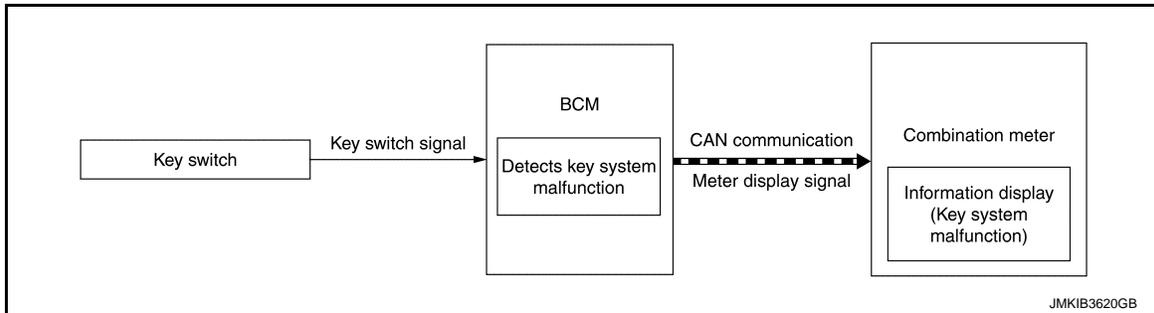
Symbol	Message
 <p>JMKIB1398ZZ</p>	<p>Key System Error See Owner's Manual</p>

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

Refer to [MWI-47, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYSTEM DIAGRAM



SIGNAL PATH

- When BCM detects that the engine cannot be started, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, key system malfunction displays.

WARNING/INDICATOR OPERATING CONDITION

The engine cannot be started.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

- Engine non-start status is resolved.
- Ignition switch is turned to LOCK or OFF, and 15 seconds are passed.

WARNING/INDICATOR/CHIME LIST

WARNING/INDICATOR/CHIME LIST : Warning Lamp/Indicator (Information Display)

INFOID:000000010708348

Item	Reference
Door open warning	Refer to DLK-652, "INFORMATION DISPLAY (COMBINATION METER) : Door Open Warning"
Key system malfunction	Refer to DLK-653, "INFORMATION DISPLAY (COMBINATION METER) : Key System Malfunction"

WARNING/INDICATOR/CHIME LIST : Warning Chime

INFOID:000000010708349

Item	Reference
Key warning chime	Refer to WCS-11, "WARNING CHIME : Key Warning Chime (Without Intelligent Key System)" .

BACK DOOR OPENER SYSTEM

< SYSTEM DESCRIPTION >

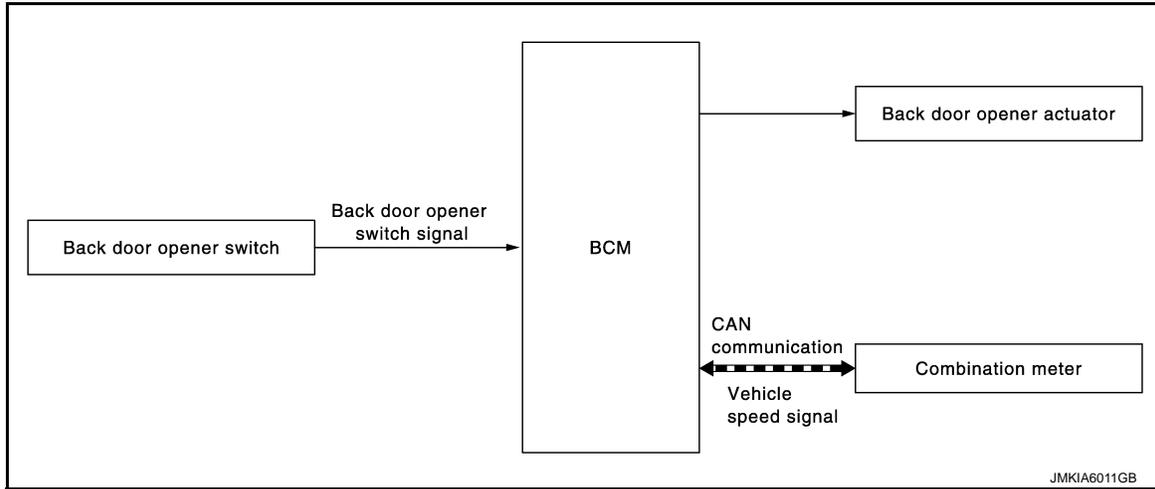
[TYPE 3]

BACK DOOR OPENER SYSTEM

System Description

INFOID:000000010708344

SYSTEM DIAGRAM



BACK DOOR OPENER OPERATION

When back door opener switch is pressed, BCM operates 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 is performed.

Back door opener switch operation	Operation condition
Back door open	<ul style="list-style-type: none"> When back door opener switch is pressed while all doors are in unlock status. Vehicle speed is less than 5 km/h (3 MPH)

NOTE:

- When battery terminal is disconnected and reconnected during all doors unlock state, back door may not open.
- Regardless of door lock actuator state, BCM resets recognition of all doors unlock state approximately 30 seconds after battery terminal is disconnected and BCM recognizes that all doors are in lock state.
- When battery terminal is reconnected and back door does not open, have BCM recognize that all doors are in unlock state.

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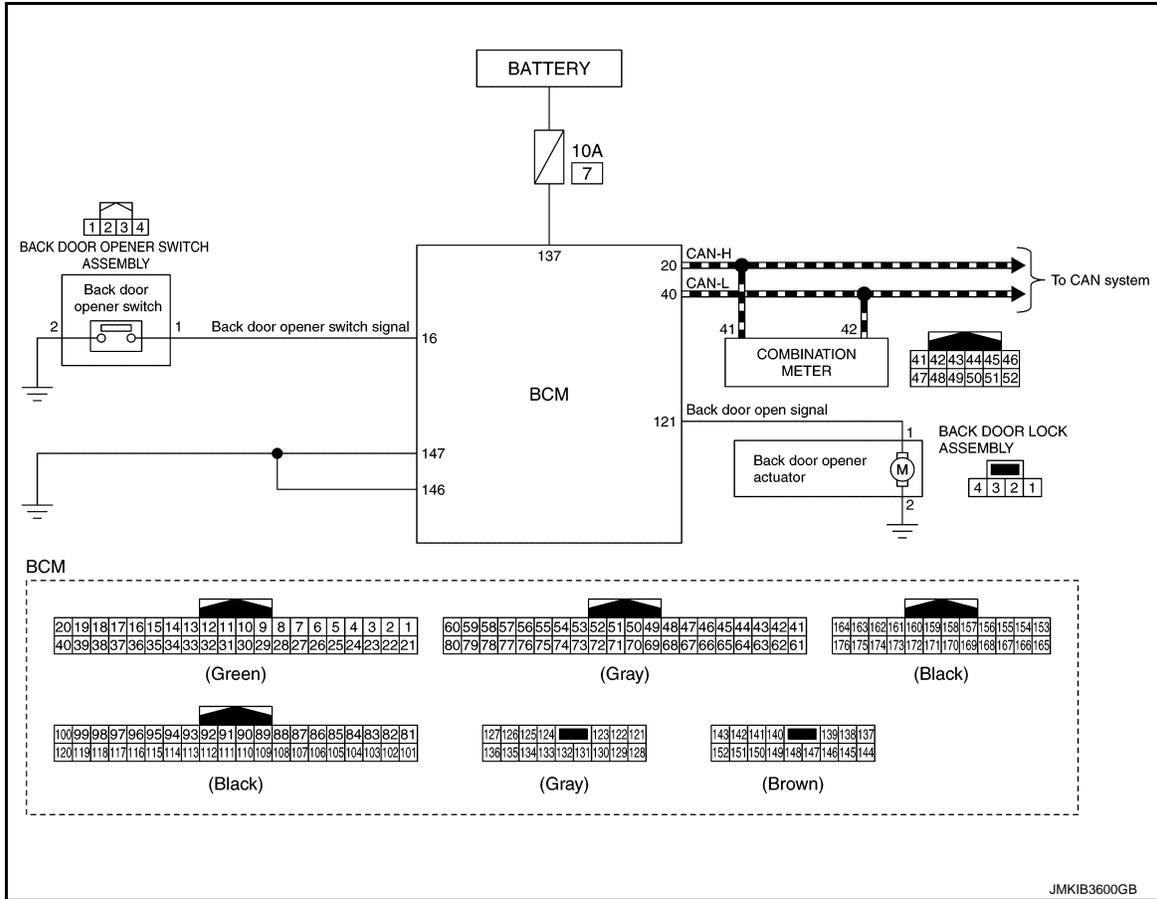
BACK DOOR OPENER SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 3]

Circuit Diagram

INFOID:000000010708345



DIAGNOSIS SYSTEM (BCM)

[TYPE 3]

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010869006

APPLICATION ITEM

CONSULT 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.
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"> Read and save the vehicle specification. 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
Door lock	DOOR LOCK	×	×	
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Exterior lamp	HEAD LAMP	×	×	×
Interior room lamp control	INT LAMP		×	
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	
—	AIR CONDITONER*		×	×
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	
Interior room lamp battery saver	BATTERY SAVER		×	
Back door open	TRUNK		×	
Vehicle security	THEFT ALM	×	×	
RAP	RETAINED PWR		×	
Remote keyless entry system	MULTI REMOTE ENT	×	×	
Signal buffer system	SIGNAL BUFFER		×	×

NOTE:

*: This item is displayed, but not used.

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 3]

CONSULT screen item	Indication/Unit	Description
BATTERY VOLTAGE	V	Battery voltage of the moment a particular DTC is detected.
VEHICLE SPEED	km/h	Vehicle speed of the moment a particular DTC is detected.
EXTERNAL TEMP	°C	External temperature of the moment a particular DTC is detected
VEHICLE COND	—	NOTE: This item is displayed, but cannot be use this item.
DOOR LOCK STATUS	—	NOTE: This item is displayed, but cannot be use this item.
POWER SUPPLY COUNTER	min	Displays the cumulative time from the time that the battery terminal is connected.

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK) (Without Intelligent Key System, With Super Lock)

INFOID:0000000010708351

WORK SUPPORT

Monitor item	Description
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operation with this mode <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
AUTO UNLOCK TYPE	NOTE: This item is displayed, but cannot be used
SIGNATURE LIGHT SETTING	Signature light function can be changed to operation with this mode <ul style="list-style-type: none"> • On: Operate • Off: Non-operation

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Contents
DOOR SW-DR	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK	Indicated [On/Off] condition of back door switch
CDL LOCK SW	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEY CYL LK-SW	NOTE: This item is displayed, but cannot be monitored
KEY CYL UN-SW	NOTE: This item is displayed, but cannot be monitored
SHOCK SENSOR	NOTE: This item is displayed, but cannot be monitored
KEY SW	Indicated [On/Off] condition of key switch

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 3]

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation <ul style="list-style-type: none"> • The all door lock actuators are locked when "ALL LOCK" on CONSULT screen is touched • The all door lock actuators are unlocked when "ALL UNLK" on CONSULT screen is touched
SUPER LOCK	This test is able to check super lock actuator operation <ul style="list-style-type: none"> • The all door lock actuators are set when "LOCK" on CONSULT screen is touched • The all door lock actuators are released when "UNLOCK" on CONSULT screen is touched
DOOR LOCK IND	This test is able to check door lock status indicator operation <ul style="list-style-type: none"> • On: Operate • Off: Non-operation

MULTI REMOTE ENT

MULTI REMOTE ENT : CONSULT Function (BCM - MULTI REMOTE ENT) (With Super Lock)

INFOID:0000000010733992

WORK SUPPORT

Test item	Description
AUTO LOCK SET	Auto door lock time can be changed in this mode <ul style="list-style-type: none"> • MODE 1: Non-operation • MODE 2: 30 sec. • MODE 3: 1 minute • MODE 4: 2 minute • MODE 5: 3 minute • MODE 6: 4 minute • MODE 7: 5 minute
ANSWER BACK	NOTE: This item is displayed, but cannot be used
ANSWER BACK KEYLESS LOCK UNLOCK	NOTE: This item is displayed, but cannot be used
WELCOME LIGHT OP SET	NOTE: This item is displayed, but cannot be used

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition
CONFIRM ID ALL	Indicates [Yet] at all time. Switches to [Done] when a registered key is inserted into ignition key cylinder.
CONFIRM ID4	
CONFIRM ID3	
CONFIRM ID2	
CONFIRM ID1	
NOT REGISTERED	Indicates [ID OK] when key ID that is registered is received or is not yet received. Indicates [ID NG] when key ID that is not registered is received.
TP 4	Indicates the number of IDs that are registered.
TP 3	
TP 2	
TP 1	
CLUTCH SW*1	Indicates [On/Off] condition of clutch interlock switch
BRAKE SW 1	Indicates [On/Off]*2 condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch

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DIAGNOSIS SYSTEM (BCM)

[TYPE 3]

< SYSTEM DESCRIPTION >

Monitor Item	Condition
START CLUTCH SW	Indicates [On/Off] condition of clutch pedal position switch
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	NOTE: This item is displayed, but cannot be monitored
STOP/START SW	Indicates [On/Off] condition of stop/start off switch
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from keyfob
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from keyfob
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored
RKE-PANIC	NOTE: This item is displayed, but cannot be monitored
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from keyfob
KEY SW	Indicates [On/Off] condition of key switch
IGN SW	Indicates [On/Off] condition of ignition switch in ON position
START SW	Indicates [On/Off] condition of ignition switch in START position

*1: It is displayed but does not operate on CVT models.

*2: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description
FLASHER	This test is able to check flasher operation [LH/RH/Off]
HORN	NOTE: This item is displayed, but cannot be used
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) <ul style="list-style-type: none"> • On: Operates • Off: Non-operation
MIRROR+5	NOTE: This item is displayed, but cannot be used
TRUNK/BACK DOOR	NOTE: This item is displayed, but cannot be used
RETRACTABLE MIRROR	NOTE: This item is displayed, but cannot be used
AUTO ACC 2	This test is able to check BCM sends power supply to audio unit or NAVI control unit <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
AUTO ACC 1	This test is able to check BCM sends power supply to ignition relay <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk/luggage room lamp operation <ul style="list-style-type: none"> • On: Operates • Off: Non-operation

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK) (Without Intelligent Key System, With Super Lock)

INFOID:000000010708353

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

[TYPE 3]

< SYSTEM DESCRIPTION >

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Contents
STARTER CUT RELAY	Indicates [On/Off] condition of starter control relay
KEY CYL SW-TR	NOTE: This item is displayed, but cannot be monitored
TR CANCEL SW	NOTE: This item is displayed, but cannot be monitored
TRUNK LID OPENER SW	NOTE: This item is displayed, but cannot be monitored
BACK DOOR OPENER SW	Indicates [On/Off] condition of back door opener switch
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored

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ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000010708354

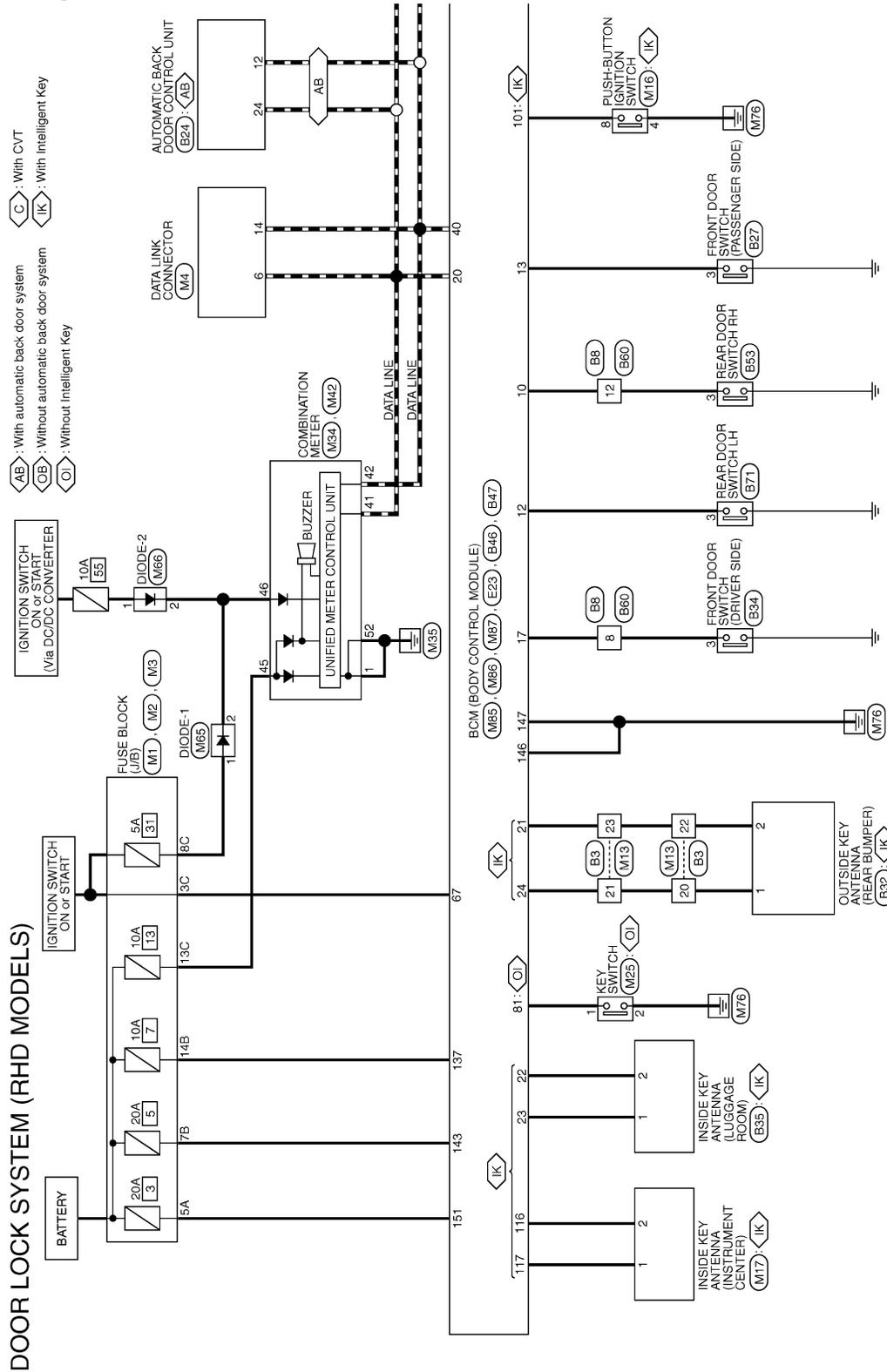
ECU	Reference
BCM	BCS-53, "Reference Value"
	BCS-76, "Fail-safe"
	BCS-77, "DTC Inspection Priority Chart"
	BCS-78, "DTC Index"

WIRING DIAGRAM

DOOR & LOCK SYSTEM

Wiring Diagram

INFOID:000000010708355



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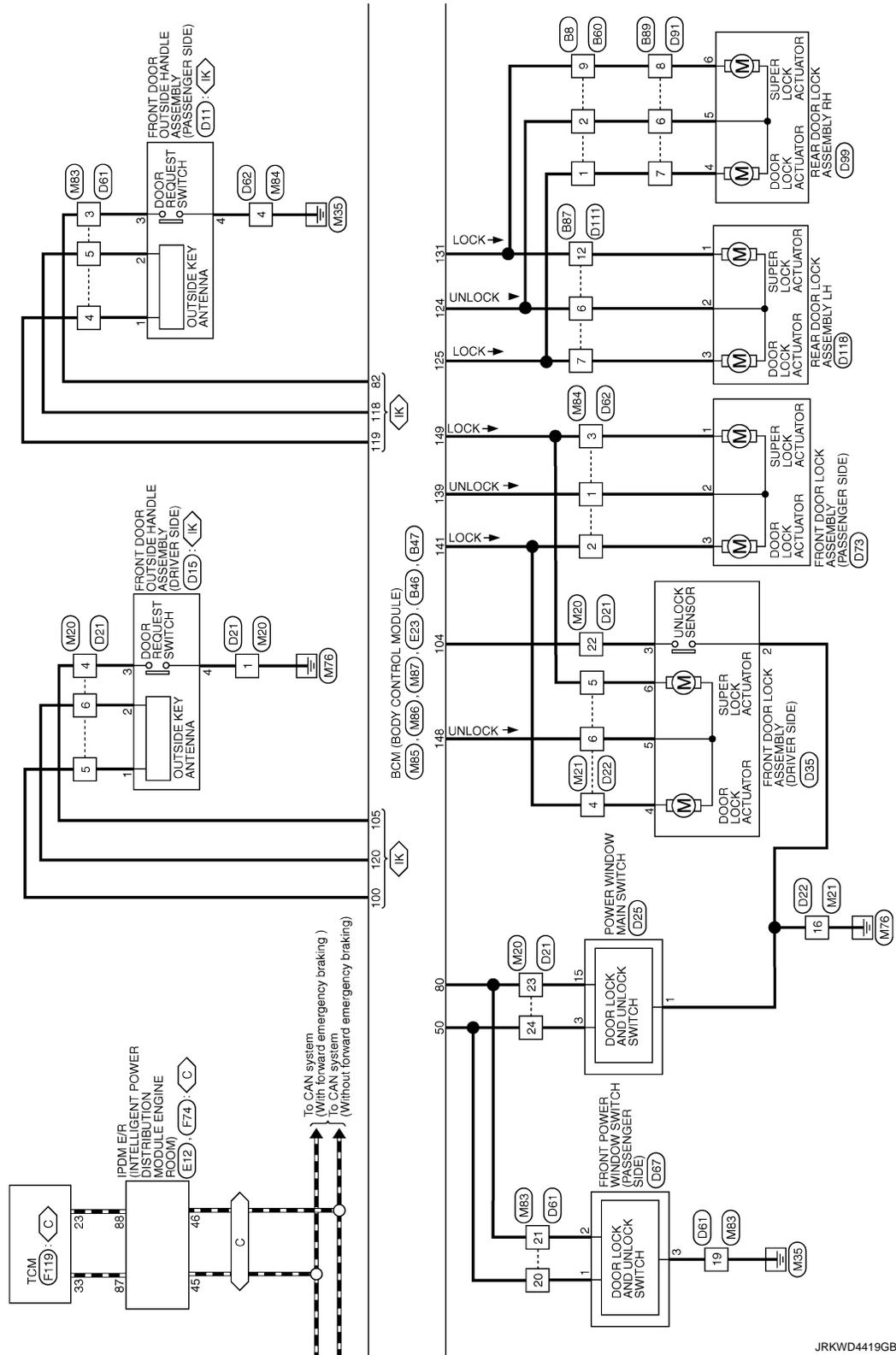
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JRKWD44186G

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 3]

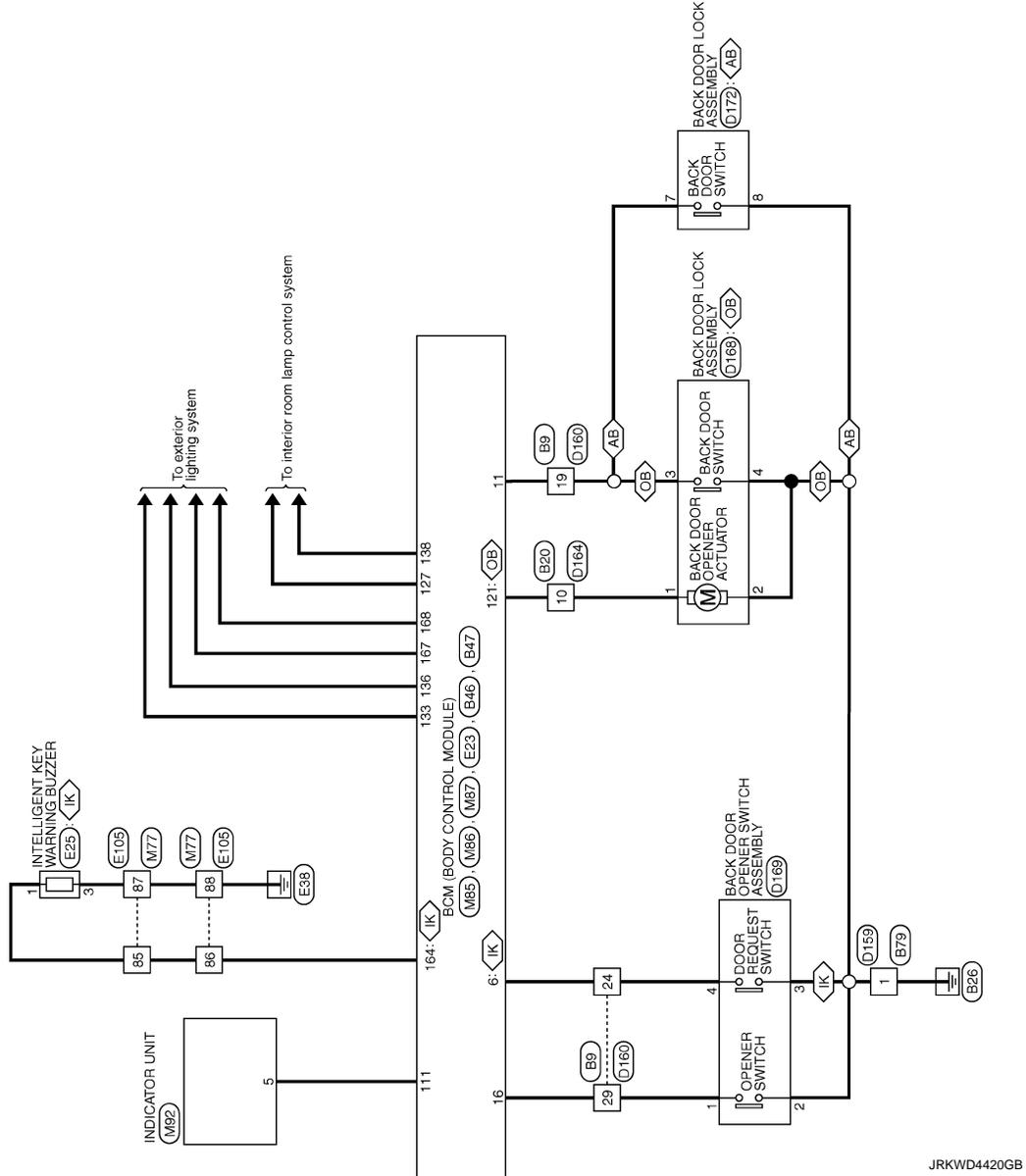


JRKWD4419GB

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 3]



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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 3]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MV-AH



16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	V	-
3	LA/R	-
4	V	-
5	GR	-
6	Y	-
7	LG	-
8	BG	-
9	W	-
10	LAV	-
11	BR	-
12	Y	-
13	W	-
14	V	-
15	L	-
16	BR	-
17	Y	-
18	LA/L	- [Without PSM]
18	SB	- [With FSM]
20	LG	-
21	G	-
22	V	-
23	BR	-
24	P	-
25	L	-
26	G	-
29	SHIELD	-
30	W	-
31	B	-
32	R	-

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Type	NS16MV-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	P	-
4	L	-
5	L	-
6	SB	-
7	R	-
8	LA/V	-
10	LA/R	-
11	LA/R	-
12	W	-
13	P	-
14	R	-
15	P	-
16	P	-

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	TH32MV-AH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	W	-
8	SHIELD	-

13	W	-
14	V	-
15	BR	-
16	SB	-
17	LA/V	-
18	LA/R	-
19	LG	-
20	LA/G	-
21	LA/G	-
22	LA/R	-
23	LA/R	-
24	R	-
29	Y	-
30	G	-
31	GR	-
32	LG	-



Connector No.	B20
Connector Name	WIRE TO WIRE
Connector Type	NS16MV-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
8	LA/G	-
9	LA/R	-
10	LA/V	-
12	L	-
13	SB	-
14	R	-
15	G	-
16	W	-

Connector No.	B24
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	AA02HFB



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	TOUCH SENS RH
2	G	TOUCH SENS LH
3	SB	HALF LATCH SW
4	BR	CLOSE SW
5	W	A-SIGN LH
6	L	B-SIGN LH
7	L	A-SIGN RH
8	R	B-SIGN RH
9	SB	MAIN SW
10	BG	OPEN SW
11	V	CAN LOW
12	P	TOUCH SENS-GND
13	GR	GROUND
16	B	POWER LH
19	V	POWER RH
20	P	ENCODER GROUND
21	G	DRIVER SW
22	LG	INSIDE CLOSE SW
23	W	CAN HI
24	L	

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 3]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	B27
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	GB	- [For LHD models]
3	SB	- [For RHD models]

Connector No.	B29
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY



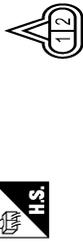
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	V	-

Connector No.	B34
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	-

Connector No.	B35
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	RK02FGY



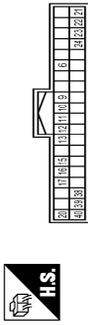
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	Y	-

Connector No.	B46
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FGY-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
121	LAV	BACK DOOR OPENER CONT
122	Y	REAR FOG LAMP OUTPUT
123	LA/R	REAR WIPER OUTPUT
124	W	REAR DOOR UNLOCK OUTPUT
125	L	REAR DOOR LOCK OUTPUT
127	R	LUGGAGE ROOM LAMP CONT
129	LAV	STOP LAMP LH OUT
131	R	REAR DOOR SUPERLOCK OUTPUT
133	GR	TURN SIG LH (REAR)
134	LAV	STOP LAMP RH OUT
136	P	TURN SIG RH (REAR)

Connector No.	B47
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH06FG-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
6	R	BACK DOOR OPENER REQUEST SW
9	G	HANDS FREE SENSOR
10	W	REAR RH DOOR SW
11	LG	BACK DOOR SW
12	R	REAR LH DOOR SW
13	SB	PASSENGER DOOR SW
15	LAG	REAR WIPER AUTO STOP
16	Y	BACK DOOR OPENER SW
17	SB	DRIVER DOOR SW
20	L	CANH
21	BR	BUMPER ANTENNA(-)
22	Y	REAR ANTENNA(-)
23	L	REAR ANTENNA(+)
24	G	BUMPER ANTENNA(+)
38	V	SIREN
39	LAV	HIGH MOUNTED STOP LAMP
40	P	CANL

Connector No.	B53
Connector Name	REAR DOOR SWITCH RH
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	W	-

Connector No.	B59
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LALG	-
2	LA/GR	-
3	P	-
6	L	-
7	L	-
8	GR	- [For LHD models]
8	SB	- [For RHD models]
9	LA/R	-
10	LAV	-
11	LA/RB	-
12	W	-
13	LAV	-
14	R	-
15	P	-
16	P	-

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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 3]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	B71
Connector Name	REAR DOOR SWITCH-LH
Connector Type	TH04FW-NH



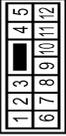
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	R	-
3	LAV	-
6	W	-
7	L	-
8	LA/R	-
9	LAL	-
12	G	-

Terminal No.	3	R	Signal Name [Specification]	-
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Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC



Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	1	B	Signal Name [Specification]	-
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Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Connector No.	D11
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE)
Connector Type	RH04FB



Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	SB	-
3	P	-
4	B	-

Connector No.	D15
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE)
Connector Type	RH04FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	B	-
4	W	-
5	V	-
6	SB	-
7	L	-
8	G	-
9	Y	-
10	B	-
11	G	-
13	LAW	-
14	LAG	-
15	LAGR	-
16	LAP	-
17	LA/SB	-
18	LA/R	-
19	LA/SB	-
20	GR	-
21	LA/G	-
22	R	-
23	BG	-
24	L	-

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

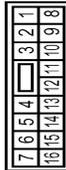
DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 3]

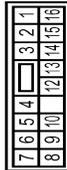
DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/B	-
2	Y	-
3	G	-
4	V	-
5	LG	-
6	G	-
7	SB	-
8	LA/B	-
9	LA/R	-
10	LA/V	-
11	LA/L	-
12	LA/G	-
13	LA/R	-
14	LA/G	-
15	LA/R	-
16	B	-

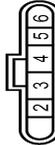
Connector No.	D25
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	LA/R	FRONT POWER WINDOW MOTOR/UP SIGNAL
3	L	-
4	P	ENCODER SIGNAL 2

Terminal No.	Color Of Wire	Signal Name [Specification]
5	W	ENCODER SIGNAL 1
6	LA/L	REAR POWER WINDOW MOTOR/RE/DOWN SIGNAL
7	LA/G	REAR POWER WINDOW MOTOR/R/UP SIGNAL
8	Y	REAR POWER WINDOW MOTOR/L/DOWN SIGNAL
9	G	REAR POWER WINDOW MOTOR/L/UP SIGNAL
10	SB	IGN ON POWER SUPPLY
12	LG	ENCODER GROUND
13	GR	-
14	G	ENCODER POWER SUPPLY
15	BG	-
16	LAV	FRONT POWER WINDOW MOTOR/ PASSENGER SIDE/UP SIGNAL

Connector No.	D35
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	FEA04FB-FHA2-LC



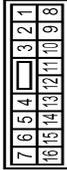
Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	R	-
4	V	-
5	G	-
6	LG	-

Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



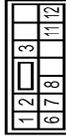
Terminal No.	Color Of Wire	Signal Name [Specification]
2	LAV	-
3	P	-
4	R	-
5	SB	-
6	LG	-
7	L	-
8	V	-
9	Y	-
10	B	-
11	R	-
13	B	-
14	LAV	-
15	LAG	-
16	LAGR	-
17	LAP	-
18	LASE	-
19	B	-
20	LG	-
21	BR	-
22	LAG	-

Connector No.	D62
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



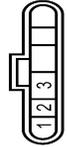
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	V	-
3	R	-
4	B	-
5	B	-
6	LAV	-
7	LAVR	-
8	LAVY	-
10	LAVR	-
11	LAVL	-

Connector No.	D67
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	BR	-
3	B	-
6	LAVY	-
7	LAVR	-
8	LAVL	-
11	LAVY	-
12	LAVR	-

Connector No.	D73
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	FEA04FB-FHA2-LC



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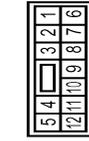
[TYPE 3]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	D91
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

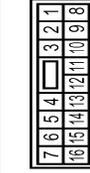


Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC



Terminal No.	31	W
Terminal No.	32	W

Connector No.	D164
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAV	-
2	LAIB	-
3	LAIG	-
4	LAV	-
5	LAV	- [For LHD models]
6	W	- [For RHD models]
7	LAG	- [For LHD models]
8	W	- [For RHD models]
9	LAL	-
7	SB	-
8	P	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAV	-
2	LAIB	-
3	LAIG	-
6	LAV	- [For LHD models]
7	LAG	- [For RHD models]
8	W	- [For LHD models]
9	LAL	-
12	W	-

Terminal No.	1	B	Signal Name [Specification]
Terminal No.	2	B	-

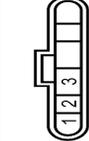
Connector No.	D160
Connector Name	WIRE TO WIRE
Connector Type	TR52FW-NH



Connector No.	D99
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	FEA04FB-FHA2-LC



Connector No.	D118
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	FEA04FB-FHA2-LC



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	LG	-

Terminal No.	Color Of Wire	Signal Name [Specification]
8	W	-
9	W	-
10	W	-
12	W	-
13	W	-
14	W	-
15	W	-
16	W	-

Connector No.	D168
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	W	-
4	GR	-

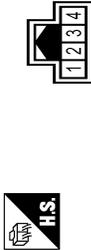
DOOR & LOCK SYSTEM

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[TYPE 3]

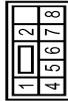
DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	D169
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH4MMV-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	GR	- [Without PBD]
4	W	- [With PBD]

Connector No.	D172
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08PW-GS



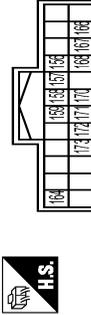
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
4	W	-
5	W	-
6	W	-
7	W	-
8	B	-

Connector No.	E12
Connector Name	POWER INTELLIGENT POWER-DS PRETRUCK MODULE (ENGINE ROOM)
Connector Type	TH24FGY-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
25	LG	-
26	W	-
27	SB	-
28	P	-
30	L	-
31	G	-
32	B	-
33	BG	-
34	LG	-
35	V	-
36	Y	-
37	B	-
38	GR	-
39	BR	-
45	L	-
46	P	-
47	W	-
48	R	-

Connector No.	E23
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
156	V	CLUTCH INTERLOCK SW
157	LG	STOP LAMP SW 2
158	W	STOP LAMP SW 1
159	R	ASCD CLUTCH SWITCH
164	Y	INTELLIGENT KEY WARNING BUZZER
165	P	STEERING LOCK UNIT POWER SUPPLY
167	BR	TURN SIG LH (FRONT)
168	GR	TURN SIG RH (FRONT)
170	L	PTC RELAY-3 CONTROL
171	G	STARTER RELAY CONT
172	V	PTC RELAY-1 CONTROL
173	BG	PTC RELAY-2 CONTROL

Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	FKG08BR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
3	B	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-GS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
5	V	- [Without ISS]
5	W	- [With ISS]
8	L	-
9	LG	-
10	W	-
20	W	-
21	B	-
22	SHIELD	-
31	Y	-
32	W	-
33	SB	-
34	LG	-
35	BG	-
36	LG	-
37	V	-
38	G	-
39	BR	-
40	L	-
41	P	-
47	GR	-
48	SB	-
51	P	-
52	L	-
53	W	-
54	Y	-
55	BR	-
56	P	-
57	B	-
58	L	-
59	W	-
60	G	-
61	BR	-
62	V	-
63	BR	-
64	GR	-
65	LG	-
66	BG	-
67	L	-
68	R	-
71	V	-
72	L	-
73	R	-
76	L	-
77	V	-
78	LG	-
79	SHIELD	-
80	GR	-

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[TYPE 3]

DOOR LOCK SYSTEM (RHD MODELS)

11	SB	-
14	P	-
15	BR	-
16	W	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH02FW-NH



18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	V	-
3	SB	-
4	BR	-
5	L	-
6	Y	-
7	LG	-
8	BG	-
9	W	-
10	Y	-
11	R	-
12	SB	-
13	LG	-
14	V	-
15	SB	-
16	Y	-
17	LA/BR	-
18	L/L	-
20	BG	-
21	BG	-
22	GR	-
23	GR	-
24	P	-
25	L	-
26	PR	-
29	SHIELD	-
30	W	-
31	B	-
32	R	-

Connector No.	M16
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH08FM-NH



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Terminal No.	Color Of Wire	Signal Name [Specification]
4	B	-
5	W	-
6	B	-
8	Y	-

Connector No.	M17
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	BG	-

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH24MV-NH



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	GR	-
3	GR	-
4	V	-
5	V	-
6	BR	-
7	L	-
8	Y	-
9	G	-
10	SHIELD	-
11	G	-
13	LAW	-
14	L/AG	-
15	LA/GR	-
16	L/AP	-
17	LA/SE	-
18	LA/R	-
19	GR	-
20	GR	-
21	LA/Y	-
22	R	-
23	SB	-
24	BG	-

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS16MV-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	G	-
3	V	-
4	V	-
5	W	-
6	G	-
7	L	-
8	B	-
9	BR	-
10	GR	-
11	Y	-
12	BG	-
13	GR	-
14	W	-
15	P	-
16	B	-

Connector No.	M25
Connector Name	KEY SWITCH
Connector Type	TH02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	B	-

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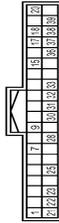
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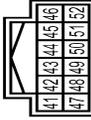
DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FTV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
7	BG	SECURITY SIGNAL
9	GR	ECO MODE SWITCH SIGNAL
15	L	AMBIENT SENSOR SIGNAL
17	BG	METER CONTROL SWITCH SIGNAL
18	SB	TRIP RESET SWITCH SIGNAL
20	Y	AMBIENT SENSOR GROUND
21	L	STEERING SWITCH SIGNAL A
22	Y	STEERING SWITCH SIGNAL B
23	GR	STEERING SWITCH SIGNAL
25	V	BRAKE FLUID LEVEL SWITCH SIGNAL
28	Y	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	LG	MANUAL MODE SIGNAL
31	SB	NON-MANUAL MODE SIGNAL
32	BG	MANUAL MODE SHIFT UP SIGNAL
33	BR	MANUAL MODE SHIFT DOWN SIGNAL
36	GR	ILLUMINATION CONTROL SWITCH SIGNAL (+)
37	V	ILLUMINATION CONTROL SWITCH SIGNAL (-)
38	G	VEHICLE SPEED SIGNAL (8-PULSE)
39	W	VEHICLE SPEED SIGNAL (2-PULSE)

Connector No.	M42
Connector Name	COMBINATION METER
Connector Type	TH12FTV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	L	CANH
42	P	ILLUMINATION CONTROL SIGNAL
43	W	FUEL LEVEL SENSOR GROUND
44	LAVR	FUEL LEVEL SENSOR SUPPLY
45	LAG	BATTERY POWER SUPPLY
46	LABR	IGNITION SIGNAL (Without ISS)
46	V	IGNITION SIGNAL (With ISS)
47	SB	AV COMMUNICATION SIGNAL (H)
48	LG	OIL LEVEL SENSOR SIGNAL (L)
49	Y	OIL LEVEL SENSOR SIGNAL
50	BG	FUEL LEVEL SENSOR SIGNAL
51	LAL	FUEL LEVEL SENSOR SIGNAL
52	B	GROUND

Connector No.	M66
Connector Name	DIODE-2
Connector Type	ET02-2W



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LAVR	-
5	V	- [Without ISS]
5	W	- [With ISS]
8	G	-
9	Y	-
10	R	-
20	W	-
21	B	-
22	SHIELD	-
31	V	-
32	GR	-
33	G	-
34	LG	-
35	BG	-
36	LG	-
37	V	-
38	G	-
39	BR	-

40	L	-
41	P	-
47	Y	-
48	BG	-
51	GR	-
52	SB	-
53	R	-
54	LAL	-
55	BR	-
56	P	-
57	B	-
58	L	-
59	W	-
60	LAVR	-
61	P	-
62	V	-
63	LABR	-
64	V	-
65	GR	-
66	BG	-
67	L	-
68	R	-
71	V	-
72	L	-
73	Y	-
76	L	-
77	V	-
78	LG	-
79	SHIELD	-
80	L	- [Without ISS]
80	LAL	- [Without ISS]
82	GR	-
83	LG	-
84	SB	-
85	G	-
86	G	-
87	B	-
88	B	-
91	L	-
92	W	-
93	W	-
96	LG	-
97	BR	-
98	V	-
99	R	-

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[TYPE 3]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	M83
Connector Name	WIRE TO WIRE
Connector Type	TR24MV-AH



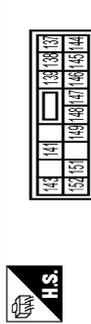
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	W	-
3	D	-
4	SB	-
5	LG	-
6	B	-
7	R	-
8	Y	-
9	SHIELD	-
10	R	-
11	B	-
12	LA/W	-
13	LA/G	-
14	LA/R	-
15	LA/P	-
16	LA/SE	-
17	B	-
18	LG	-
19	BR	-
20	LA/G	-
21	BR	-
22	LA/G	-

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	NS16MV-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	Y	-
3	W	-
4	B	-
5	B	-
6	Y	-
7	R	-
8	BR	-
9	GR	-
10	GR	-
11	SB	-

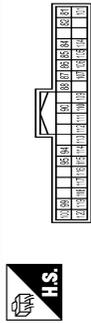
Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FRCS



Terminal No.	Color Of Wire	Signal Name [Specification]
137	W	BAT POWER SUPPLY (FUSE)
138	SB	INT ROOM LAMP CONT
139	L	PASSENGER DOOR UNLOCK OUTPUT
141	V	FRONT DOOR LOCK OUTPUT
143	LA/V	POWER SUPPLY (FR DOOR LK ACT)
144	EG	POWER SUPPLY (TURN SIGNAL)
145	GR	POWER SUPPLY (STOP LAMP)
146	B	GROUND
147	B	GROUND
148	G	DRIVER DOOR UNLOCK OUTPUT

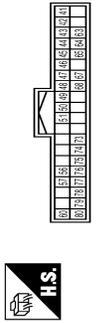
149	W	FRONT DOOR SUPERLOCK OUTPUT
151	R	POWER SUPPLY (REAR DOOR LK ACT)
152	LG	POWER SUPPLY (REAR WIPER)

Connector No.	M86
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
81	L	KEY SWITCH
82	LA/R	KEY SW (S1) (Without intelligent key)
82	W	PASS DOOR REQ SW (With intelligent key)
84	BR	COMBI SW OUTPUT 2
85	SB	COMBI SW OUTPUT 1
86	P	COMBI SW OUTPUT 3
87	EG	COMBI SW OUTPUT 4
88	W	PUSH BTN IGN SW ILL CONT
90	Y	SIL CONDITION
94	G	EXTENDED STORAGE FUSE SW
99	R	STOP/START OFF SW
100	V	DRIVER DOOR ANT +
101	Y	PUSH SW
104	R	DR DOOR UNLK SENS
105	Y	DR DOOR REQ SW
106	W	ACC OUTPUT
107	V	SENSOR CANCEL SW
109	P	NATS ANTENNA AMP
110	EG	DIMMER SIGNAL
111	R	DOOR LK STAT IND OUTPUT
112	SB	STOP/START OFF SW INDICATOR
113	LG	NATS ANTENNA AMP
114	Y	NATS ANTENNA AMP
115	W	NATS ANTENNA AMP
116	EG	ROOM ANT 1 +
117	GR	ROOM ANT 1 -
118	SB	PASSENGER DOOR ANT +
119	P	PASSENGER DOOR ANT -
120	BR	RRIVER DOOR ANT +

Connector No.	M87
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	STEERING LOCK UNIT POWER SUPPLY
42	LA/G	TURN SIG LH (SIDE)
43	LA/Y	TURN SIG RH (SIDE)
44	P	INTERIOR ROOM LAMP RELAY CONT
45	R	CAN-L
46	L	CAN-H
47	G	LIGHT & RAIN SENSOR
48	L	CAN-H
49	R	CAN-L
50	BG	DOOR LOCK SW
51	Y	HAZARD SW
56	P	DONBLE
57	L	CVT SHIFT SELECT (DETENT SW) PWR
60	R	HEADLAMP WASHER SW
63	G	POWER WINDOW RELAY CON
64	LA/R	REAR WINDOW DEFROGGER RELAY CONT
65	BR	ACC RELAY CONT
67	Y	IGN RELAY (FB) CONT OUTPUT
68	LA/W	BLOWER RELAY CONT
73	LG	COMBI SW INPUT 5
74	Y	COMBI SW OUTPUT 5
75	BG	SECURITY IND LAMP CONT
76	G	COMBI SW INPUT 3
77	GR	COMBI SW INPUT 4
78	V	COMBI SW INPUT 1
79	W	COMBI SW INPUT 2
80	SB	DOOR UNLOCK SW

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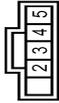
DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 3]

DOOR LOCK SYSTEM (RHD MODELS)

Connector No.	M92
Connector Name	INDICATOR UNIT
Connector Type	JAB05FB



Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	GND
3	W	CUTOFF TELLTALE (ONACT)
4	GR	CUTOFF TELLTALE OFF (BEACT)
5	R	DOOR LOCK

JRKWD4431GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[TYPE 3]

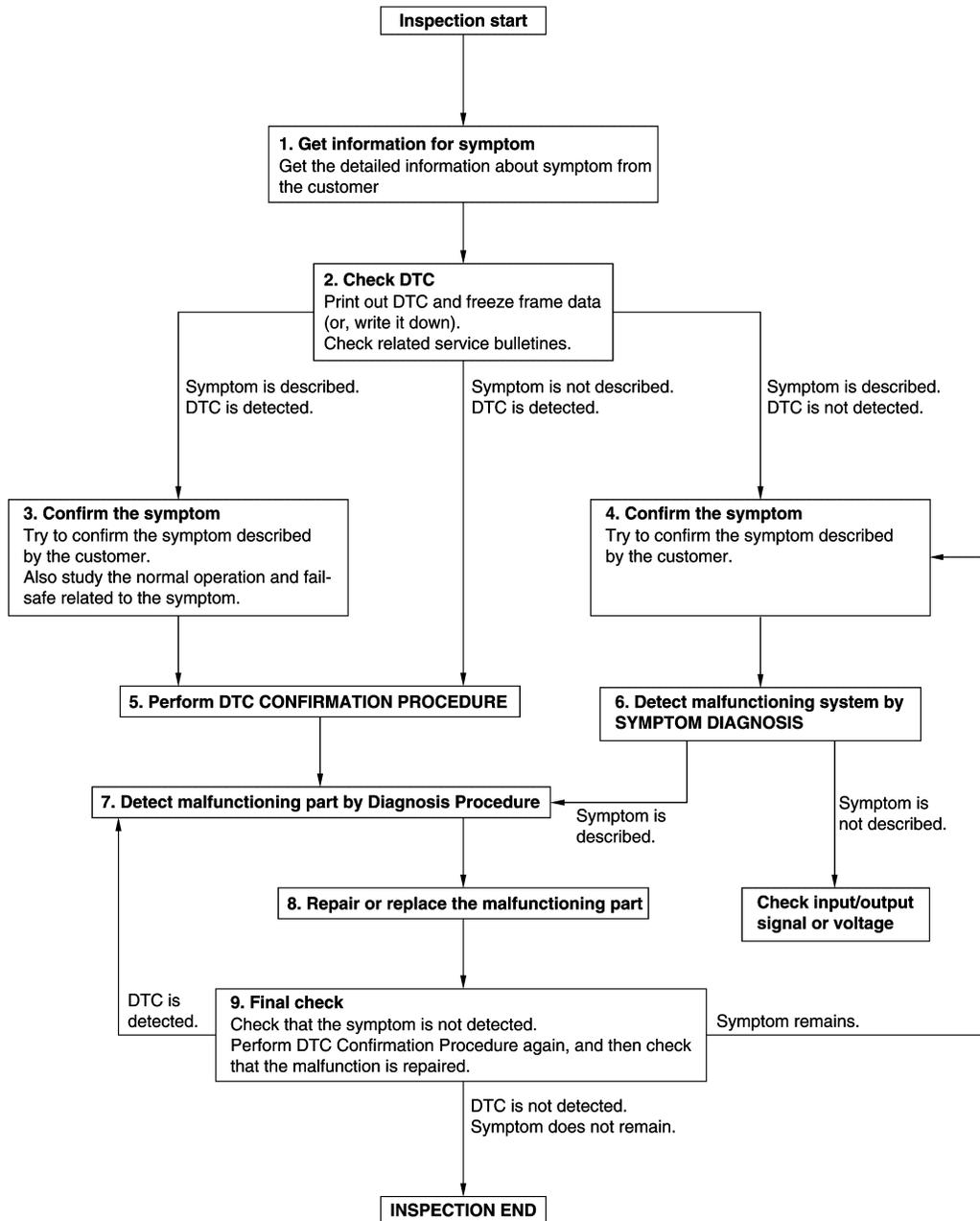
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000010708356

OVERALL SEQUENCE



DETAILED FLOW

DLK-677

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DIAGNOSIS AND REPAIR WORK FLOW

[TYPE 3]

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2. CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.
 - Record DTC and freeze frame data (Print them out using CONSULT.)
 - 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.

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

3. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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 detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time.

If two or more DTCs are detected, refer to [BCS-77. "DTC Inspection Priority Chart"](#) and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.

If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to [GI-44. "Intermittent Incident"](#).

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

DIAGNOSIS AND REPAIR WORK FLOW

[TYPE 3]

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-44. "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

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

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

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KEYFOB ID REGISTRATION

< BASIC INSPECTION >

[TYPE 3]

KEYFOB ID REGISTRATION

Description

INFOID:000000010708357

Perform the system initialization when replacing BCM, replacing keyfob or registering an additional keyfob. Refer to the CONSULT Immobilizer mode and follow the on-screen instructions.

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

DTC/CIRCUIT DIAGNOSIS

BACK DOOR SWITCH

Component Function Check

INFOID:0000000010708358

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR SW-BK" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-BK	Back door	Open	On
		Closed	Off

Is the inspection result normal?

YES >> Back door switch is OK.

NO >> Refer to [DLK-681, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000010708359

1. CHECK BACK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door lock assembly connector.
3. Check signal between back door lock assembly harness connector and ground using oscilloscope.

(+)		(-)	Voltage
Connector	Terminal		
D168	3	Ground	9 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK BACK DOOR SWITCH CIRCUIT

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

Back door lock assembly		BCM		Continuity
Connector	Terminal	Connector	Terminal	
D168	3	B47	11	Existed

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D168	3		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK BACK DOOR SWITCH GROUND CIRCUIT

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

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BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

Back door lock assembly		Ground	Continuity
Connector	Terminal		Existed
D168	4		

Is the inspection result normal?

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

4.CHECK BACK DOOR SWITCH

Refer to [DLK-682, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Replace back door lock assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010708360

1.CHECK BACK DOOR SWITCH

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

Back door lock assembly		Condition	Continuity	
Terminal			Existed	
3	4	Back door lock	Lock	Existed
			Unlock	Not existed

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace back door lock assembly.

BACK DOOR OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

BACK DOOR OPENER ACTUATOR

Diagnosis Procedure

INFOID:000000010708361

1. CHECK BACK DOOR OPENER ACTUATOR INPUT SIGNAL

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

(+)		(-)	Condition		Voltage
Back door lock assembly					
Connector	Terminal				
D168	1	Ground	Back door opener switch	ON	9 – 16 V

Is the inspection result normal?

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

2. CHECK BACK DOOR OPENER ACTUATOR CIRCUIT

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

BCM		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B46	121	D168	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B46	121		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK BACK DOOR OPENER ACTUATOR GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D168	2		Existed

Is the inspection normal?

- YES >> Replace back door lock assembly.
NO >> Repair or replace harness.

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BACK DOOR OPENER SWITCH

[TYPE 3]

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPENER SWITCH

Component Function Check

INFOID:000000010708362

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "TRUNK" of "BCM" using CONSULT.
3. Select "BACK DOOR OPENER SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
BACK DOOR OPENER SW	Back door opener switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

- YES >> Back door opener switch is OK.
NO >> Refer to [DLK-684. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708363

1.CHECK BACK DOOR OPEN INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door opener switch assembly connector.
3. Check voltage between back door opener switch assembly harness connector and ground.

(+)		(-)	Voltage
Connector	Terminal		
D169	1	Ground	9 – 16 V

Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

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

BCM		Back door opener switch assembly		Continuity
Connector	Terminal	Connector	Terminal	
B47	16	D169	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B47	16		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

Back door opener switch assembly		Ground	Continuity
Connector	Terminal		Existed
D169	2		

Is the inspection result normal?

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

4.CHECK BACK DOOR OPENER SWITCH

Refer to [DLK-685. "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Replace back door opener switch assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010708364

1.CHECK BACK DOOR OPENER SWITCH

1. Turn ignition switch OFF.
2. Disconnect back door opener switch assembly connector.
3. Check continuity between back door opener switch assembly terminals.

Back door opener switch assembly		Condition	Continuity	
Terminal			Existed	
1	2	Back door opener switch	Pressed	Existed
		Released	Not existed	

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace back door opener switch assembly.

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DOOR LOCK ACTUATOR

[TYPE 3]

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:000000010708365

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-686, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000010708366

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check voltage between front door lock assembly (driver side) harness connector and ground.

(+)		(-)	Condition	Voltage
Connector	Terminal			
D35	4	Ground	Door lock and unlock switch	9 – 16 V
	5		Lock Unlock	

Is the inspection result normal?

YES >> Replace front door lock assembly (driver side).

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M85	141	D35	4	Existed
	148		5	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	141		Not existed
	148		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

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

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

(+)		(-)	Condition	Voltage
BCM				
Connector	Terminal			
M85	141	Ground	Door lock and unlock switch	Lock
	148			Unlock
				9 – 16 V

Is the inspection result normal?

YES >> Check for internal short of front door lock actuator.

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:000000010708367

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-687, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010708368

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (passenger side) connector.
3. Check voltage between front door lock assembly (passenger side) harness connector and ground.

(+)		(-)	Condition	Voltage
Front door lock assembly (passenger side)				
Connector	Terminal			
D73	2	Ground	Door lock and unlock switch	Unlock
	3			Lock
				9 – 16 V

Is the inspection result normal?

YES >> Replace front door lock assembly (passenger side).

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

RHD models

BCM		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M85	139	D73	2	Existed
	141		3	

3. Check continuity between BCM harness connector and ground.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

BCM		Ground	Continuity
Connector	Terminal		
M85	139		
	141		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition	Voltage
BCM				
Connector	Terminal			
M85	139	Ground	Door lock and unlock switch	9 – 16 V
	141		Unlock Lock	

Is the inspection result normal?

YES >> Check for internal short of front door lock actuator.

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

REAR LH

REAR LH : Component Function Check

INFOID:000000010708369

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-688, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000010708370

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly LH connector.
3. Check voltage between rear door lock assembly LH harness connector and ground.

(+)		(-)	Condition	Voltage
Rear door lock assembly LH				
Connector	Terminal			
D118	2	Ground	Door lock and unlock switch	9 – 16 V
	3		Unlock Lock	

Is the inspection result normal?

YES >> Replace rear door lock assembly LH.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

BCM		Rear door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	
B46	124	D118	2	Existed
	125		3	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B46	124		Not existed
	125		

Is the inspection result normal?

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

3.CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition	Voltage
BCM				
Connector	Terminal			
B46	124	Ground	Door lock and unlock switch	Unlock
	125			Lock
				9 – 16 V

Is the inspection result normal?

- YES >> Check for internal short of rear door lock actuator.
NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

REAR RH

REAR RH : Component Function Check

INFOID:000000010708371

DLK

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
NO >> Refer to [DLK-689, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000010708372

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly RH connector.
3. Check voltage between rear door lock assembly RH harness connector and ground.

(+)		(-)	Condition	Voltage
Rear door lock assembly RH				
Connector	Terminal			
D99	4	Ground	Door lock and unlock switch	Lock
	5			Unlock
				9 – 16 V

DOOR LOCK ACTUATOR

[TYPE 3]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace rear door lock assembly RH.
 NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Rear door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	
B46	124	D99	5	Existed
	125		4	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B46	124		Not existed
	125		

Is the inspection result normal?

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

3. CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition	Voltage
BCM				
Connector	Terminal			
B46	124	Ground	Door lock and unlock switch	9 – 16 V
	125		Unlock Lock	

Is the inspection result normal?

- YES >> Check for internal short of rear door lock actuator.
 NO >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000010708373

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "CDL LOCK SW", "CDL UNLOCK SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
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 (driver door) is OK.
 NO >> Refer to [DLK-691, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000010708374

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect power window main switch connector.
3. Check voltage between power window main switch harness connector and ground.

(+)		(-)	Voltage
Connector	Terminal		
D25	3	Ground	9 – 16 V
	15		

Is the inspection result normal?

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

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and power window main switch harness connector.

BCM		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
M87	50	D25	3	Existed
	80		15	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M87	50		Not existed
	80		

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

DOOR LOCK AND UNLOCK SWITCH

[TYPE 3]

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-74, "POWER WINDOW MAIN SWITCH : Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:000000010957637

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "CDL LOCK SW", "CDL UNLOCK SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
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 (passenger door) is OK.

NO >> Refer to [DLK-692, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010957638

1.CHECK DRIVER SIDE DOOR LOCK AND UNLOCK SWITCH OPERATION

1. Turn ignition switch ON.
2. Check door lock/unlock using driver side door lock and unlock switch operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [DLK-691, "DRIVER SIDE : Diagnosis Procedure"](#).

2.CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front power window switch (passenger side) connector.
3. Check voltage between front power window switch (passenger side) harness connector and ground.

(+) Front power window switch (passenger side)		(-)	Voltage
Connector	Terminal		
D67	1	Ground	9 – 16 V
	2		

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

3.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

BCM		Front power window switch (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M87	50	D67	1	Existed
	80		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M87	50		Not existed
	80		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace front power window switch (passenger side). Refer to [PWC-74, "FRONT POWER WINDOW SWITCH \(PASSENGER SIDE\) : Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

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DLK

DOOR LOCK STATUS INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

DOOR LOCK STATUS INDICATOR

Component Function Check

INFOID:000000010734972

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "DOOR LOCK IND" in "ACTIVE TEST" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item		Status	
DOOR LOCK IND	ON	Door lock status indicator	Turns ON
	OFF		Turns OFF

Is the inspection result normal?

- YES >> Door lock status indicator is OK.
NO >> Refer to [DLK-694, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010734973

1.CHECK DOOR LOCK STATUS INDICATOR INPUT SIGNAL

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

(+)		(-)	Voltage
Indicator unit			
Connector	Terminal	Ground	9 – 16 V
M92	5		

Is the inspection result normal?

- YES >> Replace indicator unit.
NO >> GO TO 2.

2.CHECK DOOR LOCK STATUS INDICATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and indicator unit harness connector.

BCM		Indicator unit		Continuity
Connector	Terminal	Connector	Terminal	
M86	111	M92	5	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	111		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
NO >> Repair or replace harness.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

DOOR SWITCH

Component Function Check

INFOID:000000010708375

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL" and "DOOR SW-RR" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-DR	Driver side door	Open	ON
		Closed	OFF
DOOR SW-AS	Passenger side door	Open	ON
		Closed	OFF
DOOR SW-RL	Rear door LH	Open	ON
		Closed	OFF
DOOR SW-RR	Rear door RH	Open	ON
		Closed	OFF

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [DLK-695, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708376

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check voltage between malfunctioning door switch harness connector and ground using oscilloscope.

(+)		Terminal	(-)	Voltage
Door switch				
Connector				
Driver side	B34	3	Ground	9 – 16 V
Passenger side	B27			
Rear LH	B71			
Rear RH	B53			

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

Door switch		Terminal	BCM		Continuity
Connector			Connector	Terminal	
Driver side	B34	3	B47	17	Existed
Passenger side	B27			13	
Rear LH	B71			12	
Rear RH	B53			10	

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

3. Check continuity between door switch harness connector and ground.

Door switch		Terminal	Ground	Continuity
Connector				3
Driver side	B34	3	Ground	Not existed
Passenger side	B27			
Rear LH	B71			
Rear RH	B53			

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR SWITCH

Refer to [DLK-696, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010708377

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check continuity between door switch terminals.

Door switch			Condition	Continuity	
Terminal					
Driver side	3	Ground part of door switch	Door switch	Pressed	Not existed
Passenger side			Released	Existed	
			Pressed	Not existed	
Rear LH			Released	Existed	
			Pressed	Not existed	
Rear RH			Released	Existed	
			Pressed	Not existed	
					Released

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

HAZARD FUNCTION

Component Function Check

INFOID:000000010708378

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "MULTI REMOTE ENT" of "BCM" using CONSULT.
3. Select "FLASHER" in "ACTIVE TEST" mode.
4. Touch "LH" or "RH" to check that it works normally.

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.

NO >> Refer to [DLK-697, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708379

1.CHECK HAZARD OPERATION

Refer to [EXL-236, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [EXL-361, "Symptom Table"](#).

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

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DLK

KEY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

KEY SWITCH

Component Function Check

INFOID:000000010708380

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "KEY SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
KEY SW	Keyfob	Inserted in key cylinder	On
		Removed from key cylinder	Off

Is the inspection result normal?

YES >> Key switch is OK.

NO >> Refer to [DLK-698, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010708381

1. CHECK KEY SWITCH POWER SUPPLY CIRCUIT

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

Key switch		Ground	Voltage
Connector	Terminal		
M25	1		9 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK KEY SWITCH CIRCUIT

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

Key switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M25	1	M86	81	Existed

3. Check continuity between key switch harness connector and ground.

Key switch		Ground	Continuity
Connector	Terminal		
M25	1		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK KEY SWITCH GROUND CIRCUIT

Check continuity between key switch harness connector and ground.

KEY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

Key switch		Ground	Continuity
Connector	Terminal		
M25	2		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace ignition key cylinder.

NO >> Repair or replace malfunctioning parts.

Component Inspection

INFOID:000000010708382

COMPONENT INSPECTION

1.CHECK KEY SWITCH

1. Turn ignition switch OFF.
2. Disconnect key switch connector.
3. Check continuity between key switch terminals.

Key switch		Condition	Continuity
Terminal			
1	2	Keyfob	Inserted in key cylinder Existed
			Removed from key cylinder Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace key switch.

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KEYFOB BATTERY

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

KEYFOB BATTERY

Component Inspection

INFOID:000000010708383

1. CHECK KEYFOB BATTERY

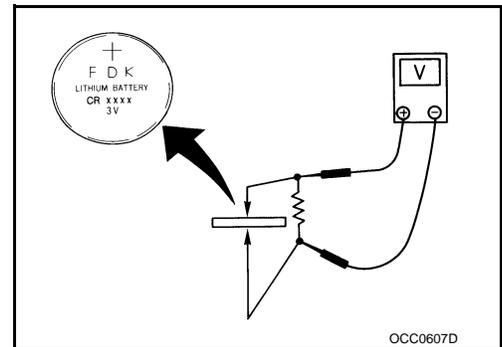
Check by connecting a resistance (approximately 300 Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace keyfob battery. Refer to [DLK-789, "Removal and Installation"](#).



POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

POWER SUPPLY AND GROUND CIRCUIT FRONT DOOR LOCK

FRONT DOOR LOCK : Diagnosis Procedure

INFOID:0000000010708384

1.CHECK FUSE

Check that the following fuse is not fusing.

Signal name	Fuse No.
Front door lock actuator power supply	5 (20 A)

Is the fuse fusing?

- 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 BCM connector.
3. Check voltage between BCM harness connector and ground.

(+)		(-)	Voltage
BCM			
Connector	Terminal	Ground	9 – 16 V
M85	143		

Is the measurement value normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		Existed
M85	146		
	147		

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair or replace harness.

REAR DOOR LOCK

REAR DOOR LOCK : Diagnosis Procedure

INFOID:0000000010708385

1.CHECK FUSE

Check that the following fuse is not fusing.

Signal name	Fuse No.
Rear door lock actuator power supply	3 (20 A)

Is the fuse fusing?

- 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 BCM connector.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

3. Check voltage between BCM harness connector and ground.

(+)		(-)	Voltage
BCM			
Connector	Terminal		
M85	151	Ground	9 – 16 V

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	146		Existed
	147		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

SUPER LOCK ACTUATOR

[TYPE 3]

< DTC/CIRCUIT DIAGNOSIS >

SUPER LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000010735366

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "SUPER LOCK" in "ACTIVE TEST" mode.
3. Touch "LOCK" or "UNLOCK" to check that it works normally.

Is the inspection result normal?

- YES >> Super lock actuator is OK.
NO >> Refer to [DLK-703. "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000010735367

1.CHECK SUPER LOCK ACTUATOR SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check voltage between front door lock assembly (driver side) harness connector and ground.

(+)		(-)	Condition		Voltage
Front door lock assembly (driver side)					
Connector	Terminal	Ground	Super lock	Release	9 – 16 V
D35	5				
	6				

Is the inspection result normal?

- YES >> Replace front door lock assembly (driver side).
NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M85	148	D35	5	Existed
	149		6	

3. Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	148		Not existed
	149		

Is the inspection result normal?

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

3.CHECK BCM OUTPUT SIGNAL

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

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SUPER LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

(+)		(-)	Condition		Voltage
BCM					
Connector	Terminal				
M85	148	Ground	Super lock	Release	9 – 16 V
	149			Set	

Is the inspection result normal?

- YES >> Check for internal short of each door lock actuator.
 NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:0000000110735368

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "SUPER LOCK" in "ACTIVE TEST" mode.
3. Touch "LOCK" or "UNLOCK" to check that it works normally.

Is the inspection result normal?

- YES >> Super lock actuator is OK.
 NO >> Refer to [DLK-704, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000110735369

1.CHECK SUPER LOCK ACTUATOR SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (passenger side) connector.
3. Check voltage between front door lock assembly (passenger side) harness connector and ground.

(+)		(-)	Condition		Voltage
Front door lock assembly (passenger side)					
Connector	Terminal				
D73	1	Ground	Super lock	Set	9 – 16 V
	2			Release	

Is the inspection result normal?

- YES >> Replace front door lock assembly (passenger side).
 NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M85	139	D73	2	Existed
	149		1	

3. Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	139		Not existed
	149		

SUPER LOCK ACTUATOR

[TYPE 3]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

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

3.CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition		Voltage
BCM					
Connector	Terminal	Ground	Super lock	Release	9 – 16 V
M85	139			Set	
	149				

Is the inspection result normal?

- YES >> Check for internal short of each door lock actuator.
NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

REAR LH

REAR LH : Component Function Check

INFOID:000000010735370

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "SUPER LOCK" in "ACTIVE TEST" mode.
3. Touch "LOCK" or "UNLOCK" to check that it works normally.

Is the inspection result normal?

- YES >> Super lock actuator is OK.
NO >> Refer to [DLK-705, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000010735371

1.CHECK SUPER LOCK ACTUATOR OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly LH.
3. Check voltage between rear door lock assembly LH harness connector and ground.

(+)		(-)	Condition		Voltage
Rear door lock assembly LH					
Connector	Terminal	Ground	Super lock	Set	9 – 16 V
D118	1			Release	
	2				

Is the inspection result normal?

- YES >> Replace rear door lock assembly LH.
NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

1. Disconnect BCM, each door lock actuator and fuel filler lid lock actuator connector.
2. Check continuity between BCM harness connector and rear door lock assembly LH harness connector.

BCM		Rear door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	
B46	124	D118	2	Existed
	131		1	

3. Check continuity between BCM harness connector and ground.

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SUPER LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

BCM		Ground	Continuity
Connector	Terminal		
B46	124		
	131		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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

(+) BCM		(-)	Condition		Voltage
Connector	Terminal				
B46	124	Ground	Super lock	Release	9 – 16 V
	131			Set	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).

REAR RH

REAR RH : Component Function Check

INFOID:000000010735372

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "SUPER LOCK" in "ACTIVE TEST" mode.
3. Touch "LOCK" or "UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Super lock actuator is OK.

NO >> Refer to [DLK-706. "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000010735373

1.CHECK DOOR LOCK ACTUATOR OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly RH.
3. Check voltage between rear door lock assembly RH harness connector and ground.

(+) Rear door lock assembly RH		(-)	Condition		Voltage
Connector	Terminal				
D99	5	Ground	Super lock	Release	9 – 16 V
	6			Set	

Is the inspection result normal?

YES >> Replace rear door lock assembly RH.

NO >> GO TO 2.

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

1. Disconnect BCM, each door lock actuator and fuel filler lid lock actuator connector.
2. Check continuity between BCM harness connector and rear door lock assembly RH harness connector.

SUPER LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

BCM		Rear door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	
B46	124	D99	5	Existed
	131		6	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B46	124		Not Existed
	131		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition		Voltage
BCM					
Connector	Terminal				
B46	124	Ground	Super lock	Release	9 – 16 V
	131			Set	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

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UNLOCK SENSOR

[TYPE 3]

< DTC/CIRCUIT DIAGNOSIS >

UNLOCK SENSOR

Diagnosis Procedure

INFOID:000000010708386

1. CHECK UNLOCK SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check voltage between front door lock assembly (driver side) harness connector and ground with oscilloscope.

(+) Front door lock assembly (driver side)		(-)	Voltage
Connector	Terminal		
D35	3	Ground	9 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK UNLOCK SENSOR CIRCUIT

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

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M86	104	D35	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	104		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK UNLOCK SENSOR GROUND CIRCUIT

Check continuity between front door lock assembly (driver side) harness connector and ground.

Front door lock assembly (driver side)		Ground	Continuity
Connector	Terminal		
D35	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK UNLOCK SENSOR

Refer to [DLK-709, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 3]

>> INSPECTION END

Component Inspection

INFOID:0000000010708387

1. CHECK UNLOCK SENSOR

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check continuity between front door lock assembly (driver side) terminals.

Front door lock assembly (driver side)		Condition	Continuity
Terminal			
3	2	Driver door	Unlock Existed
			Lock Not existed

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace front door lock assembly (driver side).

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ANTI-HIJACK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 3]

SYMPTOM DIAGNOSIS

ANTI-HIJACK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010735374

1. CHECK "DOOR LOCK-UNLOCK SET" SETTING IN "WORK SUPPORT"

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" mode.
3. Check "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT"
Refer to [DLK-658, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\) \(Without Intelligent Key System, With Super Lock\)"](#).

Is the inspection result normal?

- YES >> GO TO 2
NO >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT".

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 3]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010708388

1. CHECK "AUTO LOCK SET" SETTING WITH CONSULT

1. Select "MULTI REMOTE ENT" of "BCM" using CONSULT.
2. Select "AUTO LOCK SET" in "WORK SUPPORT" mode.
3. Check "AUTO LOCK SET" setting in "WORK SUPPORT".

Refer to [DLK-659, "MULTI REMOTE ENT : CONSULT Function \(BCM - MULTI REMOTE ENT\) \(With Super Lock\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "MODE 2", "MODE 3", "MODE 4", "MODE 5", "MODE 6" or "MODE 7" in "AUTO LOCK SET".

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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BACK DOOR DOES NOT OPEN

[TYPE 3]

< SYMPTOM DIAGNOSIS >

BACK DOOR DOES NOT OPEN

Diagnosis Procedure

INFOID:000000010708389

1. CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-684, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK BACK DOOR OPENER ACTUATOR

Check back door opener actuator.

Refer to [DLK-683, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 3]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Description

INFOID:0000000010708390

All doors do not lock/unlock using door lock and unlock switch.

ALL DOOR : Diagnosis Procedure

INFOID:0000000010708391

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check door lock and unlock power supply and ground circuit.

Refer to [DLK-701, "FRONT DOOR LOCK : Diagnosis Procedure"](#) (front door) and [DLK-701, "REAR DOOR LOCK : Diagnosis Procedure"](#) (rear door).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Refer to [DLK-691, "DRIVER SIDE : Component Function Check"](#) (driver door) and [DLK-692, "PASSENGER SIDE : Component Function Check"](#) (passenger door).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

FRONT DOOR

FRONT DOOR : Description

INFOID:0000000010708392

Front doors do not lock/unlock using door lock and unlock switch.

FRONT DOOR : Diagnosis Procedure

INFOID:0000000010708393

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check front door lock and unlock power supply and ground circuit.

Refer to [DLK-701, "FRONT DOOR LOCK : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR LOCK ACTUATOR

Check front door lock actuator.

Refer to [DLK-686, "DRIVER SIDE : Component Function Check"](#) (driver door).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

DLK

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 3]

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REAR DOOR

REAR DOOR : Description

INFOID:000000010708394

Rear doors do not lock/unlock using door lock and unlock switch.

REAR DOOR : Diagnosis Procedure

INFOID:000000010708395

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check rear doors lock and unlock power supply and ground circuit.

Refer to [DLK-701, "REAR DOOR LOCK : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator.

Refer to [DLK-688, "REAR LH : Component Function Check"](#) (LH).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000010708396

Driver side door does not lock/unlock using door lock and unlock switch.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000010708397

1.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (driver side).

Refer to [DLK-686, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

PASSENGER SIDE

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 3]

PASSENGER SIDE : Description

INFOID:000000010708398

Passenger side door does not lock/unlock using door lock and unlock switch.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010708399

1.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (passenger side).

Refer to [DLK-687, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REAR LH

REAR LH : Description

INFOID:000000010708400

Rear LH side door does not lock/unlock using door lock and unlock switch.

REAR LH : Diagnosis Procedure

INFOID:000000010708401

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock assembly LH.

Refer to [DLK-688, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REAR RH

REAR RH : Description

INFOID:000000010708402

Rear RH side door does not lock/unlock using door lock and unlock switch.

REAR RH : Diagnosis Procedure

INFOID:000000010708403

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock assembly RH

Refer to [DLK-689, "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 3]

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

< SYMPTOM DIAGNOSIS >

[TYPE 3]

DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

Diagnosis Procedure

INFOID:000000010780999

1. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 2.

NO >> Refer to [DLK-713, "ALL DOOR : Diagnosis Procedure"](#).

2. CHECK UNLOCK SENSOR

Check unlock sensor.

Refer to [DLK-708, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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DOOR DOES NOT LOCK/UNLOCK WITH KEYFOB

[TYPE 3]

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH KEYFOB

Diagnosis Procedure

INFOID:000000010708404

1.CHECK KEYFOB LED

Check keyfob LED is blink using keyfob button operation.

Is the inspection result normal?

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

2.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

- YES >> GO TO 5.
- NO >> Refer to [DLK-713, "ALL DOOR : Diagnosis Procedure"](#).

3.CHECK KEYFOB

Check the inside of the keyfob for rust or corrosion by water. Simultaneously check the internal circuits for damage.

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Replace keyfob.

4.CHECK KEYFOB BATTERY

Check keyfob battery.

Refer to [DLK-700, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace the malfunctioning parts.

5.CHECK KEY SWITCH

Check key switch.

Refer to [DLK-698, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Repair or replace the malfunctioning parts.

6.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-695, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 7.
- NO >> Repair or replace the malfunctioning parts.

7.REPLACE KEYFOB

1. Replace keyfob.
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

DOOR LOCK STATUS INDICATOR DOES NOT ILLUMINATE

< SYMPTOM DIAGNOSIS >

[TYPE 3]

DOOR LOCK STATUS INDICATOR DOES NOT ILLUMINATE

Diagnosis Procedure

INFOID:000000010734975

1. CHECK DOOR LOCK STATUS INDICATOR

Check door lock status indicator.

Refer to [DLK-694, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

NO >> GO TO 1.

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KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 3]

KEY REMINDER FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010708407

1.CHECK KEY SWITCH

Check key switch.

Refer to [DLK-698, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DRIVER SIDE DOOR SWITCH

Check driver side door switch.

Refer to [DLK-695, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 3]

REMINDER FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010708408

1. CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)

NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2. CHECK HAZARD WARNING LAMP

Check hazard warning lamp.

Refer to [DLK-697, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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SUPER LOCK DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 3]

SUPER LOCK DOES NOT OPERATE

ALL DOOR

ALL DOOR : Description

INFOID:0000000010735375

All super lock do not operate.

ALL DOOR : Diagnosis Procedure

INFOID:0000000010735376

1.CHECK POWER DOOR LOCK OPERATION

Check driver door lock/unlock using door lock and unlock switch.

Does driver door lock/unlock using door lock and unlock switch?

YES >> GO TO 2.

NO >> Refer to [DLK-713, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK SUPER LOCK ACTUATOR CIRCUIT

Check driver door super lock actuator.

Refer to [DLK-703, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000010735377

Driver side super lock does not operate.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000010735378

1.CHECK SUPER LOCK ACTUATOR

Check driver side super lock actuator.

Refer to [DLK-703, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000010735379

Passenger side super lock does not operate.

SUPER LOCK DOES NOT OPERATE

[TYPE 3]

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010735380

1.CHECK SUPER LOCK ACTUATOR

Check passenger side super lock actuator.

Refer to [DLK-704. "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44. "Intermittent Incident"](#).

REAR LH

REAR LH : Description

INFOID:000000010735381

Rear LH side super lock does not operate.

REAR LH : Diagnosis Procedure

INFOID:000000010735382

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator rear LH.

Refer to [DLK-705. "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44. "Intermittent Incident"](#).

REAR RH

REAR RH : Description

INFOID:000000010735383

Passenger side super lock does not operate.

REAR RH : Diagnosis Procedure

INFOID:000000010735384

1.CHECK SUPER LOCK ACTUATOR

Check super lock actuator rear RH.

Refer to [DLK-706. "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

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SUPER LOCK DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 3]

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

UNLOCK LINK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 3]

UNLOCK LINK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010735385

1. CHECK DRIVER SIDE OR PASSENGER SIDE DOOR SWITCH

Check driver side or passenger side door switch.
Refer to [DLK-695, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace the malfunctioning parts.

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

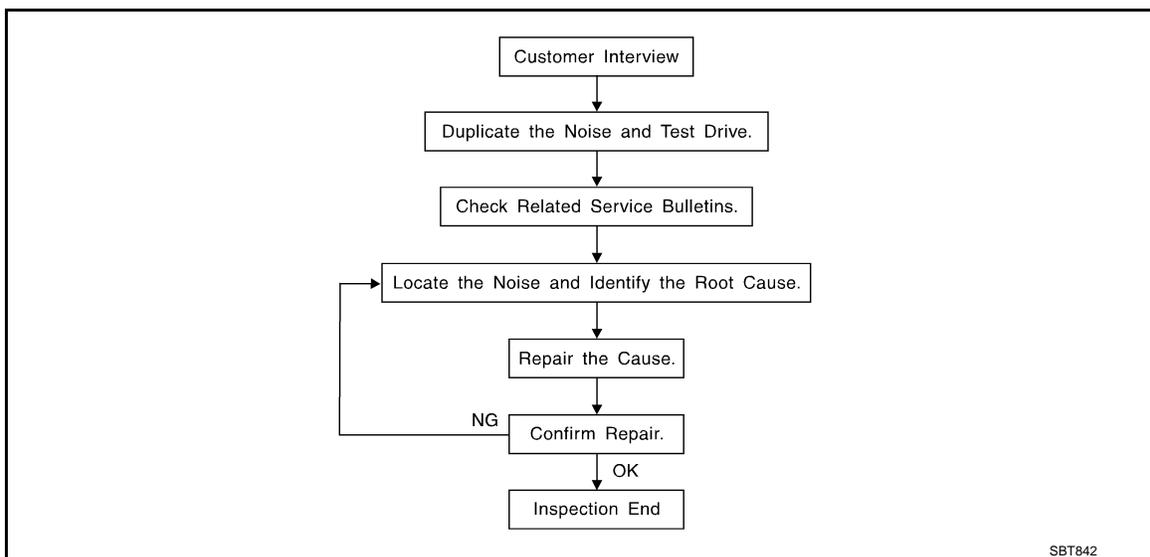
< SYMPTOM DIAGNOSIS >

[TYPE 3]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000010708411



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-730, "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 >

[TYPE 3]

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-728. "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 >

[TYPE 3]

INFOID:000000010708412

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 >

[TYPE 3]

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 >

[TYPE 3]

Diagnostic Worksheet

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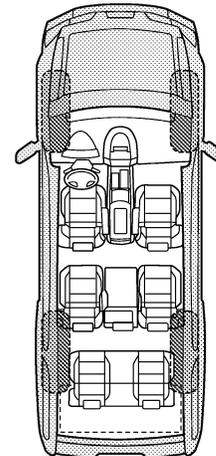
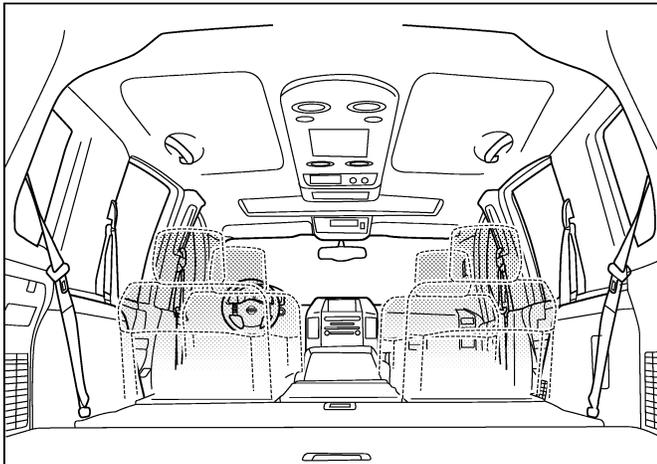
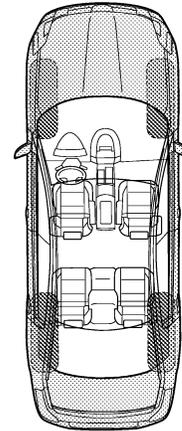
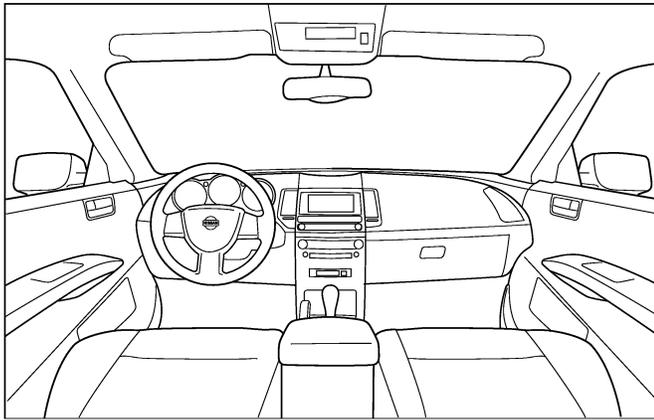
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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 >

[TYPE 3]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| <input type="checkbox"/> anytime | <input type="checkbox"/> after sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> when it is raining or wet |
| <input type="checkbox"/> only when it is cold outside | <input type="checkbox"/> dry or dusty conditions |
| <input type="checkbox"/> only when it is hot outside | <input type="checkbox"/> other: |

III. WHEN DRIVING:

- through driveways
- over rough roads
- over speed bumps
- only about ____ mph
- on acceleration
- coming to a stop
- on turns: left, right or either (circle)
- with passengers or cargo
- other: _____
- after driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- squeak (like tennis shoes on a clean floor)
- creak (like walking on an old wooden floor)
- rattle (like shaking a baby rattle)
- knock (like a knock at the door)
- tick (like a clock second hand)
- thump (heavy, muffled knock noise)
- buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise verified on test drive	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise source located and repaired	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Follow up test drive performed to confirm repair	<input type="checkbox"/>	<input type="checkbox"/>	_____

VIN: _____ Customer Name: _____
W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

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DLK

HOOD

< REMOVAL AND INSTALLATION >

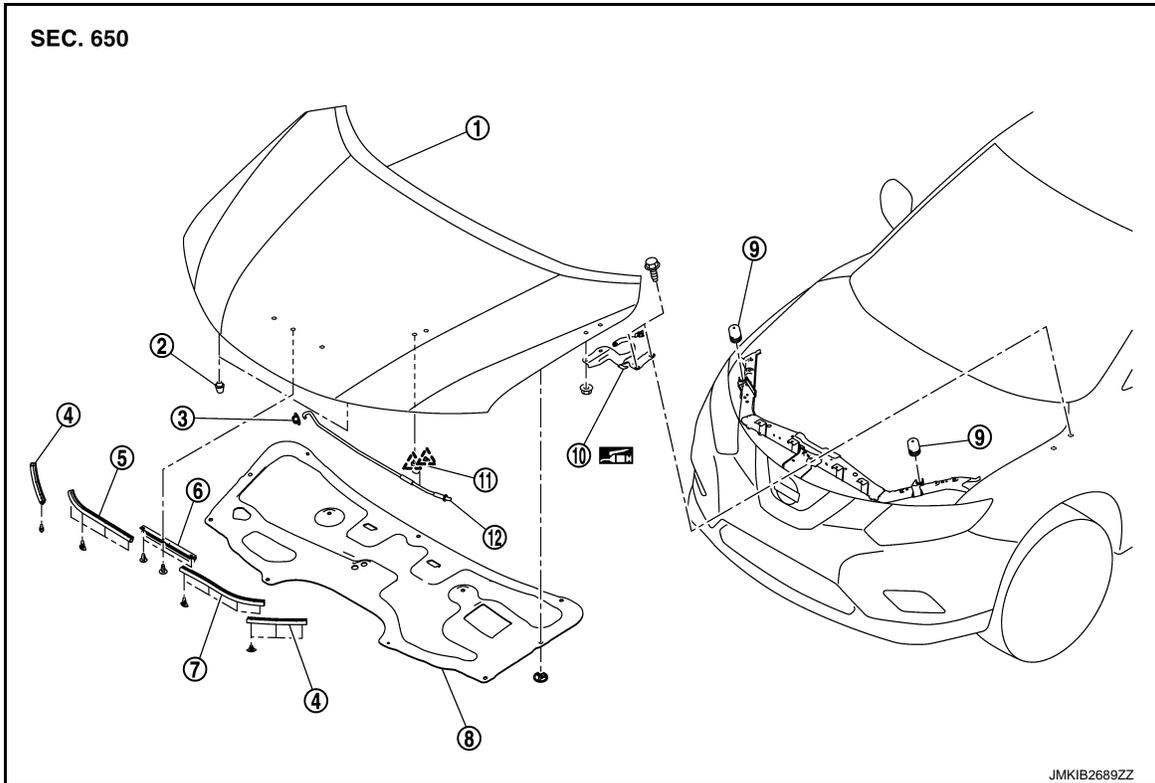
[TYPE 3]

REMOVAL AND INSTALLATION

HOOD

Exploded View

INFOID:000000010728539



- | | | |
|-------------------------|-------------------------|----------------------|
| ① Hood assembly | ② Bumper rubber | ③ Hood rod grommet |
| ④ Radiator core seal | ⑤ Radiator core seal RH | ⑥ Radiator core seal |
| ⑦ Radiator core seal LH | ⑧ Hood insulator | ⑨ Hood bumper rubber |
| ⑩ Hood hinge | ⑪ Hood rod clamp | ⑫ Hood support rod |

 : Pawl

 : Body grease

HOOD ASSEMBLY

HOOD ASSEMBLY : Removal and Installation

INFOID:000000010728540

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- Use protective tape or shop cloth to protect from damage during removal and installation.

REMOVAL

1. Support hood assembly with the proper material to prevent it from falling.

WARNING:

Injury may occur if hood assembly is not supported with appropriate material when removing hood assembly.

2. Remove hood assembly mounting nuts, and then remove hood assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

HOOD

[TYPE 3]

< REMOVAL AND INSTALLATION >

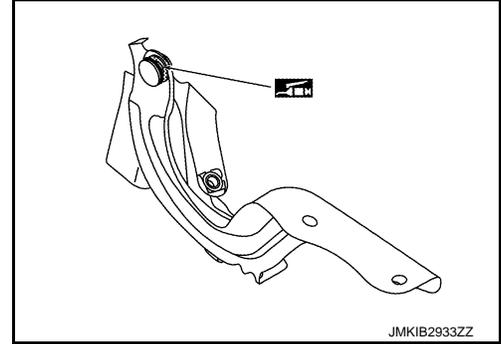
- Before installation of hood, apply anticorrosive agent onto the mounting surface of the hood hinge.
- After installing, perform hood fitting adjustment. Refer to [DLK-733, "HOOD ASSEMBLY : Adjustment"](#).
- Apply touch-up paint to the body color if the paint around the hinge is peeled off during removal.
- After installation, check that hood opens and closes normally. Refer to [DLK-733, "HOOD ASSEMBLY : Inspection"](#).

HOOD ASSEMBLY : Inspection

INFOID:000000010728541

1. Open and close the hood. Check that hood hinge rotation portion moves smoothly.
2. Check hood hinge rotating part for poor lubrication. If necessary, apply grease.

 : Body grease



INFOID:000000010728542

HOOD ASSEMBLY : Adjustment

FITTING ADJUSTMENT

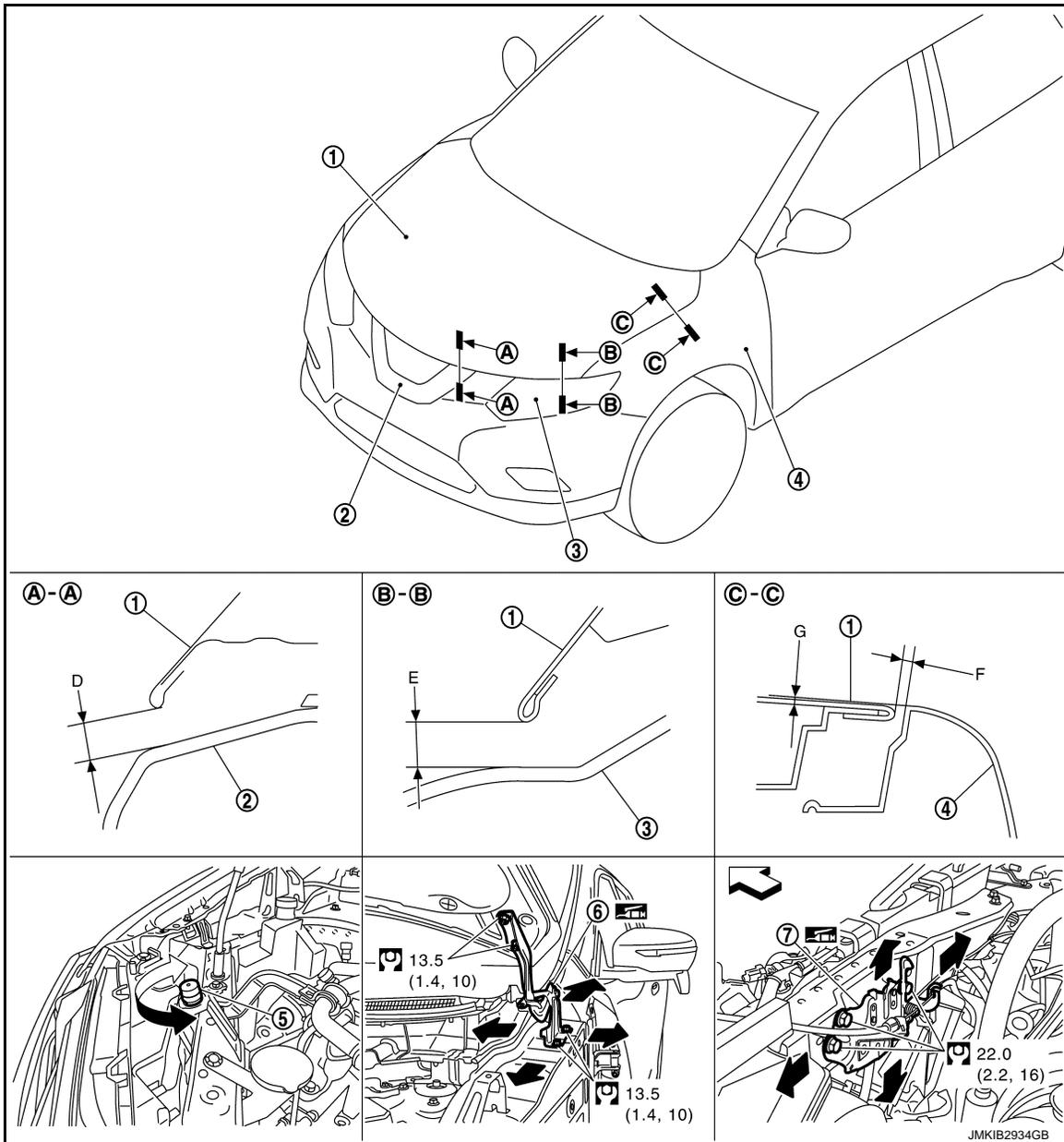
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HOOD

< REMOVAL AND INSTALLATION >

[TYPE 3]



- ① Hood assembly
- ② Front grille
- ③ Front combination lamp
- ④ Front fender
- ⑤ Hood bumper rubber
- ⑥ Hood hinge
- ⑦ Hood lock assembly

← : Vehicle front

: N·m (kg-m, ft-lb)

: Body grease

Fitting Adjustment Standard

Check the clearance and the surface height between hood and each part by visually and touching.

If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

HOOD

< REMOVAL AND INSTALLATION >

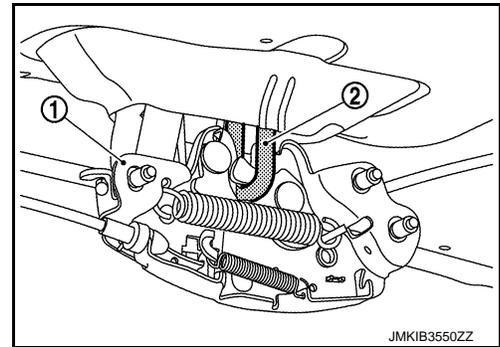
[TYPE 3]

Unit: mm [in]

Portion			Standard	Difference (RH/LH, MAX)
Hood – Front grille	Ⓐ – Ⓐ	D	7.2 – 11.2 [0.283 – 0.441]	—
Hood – Front combination lamp	Ⓑ – Ⓑ	E	7.0 – 11.0 [0.276 – 0.433]	—
Hood – Front fender	Ⓒ – Ⓒ	F	2.5 – 4.5 [0.098 – 0.177]	< 1.4 [0.055]
		G	(-1.0) – (+1.0) [(-0.039) – (+0.039)]	< 1.4 [0.055]

Fitting Adjustment Procedure

1. Remove hood lock assembly mounting bolts, and then remove hood lock assembly.
2. Adjust the surface height of hood assembly according to the specified value by rotating hood bumper rubber.
3. Loosen hood hinge mounting bolts, and then adjust clearance of hood according to the specified value by moving the hood assembly.
4. Tighten hood hinge mounting bolts to the specified torque.
5. Install hood lock assembly and temporarily tighten hood lock assembly mounting bolts, and then position hood lock assembly ① and engage primary striker ②. Check hood lock assembly and primary striker for looseness.



6. Move hood lock assembly laterally until the center of primary striker and hood lock assembly are vertical when viewed from the front.
7. Tighten hood lock assembly mounting bolts to the specified torque.
8. After adjusting, check that hood opens and closes normally. Refer to [DLK-769. "HOOD LOCK : Inspection"](#).

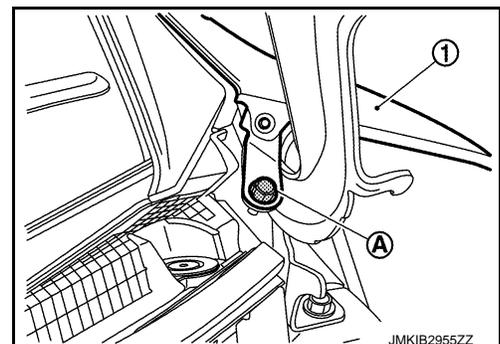
HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:0000000010728543

REMOVAL

1. Remove hood assembly. Refer to [DLK-732. "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove upper mounting bolt Ⓐ of front fender assembly ①.



HOOD

[TYPE 3]

< REMOVAL AND INSTALLATION >

3. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the hood hinge.
- After installation, perform hood fitting adjustment. Refer to [DLK-733, "HOOD ASSEMBLY : Adjustment"](#).
- Apply touch-up paint to the body color if the paint around the hinge is peeled off during removal.
- After installation, check that hood opens and closes normally. Refer to [DLK-733, "HOOD ASSEMBLY : Inspection"](#).

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000010728544

CAUTION:

2 workers are required to support the hood.

REMOVAL

1. Support hood assembly with a suitable material to prevent it from falling.

WARNING:

Injury may occur if hood assembly is not supported by the proper material when removing hood assembly.

2. Pull hood support rod from grommet and remove it.

INSTALLATION

Install in the reverse order of removal.

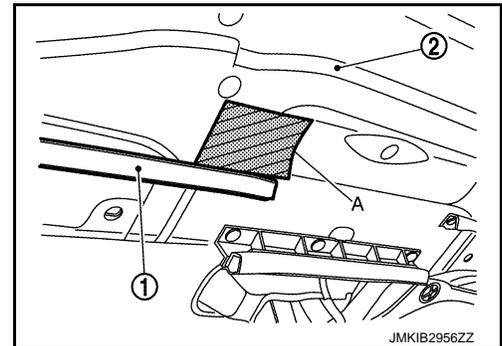
RADIATOR CORE SEAL

RADIATOR CORE SEAL : Removal and Installation

INFOID:000000010728545

REMOVAL

1. Apply protective tape (A) to hood assembly ② around radiator core seal ① fixing clips for preventing damage.

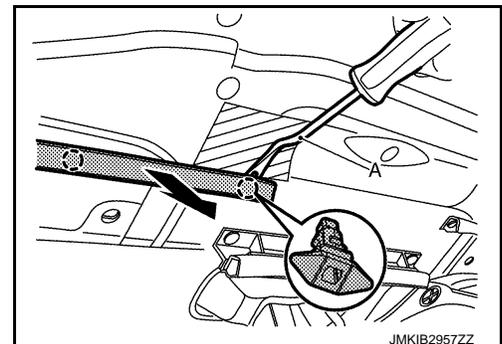


2. Disengage fixing clips on the reverse side of radiator core seal using a remover tool (A).

CAUTION:

Never damage hood assembly.

○ : Clip



3. Remove radiator core seal from hood assembly.

INSTALLATION

HOOD

[TYPE 3]

< REMOVAL AND INSTALLATION >

Install in the reverse order of removal.

HOOD INSULATOR

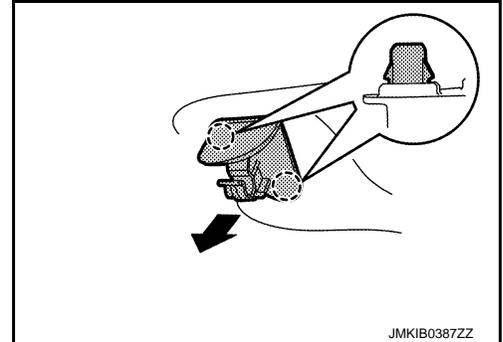
HOOD INSULATOR : Removal and Installation

INFOID:000000010728546

REMOVAL

1. Remove hood rod clamp from hood assembly.

 : Clip



2. Remove hood insulator fixing clips, and then remove hood insulator from hood assembly.

INSTALLATION

Install in the reverse order of removal.

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RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

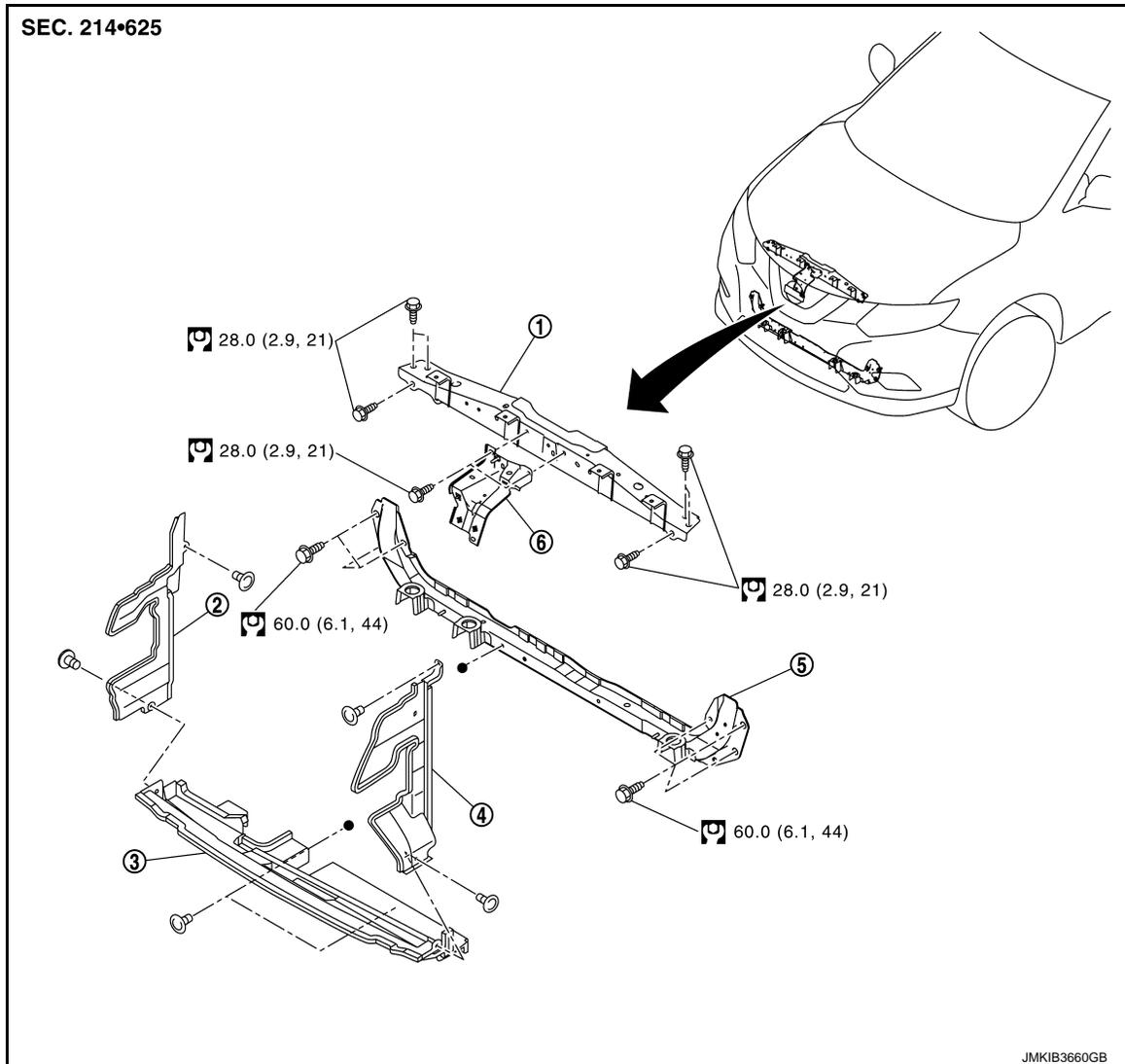
[TYPE 3]

RADIATOR CORE SUPPORT

R9M

R9M : Exploded View

INFOID:000000010728547



- | | | |
|-------------------------------|-------------------------------|--------------------------|
| ① Radiator core support upper | ② Air guide RH | ③ Air lower guide |
| ④ Air guide LH | ⑤ Radiator core support lower | ⑥ Hood lock support stay |

 : N·m (kg·m, ft·lb)

●: Indicates that the part is connected at points with same symbol in actual vehicle.

R9M : Removal and Installation

INFOID:000000010728548

RADIATOR CORE SUPPORT UPPER

Removal

1. Remove air duct 1. Refer to [EM-308. "Removal and Installation"](#).
2. Remove front grille assembly. Refer to [EXT-22. "Removal and Installation"](#).
3. Remove hood lock assembly. Refer to [DLK-768. "HOOD LOCK : Removal and Installation"](#).
4. Remove hood lock control cable fixing clips from radiator core support upper. Refer to [DLK-768. "Exploded View"](#).

DLK-738

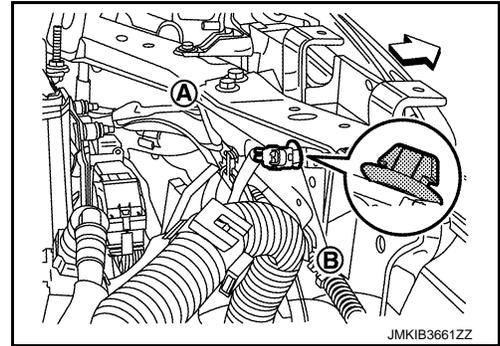
RADIATOR CORE SUPPORT

[TYPE 3]

< REMOVAL AND INSTALLATION >

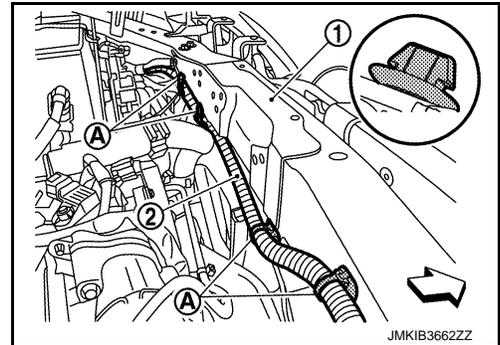
5. Remove fixing clip ② of engine room harness connector ①.

⇐ : Vehicle front



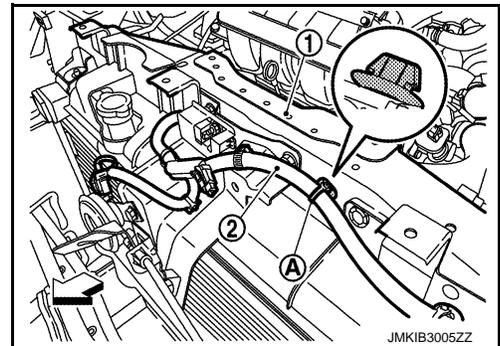
6. Remove fixing clips ① of engine room harness ② from radiator core support upper ③.

⇐ : Vehicle front



7. Remove fixing clip ① of engine room harness ② from radiator core support upper ③.

⇐ : Vehicle front



8. Remove crash zone sensor. Refer to [SR-31. "Removal and Installation"](#).
9. Remove hood lock support stay mounting bolts, and then move hood lock support stay to a location where it does not inhibit work.
10. Remove radiator mounting bracket fixing clips. Refer to [CO-70. "Exploded View"](#).
11. Remove radiator core support upper mounting bolts, and then remove radiator core support upper.

Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

Removal

1. Remove front bumper fascia and apron bracket. Refer to [EXT-15. "Removal and Installation"](#).
2. Remove air lower guide fixing clips, and then remove air lower guide.

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RADIATOR CORE SUPPORT

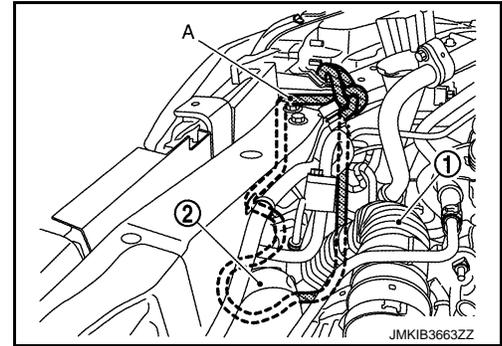
[TYPE 3]

< REMOVAL AND INSTALLATION >

- Using strings (A), hang inlet hose ① and inlet hose ② together with charge air cooler.

CAUTION:

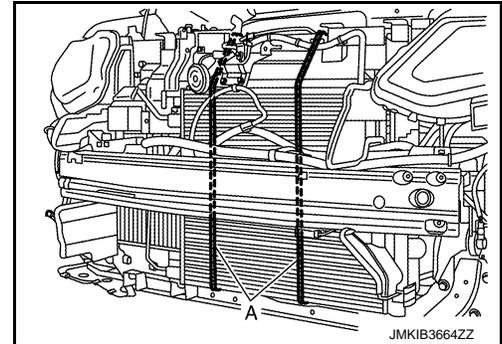
Never damage inlet hoses and charge air cooler.



- Use belts (A) to suspend radiator and condenser to prevent them from falling as shown in the figure.

CAUTION:

Never damage radiator and condenser.



- Remove radiator core support lower mounting bolts, and then remove radiator core support lower.

Installation

Install in the reverse order of removal.

FRONT FENDER

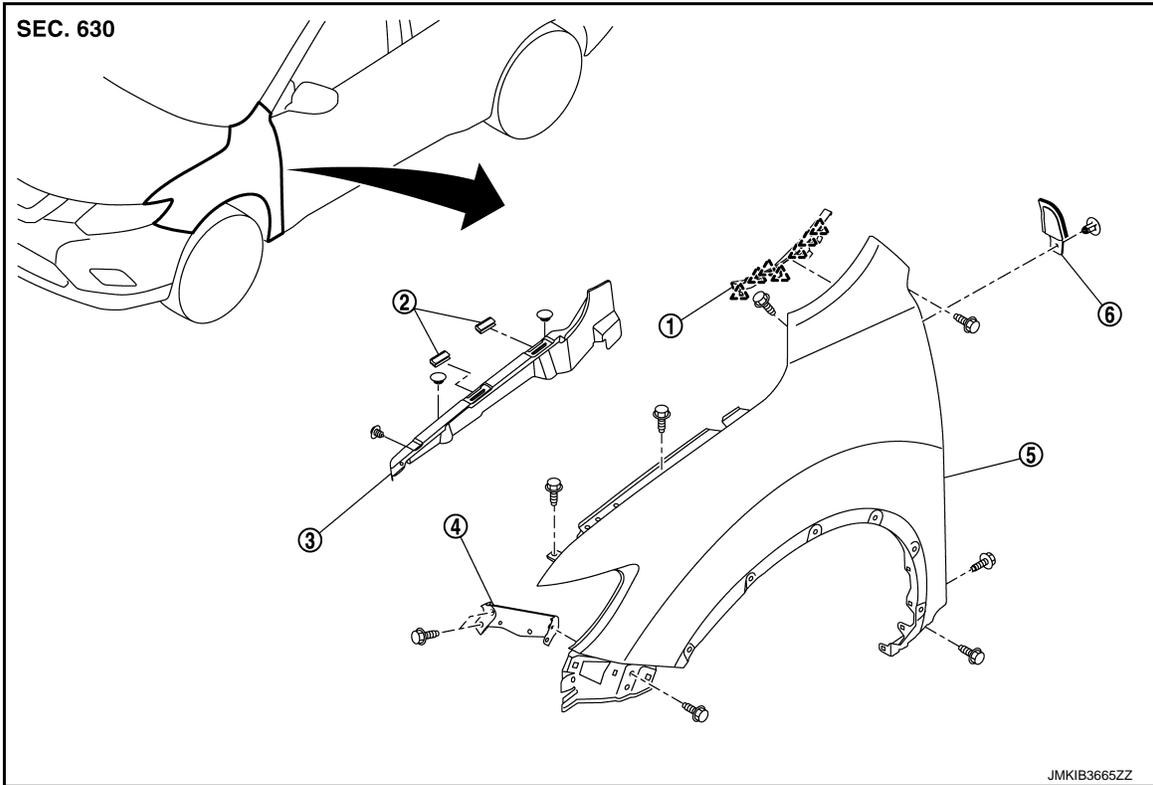
< REMOVAL AND INSTALLATION >

[TYPE 3]

FRONT FENDER

Exploded View

INFOID:000000010728549



- ① Front fender cover
- ④ Front fender bracket

- ② Front fender spacer
- ⑤ Front fender assembly

- ③ Front hood seal
- ⑥ Front fender seal

 : Pawl

FRONT FENDER

FRONT FENDER : Removal and Installation

INFOID:000000010728550

REMOVAL

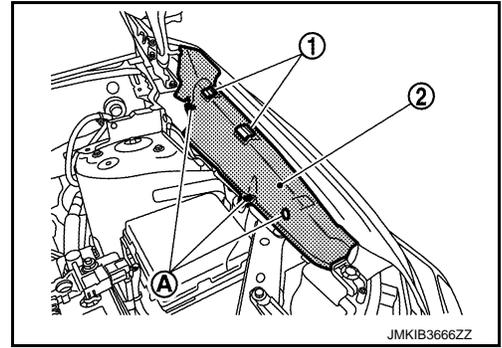
1. Remove front fender protector. Refer to [EXT-35, "FENDER PROTECTOR : Removal and Installation"](#).
2. Remove sill cover. Refer to [EXT-62, "Removal and Installation"](#).
3. Remove front bumper fascia assembly and bumper side bracket. Refer to [EXT-15, "Removal and Installation"](#).
4. Remove front combination lamp. Refer to [EXL-191, "Removal and Installation"](#) (LED headlamp), [EXL-376, "Removal and Installation"](#) (halogen headlamp).
5. Remove front fender cover. Refer to [DLK-742, "FENDER COVER : Removal and Installation"](#).

FRONT FENDER

[TYPE 3]

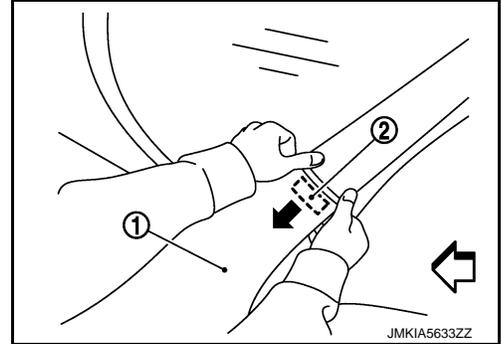
< REMOVAL AND INSTALLATION >

6. Remove front hood seal fixing clips (A) and front fender spacers (1), and then remove front hood seal (2).



7. Remove mounting bolts of front fender assembly.
8. Remove front fender stiffener (2) from the vehicle body while carefully pulling upper portion of front fender (1) toward vehicle outside.

⇐ : Vehicle front



9. Remove front fender assembly.

CAUTION:

A viscous urethane foam is installed on the back surface of front fender. When removing the front fender, be careful to not deform the front fender while performing the procedure and removing the viscous urethane foam a little at a time.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- After installation, adjust the following part.
- Hood assembly: Refer to [DLK-733, "HOOD ASSEMBLY : Adjustment"](#).
- Front door: Refer to [DLK-746, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.

FENDER COVER

FENDER COVER : Removal and Installation

INFOID:000000010728551

REMOVAL

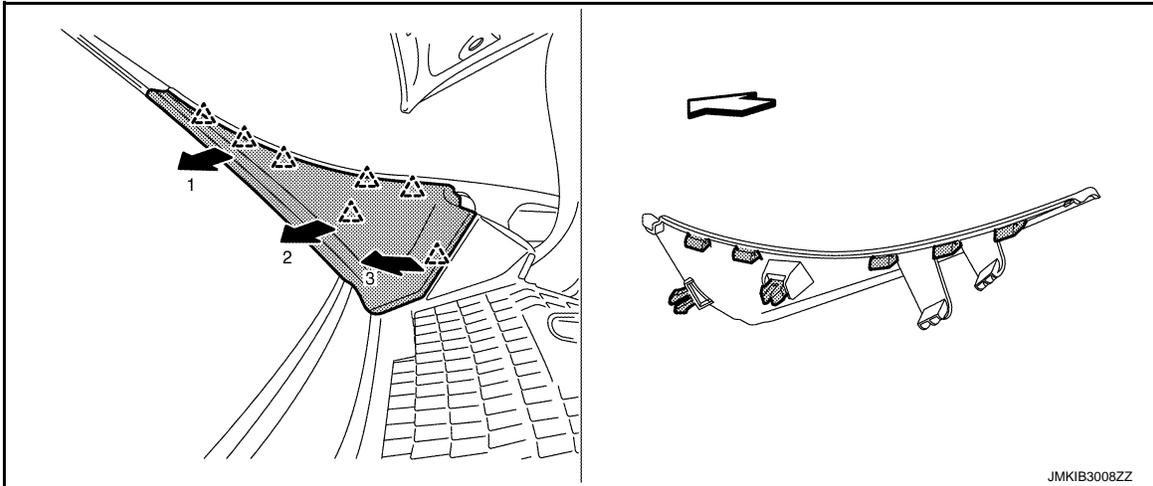
1. Fully open hood assembly.

FRONT FENDER

< REMOVAL AND INSTALLATION >

[TYPE 3]

2. Disengage fixing pawls according to the numerical order 1→3 indicated by arrows as shown in the figure, and then remove front fender cover.



- △ : Pawl
⇐ : Vehicle front

CAUTION:

When performing the procedure after removing fender cover, protect the lower of windshield glass with urethane etc.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

Install so that there is no clearance between windshield and cowl top cover.

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FRONT DOOR

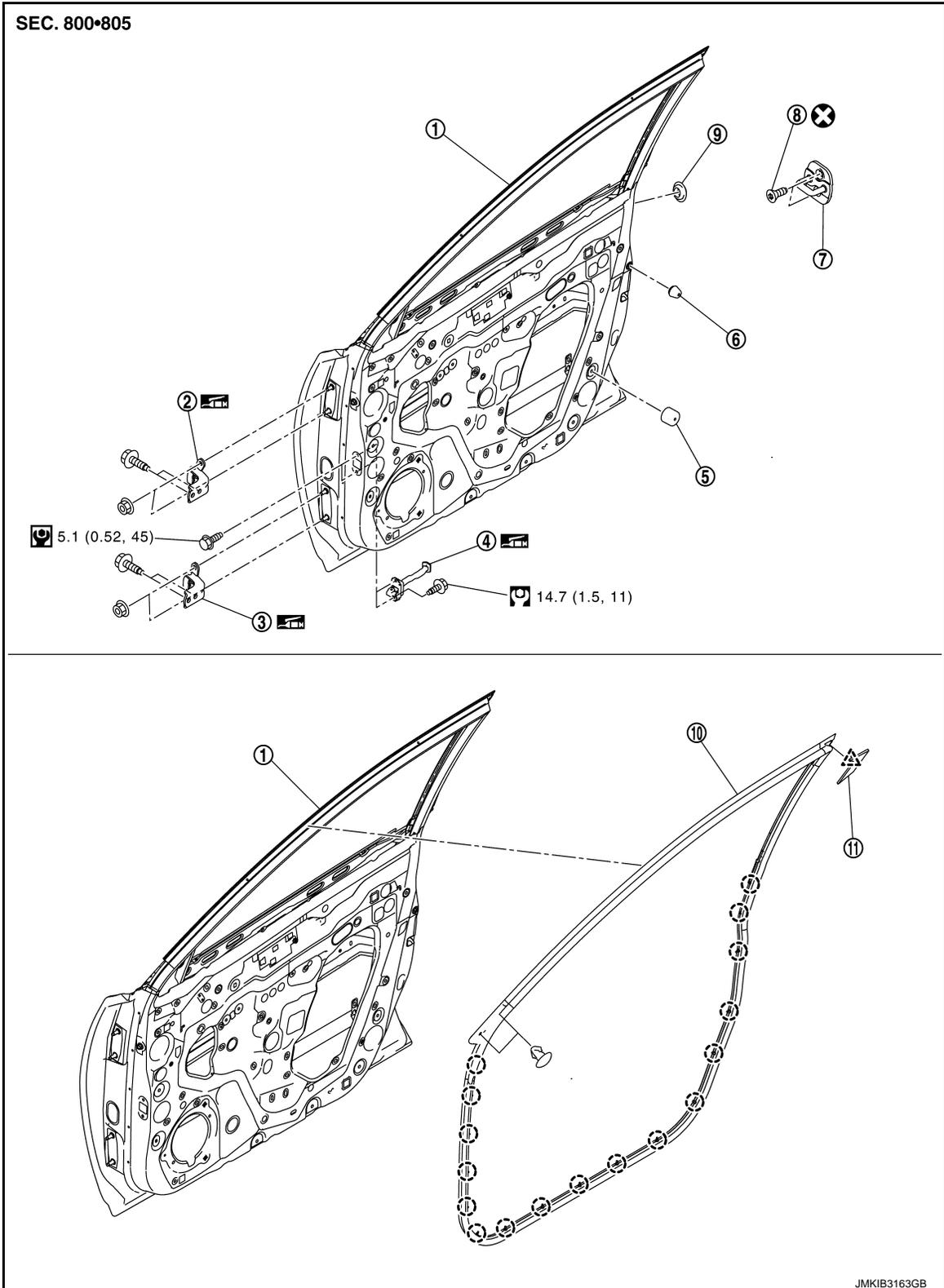
< REMOVAL AND INSTALLATION >

[TYPE 3]

FRONT DOOR

Exploded View

INFOID:000000010728552



① Front door panel

② Door hinge (upper)

③ Door hinge (lower)

④ Door check link

⑤ Bumper rubber

⑥ Bumper rubber

DLK-744

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 3]

- | | | |
|----------------------------|---------------------------------|-----------|
| ⑦ Door striker | ⑧ TORX bolt | ⑨ Grommet |
| ⑩ Front door weather-strip | ⑪ Front door weather-strip clip | |
- : Clip
△ : Pawl
⊗ : Always replace after every disassembly.
Ⓜ : N·m (kg-m, in-lb)
Ⓜ : N·m (kg-m, ft-lb)
🛢 : Body grease

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

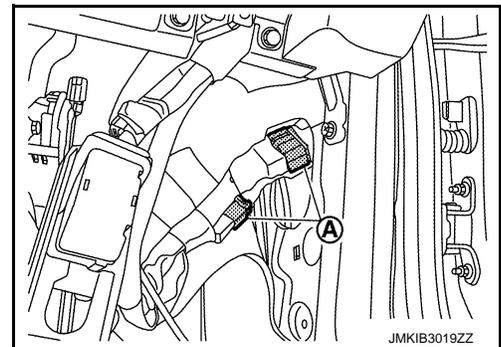
INFOID:000000010728553

CAUTION:

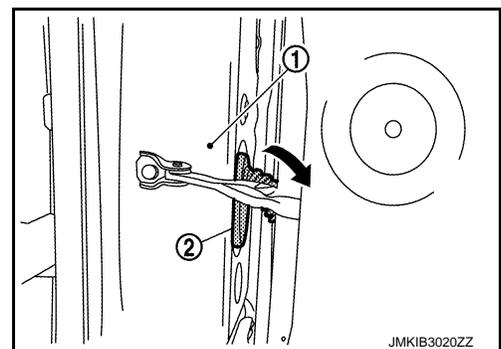
- Perform work with 2 workers, because of its heavy weight.
- When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

1. Remove dash side finisher. Refer to [INT-26. "DASH SIDE FINISHER : Removal and Installation"](#).
2. Remove SMJ (super multiple junction).
3. Disconnect front door harness connectors (A).



4. Remove front door harness grommet (2) from vehicle body (1), and then pull out front door harness from vehicle body.



5. Remove mounting bolt of door check link on vehicle body.
6. Remove door hinge mounting nuts of door side, and then remove front door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-746. "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

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FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 3]

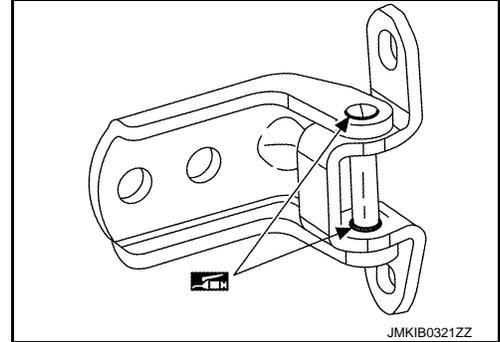
- After installation, check that door opens and closes normally. Refer to [DLK-746. "DOOR ASSEMBLY : Inspection"](#).

DOOR ASSEMBLY : Inspection

INFOID:000000010728554

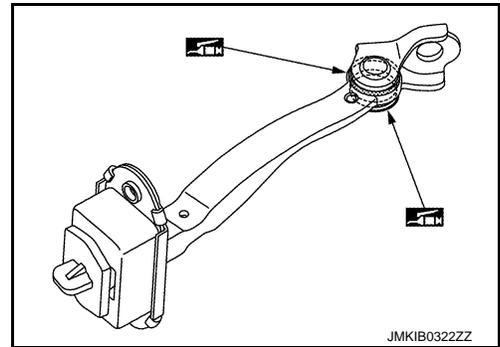
1. Open and close the door. Check that door hinge and check link rotation portion moves smoothly.
2. Check door hinge rotating part for poor lubrication. Apply body grease if necessary.

 : Body grease



3. Check door check link rotating part for poor lubrication. Apply body grease if necessary.

 : Body grease



DOOR ASSEMBLY : Adjustment

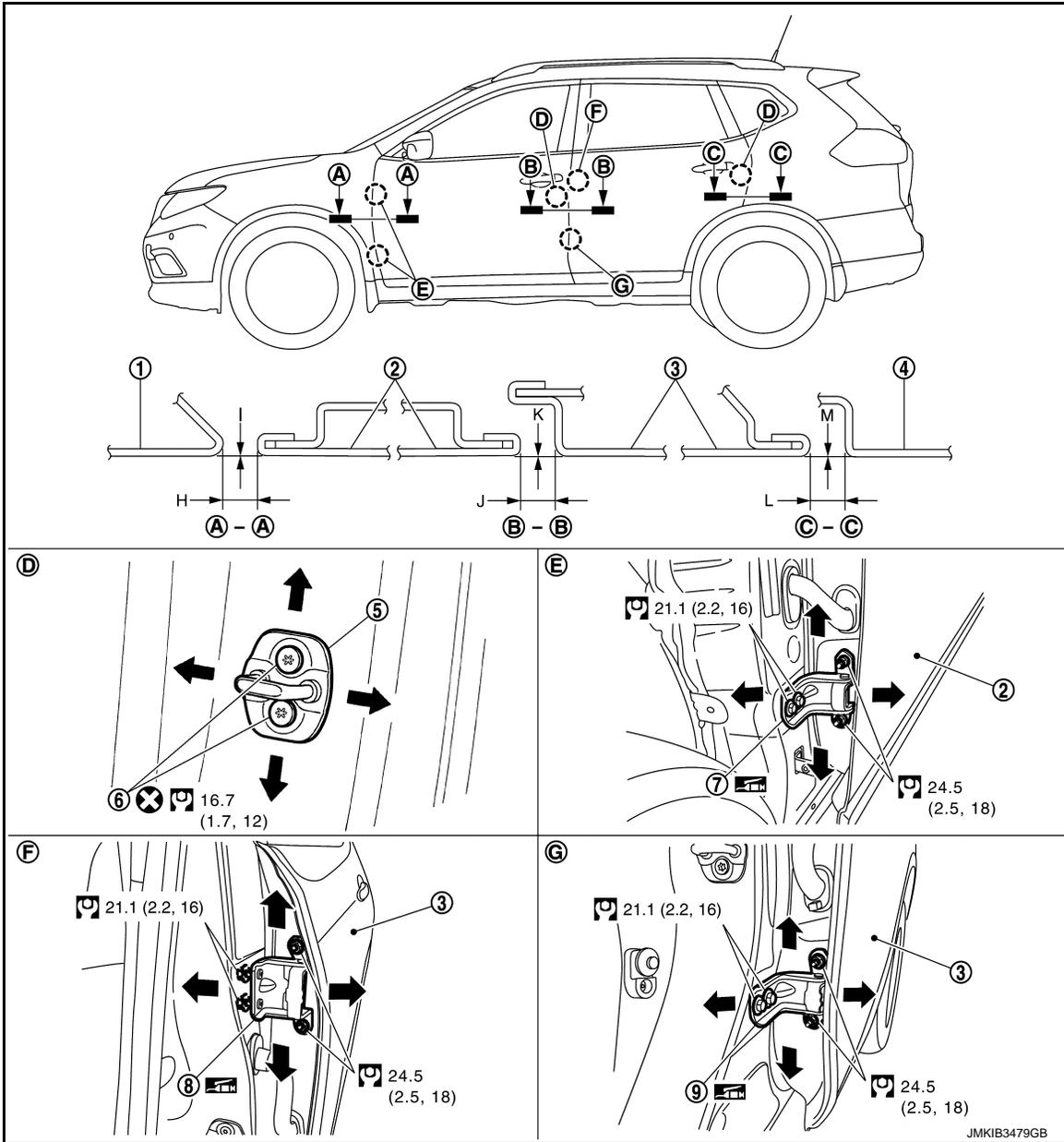
INFOID:000000010728555

FITTING ADJUSTMENT

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 3]



- ① Front fender
- ② Front door
- ③ Rear door
- ④ Body side outer
- ⑤ Door striker
- ⑥ TORX bolt
- ⑦ Front door hinge
- ⑧ Rear door hinge (upper)
- ⑨ Rear door hinge (lower)

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, ft·lb)

Ⓜ : Body grease

Fitting Adjustment Standard

Check the clearance and surface height between front door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

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JMKIB3479GB

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 3]

Unit: mm [in]

Portion				Standard
Front fender – Front door	Ⓐ – Ⓐ	H	Clearance	3.0 – 5.0 [0.118 – 0.197]
		I	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]
Front door – Rear door	Ⓑ – Ⓑ	J	Clearance	3.3 – 5.3 [0.130 – 0.209]
		K	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]

Fitting Adjustment Procedure

1. Remove front fender assembly. Refer to [DLK-741, "FRONT FENDER : Removal and Installation"](#).
2. Loosen door hinge mounting nuts of door side.
3. Adjust the surface height of front door according to the fitting standard dimension.
4. Temporarily tighten door hinge mounting nuts on door side.
5. Loosen door hinge mounting bolts of vehicle body side.
6. Raise front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
7. After adjustment, tighten bolts and nuts to the specified torque.
CAUTION:
After installation, apply touch-up paint (the body color) onto the head of hinge mounting bolts and nuts.
8. Install front fender assembly. Refer to refer to [DLK-741, "FRONT FENDER : Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:000000010728556

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- After installation, perform the fitting adjustment. Refer to [DLK-746, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, check that door opens and closes normally. Refer to [DLK-746, "DOOR ASSEMBLY : Inspection"](#).

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:000000010728557

REMOVAL

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
 - When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.
1. Remove front door assembly. Refer to [DLK-745, "DOOR ASSEMBLY : Removal and Installation"](#).
 2. Remove front fender assembly. Refer to [DLK-741, "FRONT FENDER : Removal and Installation"](#).
 3. Remove front door hinge mounting bolts of vehicle body side, and then remove front door hinge.

INSTALLATION

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 3]

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-746, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts.
- After installation, check that door opens and closes normally. Refer to [DLK-746, "DOOR ASSEMBLY : Inspection"](#).

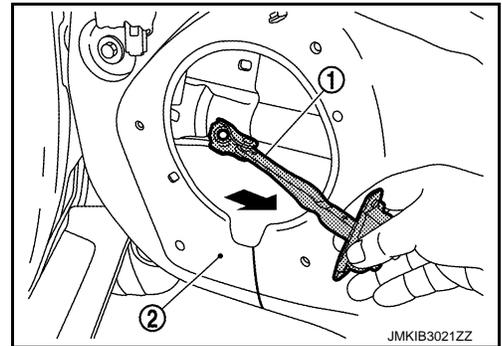
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000010728558

REMOVAL

1. Fully close front door glass.
2. Remove front door finisher. Refer to [INT-14, "Removal and Installation"](#).
3. Disconnect harness connector of front door speaker.
4. Remove mounting bolts of front door speaker, and then remove front door speaker.
5. Remove door check link mounting bolt of vehicle body side.
6. Remove door check link mounting bolts of door panel, and then take door check link ① out from the hole of door panel ②.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check that door opens and closes normally. Refer to [DLK-746, "DOOR ASSEMBLY : Inspection"](#).

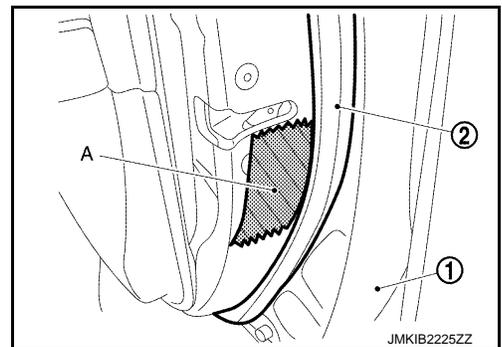
DOOR WEATHER-STRIP

DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000010728559

REMOVAL

1. Apply protective tape (A) to front door panel ① around front door weather-strip ② fixing clips for preventing damage.



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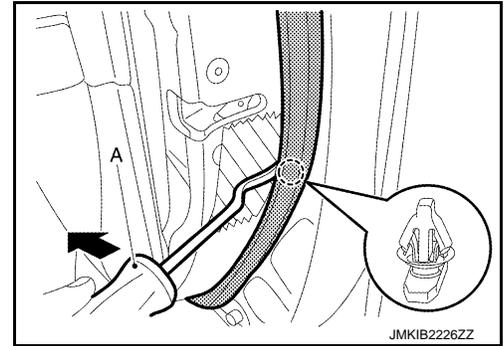
FRONT DOOR

[TYPE 3]

< REMOVAL AND INSTALLATION >

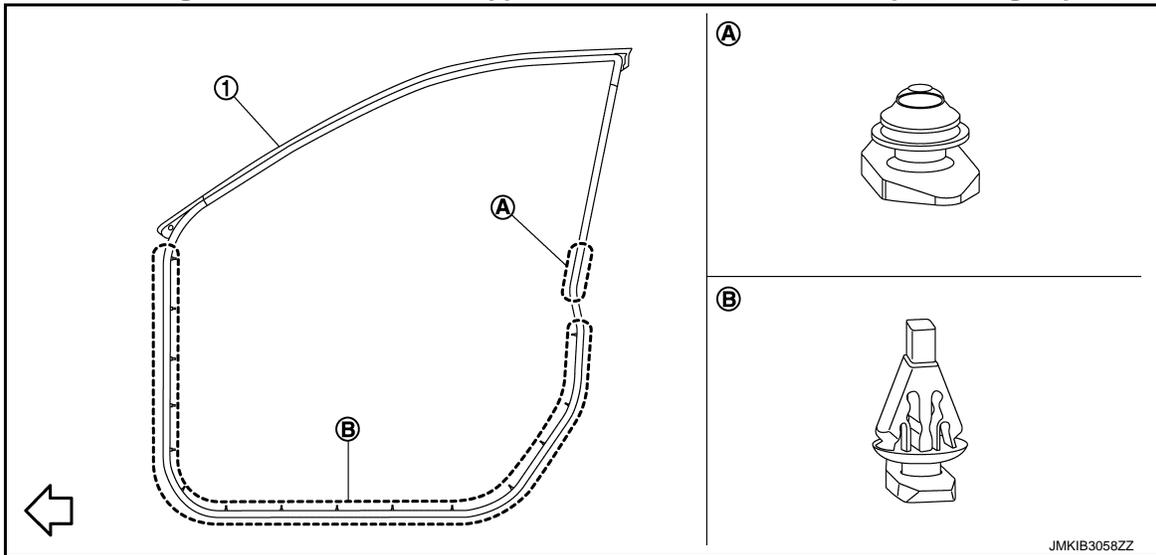
- Disengage fixing clips on the reverse side of front door weather-strip using a remover tool (A).

 : Clip



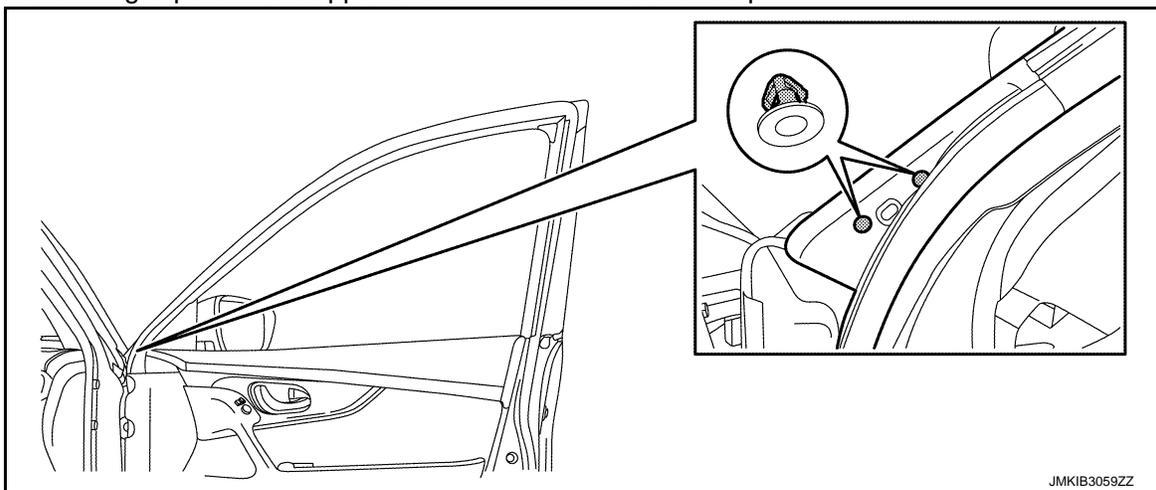
CAUTION:

- Never damage front door panel.
- When removing, never confuse the 2 types of front door weather-strip ① fixing clips (A) and (B).



 : Vehicle front

- Remove fixing clips on front upper end of front door weather-strip.

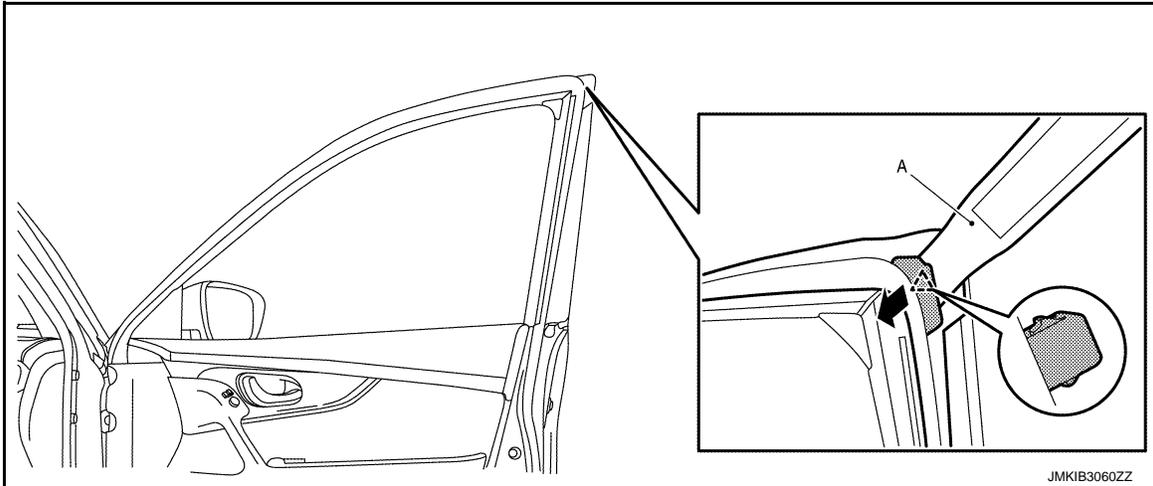


FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 3]

4. Disengage fixing pawl on rear upper end of front door weather-strip using a remover tool (A), and then remove weather-strip clip.



 : Pawl

5. Remove door check link mounting bolt of vehicle body side.
6. Remove front door weather-strip from front door panel.

INSTALLATION

Install in the reverse order of removal.

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DLK

REAR DOOR

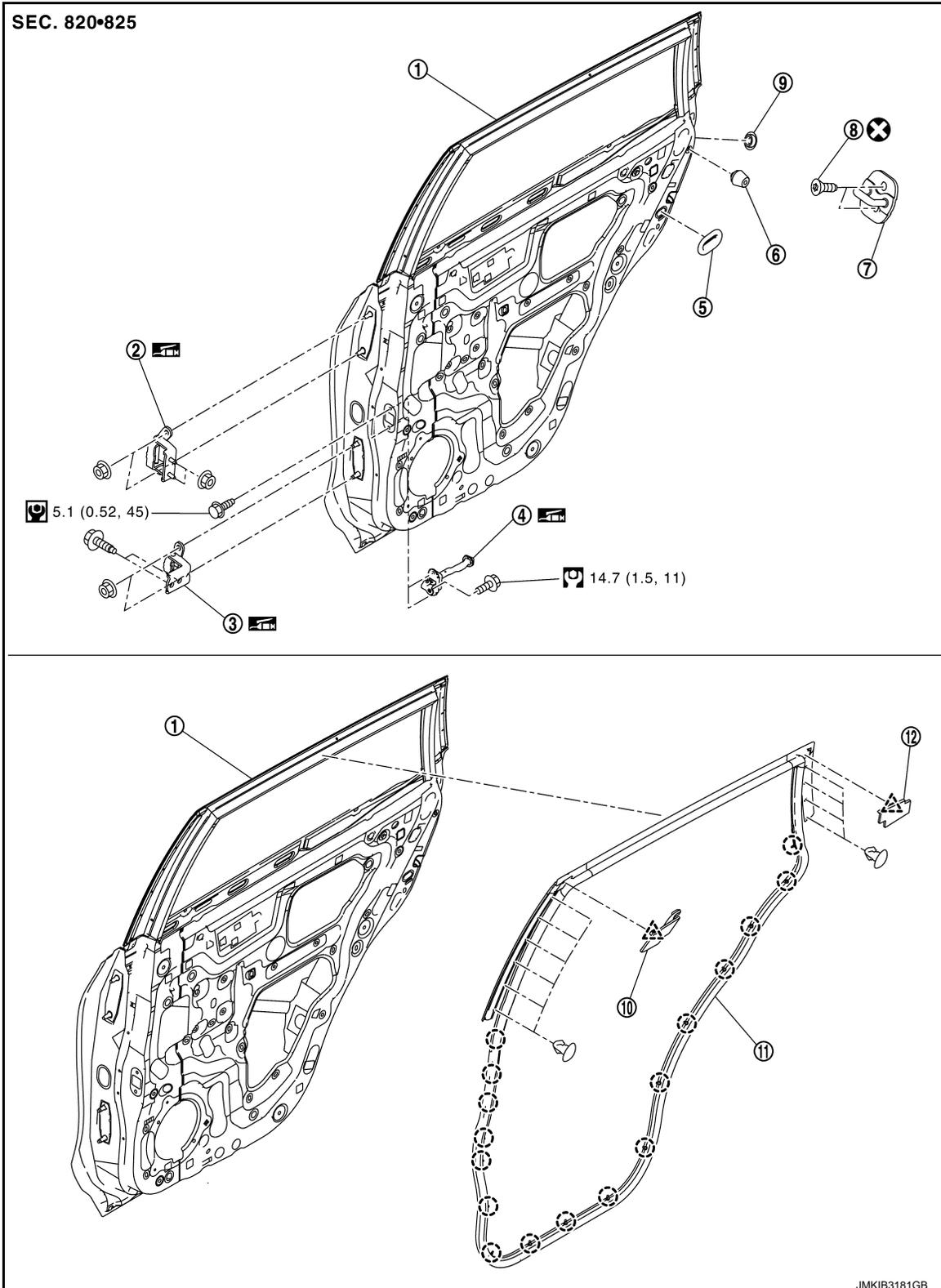
< REMOVAL AND INSTALLATION >

[TYPE 3]

REAR DOOR

Exploded View

INFOID:000000010728560



- | | | |
|-------------------|--------------------------|----------------------|
| ① Rear door panel | ② Door hinge (upper) | ③ Door hinge (lower) |
| ④ Door check link | ⑤ Child lock lever cover | ⑥ Bumper rubber |

DLK-752

REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 3]

- | | | |
|--------------------------------|---------------------------|--------------------------------|
| ⑦ Door striker | ⑧ TORX bolt | ⑨ Grommet |
| ⑩ Rear door weather-strip clip | ⑪ Rear door weather-strip | ⑫ Rear door weather-strip clip |
- : Clip
△ : Pawl
⊗ : Always replace after every disassembly.
Ⓜ : N·m (kg-m, in-lb)
Ⓜ : N·m (kg-m, ft-lb)
Ⓜ : Body grease

A
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C
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DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

INFOID:000000010728561

E

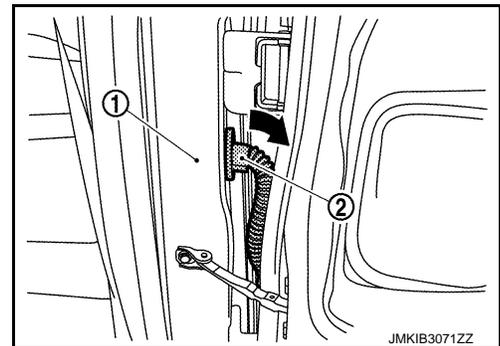
CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

F

REMOVAL

1. Remove rear door harness grommet ② from vehicle body ①, and then pull out rear door harness.



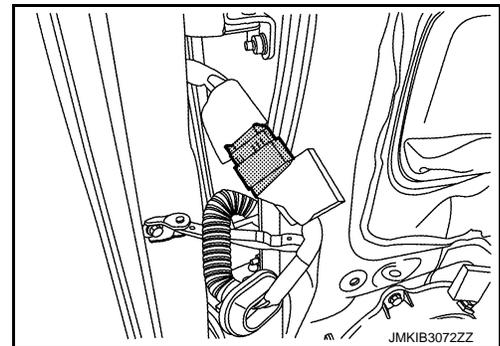
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2. Disconnect rear door harness connector.



DLK

L

M

3. Remove mounting bolt of door check link of vehicle body side.
4. Remove door hinge mounting nuts of door side, and then remove door assembly.

N

O

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-754, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-754, "DOOR ASSEMBLY : Inspection"](#).

P

REAR DOOR

< REMOVAL AND INSTALLATION >

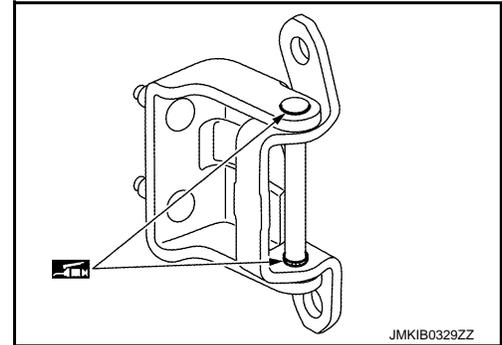
[TYPE 3]

DOOR ASSEMBLY : Inspection

INFOID:000000010728562

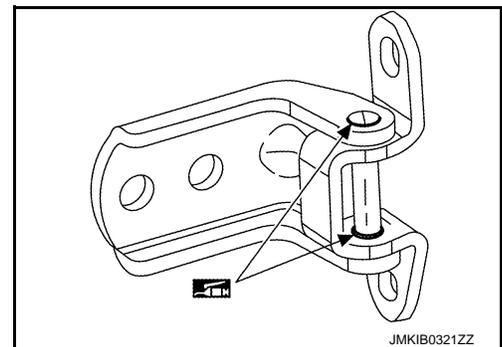
1. Open and close the door. Check that door hinge and check link rotation portion moves smoothly.
2. Check door hinge rotating part for poor lubrication. Apply body grease if necessary.
 - Door hinge (upper)

 : Body grease



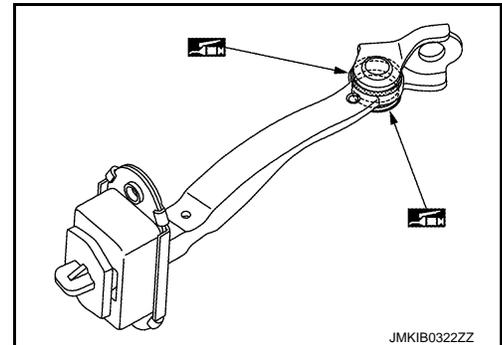
- Door hinge (lower)

 : Body grease



3. Check door check link rotating part for poor lubrication. Apply body grease if necessary.

 : Body grease



DOOR ASSEMBLY : Adjustment

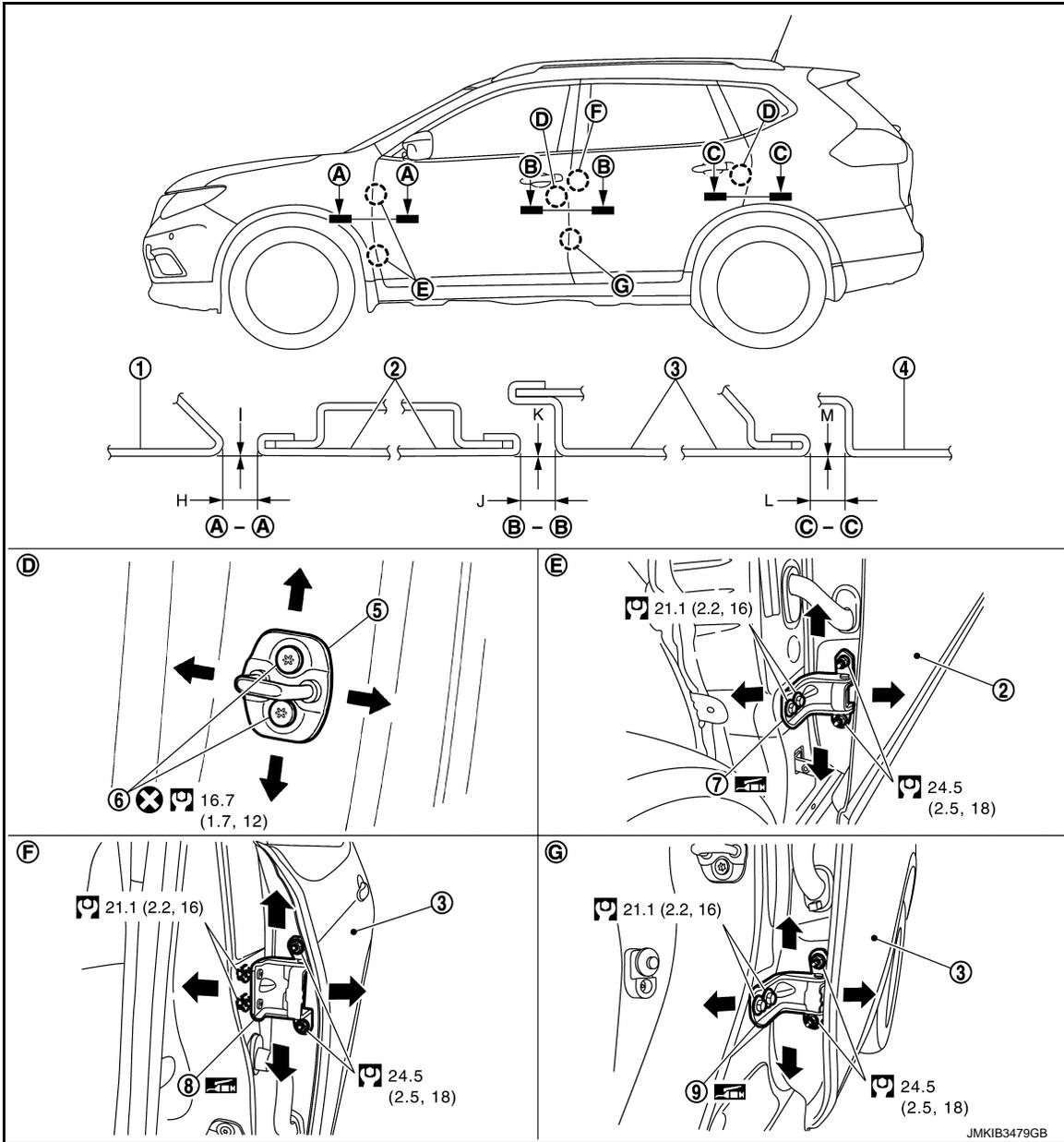
INFOID:000000010728563

FITTING ADJUSTMENT

REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 3]



- | | | |
|--------------------|---------------------------|---------------------------|
| ① Front fender | ② Front door | ③ Rear door |
| ④ Body side outer | ⑤ Door striker | ⑥ TORX bolt |
| ⑦ Front door hinge | ⑧ Rear door hinge (upper) | ⑨ Rear door hinge (lower) |

⊗ : Always replace after every disassembly.

Ⓞ : N·m (kg·m, ft·lb)

Ⓜ : Body grease

Fitting Adjustment Standard

Check the clearance and surface height between rear door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

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REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 3]

Unit: mm [in]

Portion				Standard
Front door – Rear door	Ⓑ – Ⓑ	J	Clearance	3.3 – 5.3 [0.130 – 0.209]
		K	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]
Rear door – Body side outer	Ⓒ – Ⓒ	L	Clearance	3.0 – 5.0 [0.118 – 0.197]
		M	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]

Fitting Adjustment Procedure

1. Remove center pillar lower garnish. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).
2. Loosen door hinge mounting nuts of door side.
3. Adjust the surface height of rear door according to the fitting standard dimension.
4. Temporarily tighten door hinge mounting nuts of door side.
5. Loosen door hinge mounting nuts and bolts of vehicle body side.
6. Raise rear door at rear end to adjust clearance of rear door according to the fitting standard dimension.
7. After adjustment, tighten bolts and nuts to the specified torque.
CAUTION:
After installation, apply touch-up paint (the body color) onto the head of hinge mounting bolts and nuts.
8. Install center pillar lower garnish. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:000000010728564

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- After installation, perform the fitting adjustment. Refer to [DLK-754, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, check that door opens and closes normally. Refer to [DLK-754, "DOOR ASSEMBLY : Inspection"](#).

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:000000010728565

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

1. Remove rear door assembly. Refer to [DLK-753, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove center pillar lower garnish. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).

REAR DOOR

[TYPE 3]

< REMOVAL AND INSTALLATION >

3. Remove rear door hinge mounting bolts and nuts of vehicle body side, and then remove rear door hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-754, "DOOR ASSEMBLY : Adjustment"](#).
- After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-754, "DOOR ASSEMBLY : Inspection"](#).

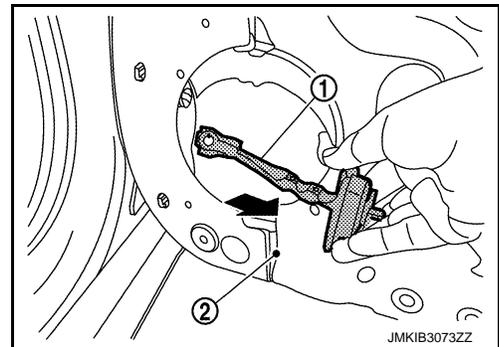
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000010728566

REMOVAL

1. Fully close rear door glass.
2. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
3. Disconnect harness connector of rear door speaker.
4. Remove mounting bolts of rear door speaker, and then remove rear door speaker.
5. Remove door check link mounting bolt of vehicle body side.
6. Remove door check link mounting bolts of door panel, and then take door check link ① out from the hole of door panel ②.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check that door opens and closes normally. Refer to [DLK-754, "DOOR ASSEMBLY : Inspection"](#).

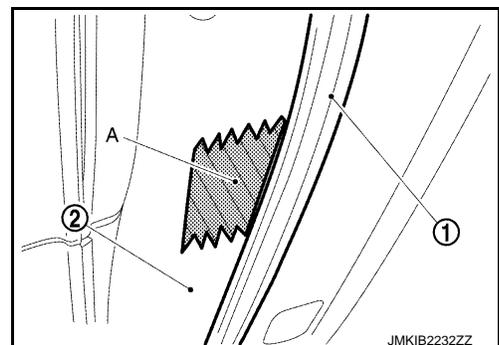
DOOR WEATHER-STRIP

DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000010728567

REMOVAL

1. Apply protective tape (A) to rear door panel ② around rear door weather-strip ① fixing clips for preventing damage.



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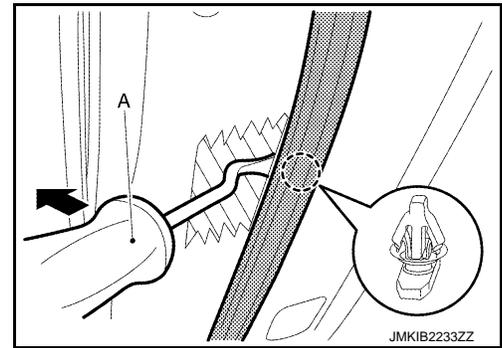
REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 3]

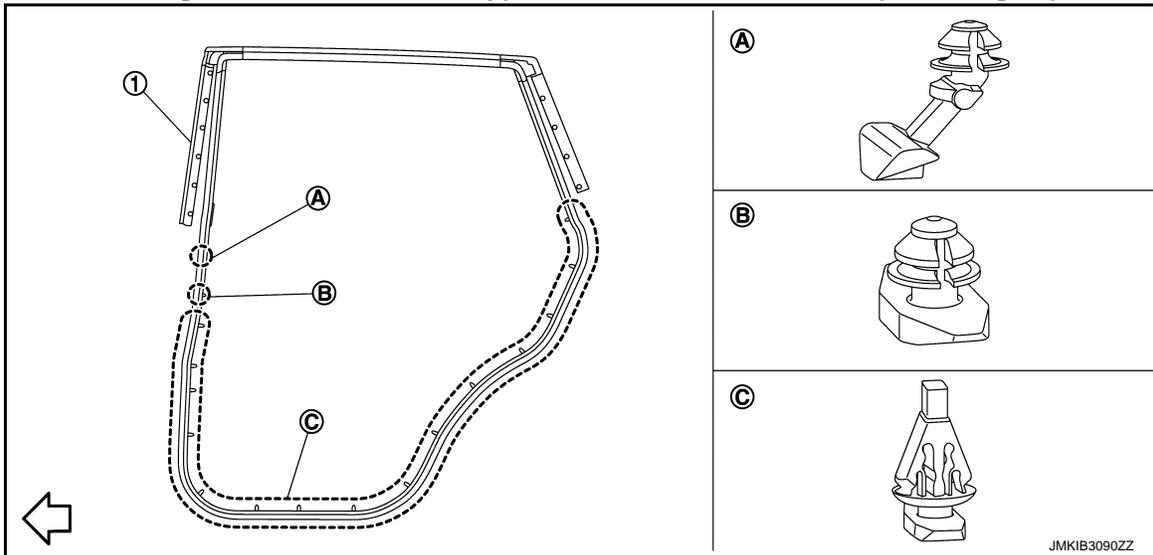
- Disengage fixing clips on the reverse side of rear door weather-strip using a remover tool (A).

 : Clip



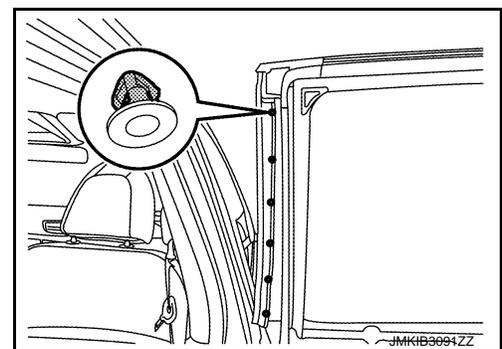
CAUTION:

- Never damage rear door panel.
- When removing, never confuse the 3 types of rear door weather-strip ① fixing clips (A), (B) and (C).



 : Vehicle front

- Remove front fixing clips from weather-strip.

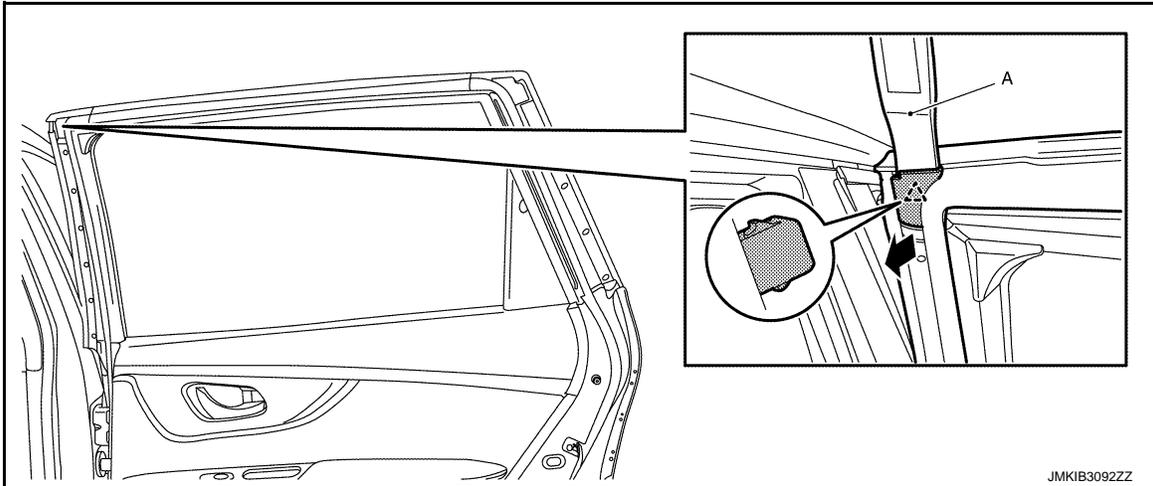


REAR DOOR

< REMOVAL AND INSTALLATION >

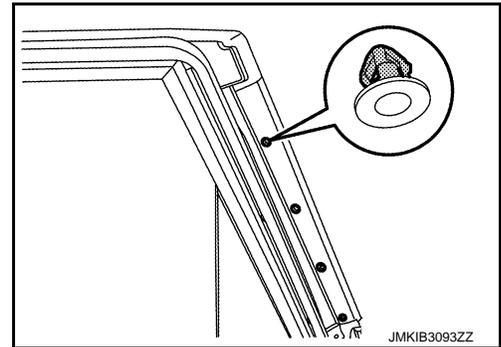
[TYPE 3]

4. Disengage fixing pawl on front upper end of rear door weather-strip using a remover tool (A), and then remove weather-strip clip.

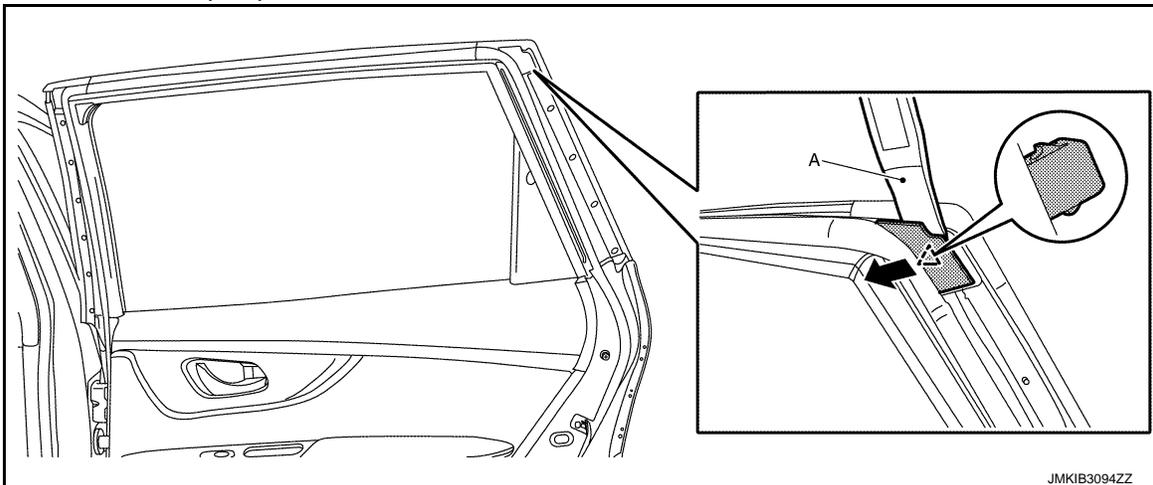


 : Pawl

5. Remove rear fixing clips from weather-strip.



6. Disengage fixing pawl on rear upper end of rear door weather-strip using a remover tool (A), and then remove weather-strip clip.



 : Pawl

7. Remove door check link mounting bolt of vehicle body side.
8. Remove rear door weather-strip from rear door panel.

INSTALLATION

Install in the reverse order of removal.

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BACK DOOR

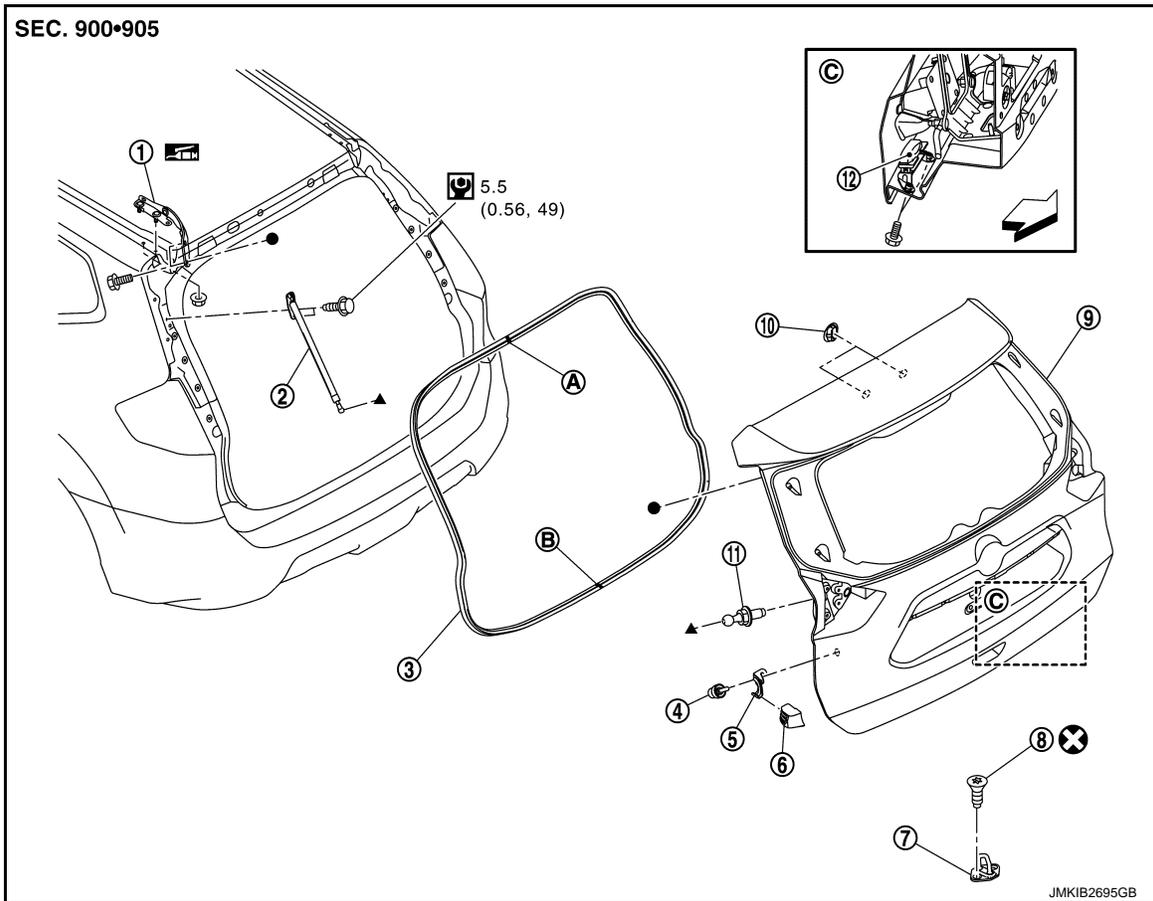
< REMOVAL AND INSTALLATION >

[TYPE 3]

BACK DOOR

Exploded View

INFOID:000000010728568



- | | | |
|---------------------|------------------|---------------------------|
| ① Back door hinge | ② Back door stay | ③ Back door weather-strip |
| ④ Bumper rubber | ⑤ Wedge bracket | ⑥ Back door wedge |
| ⑦ Back door striker | ⑧ TORX bolt | ⑨ Back door panel |
| ⑩ Plug | ⑪ Stud ball | ⑫ Back door damper |

(A) : Center mark

(B) : Seam

← : Vehicle front

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, in·lb)

🛢 : Body grease

●, ▲: Indicates that the part is connected at points with same symbol in actual vehicle.

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000010728569

CAUTION:

- Back door is made of resin. Never apply strong force to it, and be careful to prevent contact with oil.
- Perform work with 2 workers, because of its heavy weight.
- Use protective tape or shop cloth to protect from damage during removal and installation.

BACK DOOR

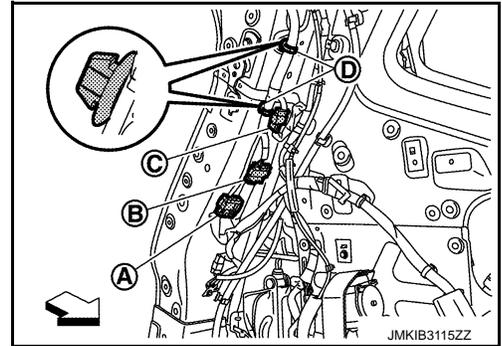
< REMOVAL AND INSTALLATION >

[TYPE 3]

REMOVAL

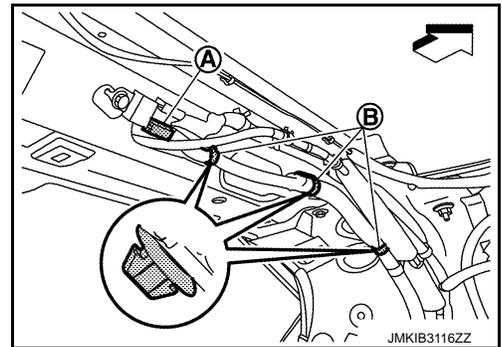
1. Remove headlining. Refer to [INT-37. "Removal and Installation"](#).
2. Disconnect back door harness connectors (A), (B) and (C), and then remove harness fixing clips (D).

← : Vehicle front

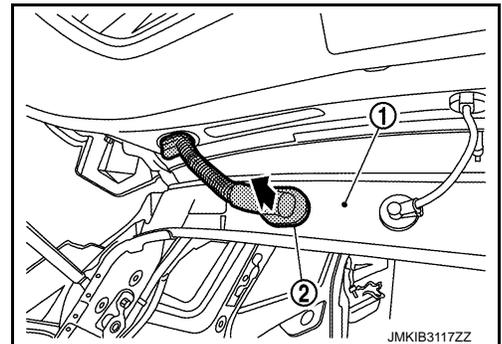


3. Disconnect harness connector (A), and then remove harness fixing clips (B).

← : Vehicle front

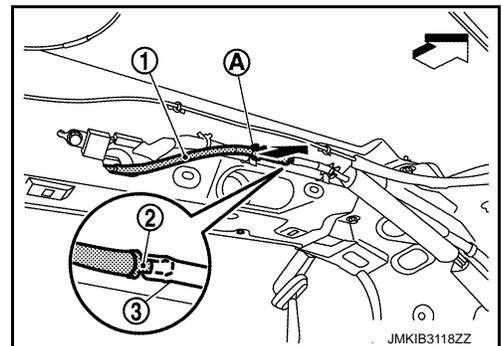


4. Remove grommet (2) from roof panel (1), and then pull out back door harness from vehicle body.



5. Remove air tube (1) from tube clip (A), and then disconnect tube joint connector (2) and air tube (3) (with around view monitor).

← : Vehicle front



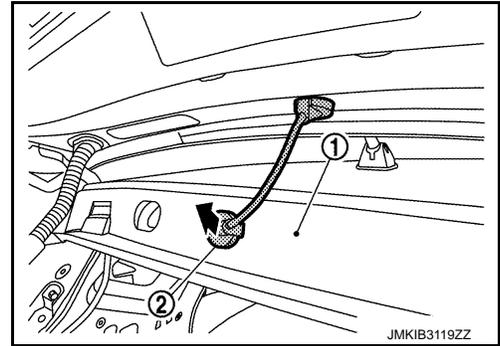
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BACK DOOR

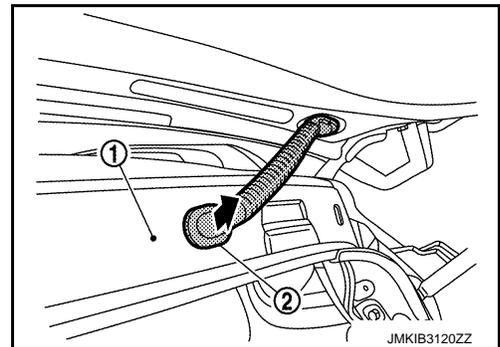
[TYPE 3]

< REMOVAL AND INSTALLATION >

6. Remove tube grommet ② from roof panel ①, and then pull out air tube from vehicle body.



7. Disconnect rear washer tube A and rear washer tube B. Refer to [WW-102. "REAR WASHER TUBE : Removal and Installation"](#).
8. Disconnect rear view camera washer tube (with around view monitor). Refer to [WW-103. "REAR CAMERA WASHER TUBE : Removal and Installation"](#).
9. Remove tube grommet ② from roof panel ①, and then pull out rear washer tube B and rear camera washer tube from vehicle body.



10. Support back door with the proper material to prevent it from falling.

WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

11. Remove back door stay from back door. Refer to [DLK-765. "BACK DOOR STAY : Removal and Installation"](#).
12. Remove back door hinge mounting nuts of back door and remove back door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- After installation, perform the fitting adjustment. Refer to [DLK-763. "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, check whether harness is not pinched. If harness is pinched, pull harness downward lightly.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-762. "BACK DOOR ASSEMBLY : Inspection"](#).

BACK DOOR ASSEMBLY : Inspection

INFOID:000000010728570

1. Open and close the back door. Check that door hinge rotation portion moves smoothly.

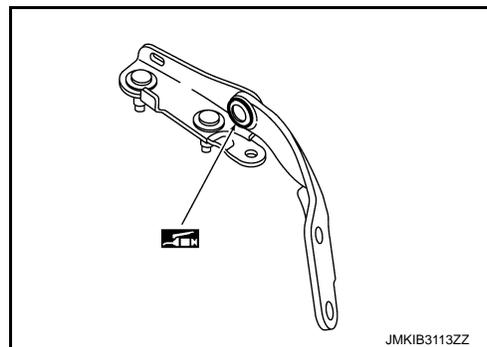
BACK DOOR

< REMOVAL AND INSTALLATION >

[TYPE 3]

2. Check back door hinge rotating part for poor lubrication. Apply body grease if necessary.

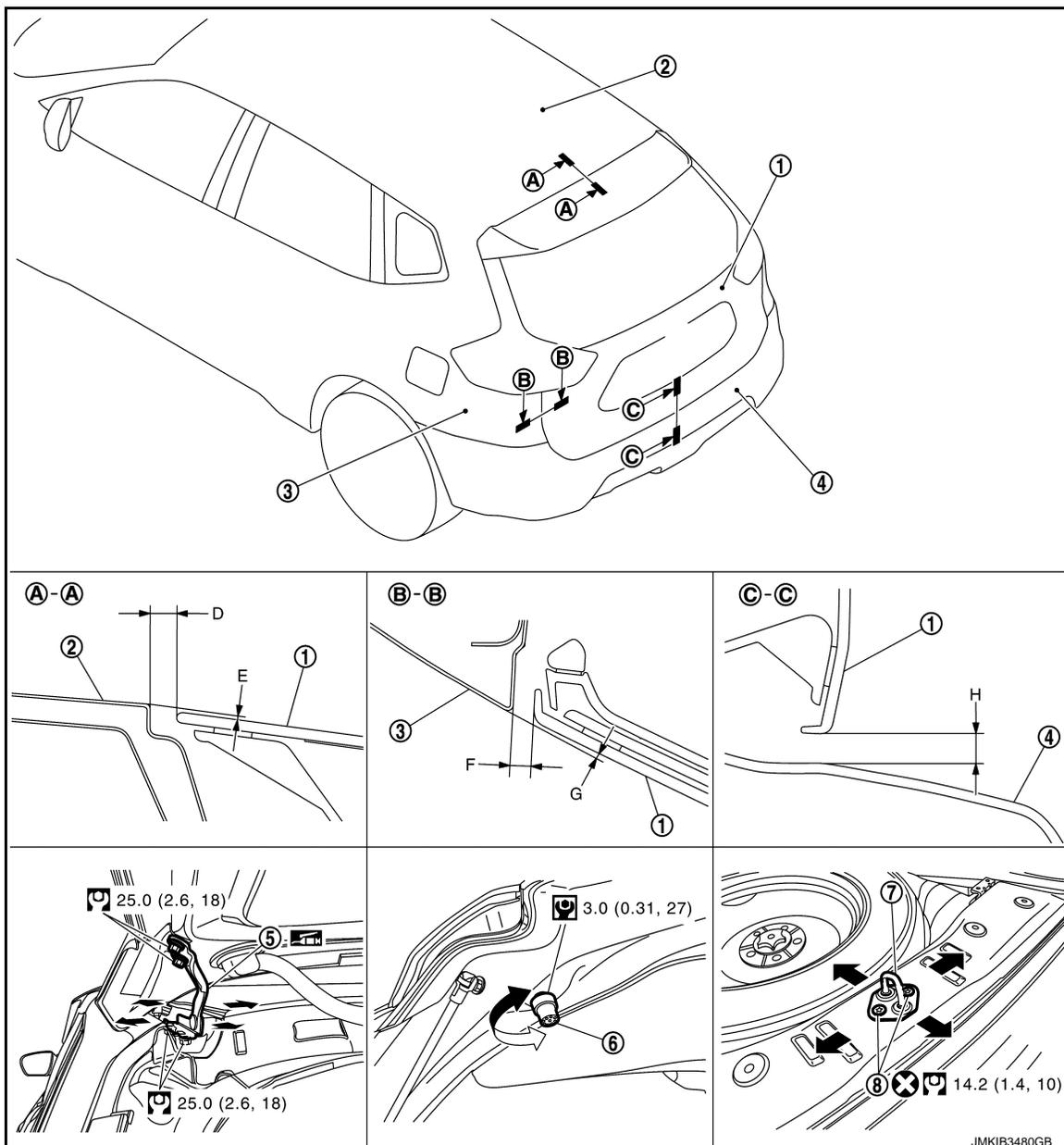
 : Body grease



BACK DOOR ASSEMBLY : Adjustment

INFOID:000000010728571

FITTING ADJUSTMENT



- | | | |
|----------------------|-------------------|-------------------------|
| ① Back door assembly | ② Roof panel | ③ Body side outer panel |
| ④ Rear bumper fascia | ⑤ Back door hinge | ⑥ Bumper rubber |

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BACK DOOR

< REMOVAL AND INSTALLATION >

[TYPE 3]

⑦ Back door striker ⑧ TORX bolt

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, ft·lb)

🛠 : Body grease

Fitting Adjustment Standard

Check the clearance and the surface height between back door and each part by seeing and touching.

If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

When back door is reused.

Unit: mm [in]

Portion			Standard	Difference (LH/RH, MAX)
Back door – Roof panel	Ⓐ – Ⓐ	D	5.0 – 9.0 [0.197 – 0.354]	—
		E	(-3.0) – (+1.0) [(-0.118) – (+0.039)]	—
Back door – Body side outer panel	Ⓑ – Ⓑ	F	3.0 – 7.0 [0.118 – 0.276]	<2.0 [0.079]
		G	(-3.0) – (+1.0) [(-0.118) – (+0.039)]	—
Back door – Rear bumper fascia	Ⓒ – Ⓒ	H	5.5 – 9.5 [0.217 – 0.374]	—

When back door is replaced.

Unit: mm [in]

Portion			Standard	Difference (LH/RH, MAX)
Back door – Roof panel	Ⓐ – Ⓐ	D	5.1 – 9.1 [0.201 – 0.358]	—
		E	(-2.0) – (+2.0) [(-0.079) – (+0.079)]	—
Back door – Body side outer panel	Ⓑ – Ⓑ	F	2.5 – 6.5 [0.098 – 0.256]	<2.0 [0.079]
		G	(-3.3) – (+0.7) [(-0.130) – (+0.028)]	—
Back door – Rear bumper fascia	Ⓒ – Ⓒ	H	5.7 – 9.7 [0.224 – 0.382]	—

Fitting Adjustment Procedure

- Loosen back door hinge mounting nuts of back door side.
- Loosen bumper rubber.
- Remove luggage rear plate mask. Refer to [INT-41, "LUGGAGE REAR PLATE : Removal and Installation"](#).
- Loosen back door striker mounting TORX bolts.
- Position back door lock assembly and engage back door striker. Check back door lock assembly and back door striker for looseness.
- Adjust the clearance and surface height of back door according to the fitting standard dimension by back door hinge and bumper rubber.

BACK DOOR

[TYPE 3]

< REMOVAL AND INSTALLATION >

7. After adjustment, tighten back door striker mounting TORX bolts, bumper rubber and back door hinge mounting nuts of back door side to the specified torque.
CAUTION:
After installation, apply touch-up paint to the body color if the paint around back door hinge and back door hinge mounting nuts is peeled off.

8. Install luggage rear plate mask. Refer to [INT-41, "LUGGAGE REAR PLATE : Removal and Installation"](#).

CAUTION:

- After adjusting, check that bumper rubber is in contact with vehicle body surely.
- After adjusting, check that door opens and closes normally. Refer to [DLK-762, "BACK DOOR ASSEMBLY : Inspection"](#).
- After adjusting, perform calibration camera image (with around view monitor). Refer to [AV-161, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Work Procedure"](#) (with navigation).

BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that it becomes parallel with back door lock insertion direction.

BACK DOOR STRIKER

BACK DOOR STRIKER : Removal and Installation

INFOID:000000010728572

REMOVAL

1. Remove luggage rear plate. Refer to [INT-41, "LUGGAGE REAR PLATE : Removal and Installation"](#).
2. Remove TORX bolts, and then remove back door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- After installation, perform the fitting adjustment. Refer to [DLK-763, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, check that door opens and closes normally. Refer to [DLK-762, "BACK DOOR ASSEMBLY : Inspection"](#).

BACK DOOR HINGE

BACK DOOR HINGE : Removal and Installation

INFOID:000000010728573

REMOVAL

1. Remove back door assembly. Refer to [DLK-760, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove back door hinge cover. Refer to [EXT-46, "Removal and Installation"](#).
3. Remove back door hinge mounting nuts of vehicle body side, and then remove back door hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- After installation, perform the fitting adjustment. Refer to [DLK-763, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-762, "BACK DOOR ASSEMBLY : Inspection"](#).

BACK DOOR STAY

BACK DOOR STAY : Removal and Installation

INFOID:000000010728574

REMOVAL

CAUTION:

2 workers are required to support back door.

1. Support the back door with the suitable material to prevent it from falling.

WARNING:

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BACK DOOR

< REMOVAL AND INSTALLATION >

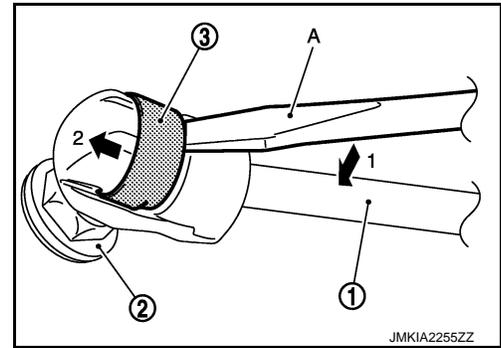
[TYPE 3]

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

2. Remove metal clip ③ located on connection between back door stay ① and stud ball ② using a remover tool (A) according to the numerical order 1→2 indicated by arrows as shown in the figure.

CAUTION:

2 workers are required to support back door.



3. Disengage back door stay and stud ball of back door side.
4. Remove back door stay mounting bolts, and then remove back door stay.

INSTALLATION

Install in the reverse order of removal.

BACK DOOR STAY : Disposal

INFOID:000000010728575

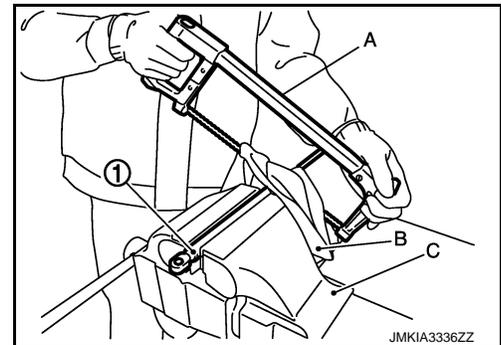
CAUTION:

When performing disposal operation, wear the protective glasses and protective gloves.

1. Fix back door stay ① using a vise (C).

CAUTION:

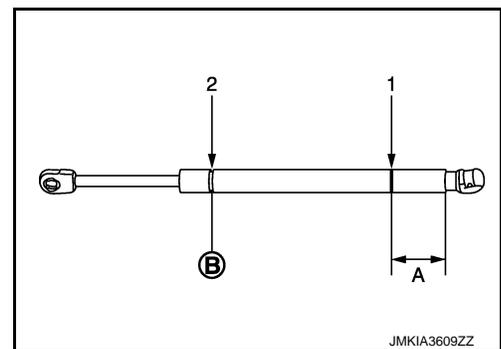
When cutting a hole on back door stay, always cover a hacksaw (A) using a shop cloth (B) to avoid scattering metal fragments or oil.



2. Using hacksaw (A) slowly make 2 holes in the back door stay, in numerical order as shown in the figure.

A: 20.0 mm (0.787 in)

Ⓑ: Cut at the groove.



BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000010728576

REMOVAL

Pull up and remove engagement with body from weather-strip joint.

CAUTION:

Never pull strongly on back door weather-strip.

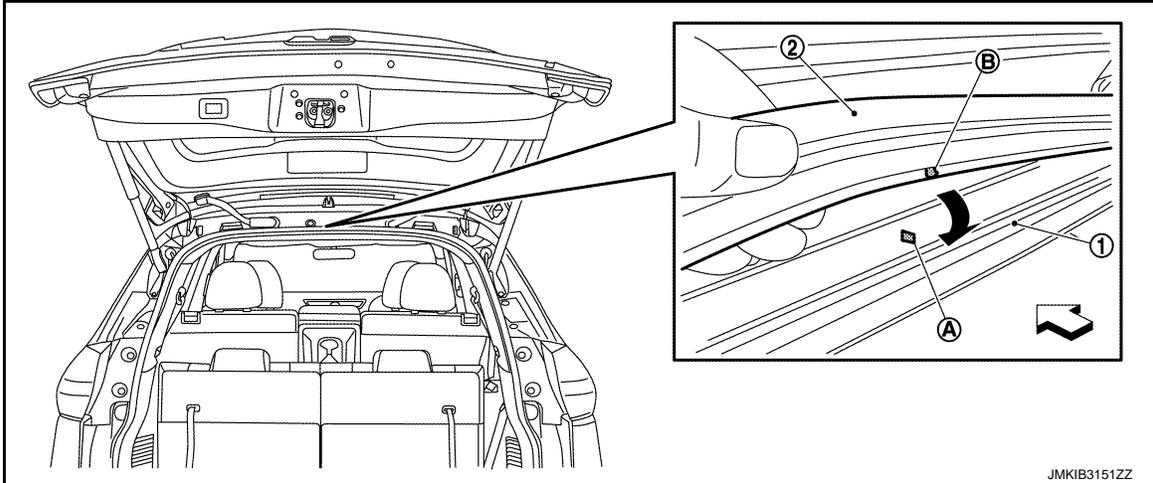
INSTALLATION

BACK DOOR

< REMOVAL AND INSTALLATION >

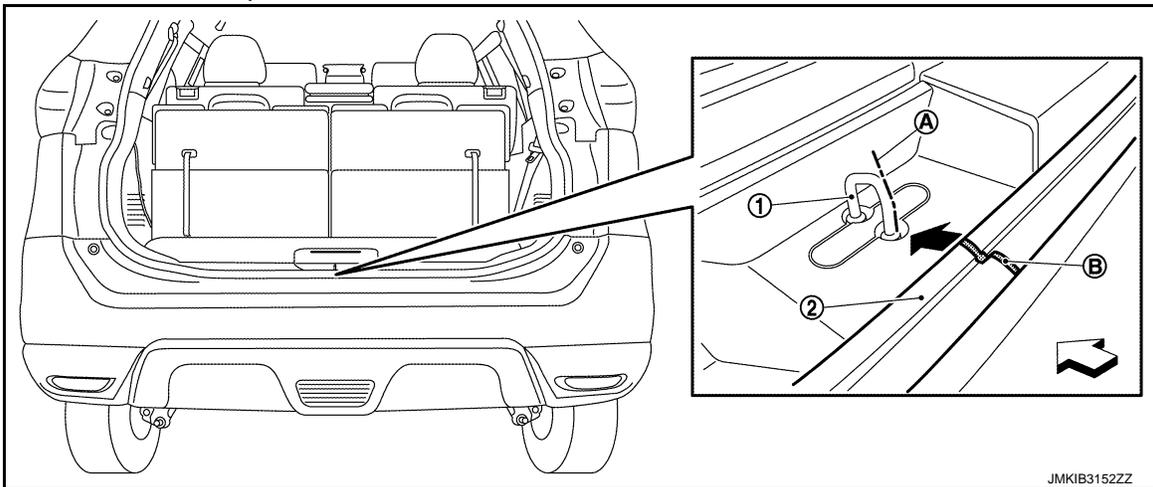
[TYPE 3]

1. Working from the upper section, align back door weather-strip ② center mark ③ with vehicle center position mark ④ and install weather-strip onto the vehicle ①.



← : Vehicle front

2. Align the connecting point ③ of back door weather-strip ② with the center ④ of back door striker ①, and then install weather-strip onto the vehicle.



← : Vehicle front

3. Pull back door weather-strip gently to ensure that there is no loose section.
CAUTION:
Check that weather-strip fits tightly in each corner.

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HOOD LOCK

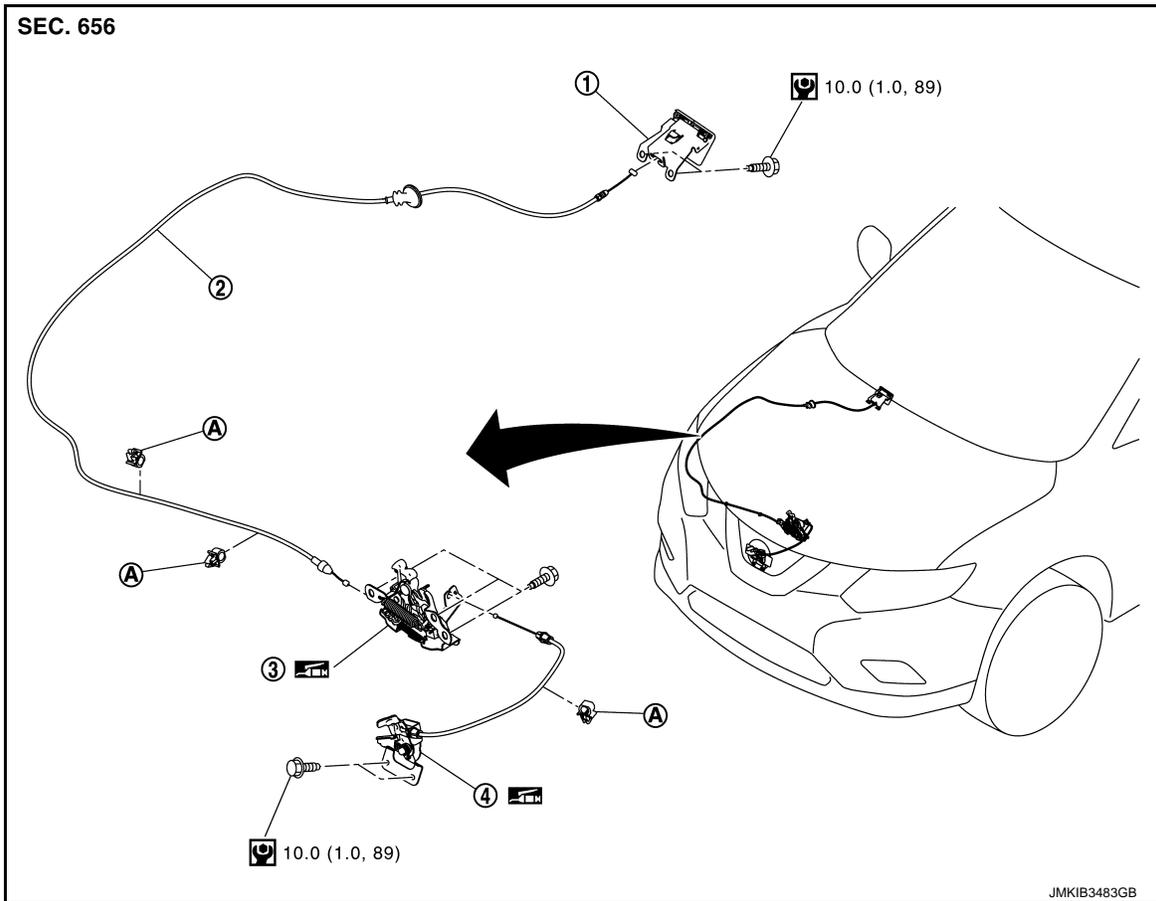
< REMOVAL AND INSTALLATION >

[TYPE 3]

HOOD LOCK

Exploded View

INFOID:000000010728577



① Hood lock control handle assembly ② Hood lock control cable assembly ③ Hood lock assembly

④ Hood lock bell crank assembly

A Cable clip

 : N·m (kg·m, in·lb)

 : Body grease

HOOD LOCK

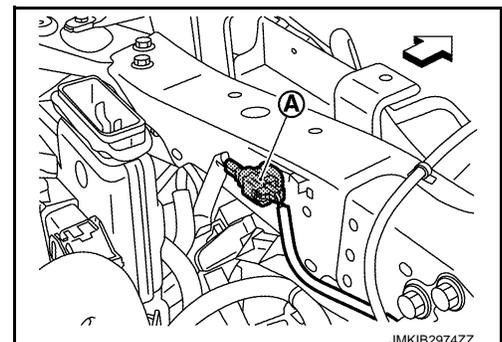
HOOD LOCK : Removal and Installation

INFOID:000000010728578

REMOVAL

1. Disconnect hood lock switch harness connector A (if equipped).

 : Vehicle front

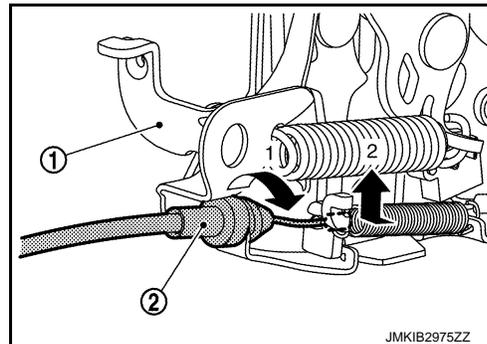


HOOD LOCK

[TYPE 3]

< REMOVAL AND INSTALLATION >

2. Disconnect hood lock bell crank cable from hood lock assembly. Refer to [DLK-771, "HOOD LOCK BELL CRANK : Removal and Installation"](#).
3. Remove hood lock assembly mounting bolts, and then remove hood lock assembly.
4. Disconnect hood lock control cable assembly ② from hood lock assembly ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Never bend cable too much, keeping the radius 100 mm (3.937 in) or more.
- Check that hood lock control cable is properly engaged with hood lock.
- After installation, perform hood fitting adjustment. Refer to [DLK-733, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform hood lock control inspection. Refer to [DLK-769, "HOOD LOCK : Inspection"](#).

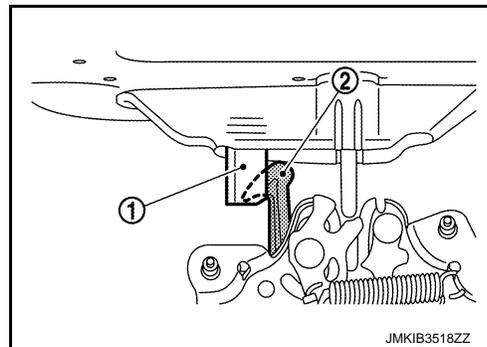
HOOD LOCK : Inspection

INFOID:000000010728579

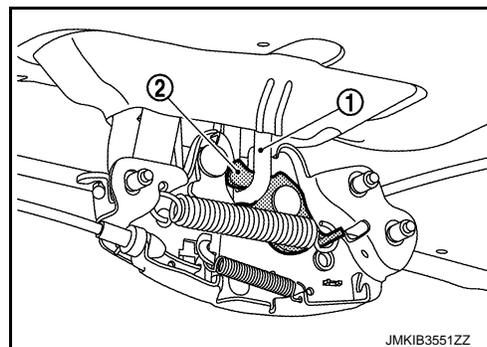
NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Check that hood opener operating is condition 49 N (5.0 kg, 11.0 lb) or below.
2. Check that secondary latch ② is securely engaged with secondary striker ① from the dead load of hood assembly.



3. Check that primary latch ② is securely engaged with primary striker ① when hood assembly is closed [free-fall from approximately 200 mm (7.874 in) height].



4. While operating the hood opener carefully, check that the front end of the hood is lifted by approximately 20 mm (0.787 in) (A). Also, check that the hood opener returns to the original position.

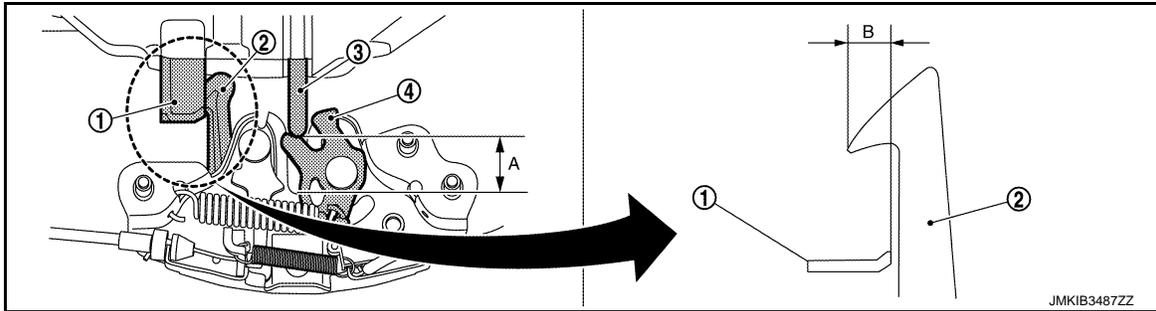
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DLK

HOOD LOCK

< REMOVAL AND INSTALLATION >

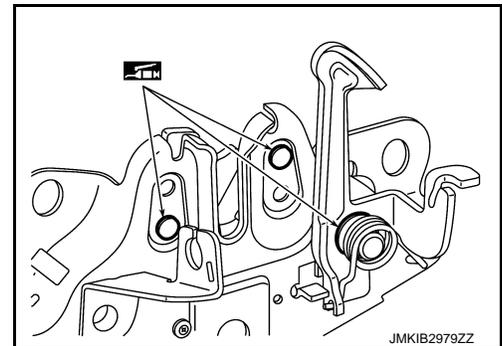
[TYPE 3]



- ① Secondary striker
- ② Secondary latch
- ③ Primary striker
- ④ Primary latch

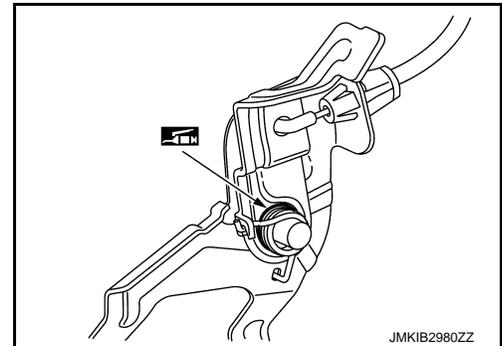
5. Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] (B).
6. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.
 - Hood lock assembly

 : Body grease



- Hood lock bell crank assembly

 : Body grease



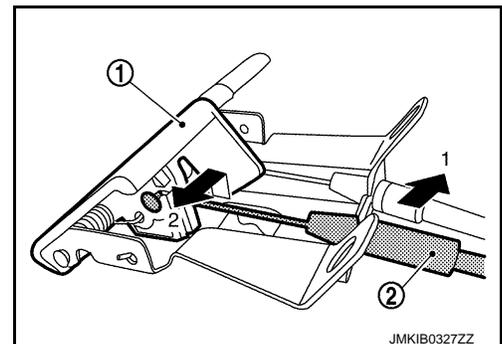
HOOD LOCK CONTROL HANDLE

HOOD LOCK CONTROL HANDLE : Removal and Installation

INFOID:000000010728580

REMOVAL

1. Remove hood lock control handle mounting bolts, and then remove hood lock control handle.
2. Remove hood lock control cable ② from hood opener lever ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



HOOD LOCK

< REMOVAL AND INSTALLATION >

[TYPE 3]

3. Remove fuel filler lid opener cable from fuel filler lid opener lever. Refer to [DLK-786, "FUEL FILLER OPENER CABLE : Removal and Installation"](#).

INSTALLATION

Note the following item, and install in the reverse order of removal.

CAUTION:

After installation, perform hood lock control inspection. Refer to [DLK-769, "HOOD LOCK : Inspection"](#).

HOOD LOCK CONTROL CABLE

HOOD LOCK CONTROL CABLE : Removal and Installation

INFOID:000000010728581

REMOVAL

1. Disconnect hood lock control cable assembly from hood lock assembly. Refer to [DLK-768, "HOOD LOCK : Removal and Installation"](#).
2. Remove fender protector RH. Refer to [EXT-35, "FENDER PROTECTOR : Removal and Installation"](#).
3. Remove hood lock control cable fixing clips.
4. Disconnect hood lock control cable assembly from hood lock control handle. Refer to [DLK-770, "HOOD LOCK CONTROL HANDLE : Removal and Installation"](#).
5. Remove dash side finisher RH. Refer to [INT-26, "DASH SIDE FINISHER : Removal and Installation"](#).
6. Remove grommet of the lower dash, and pull the hood lock control cable assembly toward inside vehicle.

CAUTION:

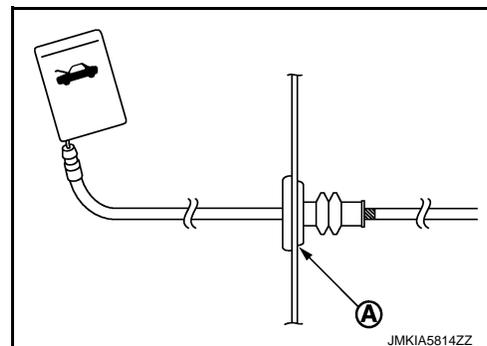
While pulling, never damage (peeling) the outside of hood lock control cable.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never bend cable too much, keeping the radius 100 mm (3.937 in) or more.
- Install grommet in the panel hole surely.
- Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (A) properly.



- After installation, perform hood lock control inspection. Refer to [DLK-769, "HOOD LOCK : Inspection"](#).

HOOD LOCK BELL CRANK

HOOD LOCK BELL CRANK : Removal and Installation

INFOID:000000010728582

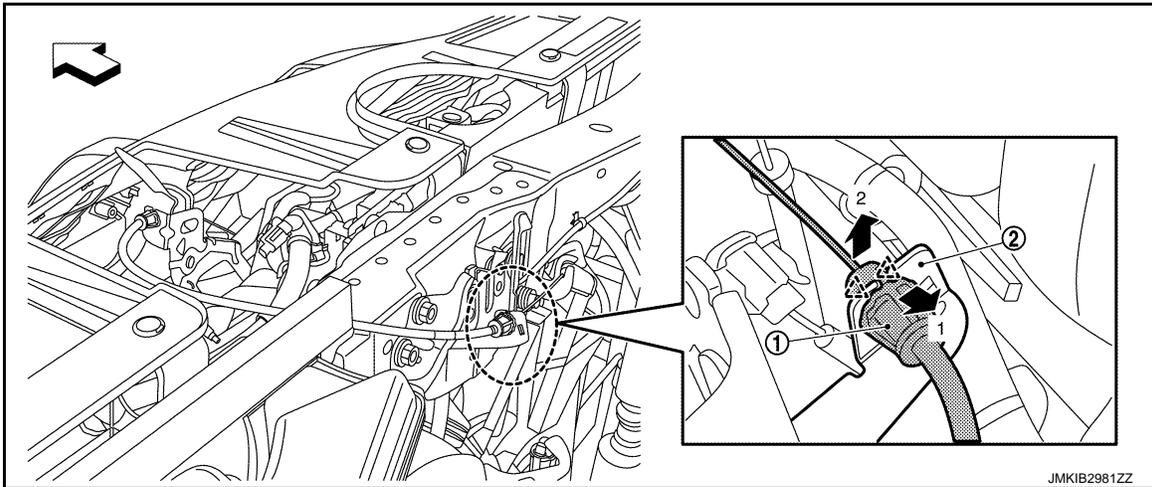
REMOVAL

HOOD LOCK

[TYPE 3]

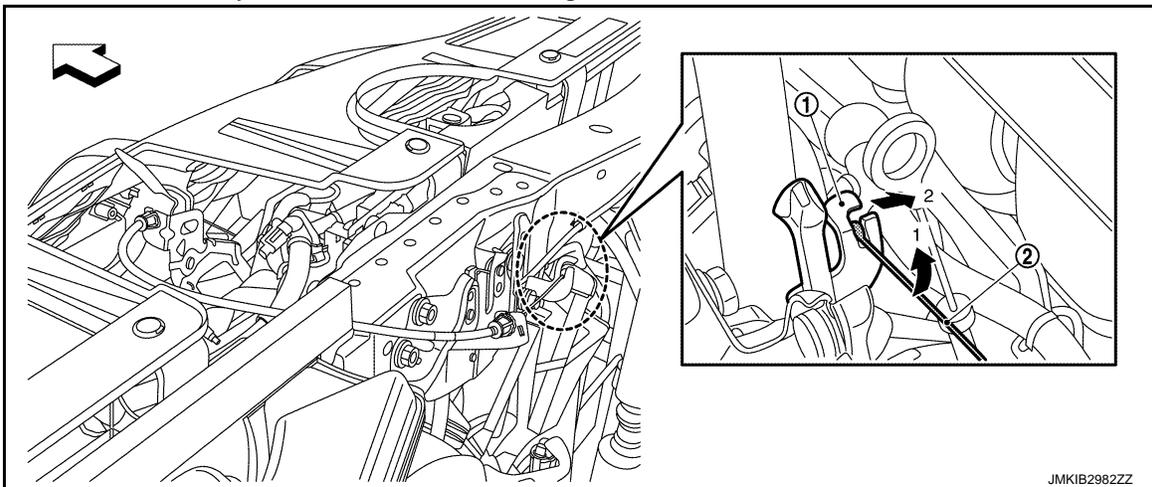
< REMOVAL AND INSTALLATION >

1. Disengage pawls of hood lock bell crank cable and disconnect hood lock bell crank cable ① from housing bracket ② of hood lock assembly according to the numerical order 1→2 indicated by arrows as shown in the figure.



△ : Pawl
← : Vehicle front

2. Disconnect hood lock bell crank cable ② from lever ① of hood lock assembly according to the numerical order 1→2 indicated by arrows as shown in the figure.



← : Vehicle front

3. Remove hood lock bell crank assembly mounting bolts, and then remove hood lock bell crank assembly.

INSTALLATION

Note the following item, and install in the reverse order of removal.

CAUTION:

After installation, perform hood lock control inspection. Refer to [DLK-769, "HOOD LOCK : Inspection"](#).

FRONT DOOR LOCK

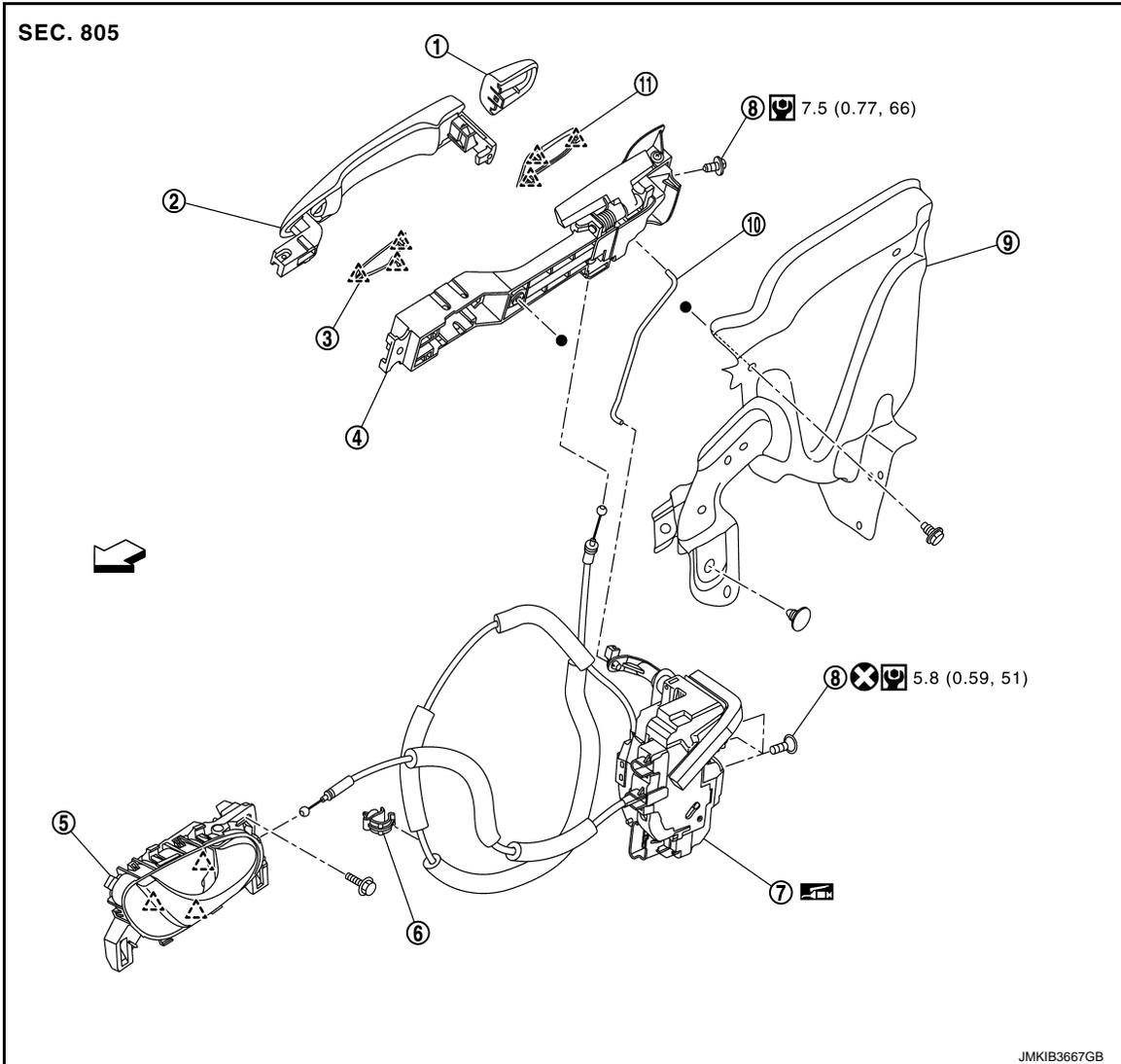
< REMOVAL AND INSTALLATION >

[TYPE 3]

FRONT DOOR LOCK

Exploded View

INFOID:000000010728583



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|-----------------------------|-----------------------|-----------------------------------|
| ① Outside handle escutcheon | ② Outside handle grip | ③ Front gasket |
| ④ Outside handle bracket | ⑤ Inside handle | ⑥ Cable clip |
| ⑦ Door lock assembly | ⑧ TORX bolt | ⑨ Key rod protector (driver side) |
| ⑩ Key rod (driver side) | ⑪ Rear gasket | |

△ : Pawl

← : Vehicle front

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, in·lb)

☑ : Body grease

● : Indicates that the part is connected at points with same symbol in actual vehicle.

DOOR LOCK

DLK-773

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FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[TYPE 3]

DOOR LOCK : Removal and Installation

INFOID:000000010728584

REMOVAL

1. Disconnect lock knob cable and inside handle cable from inside handle. Refer to [DLK-774, "INSIDE HANDLE : Removal and Installation"](#).
2. Disconnect outside handle cable from outside handle bracket. Refer to [DLK-775, "OUTSIDE HANDLE : Removal and Installation"](#).
3. Disconnect door lock assembly connector.
4. Remove door lock assembly TORX bolts, and then remove door lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

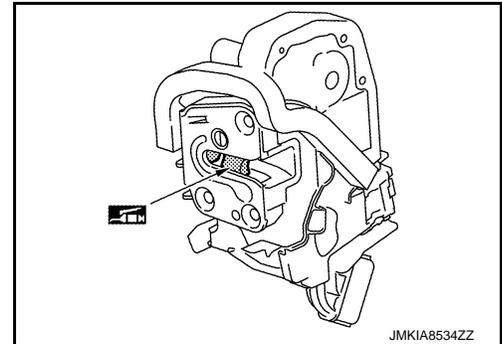
- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- When installing key rod, rotate key rod holder until a click is felt.
- After installation, check door lock. Refer to [DLK-774, "DOOR LOCK : Inspection"](#).

DOOR LOCK : Inspection

INFOID:000000010728585

1. After opening and closing the door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.
3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

 : Body grease



INSIDE HANDLE

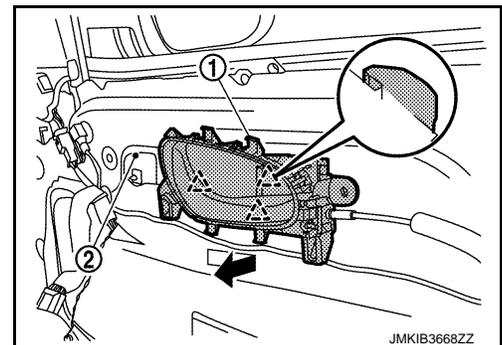
INSIDE HANDLE : Removal and Installation

INFOID:000000010728586

REMOVAL

1. Remove front door finisher. Refer to [INT-14, "Removal and Installation"](#).
2. Remove inside handle mounting bolt.
3. Disengage inside handle ① from door panel ② while sliding inside handle toward vehicle rear, and then separate inside handle.

 : Pawl

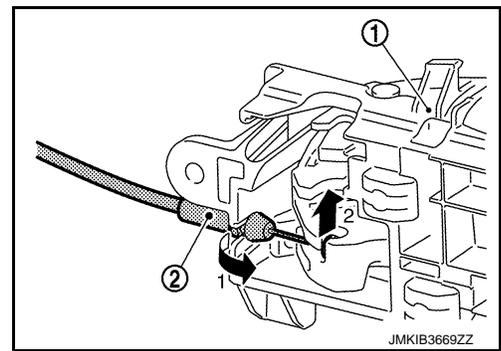


FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[TYPE 3]

4. Disengage inside handle cable ② from inside handle ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check door lock. Refer to [DLK-774, "DOOR LOCK : Inspection"](#).

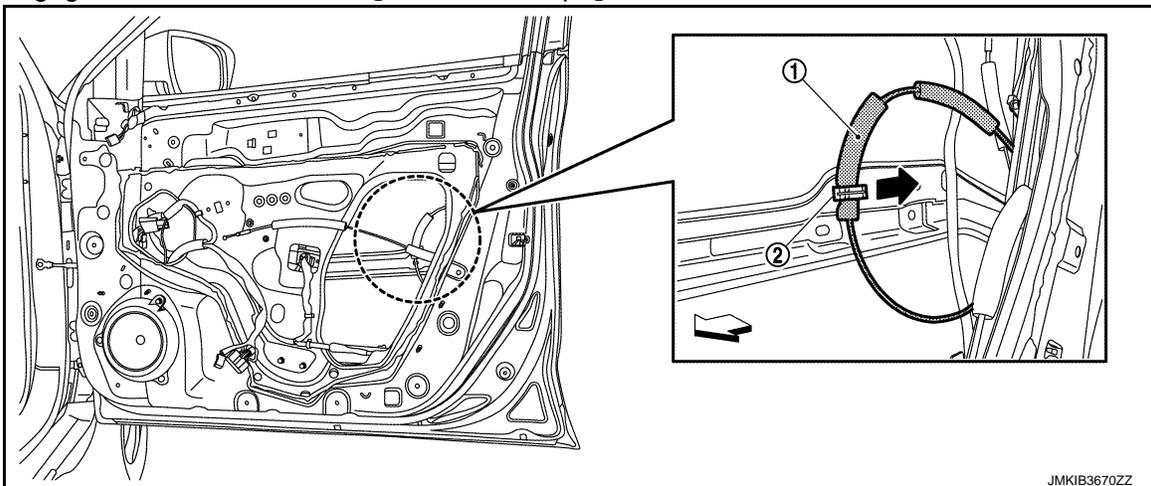
OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

INFOID:000000010728587

REMOVAL

1. Fully close the front door glass.
2. Remove front door finisher. Refer to [INT-14, "Removal and Installation"](#).
3. Remove inside handle. Refer to [DLK-774, "INSIDE HANDLE : Removal and Installation"](#).
4. Remove sealing screen and front door glass run lower sash. Refer to [GW-43, "FRONT DOOR GLASS RUN LOWER SASH : Removal and Installation"](#).
5. Remove key rod protector mounting bolt and fixing clip, and then remove key rod protector.
6. Disengage outside handle cable ① from cable clip ②.



← : Vehicle front

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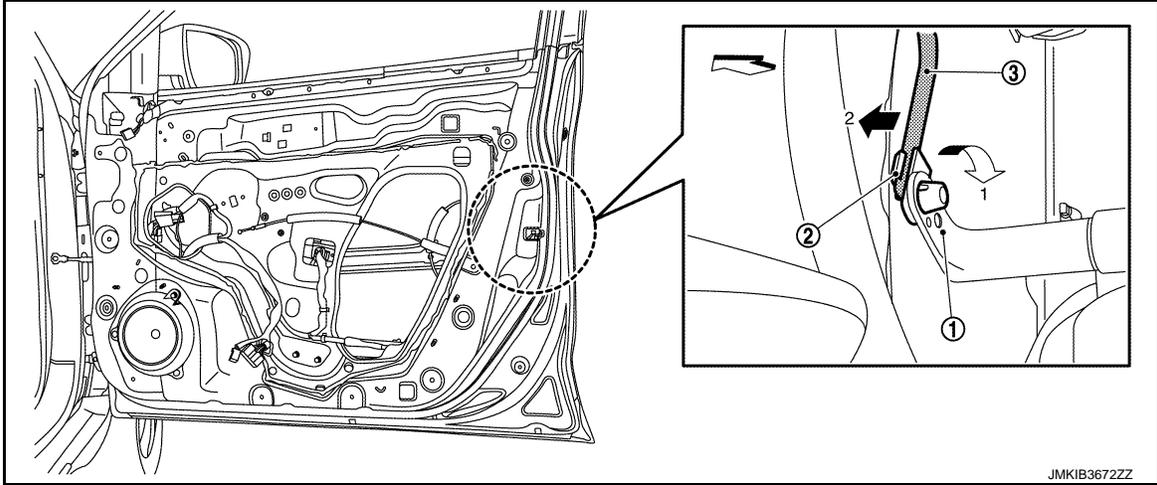
DLK

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

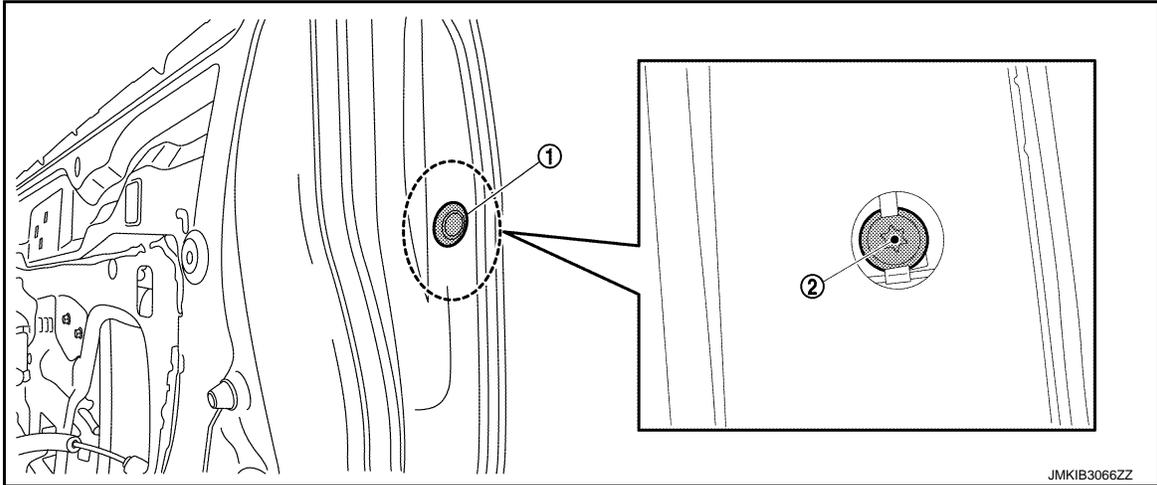
[TYPE 3]

7. Disengage rod holder ② and disconnect key rod ③ from door lock assembly ① according to the numerical order 1→2 indicated by arrows as shown in the figure (driver side).

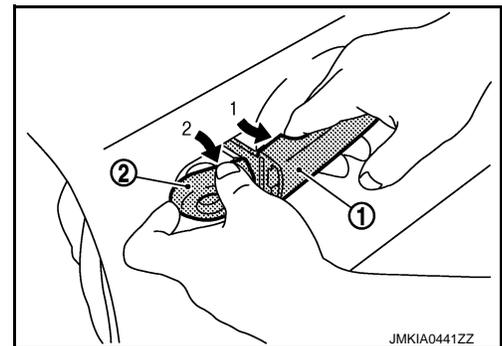


← : Vehicle front

8. Remove door side grommet ①, and then loosen TORX bolt ② from grommet hole.



9. Remove outside handle escutcheon ② while pulling outside handle grip ① according to the numerical order 1→2 indicated by arrows as shown in the figure.

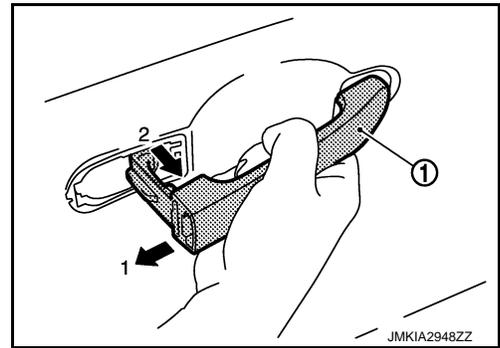


FRONT DOOR LOCK

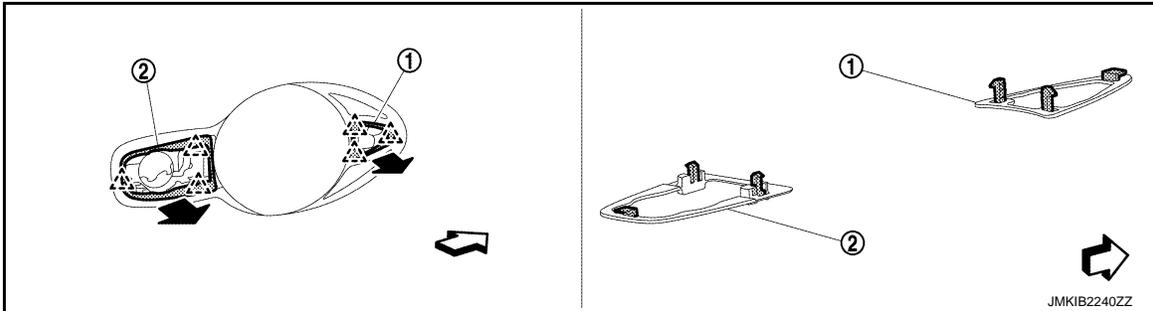
< REMOVAL AND INSTALLATION >

[TYPE 3]

10. Slide outside handle grip ① toward rear of vehicle and remove it according to the numerical order 1→2 indicated by arrows as shown in the figure.



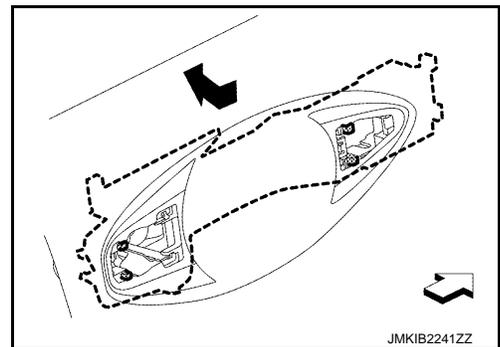
11. Remove front gasket ① and rear gasket ②.



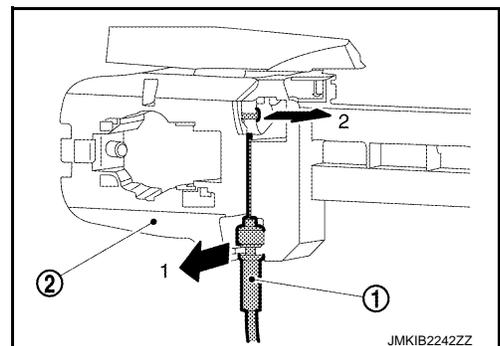
- △ : Pawl
← : Vehicle front

12. Slide outside handle bracket toward rear of vehicle and remove it.

- ← : Vehicle front



13. Disconnect outside handle cable ① from outside handle bracket ② according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- When installing key rod, rotate key rod holder until a click is felt.
- After installation, check door lock. Refer to [DLK-774, "DOOR LOCK : Inspection"](#).

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REAR DOOR LOCK

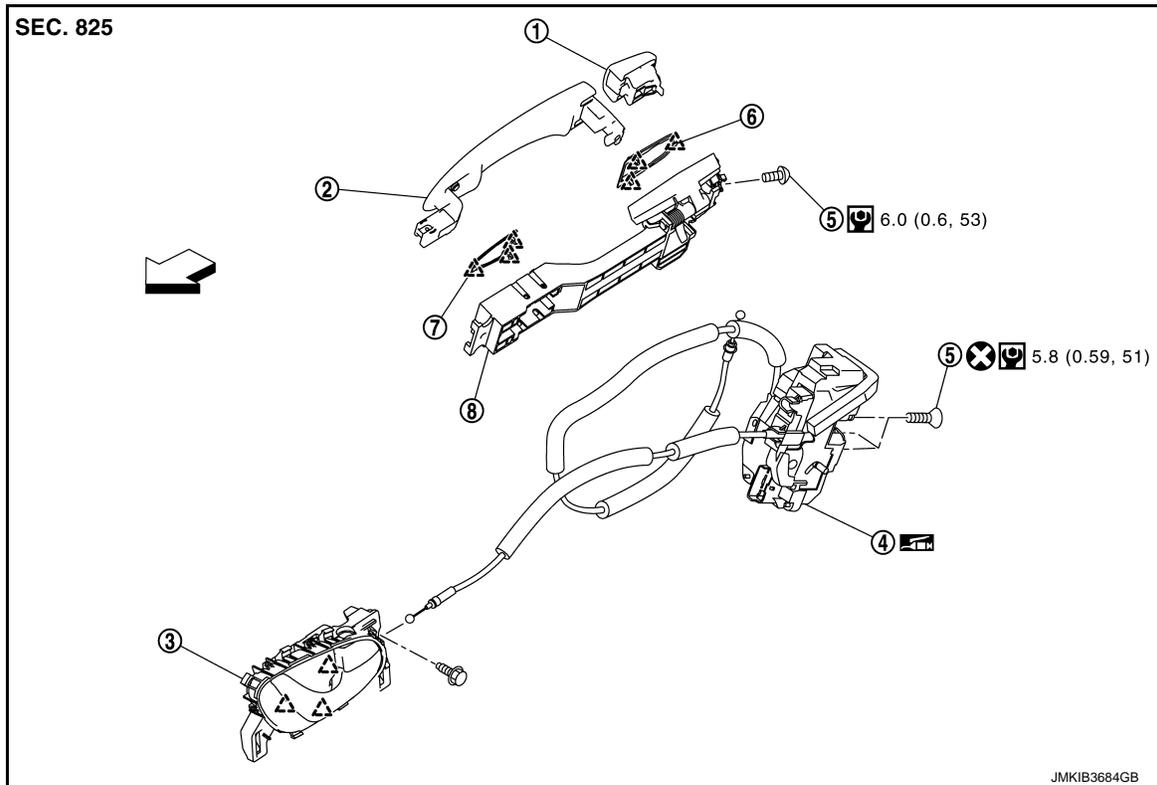
< REMOVAL AND INSTALLATION >

[TYPE 3]

REAR DOOR LOCK

Exploded View

INFOID:000000010728588



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|-----------------------------|--------------------------|-----------------|
| ① Outside handle escutcheon | ② Outside handle grip | ③ Inside handle |
| ④ Door lock assembly | ⑤ TORX bolt | ⑥ Rear gasket |
| ⑦ Front gasket | ⑧ Outside handle bracket | |

△ : Pawl

← : Vehicle front

⊗ : Always replace after every disassembly.

⊙ : N·m (kg·m, in·lb)

Ⓜ : Body grease

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000010728589

REMOVAL

1. Disconnect inside handle cable from inside handle. Refer to [DLK-779. "INSIDE HANDLE : Removal and Installation"](#).
2. Disconnect outside handle cable from outside handle bracket. Refer to [DLK-780. "OUTSIDE HANDLE : Removal and Installation"](#).
3. Disconnect door lock assembly connector.
4. Remove door lock assembly TORX bolts, and then remove door lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.

DLK-778

REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[TYPE 3]

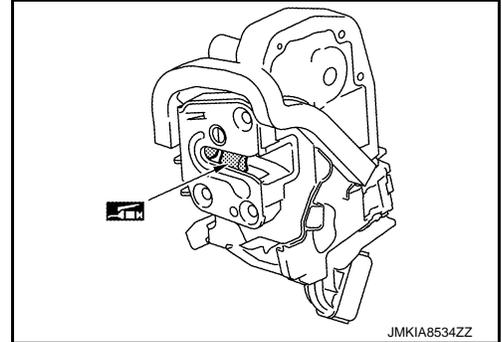
- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- After installation, check door lock. Refer to [DLK-779, "DOOR LOCK : Inspection"](#).

DOOR LOCK : Inspection

INFOID:000000010728590

1. After opening and closing the door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.
3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

 : Body grease



INSIDE HANDLE

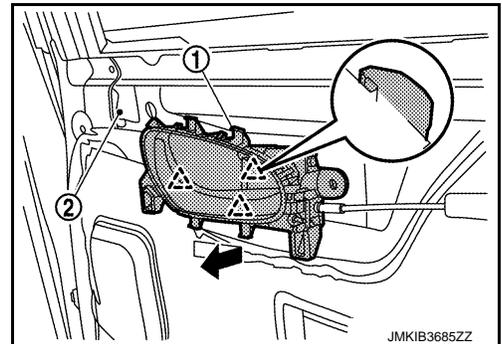
INSIDE HANDLE : Removal and Installation

INFOID:000000010728591

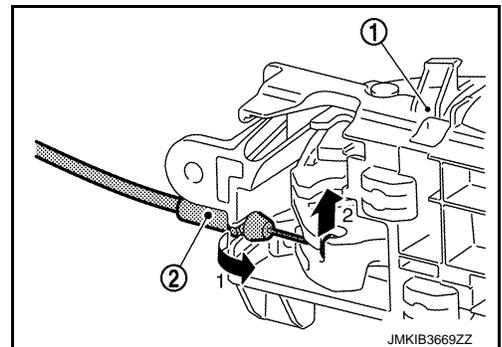
REMOVAL

1. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
2. Remove inside handle mounting bolt.
3. Disengage inside handle ① from door panel ② while sliding inside handle toward vehicle rear, and then separate inside handle.

 : Pawl



4. Disengage inside handle cable ② from inside handle ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check door lock. Refer to [DLK-779, "DOOR LOCK : Inspection"](#).

OUTSIDE HANDLE

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REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

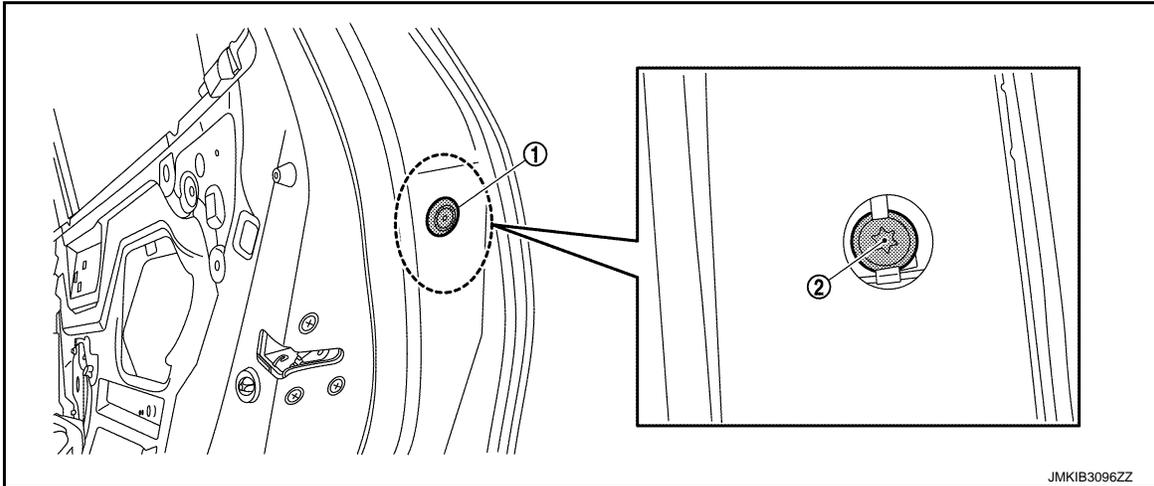
[TYPE 3]

OUTSIDE HANDLE : Removal and Installation

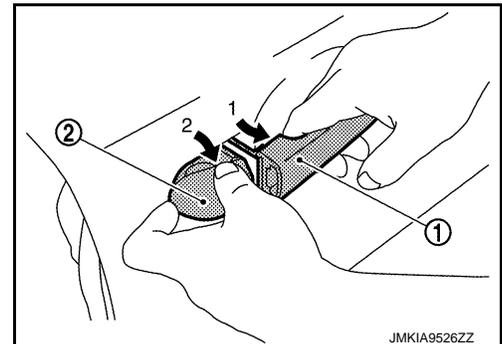
INFOID:000000010728592

REMOVAL

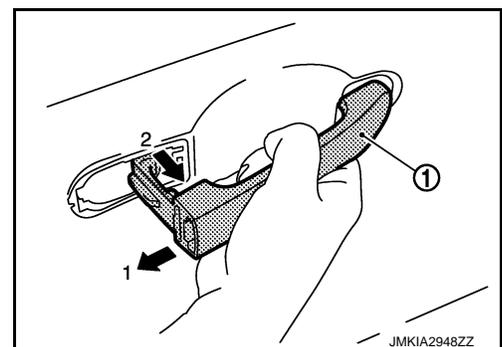
1. Fully close the rear door glass.
2. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
3. Remove inside handle. Refer to [DLK-779, "INSIDE HANDLE : Removal and Installation"](#).
4. Remove sealing screen and rear door lower sash. Refer to [GW-52, "REAR DOOR LOWER SASH : Removal and Installation"](#).
5. Remove door side grommet ①, and then loosen TORX bolt ② from grommet hole.



6. Remove outside handle escutcheon ② while pulling outside handle grip ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



7. Slide outside handle grip ① toward rear of vehicle and remove it according to the numerical order 1→2 indicated by arrows as shown in the figure.

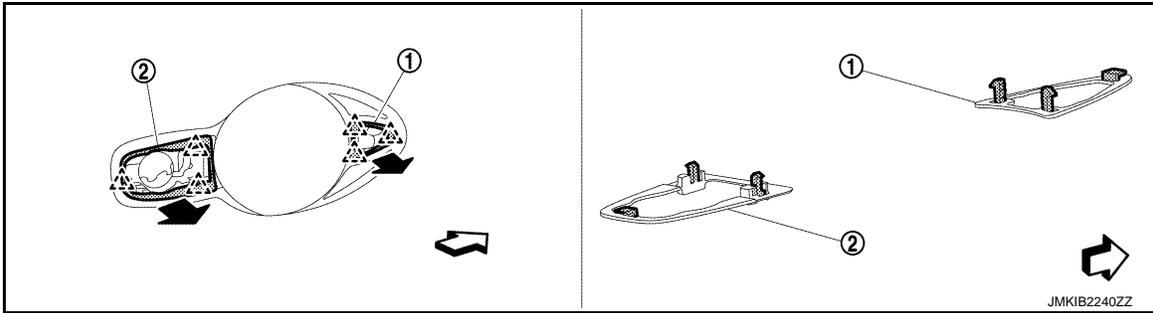


REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[TYPE 3]

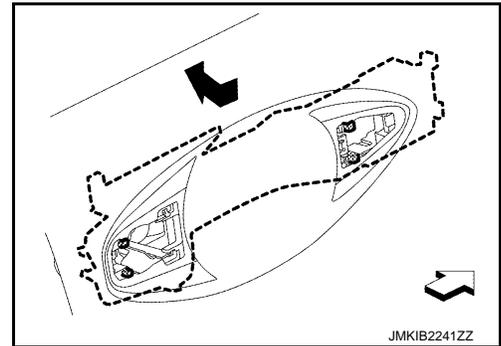
8. Remove front gasket ① and rear gasket ②.



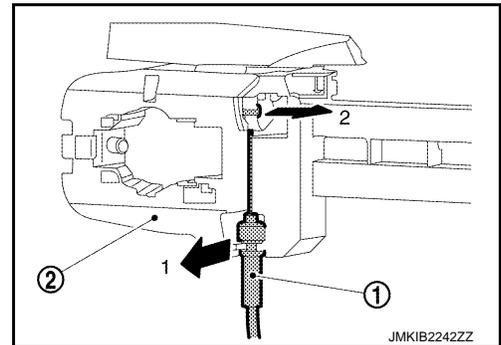
△ : Pawl
← : Vehicle front

9. Slide outside handle bracket toward rear of vehicle and remove it.

← : Vehicle front



10. Disconnect outside handle cable ① from outside handle bracket ② according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- After installation, check door lock. Refer to [DLK-779. "DOOR LOCK : Inspection"](#).

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BACK DOOR LOCK

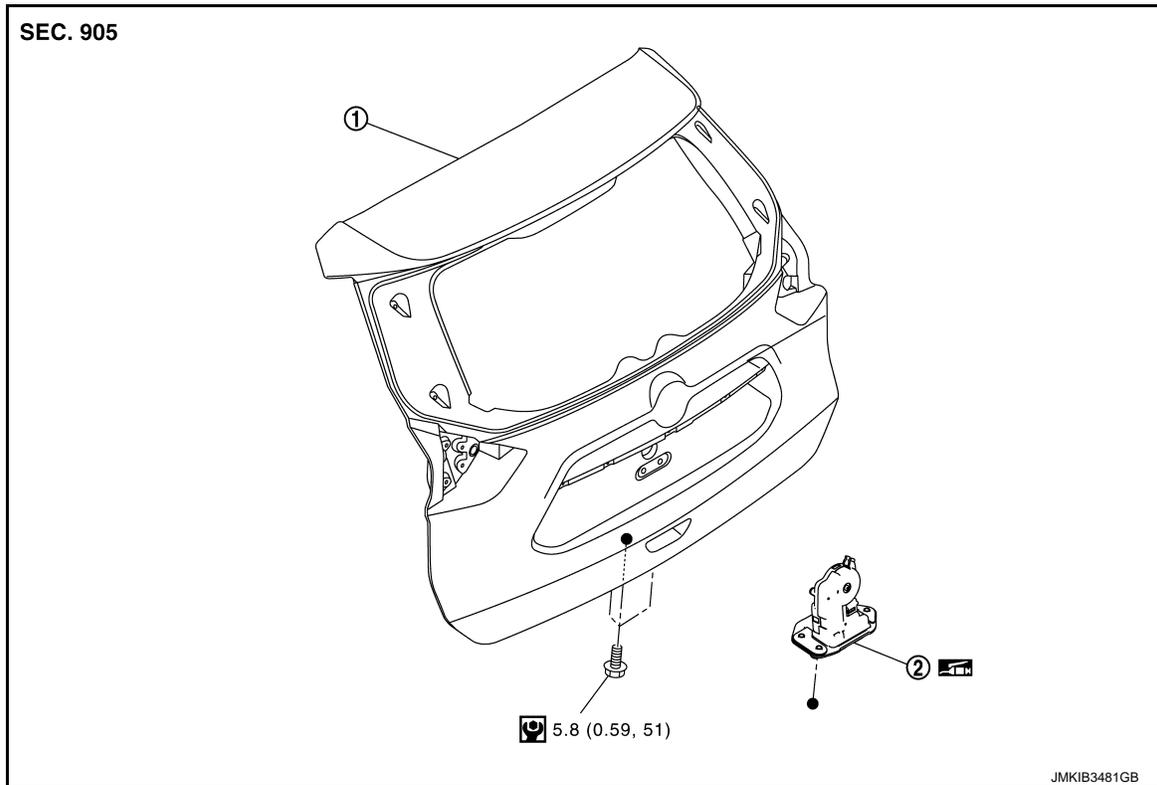
< REMOVAL AND INSTALLATION >

[TYPE 3]

BACK DOOR LOCK

Exploded View

INFOID:000000010728593



① Back door panel

② Back door lock assembly

 : N·m (kg-m, in-lb)

 : Body grease

●: Indicates that the part is connected at points with same symbol in actual vehicle.

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000010728594

REMOVAL

1. Remove back door inner finisher. Refer to [INT-47, "Removal and Installation"](#).
2. Disconnect back door lock assembly harness connector.
3. Remove back door lock assembly mounting bolts, and then remove back door lock assembly from back door panel.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check back door lock. Refer to [DLK-782, "DOOR LOCK : Inspection"](#).

DOOR LOCK : Inspection

INFOID:000000010728595

1. After opening and closing the back door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.

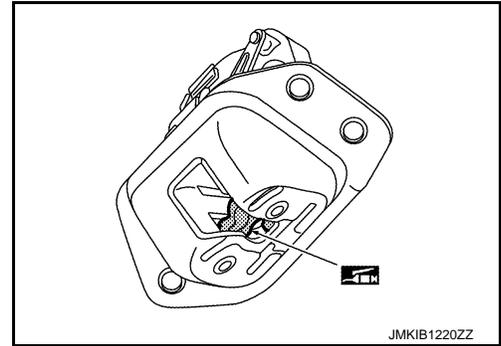
BACK DOOR LOCK

[TYPE 3]

< REMOVAL AND INSTALLATION >

3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

 : Body grease



DOOR LOCK : Unlock procedures

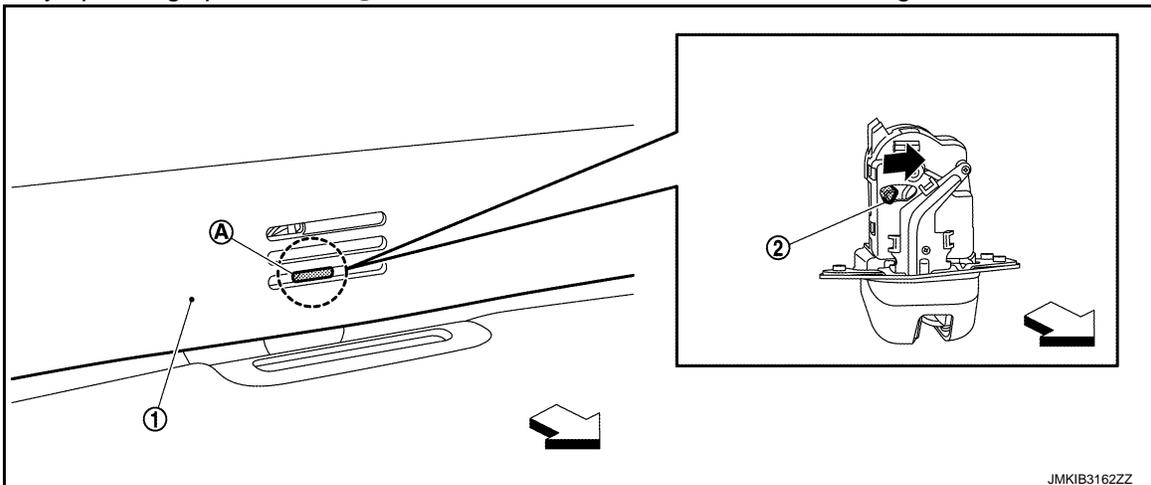
INFOID:000000010728596

UNLOCK PROCEDURES

NOTE:

Release lock according to the following procedures when lock cannot be unlocked due to a malfunction of door lock assembly or battery discharge.

Insert a screwdriver, etc. into tool insertion hole (A) of back door inner finisher (1), and then back door lock is unlocked by operating opener lever (2) in the direction of arrow as shown in the figure.



 : Vehicle front

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FUEL FILLER LID OPENER

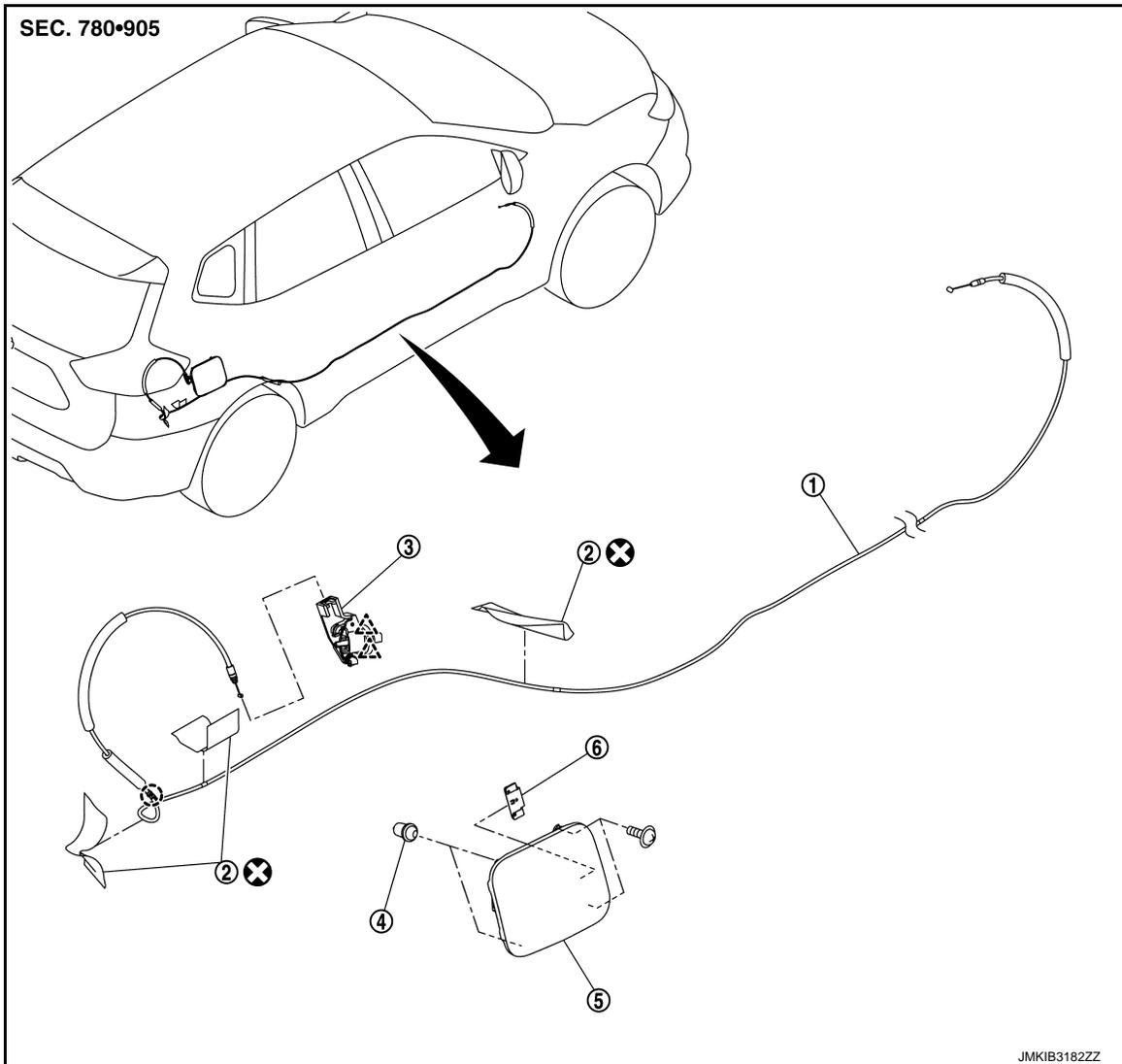
< REMOVAL AND INSTALLATION >

[TYPE 3]

FUEL FILLER LID OPENER

Exploded View

INFOID:000000010728599



- | | | |
|--------------------------------|----------------------------|---------------------------------|
| ① Fuel filler lid opener cable | ② Cable protector | ③ Fuel filler lid lock assembly |
| ④ Bumper rubber | ⑤ Fuel filler lid assembly | ⑥ Spring |
- : Clip
△ : Pawl
⊗ : Always replace after every disassembly.

FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

INFOID:000000010728600

REMOVAL

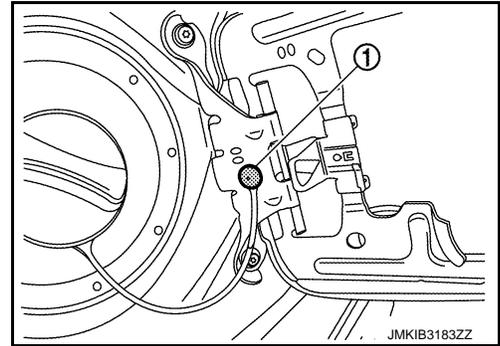
1. Fully open fuel filler lid.

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[TYPE 3]

- Remove fuel mounting pin ①.



- Remove mounting bolts, and then remove fuel filler lid assembly.

INSTALLATION

Note the following items, and then 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.
- After installation, check fuel filler lid assembly open/close, lock/unlock operation.

NOTE:

- The following table shows the specified values for checking normal installation status.
- Fitting adjustment cannot be performed.

Unit: mm [in]

	Clearance	Evenness
Fuel filler lid – Body side outer	2.5 – 4.5 [0.098 – 0.177]	(-1.0) – (+1.0) [(-0.039) – (+0.039)]

FUEL FILLER LID LOCK

FUEL FILLER LID LOCK : Removal and Installation

INFOID:000000010728601

REMOVAL

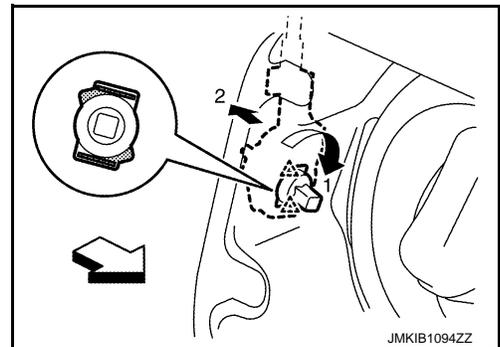
- Fully open fuel filler lid.
- Remove luggage side lower finisher RH. Refer to [INT-43. "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).

- Rotate fuel filler lid lock assembly to disengage pawls and remove fuel filler lid lock assembly according to the numerical order 1→2 indicated by arrows as shown in the figure.

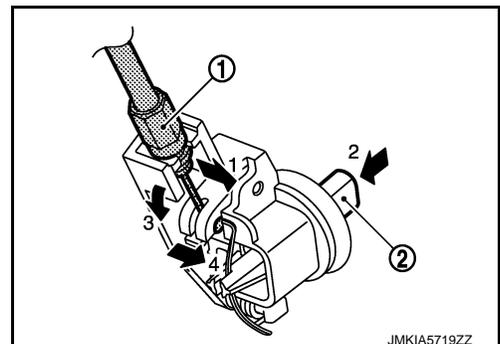
NOTE:

Operation is performed easily when rotating fuel filler lid lock from passenger room side.

-  : Pawl
 : Vehicle front



- Disengage fuel filler lid opener cable ① and remove fuel filler lid opener cable while pressing stopper pin ② according to the numerical order 1→4 indicated by arrows as shown in the figure.



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FUEL FILLER LID OPENER

[TYPE 3]

< REMOVAL AND INSTALLATION >

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

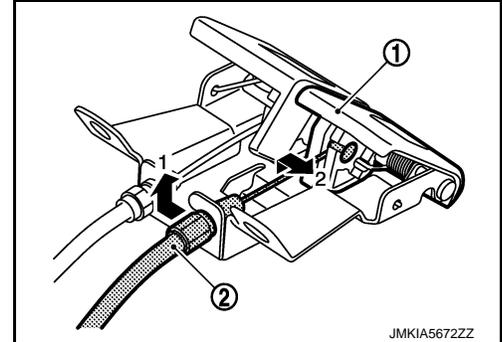
FUEL FILLER OPENER CABLE

FUEL FILLER OPENER CABLE : Removal and Installation

INFOID:000000010728602

REMOVAL

1. Remove hood lock control handle mounting bolts, and then hood lock control handle. Refer to [DLK-770. "HOOD LOCK CONTROL HANDLE : Removal and Installation"](#).
2. Remove fuel filler lid opener cable ② from fuel filler lid opener lever ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



3. Remove kicking plate inner RH and rear kicking plate inner RH. Refer to [INT-24. "KICKING PLATE : Removal and Installation"](#).
4. Remove dash side finisher RH. Refer to [INT-26. "DASH SIDE FINISHER : Removal and Installation"](#).
5. Remove center pillar lower garnish RH. Refer to [INT-27. "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).
6. Remove luggage side lower finisher RH. Refer to [INT-43. "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).
7. Remove fuel filler lid opener cable from fuel filler lid lock assembly. Refer to [DLK-785. "FUEL FILLER LID LOCK : Removal and Installation"](#).
8. Remove fuel filler lid opener cable from harness protectors.
9. Remove fuel filler lid opener cable fixing clips, and then remove fuel filler lid opener cable.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

DOOR SWITCH

< REMOVAL AND INSTALLATION >

[TYPE 3]

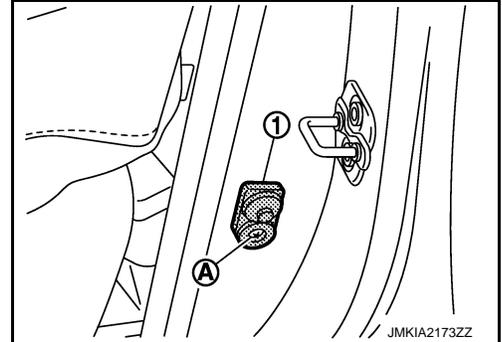
DOOR SWITCH

Removal and Installation

INFOID:000000010708478

REMOVAL

1. Remove the TORX bolt (A).
2. Disconnect door switch harness connector and then remove door switch (1).



INSTALLATION

Install in the reverse order of removal.

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DOOR LOCK STATUS INDICATOR

< REMOVAL AND INSTALLATION >

[TYPE 3]

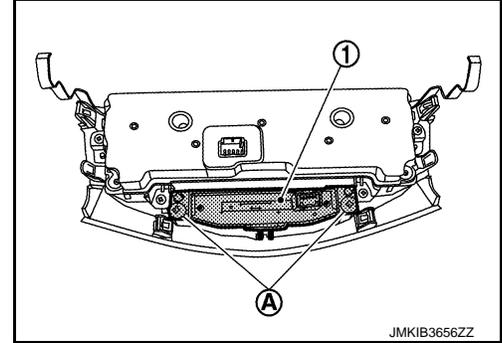
DOOR LOCK STATUS INDICATOR

Removal and Installation

INFOID:000000010735504

REMOVAL

1. Remove A/C control. Refer to [HAC-125. "Removal and Installation"](#).
2. Remove door lock status indicator mounting bolt(A), and then remove door lock status indicator(1).



JMKIB3656ZZ

INSTALLATION

Install in the reverse order of removal.

KEYFOB BATTERY

< REMOVAL AND INSTALLATION >

[TYPE 3]

KEYFOB BATTERY

Removal and Installation

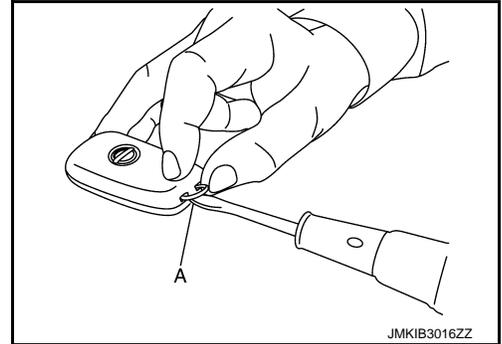
INFOID:000000010708479

REMOVAL

1. Insert a flat-blade screwdriver (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.

CAUTION:

- Do not touch the circuit board or battery terminal.
- The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.



2. Replace the battery with new one.

Battery replacement

**:Coin-type lithium battery
(CR2032)**

CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, check that all Intelligent Key functions work normally.

INSTALLATION

Install in the reverse order of removal.

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HOW TO USE THIS MANUAL

APPLICATION NOTICE

Information

INFOID:0000000010713104

Check the vehicle type to use the service information in this section.

Service information	Destination		
	Handle	Intelligent Key system	Super lock function
Type 1	RHD	With	With
Type 2	LHD	With	Without
Type 3	RHD	Without	With
Type 4	LHD	Without	Without

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000010754997

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 "SRS AIR BAG".
- Never 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.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

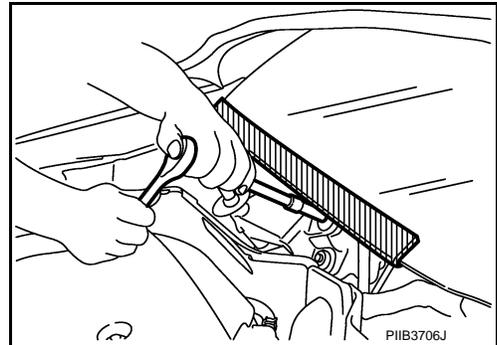
Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution for Procedure without Cowl Top Cover

INFOID:000000010754998

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



Precautions for Removing Battery Terminal

INFOID:000000010754999

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.

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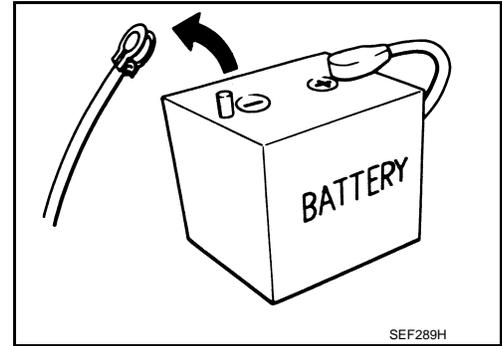
PRECAUTIONS

[TYPE 4]

< PRECAUTION >

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

D4D engine	: 20 minutes	ZD30DDTi	: 60 seconds
HRA2DDT	: 12 minutes	ZD30DDTT	: 60 seconds
K9K engine	: 4 minutes		
M9R engine	: 4 minutes		
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		
YD25DDTi	: 2 minutes		



NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:

- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
 - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
 - Driving for 30 minutes or more on a steep slope.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.

Work

INFOID:000000010755000

- 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 >

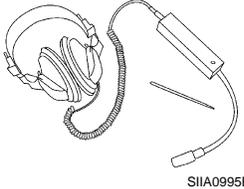
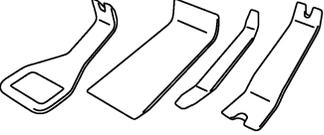
[TYPE 4]

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000010755001

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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COMPONENT PARTS

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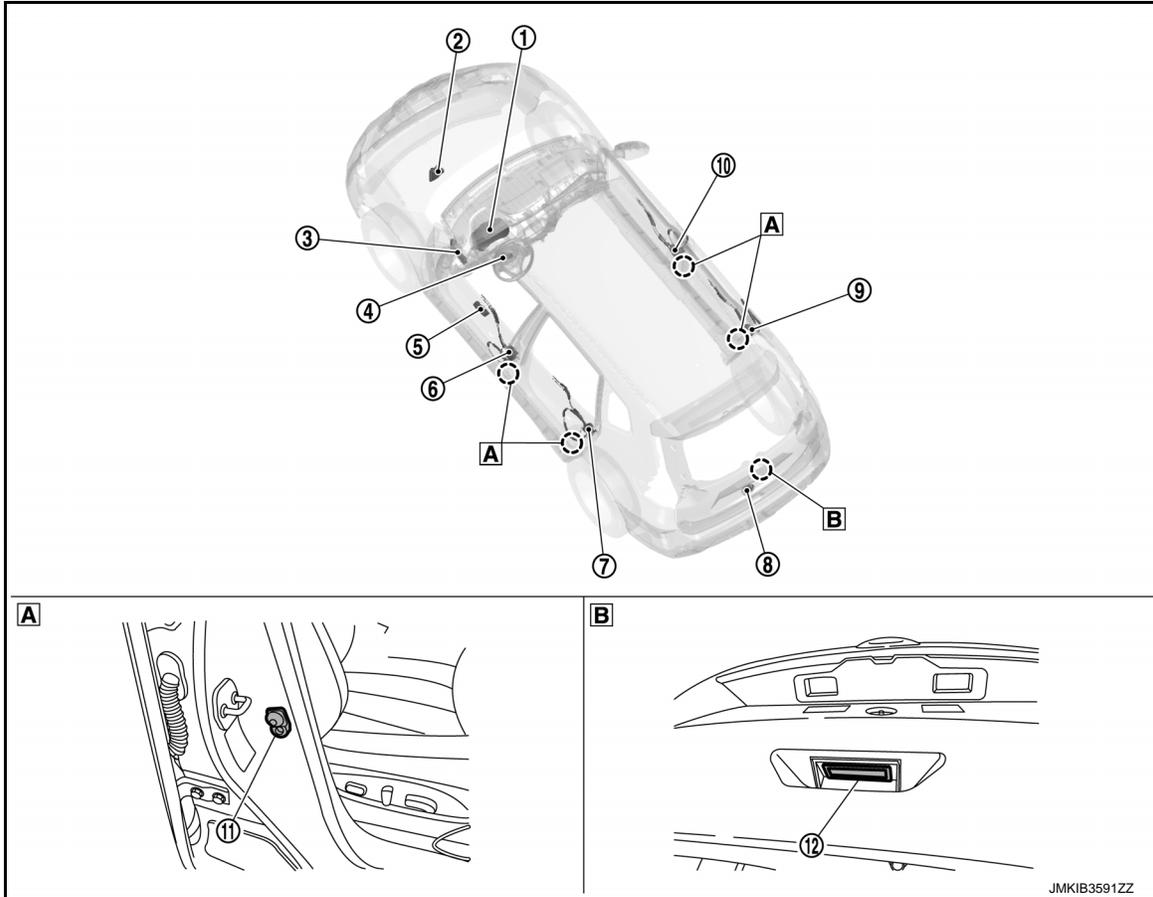
[TYPE 4]

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000010755002



A View with door opened

B View with back door panel

No.	Component	Function
①	Combination meter	<ul style="list-style-type: none"> Performs operation method guide and warning with buzzer. Transmits vehicle speed signal to CAN communication line.
②	TCM	Transmits shift position signal to BCM via CAN communication line. Refer to TM-235, "CVT CONTROL SYSTEM : Component Parts Location" for detailed installation location.
③	BCM	BCM detects the vehicle status according to signals from each door switch. BCM transmits drive signal to door lock actuator when BCM receives operation signal from remote keyless entry receiver (integrated in BCM). Refer to BCS-6, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
④	Ignition key cylinder (key switch)	DLK-796, "Ignition Key Cylinder"
⑤	Power window main switch (door lock and unlock switch)	DLK-796, "Door Lock and Unlock Switch"
⑥	Front door lock assembly (driver side)	DLK-795, "Door Lock Assembly"
⑦	Rear door lock assembly LH	DLK-795, "Door Lock Assembly"
⑧	Back door lock assembly	DLK-795, "Back Door Lock Assembly"

COMPONENT PARTS

< SYSTEM DESCRIPTION >

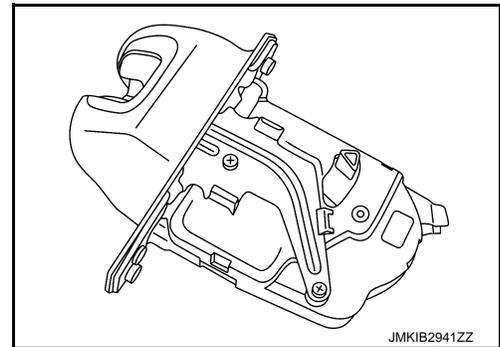
[TYPE 4]

No.	Component	Function
⑨	Rear door lock assembly RH	DLK-795, "Door Lock Assembly"
⑩	Front door lock assembly (passenger side)	DLK-795, "Door Lock Assembly"
⑪	Door switch	DLK-796, "Door Switch"
⑫	Back door opener switch assembly	DLK-795, "Back Door Opener Switch Assembly"

Back Door Lock Assembly

INFOID:000000010755003

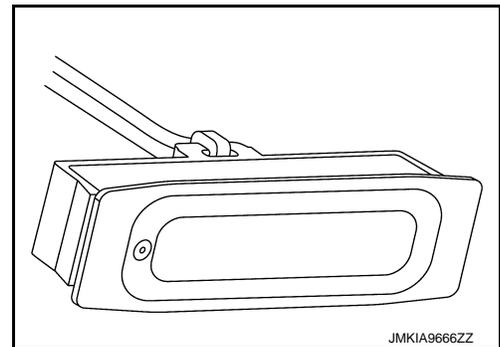
- Back door lock assembly integrates back door opener actuator and back door switch.
- Back door opener actuator opens the back door according to the back door open signal from BCM.
- Back door switch detects open/close status of back door.
- Back door lock assembly is installed in the back door panel.



Back Door Opener Switch Assembly

INFOID:000000010755004

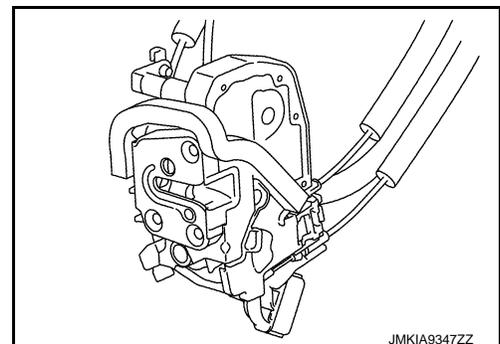
- Back door opener switch assembly integrates back door opener switch.
- Back door opener switch detects open operation of back door and transmits back door opener switch signal to BCM.
- Back door opener switch assembly is installed in the back door panel.



Door Lock Assembly

INFOID:000000010755005

- Door lock actuator and unlock sensor are integrated in front door lock assembly (driver side).
- Door lock actuator receives lock/unlock signal from BCM, and then locks/unlocks door.
- Only front door lock assembly (driver side) integrates unlock sensor. Unlock sensor transmits lock/unlock status of driver side door to BCM.



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COMPONENT PARTS

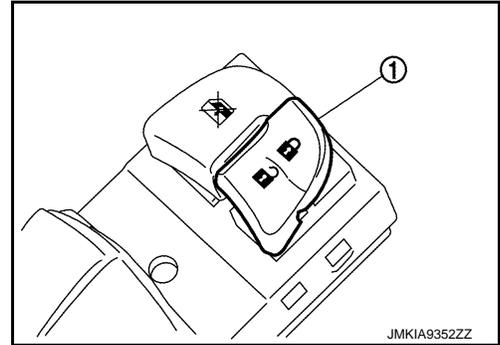
< SYSTEM DESCRIPTION >

[TYPE 4]

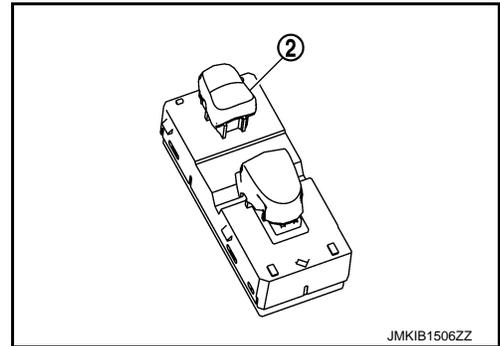
Door Lock and Unlock Switch

INFOID:000000010755006

- Door lock and unlock switch transmits door lock/unlock signal operation to BCM.
- Door lock and unlock switch ① is integrated in the power window main switch.



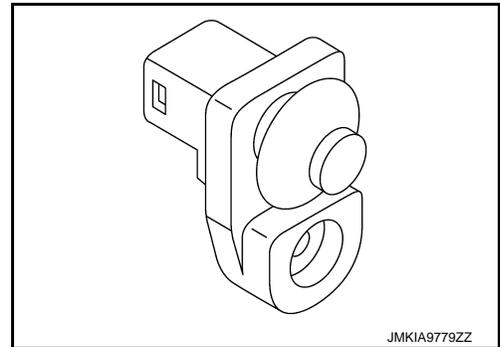
- Passenger side door lock and unlock switch ② is integrated in front power window switch (passenger side).



Door Switch

INFOID:000000010755007

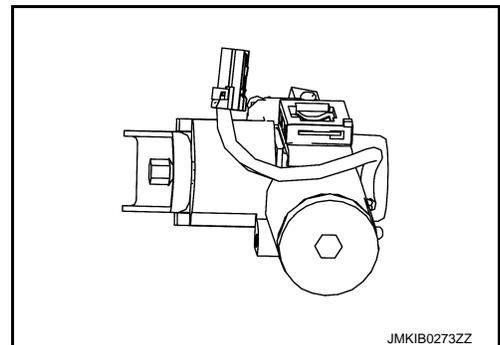
Detects door open/close condition.



Ignition Key Cylinder

INFOID:000000010755008

- Key switch is installed in ignition key cylinder.
- Key switch detects ignition key or keyfob is inserted in ignition key cylinder, and then transmits key insertion status to BCM.



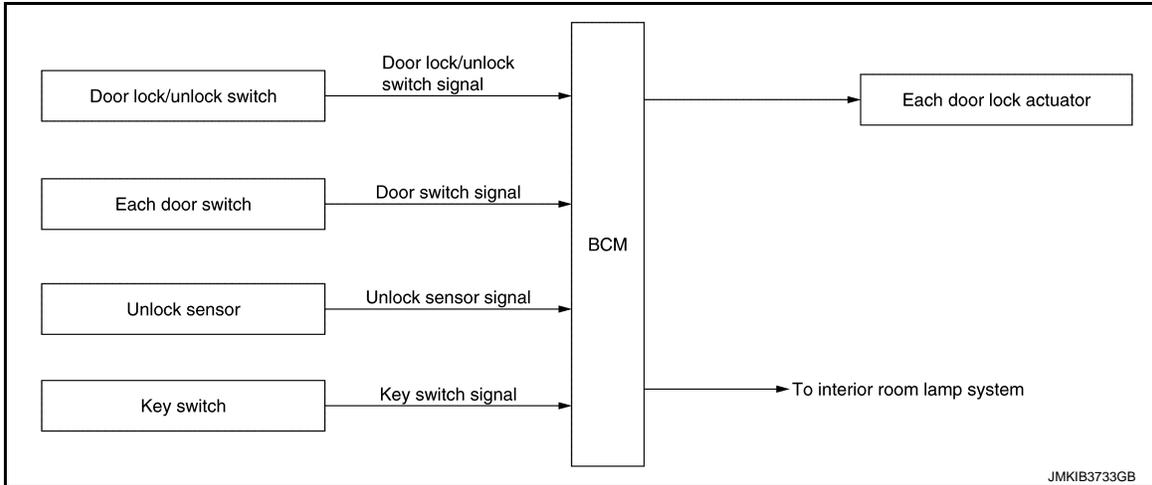
SYSTEM

POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : System Description

INFOID:0000000010755009

SYSTEM DIAGRAM



DOOR LOCK FUNCTION

Door Lock and Unlock Switch

- The door lock and unlock switch is built into power window main switch.
- Interlocked with the locking operation of door lock and unlock switch, door lock actuator of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuator of all doors are unlocked.

Unlock Sensor

- BCM locks all doors or unlocks all doors, when driver door lock knob is operated.
- With the mechanical key inserted in the door key cylinder on driver side, turning it to lock position, locks door lock actuator of all doors.
- With the mechanical key inserted in the door key cylinder on driver side, turning it to unlock position once unlocks the driver door, turning it to unlock position again within 5 seconds after the first unlock operation unlocks all of the other doors actuator. (Anti-hijack function operation)

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Anti-hijack function operation mode can be changed using CONSULT. Refer to [DLK-808. "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\) \(Without Intelligent Key System and Super Lock\)".](#)

Operation Condition

If all of the following conditions are satisfied, door lock and unlock operation is performed using the door lock and unlock switch.

Door lock and unlock switch operation	Operation condition
LOCK/UNLOCK	<ul style="list-style-type: none"> • Doors are not locked by keyfob and auto door lock function • Ignition position warning function is not activated

KEY REMINDER FUNCTION

- While ignition key is inserted in ignition key cylinder and driver door is open, door is not locked when door lock and unlock switch is pressed in the lock direction. This prevents keyfob from being left in the vehicle.
- While door lock and unlock switch is pressed in the lock direction, combination meter buzzer sounds and warns.

INTERIOR ROOM LAMP CONTROL FUNCTION

Interior room lamp is controlled according to door lock/unlock state, refer to [INL-11. "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description"](#)

OVERRIDE FUNCTION

SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 4]

When inside handle of driver door is operated while doors are in lock states, lock state of the applicable door lock becomes invalid and the door is open.

UNLOCK LINK FUNCTION

When driver door is opened using the override function, all doors are unlocked.

Unlock function operates when driver door is open while all of the following conditions are satisfied.

Operation condition	<ul style="list-style-type: none">• Doors are locked by door lock/unlock switch or by automatic lock/unlock function• Driver side door switch is switched from OFF to ON• Anti-hijack function is not activated• Vehicle speed is 5 km/h (3 MPH) or less
---------------------	---

NOTE:

When anti-hijack function is activated, only the applicable door is unlocked.

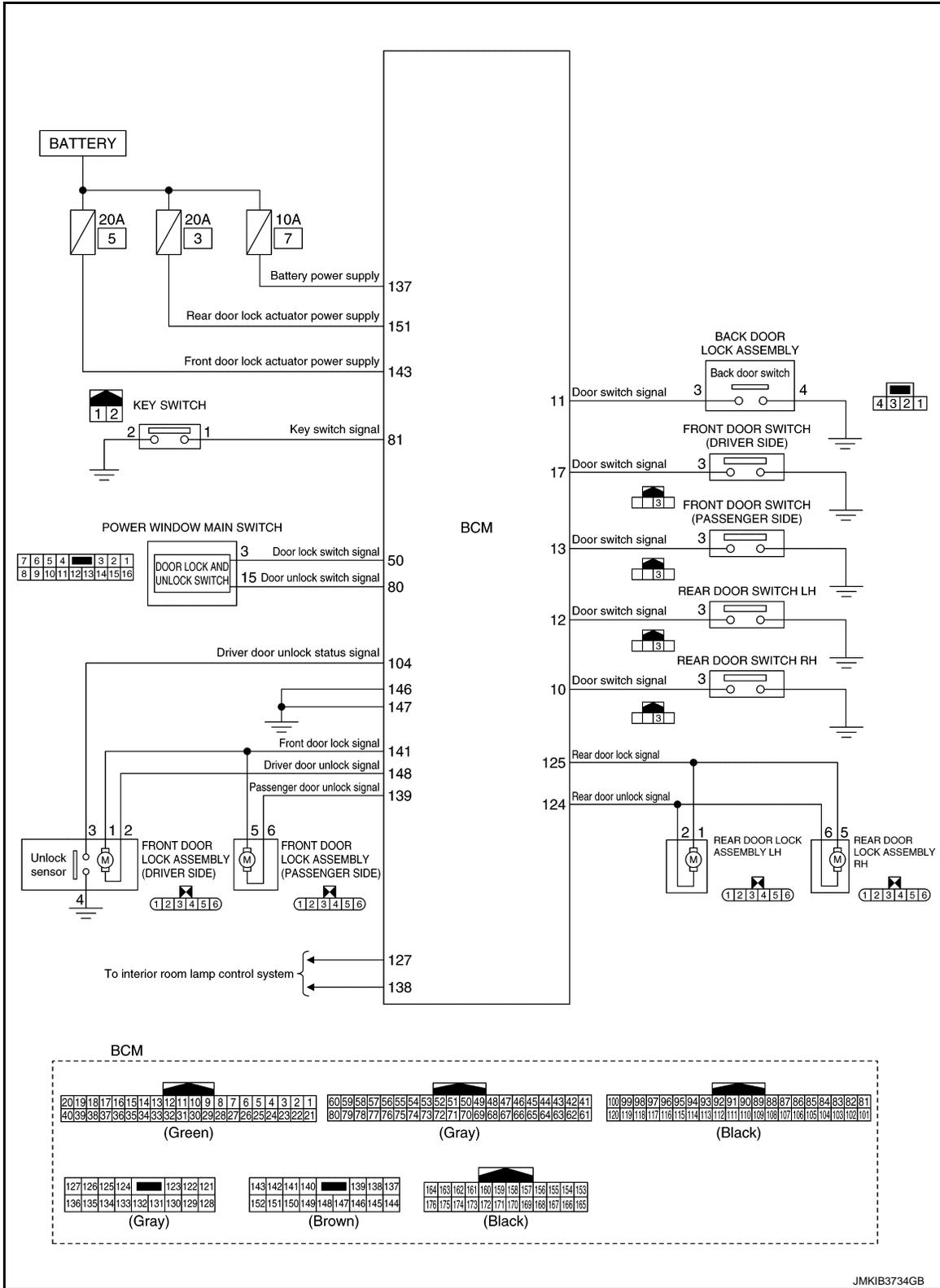
SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 4]

POWER DOOR LOCK SYSTEM : Circuit Diagram

INFOID:000000010755010



JMKIB3734GB

REMOTE KEYLESS ENTRY SYSTEM

SYSTEM

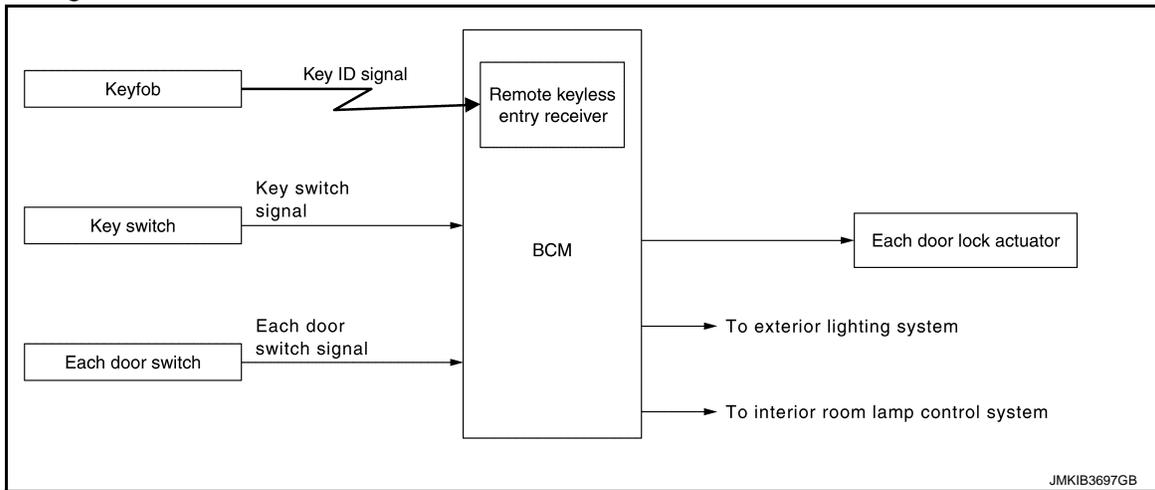
< SYSTEM DESCRIPTION >

[TYPE 4]

REMOTE KEYLESS ENTRY SYSTEM : System Description

INFOID:000000010755011

System Diagram



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 via remote keyless entry receiver.
- When BCM receives the door lock and unlock signal, it operates door lock actuator, brinks the hazard lamp at the same time as a reminder.

OPERATION CONDITION

If the following conditions are satisfied, door lock/unlock operation is performed if the keyfob is operated.

Remote controller operation	Operation condition
Lock	<ul style="list-style-type: none"> • Key switch is off • All doors are closed
Unlock	Key switch is off

OPERATION AREA

To ensure that the keyfob works effectively, use within 1 m (3 ft) range of each door, however the operable range may differ according to surroundings.

ANTI-HIJACK FUNCTION

- When an LOCK signal is transmitted from keyfob, all doors are locked.
- When an UNLOCK signal is transmitted from keyfob once, driver side door is unlocked.
- Then, if an UNLOCK signal is transmitted from keyfob again, all other doors are unlocked.

How to change anti-hijack mode.

Ⓟ With CONSULT

Anti-hijack mode can be set to ON or OFF using CONSULT.

Refer to [DLK-808, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\) \(Without Intelligent Key System and Super Lock\)"](#).

ⓧ Without CONSULT

- ON/OFF can be switched when keyfob lock button and unlock button are pressed simultaneously for 5 seconds or more while steering lock is locked.
- When mode is switched, hazard warning lamp blinks.

OFF → ON : 1 blinks

ON → OFF : 3 blink

REMINDER FUNCTION

Operation Description

When doors are locked or unlocked by keyfob button operation, BCM blinks hazard warning lamps as a reminder.

SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 4]

Door lock operation (With keyfob button)	Hazard warning lamp blink
Lock	Once
Unlock (all door unlock)	Twice
Unlock (anti-hijack operation)	Twice (quick)

A

B

AUTO DOOR LOCK FUNCTION

After door is unlocked by keyfob button operation and if 30 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.

C

Operating condition	
	<ul style="list-style-type: none">• Door switch is ON (door is open)• Door is locked• Key switch is ON

D

Auto door lock mode can be changed by the "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [DLK-809. "MULTI REMOTE ENT : CONSULT Function \(BCM - MULTI REMOTE ENT\) \(Without Super Lock\)".](#)

E

INTERIOR ROOM LAMP CONTROL FUNCTION

Interior room lamp is controlled according to door lock/unlock state, refer to [INL-11. "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description".](#)

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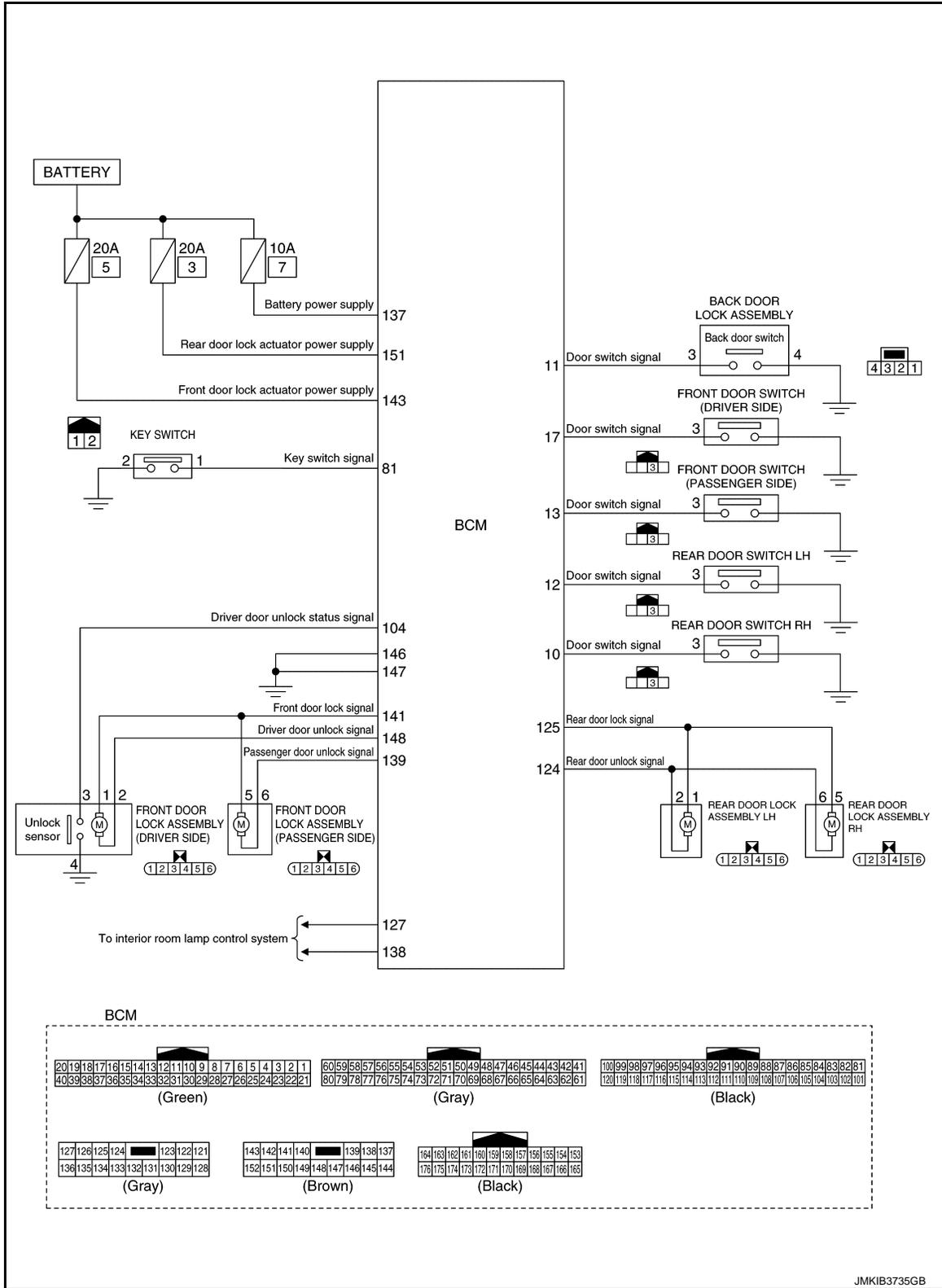
SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 4]

REMOTE KEYLESS ENTRY SYSTEM : Circuit Diagram

INFOID:000000010755012



BACK DOOR OPENER SYSTEM

SYSTEM

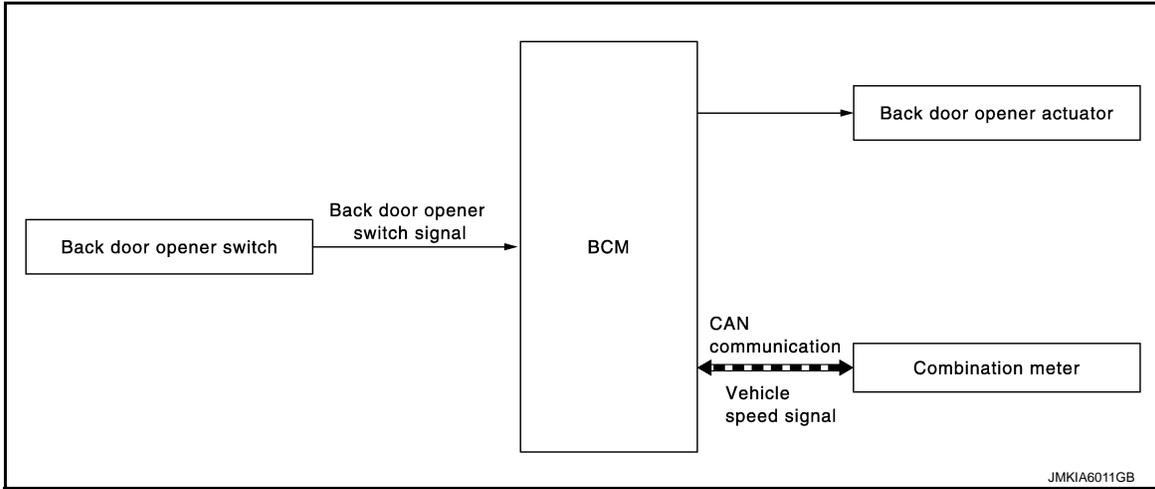
< SYSTEM DESCRIPTION >

[TYPE 4]

BACK DOOR OPENER SYSTEM : System Description

INFOID:000000010755013

SYSTEM DIAGRAM



BACK DOOR OPENER OPERATION

When back door opener switch is pressed, BCM operates 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 is performed.

Back door opener switch operation	Operation condition
Back door open	<ul style="list-style-type: none"> When back door opener switch is pressed while all doors are in unlock status. Vehicle speed is less than 5 km/h (3 MPH)

NOTE:

- When battery terminal is disconnected and reconnected during all doors unlock state, back door may not open.
- Regardless of door lock actuator state, BCM resets recognition of all doors unlock state approximately 30 seconds after battery terminal is disconnected and BCM recognizes that all doors are in lock state.
- When battery terminal is reconnected and back door does not open, have BCM recognize that all doors are in unlock state.

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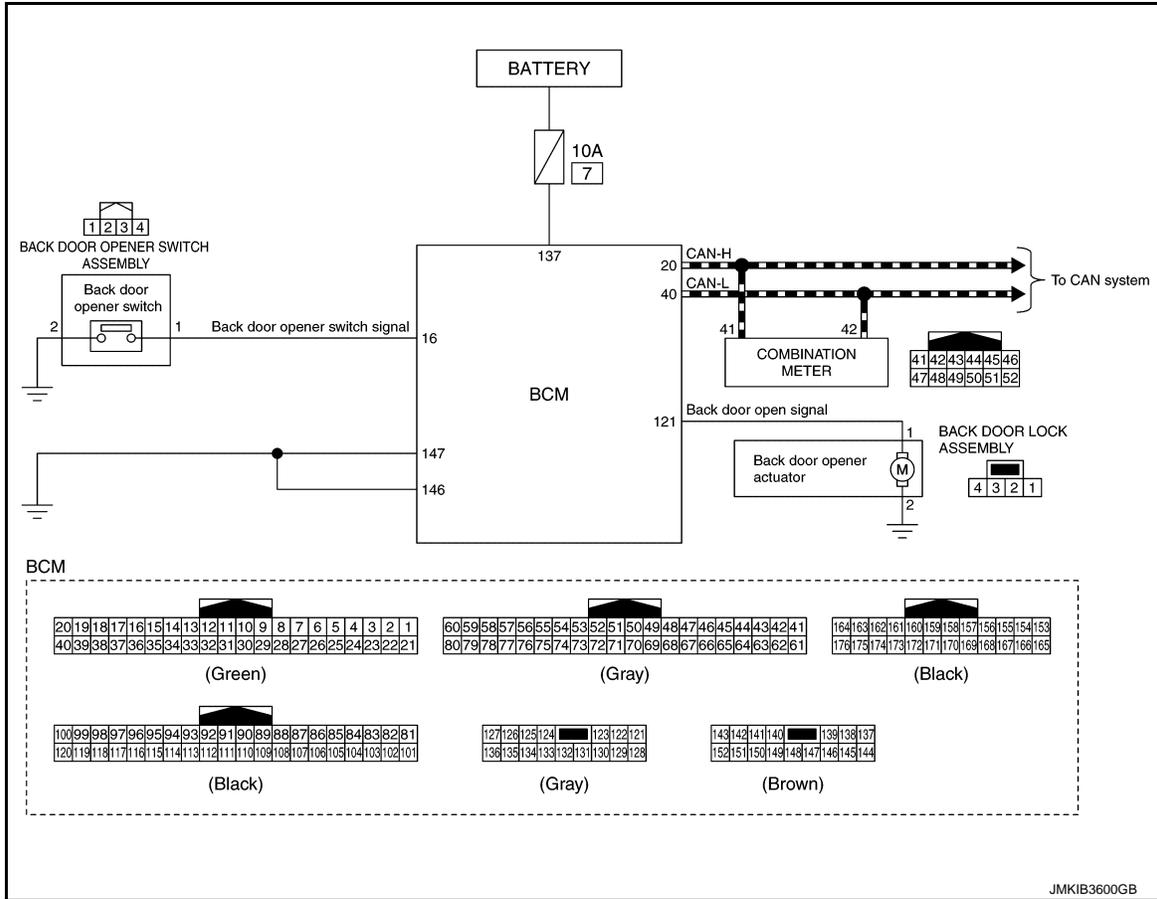
SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 4]

BACK DOOR OPENER SYSTEM : Circuit Diagram

INFOID:000000010755014



JMKIB3600GB

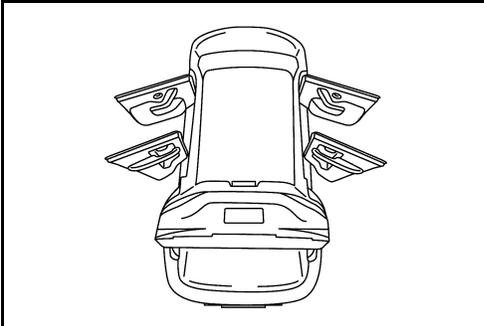
INFORMATION DISPLAY (COMBINATION METER)

INFORMATION DISPLAY (COMBINATION METER) : Door Open Warning

INFOID:000000010755015

DESIGN/PURPOSE

Information display warns the driver that each door or trunk lid is open or is not fully closed.

Symbol	Message
 <p style="text-align: right; font-size: small;">JMKIB2780ZZ</p>	-

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

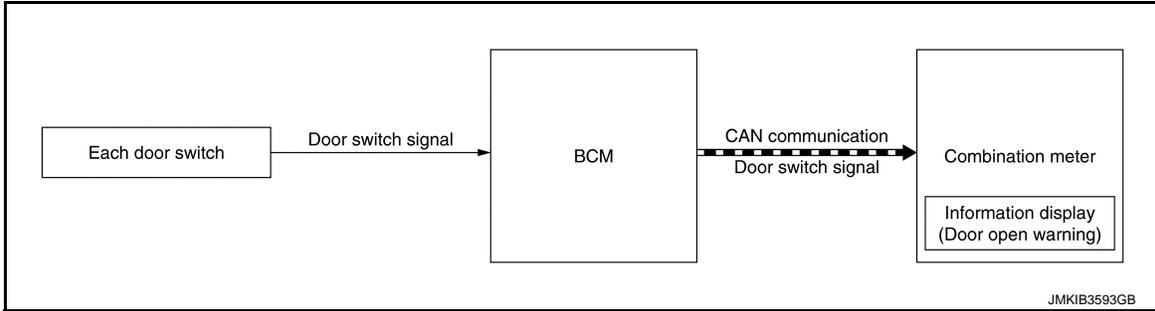
Refer to [MWI-47, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 4]

SYSTEM DIAGRAM



SIGNAL PATH

- BCM transmits door switch signal to combination meter via CAN communication.
- When combination meter judges according to received door switch signal that a door is open or not fully closed, door open warning displays.

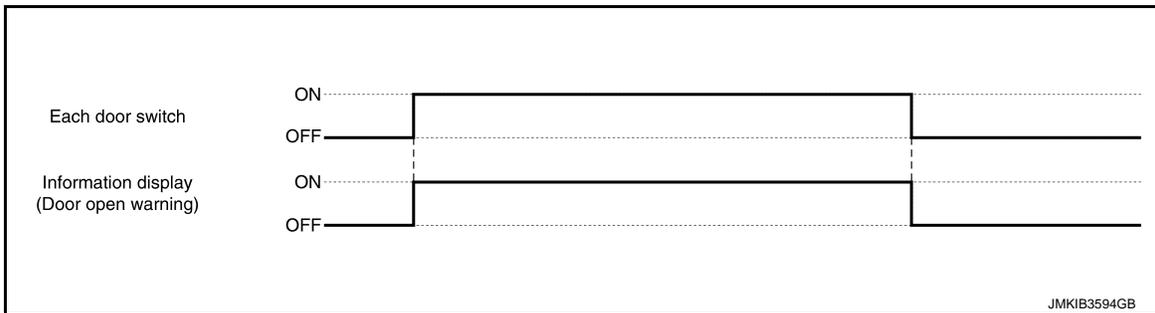
WARNING/INDICATOR OPERATING CONDITION

Each door switch is ON

WARNING/INDICATOR CANCEL CONDITION

All door switches are OFF

TIMING CHART



INFORMATION DISPLAY (COMBINATION METER) : Key System Malfunction

INFOID:000000010755016

DLK

DESIGN/PURPOSE

Information display warns the driver that engine cannot be started.

Symbol	Message
 <p>JMKIB1398ZZ</p>	<p>Key System Error See Owner's Manual</p>

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

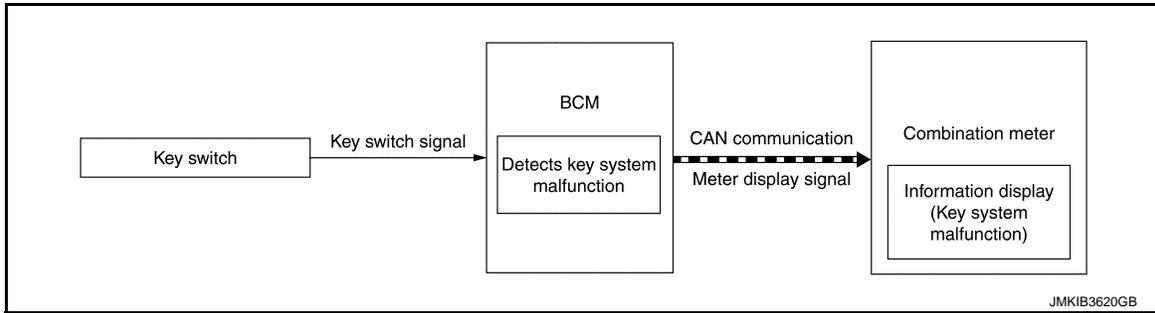
Refer to [MWI-47, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp"](#).

SYSTEM

< SYSTEM DESCRIPTION >

[TYPE 4]

SYSTEM DIAGRAM



SIGNAL PATH

- When BCM detects that the engine cannot be started, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, key system malfunction displays.

WARNING/INDICATOR OPERATING CONDITION

The engine cannot be started.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

- Engine non-start status is resolved.
- Ignition switch is turned to LOCK or OFF, and 15 seconds are passed.

WARNING/INDICATOR/CHIME LIST

WARNING/INDICATOR/CHIME LIST : Warning Lamp/Indicator (Information Display)

INFOID:000000010755017

Item	Reference
Door open warning	Refer to DLK-804, "INFORMATION DISPLAY (COMBINATION METER) : Door Open Warning"
Key system malfunction	Refer to DLK-805, "INFORMATION DISPLAY (COMBINATION METER) : Key System Malfunction"

WARNING/INDICATOR/CHIME LIST : Warning Chime

INFOID:000000010755018

Item	Reference
Key warning chime	Refer to WCS-11, "WARNING CHIME : Key Warning Chime (Without Intelligent Key System)" .

DIAGNOSIS SYSTEM (BCM)

[TYPE 4]

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010869007

APPLICATION ITEM

CONSULT 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.
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"> Read and save the vehicle specification. 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
Door lock	DOOR LOCK	×	×	
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Exterior lamp	HEAD LAMP	×	×	×
Interior room lamp control	INT LAMP		×	
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	
—	AIR CONDITONER*		×	×
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	
Interior room lamp battery saver	BATTERY SAVER		×	
Back door open	TRUNK		×	
Vehicle security	THEFT ALM	×	×	
RAP	RETAINED PWR		×	
Remote keyless entry system	MULTI REMOTE ENT	×	×	
Signal buffer system	SIGNAL BUFFER		×	×

NOTE:

*: This item is displayed, but not used.

FREEZE FRAME DATA (FFD)

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 4]

CONSULT screen item	Indication/Unit	Description
BATTERY VOLTAGE	V	Battery voltage of the moment a particular DTC is detected.
VEHICLE SPEED	km/h	Vehicle speed of the moment a particular DTC is detected.
EXTERNAL TEMP	°C	External temperature of the moment a particular DTC is detected
VEHICLE COND	—	NOTE: This item is displayed, but cannot be use this item.
DOOR LOCK STATUS	—	NOTE: This item is displayed, but cannot be use this item.
POWER SUPPLY COUNTER	min	Displays the cumulative time from the time that the battery terminal is connected.

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK) (Without Intelligent Key System and Super Lock)

INFOID:0000000010755020

WORK SUPPORT

Monitor item	Description
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operation with this mode <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
AUTO UNLOCK TYPE	NOTE: This item is displayed, but cannot be used
SIGNATURE LIGHT SETTING	Signature light function can be changed to operation with this mode <ul style="list-style-type: none"> • On: Operate • Off: Non-operation

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Contents
DOOR SW-DR	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK	Indicated [On/Off] condition of back door switch
CDL LOCK SW	Indicated [On/Off] condition of lock signal from door lock unlock switch
CDL UNLOCK SW	Indicated [On/Off] condition of unlock signal from door lock unlock switch
KEY CYL LK-SW	NOTE: This item is displayed, but cannot be monitored
KEY CYL UN-SW	NOTE: This item is displayed, but cannot be monitored
SHOCK SENSOR	NOTE: This item is displayed, but cannot be monitored
KEY SW	Indicated [On/Off] condition of key switch

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[TYPE 4]

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation <ul style="list-style-type: none"> • The all door lock actuators are locked when "ALL LOCK" on CONSULT screen is touched • The all door lock actuators are unlocked when "ALL UNLK" on CONSULT screen is touched
SUPER LOCK	NOTE: This item is displayed, but cannot be monitored
DOOR LOCK IND	NOTE: This item is displayed, but cannot be monitored

MULTI REMOTE ENT

MULTI REMOTE ENT : CONSULT Function (BCM - MULTI REMOTE ENT) (Without Super Lock)

INFOID:000000010755179

WORK SUPPORT

Test item	Description
AUTO LOCK SET	Auto door lock time can be changed in this mode <ul style="list-style-type: none"> • MODE 1: Non-operation • MODE 2: 30 sec. • MODE 3: 1 minute • MODE 4: 2 minute • MODE 5: 3 minute • MODE 6: 4 minute • MODE 7: 5 minute
ANSWER BACK	NOTE: This item is displayed, but cannot be used
ANSWER BACK KEYLESS LOCK UNLOCK	NOTE: This item is displayed, but cannot be used
WELCOME LIGHT OP SET	NOTE: This item is displayed, but cannot be used

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition
CONFRM ID ALL	Indicates [Yet] at all time.Switches to [Done] when a registered key is inserted into ignition key cylinder.
CONFRM ID4	
CONFRM ID3	
CONFRM ID2	
CONFRM ID1	
NOT REGISTERED	Indicates [ID OK] when key ID that is registered is received or is not yet received. Indicates [ID NG] when key ID that is not registered is received.
TP 4	Indicates the number of IDs that are registered.
TP 3	
TP 2	
TP 1	
CLUTCH SW*1	Indicates [On/Off] condition of clutch interlock switch
BRAKE SW 1	Indicates [On/Off]*2 condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
START CLUTCH SW	Indicates [On/Off] condition of clutch pedal position switch

DIAGNOSIS SYSTEM (BCM)

[TYPE 4]

< SYSTEM DESCRIPTION >

Monitor Item	Condition
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	NOTE: This item is displayed, but cannot be monitored
STOP/START SW	Indicates [On/Off] condition of stop/start off switch
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from keyfob
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from keyfob
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored
RKE-PANIC	NOTE: This item is displayed, but cannot be monitored
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from keyfob
KEY SW	Indicates [On/Off] condition of key switch
IGN SW	Indicates [On/Off] condition of ignition switch in ON position
START SW	Indicates [On/Off] condition of ignition switch in START position

*1: It is displayed but does not operate on CVT models.

*2: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description
FLASHER	This test is able to check flasher operation [LH/RH/Off]
HORN	NOTE: This item is displayed, but cannot be used
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) <ul style="list-style-type: none"> • On: Operates • Off: Non-operation
MIRROR+5	NOTE: This item is displayed, but cannot be used
TRUNK/BACK DOOR	NOTE: This item is displayed, but cannot be used
RETRACTABLE MIRROR	NOTE: This item is displayed, but cannot be used
AUTO ACC 2	This test is able to check BCM sends power supply to audio unit or NAVI control unit <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
AUTO ACC 1	This test is able to check BCM sends power supply to ignition relay <ul style="list-style-type: none"> • On: Operate • Off: Non-operation
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk/luggage room lamp operation <ul style="list-style-type: none"> • On: Operates • Off: Non-operation

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK) (Without Intelligent Key System and Super Lock)

INFOID:000000010755022

DATA MONITOR

NOTE:

DIAGNOSIS SYSTEM (BCM)

[TYPE 4]

< SYSTEM DESCRIPTION >

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Contents
STARTER CUT RELAY	Indicates [On/Off] condition of starter control relay
KEY CYL SW-TR	NOTE: This item is displayed, but cannot be monitored
TR CANCEL SW	NOTE: This item is displayed, but cannot be monitored
TRUNK LID OPENER SW	NOTE: This item is displayed, but cannot be monitored
BACK DOOR OPENER SW	Indicates [On/Off] condition of back door opener switch
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored

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ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

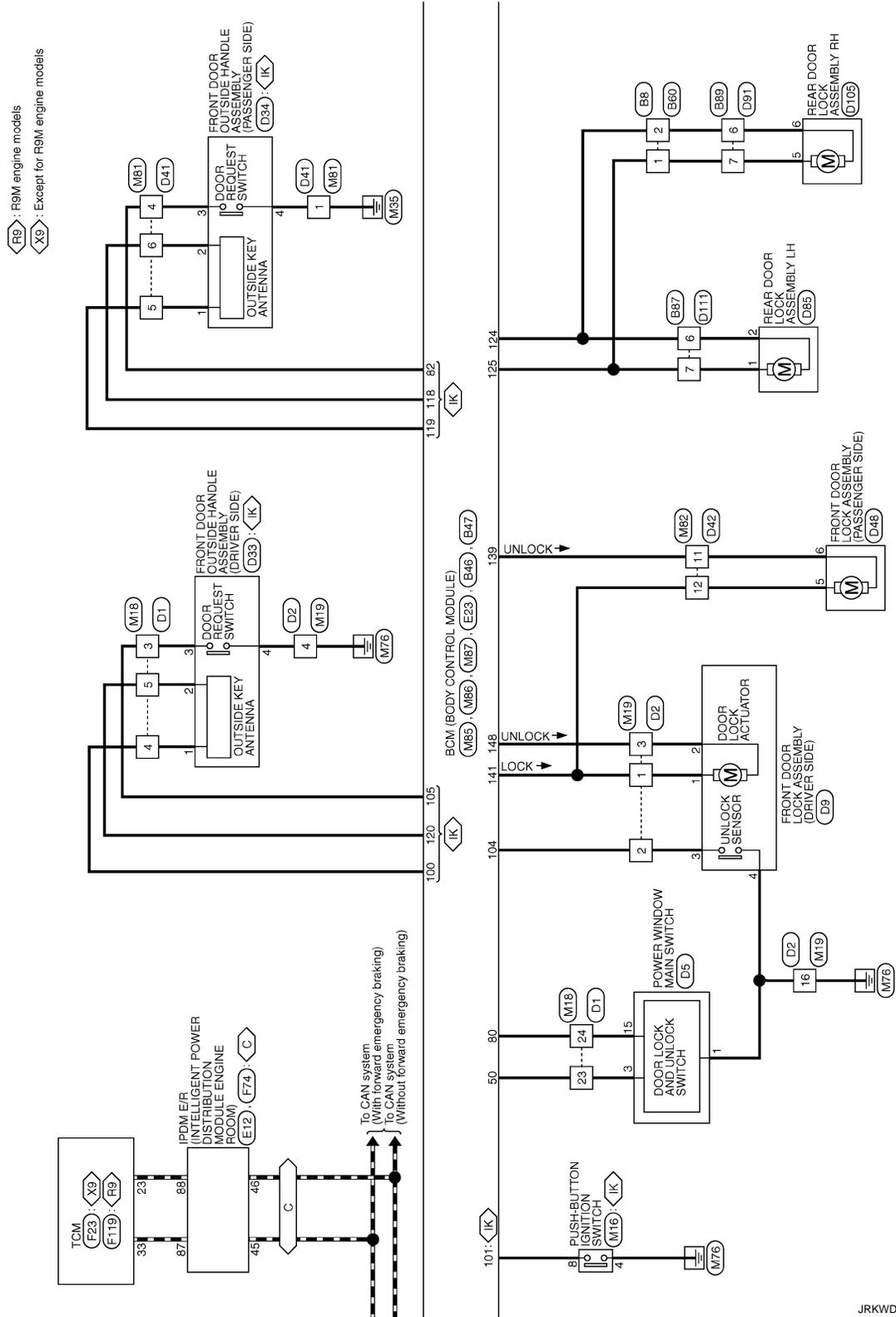
INFOID:0000000010755023

ECU	Reference
BCM	BCS-53, "Reference Value"
	BCS-76, "Fail-safe"
	BCS-77, "DTC Inspection Priority Chart"
	BCS-78, "DTC Index"

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 4]



JRKWD4406GB

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 4]

DOOR LOCK SYSTEM (LHD MODELS)

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MV-AH



16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	V	-
3	LA/R	-
4	V	-
5	GR	-
6	Y	-
7	LG	-
8	BG	-
9	W	-
10	LAV	-
11	BR	-
12	Y	-
13	W	-
14	V	-
15	L	-
16	BR	-
17	Y	-
18	LA/L	- [Without PSM]
19	SB	- [With FSM]
20	LG	-
21	G	-
22	V	-
23	BR	-
24	P	-
25	L	-
26	G	-
29	SHIELD	-
30	W	-
31	B	-
32	R	-

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Type	NS16MV-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	P	-
4	L	-
5	L	-
6	SB	-
7	R	-
8	LA/V	-
9	LA/R	-
10	W	-
11	P	-
12	R	-
13	P	-
14	R	-
15	P	-
16	P	-

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	TH32MV-AH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	-
5	R	-
6	B	-
7	W	-
8	SHIELD	-

13	W	-
14	V	-
15	BR	-
16	SB	-
17	LA/V	-
18	LA/R	-
19	LG	-
20	LA/G	-
21	LA/G	-
22	LA/R	-
23	LA/R	-
24	R	-
29	Y	-
30	G	-
31	GR	-
32	LG	-



Connector No.	B20
Connector Name	WIRE TO WIRE
Connector Type	NS16MV-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
8	LA/G	-
9	LA/R	-
10	LA/V	-
12	L	-
13	SB	-
14	R	-
15	G	-
16	W	-

Connector No.	B24
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	AA02HFB



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	TOUCH SENS RH
2	G	TOUCH SENS LH
3	SB	HALF LATCH SW
4	BR	CLOSE SW
5	W	A-SIGN LH
6	L	B-SIGN LH
7	R	A-SIGN RH
8	SB	B-SIGN RH
9	SB	MAIN SW
10	BG	OPEN SW
11	V	CAN LOW
12	P	TOUCH SENS-GND
13	GR	GROUND
16	B	POWER LH
19	V	POWER RH
20	P	ENCODER GROUND
21	G	DRIVER SW
22	LG	INSIDE CLOSE SW
23	W	CAN LH
24	L	-

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 4]

DOOR LOCK SYSTEM (LHD MODELS)

Connector No.	B71
Connector Name	REAR DOOR SWITCH-LH
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	R	-
3	LAV	-
6	W	-
7	L	-
8	LA/R	-
9	LAL	-
12	G	-

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



Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS

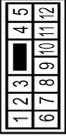


Terminal No.	3	R	Signal Name [Specification]	-
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Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC



Connector No.	B89
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	L	-
3	LAP	-
4	LAV	-
5	LAY	-
6	LA/R	-
7	LALG	-
8	LA/R	-

Terminal No.	1	B	Signal Name [Specification]	-
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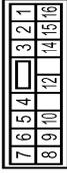
Connector No.	B87
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAV	-
2	LAV	-
3	W	-
4	V	-
6	SB	-
9	LG	-
7	GR	-
8	G	-
9	Y	-
10	B	-
11	R	-
13	LAW	-
14	LAY	-
15	LALG	-
16	LAV	-
17	LAL	-
18	LABG	-
19	LA/R	-
22	LA/G	-
23	L	-
24	BG	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAV	-
2	R	-
3	LAV	-
4	B	-
6	B	-
9	LAL	-
7	LABR	-
8	SB	-
9	LA/R	-
10	LASS	-
11	P	-
12	LG	-
13	LAY	-
14	LAW	-
15	LA/R	-
16	B	-

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS18FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	LA/R	POWER WINDOW MAIN SWITCH (DOWN/UP)
3	L	-
4	R	ENCODER SIGNAL 2

JRKWD4410GB

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 4]

DOOR LOCK SYSTEM (LHD MODELS)

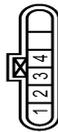
5	W	ENCODER SIGNAL 1
6	P	REAR POWER WINDOW MOTOR R/DOWN SIGNAL
7	LG	REAR POWER WINDOW MOTOR R/UP SIGNAL
8	LAY	REAR POWER WINDOW MOTOR L/DOWN SIGNAL
9	LAV	REAR POWER WINDOW MOTOR L/UP SIGNAL
10	SB	IGN ON POWER SUPPLY
12	Y	ENCODER GROUND
14	G	ENCODER POWER SUPPLY
15	BG	-
16	LA5E	FRONT POWER WINDOW MOTOR PASSENGER SIDE/UP SIGNAL

Connector No.	D34
Connector Name	FRONT DOOR OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE)
Connector Type	RHMFB



Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	ED0FCY-RS

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	SB	-
3	P	-
4	B	-



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAV	-
2	LA/G	-
3	R	-
4	B	-



Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TR24FW-NH

Connector No.	D33
Connector Name	FRONT DOOR TO TRUCK HANDLE ASSEMBLY (DRIVER SIDE)
Connector Type	RHMFB

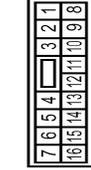
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	B	-
4	P	-
5	R	-
6	SB	-
7	L	-
8	V	-
9	Y	-
10	B	-
11	G	-
13	LAY	-
14	LAGR	-
15	LAV	-
16	LAIL	-
17	LABG	-
18	GR	-



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

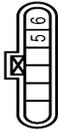
21	LA/G	-
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Connector No.	D42
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



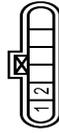
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAB	-
2	B	-
8	LAGR	-
9	LAY	-
10	LABR	-
11	LAIL	-
12	LAV	-
13	LAR	-
14	LAG	-

Connector No.	D48
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	ED0FCY-RS



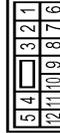
Terminal No.	Color Of Wire	Signal Name [Specification]
5	LAV	-
6	LAIL	-

Connector No.	D85
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	ED0FCY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAG	-
2	LAV	-

Connector No.	D91
Connector Name	WIRE TO WIRE
Connector Type	NS24FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAV	-
2	LABR	-
3	LAGR	-
4	LAV	-
5	LAY	-
6	W	- [For LHD models]
7	LAIL	- [For LHD models]
8	P	- [For RHD models]

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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 4]

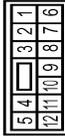
DOOR LOCK SYSTEM (LHD MODELS)

Connector No.	D105
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	E06FGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
5	LAY	-
6	LAW	-

Connector No.	D111
Connector Name	WIRE TO WIRE
Connector Type	NS2FV-CS



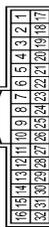
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LAY	-
2	LABR	-
3	LAGR	-
6	LAV	- [For LHD models]
7	LAG	- [For LHD models]
8	LAG	- [For RHD models]
9	LAVR	-
12	W	-

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M02FV-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-

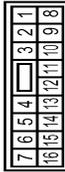
Connector No.	D160
Connector Name	WIRE TO WIRE
Connector Type	TH2FV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
4	W	-
5	W	-
6	W	-
7	W	-
8	W	-
13	W	-
14	W	-
15	W	-
16	W	-
17	W	-
18	W	-
19	W	-
20	W	-
21	W	-
22	W	-
23	W	-
24	W	-
29	W	-
30	W	-

31	W	-
32	W	-

Connector No.	D164
Connector Name	WIRE TO WIRE
Connector Type	NS16FV-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
8	W	-
9	W	-
10	W	-
12	W	-
13	W	-
14	W	-
15	W	-
16	W	-

Connector No.	D168
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FV-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	W	-
4	GR	-

Connector No.	D169
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH04MV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	GR	- [Without PBD]
4	BR	- [With PBD]

Connector No.	D172
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08FV-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
4	W	-
5	W	-
6	W	-
7	W	-
8	B	-

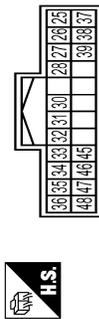
DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 4]

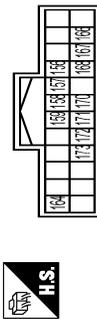
DOOR LOCK SYSTEM (LHD MODELS)

Connector No.	E12
Connector Name	POWER INTELLIGENT POWER DIS TRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH24FGY-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
25	LG	-
26	W	-
27	SB	-
28	P	-
30	L	-
31	G	-
32	B	-
33	BG	-
34	LG	-
35	V	-
36	Y	-
37	B	-
38	GR	-
39	BR	-
45	L	-
46	P	-
47	W	-
48	R	-

Connector No.	E23
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH



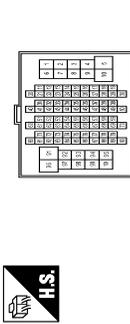
Terminal No.	Color Of Wire	Signal Name [Specification]
156	V	CLUTCH INTERLOCK SW
157	LG	STOP LAMP SW 2
158	W	STOP LAMP SW 1
159	R	ASCD CLUTCH SWITCH
164	P	INTELLIGENT KEY WARNING BUZZER
165	P	STEERING LOCK UNIT POWER SUPPLY
167	BR	TURN SIG LH (FRONT)
168	GR	TURN SIG RH (FRONT)
170	L	PTC RELAY-3 CONTROL
171	G	STARTER RELAY CONT
172	V	PTC RELAY-1 CONTROL
173	BG	PTC RELAY-2 CONTROL

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
3	B	-

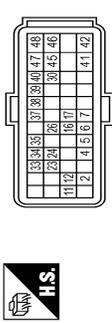
Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FM-GS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
5	V	- [Without ISS]
8	W	- [With ISS]
5	W	-
8	L	-
9	LG	-
10	W	-
20	W	-
21	B	-
22	SHIELD	-
31	Y	-
32	W	-
33	SB	-
34	LG	-
35	BG	-
36	LG	-
37	V	-
38	G	-
39	BR	-
40	L	-
41	P	-
47	GR	-
48	SB	-
51	P	-
52	L	-
53	W	-
54	Y	-
55	BR	-
56	P	-
57	B	-
58	L	-
59	W	-
60	G	-
61	BR	-
62	V	-
63	BR	-
64	GR	-
65	LG	-
66	BG	-
67	L	-
68	R	-
71	V	-
72	L	-
75	R	-
76	L	-
77	LG	-
79	SHIELD	-
80	GR	-

82	Y	-
83	SB	-
84	L	-
85	G	-
86	Y	-
87	B	-
88	B	-
91	R	-
92	BR	-
93	W	-
96	GR	-
97	R	-
98	V	-
99	Y	-

Connector No.	F23
Connector Name	TCM
Connector Type	RH40FB-E2B-L-RH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
4	Y	D RANGE SWITCH
5	BR	N RANGE SWITCH
6	G	R RANGE SWITCH
7	V	P RANGE SWITCH
11	LG	SENSOR GROUND
12	BR	CVT FLUID TEMPERATURE SENSOR
16	SB	SECONDARY PRESSURE SENSOR
17	R	PRIMARY PRESSURE SENSOR
23	P	CANL
24	LG	INPUT SPEED SENSOR
26	BG	SENSOR POWER SUPPLY
30	GR	LINE PRESSURE SOLENOID VALVE
33	L	CANH
34	W	OUTPUT SPEED SENSOR
35	GR	PRIMARY SPEED SENSOR
37	Y	SELECT SOLENOID VALVE
38	G	FORQUE CONVERTER SOLENOID VALVE
39	W	SECONDARY PRESSURE SOLENOID VALVE
40	V	PRIMARY PRESSURE SOLENOID VALVE

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DOOR & LOCK SYSTEM

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[TYPE 4]

DOOR LOCK SYSTEM (LHD MODELS)

41	B	GROUND
42	B	GROUND
45	V	BATTERY POWER SUPPLY
46	V	BATTERY POWER SUPPLY
47	BG	IGNITION POWER SUPPLY
48	BG	IGNITION POWER SUPPLY

Connector No.	F74
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH24FB-NH



108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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Connector No.	F119
Connector Name	TCM
Connector Type	IRH40FB-RZ8-L-LH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574</
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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 4]

DOOR LOCK SYSTEM (LHD MODELS)

11	SB	-
14	P	-
15	BR	-
16	W	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH02FW-NH



18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	V	-
3	SB	-
4	BR	-
5	L	-
6	Y	-
7	LG	-
8	BG	-
9	W	-
10	Y	-
11	R	-
12	SB	-
13	LG	-
14	V	-
15	SB	-
16	Y	-
17	LA/BR	-
18	LAL	-
20	BG	-
21	BG	-
22	GR	-
23	GR	-
24	P	-
25	L	-
26	PR	-
29	SHIELD	-
30	W	-
31	B	-
32	R	-

Connector No.	M16
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH08FM-NH



4	5	6	8
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Terminal No.	Color Of Wire	Signal Name [Specification]
4	B	-
5	W	-
6	B	-
8	Y	-

Connector No.	M17
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	RK02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	BG	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH24MV-NH



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	V	-
4	V	-
5	BR	-
6	LG	-
7	L	-
8	Y	-
9	G	-
10	SHIELD	-
11	R	-
13	GR	-
14	LA/SE	-
15	LA/GR	-
16	LA/V	-
17	LAL	-
18	LABG	-
19	LA/R	-
22	LA/G	-
23	BG	-
24	SB	-

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MV-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	R	-
3	G	-
4	B	-
5	B	-
6	Y	-
7	R	-
8	L	-
9	BR	-
10	GR	-
11	Y	-
12	BG	-
13	G	-
14	P	-
15	P	-
16	B	-

Connector No.	M25
Connector Name	KEY SWITCH
Connector Type	TH02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	B	-

JRKWD4415GB

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

DLK

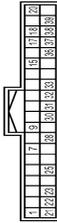
DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

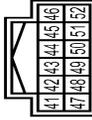
[TYPE 4]

DOOR LOCK SYSTEM (LHD MODELS)

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FTV-NH



Connector No.	M42
Connector Name	COMBINATION METER
Connector Type	TH12FTV-NH



Connector No.	M66
Connector Name	DIODE-2
Connector Type	ET02-2W



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
7	BG	SECURITY SIGNAL
9	GR	ECO MODE SWITCH SIGNAL
15	L	AMBIENT SENSOR SIGNAL
17	BG	METER CONTROL SWITCH GROUND
18	SB	TRIP RESET SWITCH SIGNAL
20	Y	AMBIENT SENSOR GROUND
21	L	STEERING SWITCH SIGNAL A
22	Y	STEERING SWITCH SIGNAL B
23	GR	STEERING SWITCH SIGNAL
25	V	BRAKE FLUID LEVEL SWITCH SIGNAL
28	Y	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	LG	MANUAL MODE SIGNAL
31	SB	NON-MANUAL MODE SIGNAL
32	BG	MANUAL MODE SHIFT UP SIGNAL
33	BR	MANUAL MODE SHIFT DOWN SIGNAL
36	GR	ILLUMINATION CONTROL SWITCH SIGNAL (+)
37	V	ILLUMINATION CONTROL SWITCH SIGNAL (-)
38	G	VEHICLE SPEED SIGNAL (8-PULSE)
39	W	VEHICLE SPEED SIGNAL (2-PULSE)

Terminal No.	Color Of Wire	Signal Name [Specification]
41	L	CANH
42	P	CANH
43	W	ILLUMINATION CONTROL SIGNAL
44	LAVR	FUEL LEVEL SENSOR GROUND
45	LAG	BATTERY POWER SUPPLY
46	LABR	IGNITION SIGNAL (Without ISS)
46	V	IGNITION SIGNAL (With ISS)
47	SB	AV COMMUNICATION SIGNAL (H)
48	LG	AV COMMUNICATION SIGNAL (L)
49	Y	OIL LEVEL SENSOR SIGNAL
50	BG	OIL LEVEL SENSOR GROUND
51	LAL	FUEL LEVEL SENSOR SIGNAL
52	B	GROUND

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Connector No.	M65
Connector Name	DIODE-1
Connector Type	ET02-2W



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LAVR	-
5	V	- [Without ISS]
5	W	- [With ISS]
8	G	-
9	Y	-
10	R	-
20	W	-
21	B	-
22	SHIELD	-
31	V	-
32	GR	-
33	G	-
34	LG	-
35	BG	-
36	LG	-
37	V	-
38	G	-
39	BR	-

Terminal No.	Color Of Wire	Signal Name [Specification]
40	L	-
41	P	-
47	Y	-
48	BG	-
51	GR	-
52	SB	-
53	R	-
54	LAL	-
55	BR	-
56	P	-
57	B	-
58	L	-
59	W	-
60	LAVR	-
61	P	-
62	V	-
63	LABR	-
64	V	-
65	GR	-
66	BG	-
67	L	-
68	R	-
71	V	-
72	L	-
73	Y	-
76	L	-
77	V	-
78	LG	-
79	SHIELD	-
80	L	- [Without ISS]
80	LAL	- [With ISS]
82	GR	-
83	LG	-
84	SB	-
85	G	-
86	G	-
87	B	-
88	B	-
91	L	-
92	W	-
93	W	-
96	LG	-
97	BR	-
98	V	-
99	R	-

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

[TYPE 4]

DOOR LOCK SYSTEM (LHD MODELS)

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TH24MV-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	GR	-
8	SB	-
9	BR	-
10	GR	-
11	L	-
12	Y	-
13	GR	-
14	W	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	GR	- [With SOVM]
2	Y	- [Without SOVM]
4	V	-
5	BR	-
6	SB	-
7	B	-
8	L	-
9	Y	-
10	SHIELD	-
11	G	-
13	LAVS	-
14	LAVR	-
15	LAV	-
16	LAL	-
17	LABG	-
18	GR	-
21	LAY	-



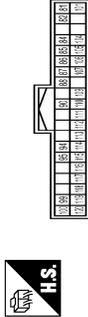
Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FR-CS



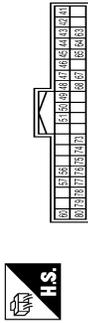
Terminal No.	Color Of Wire	Signal Name [Specification]
137	W	BAT POWER SUPPLY (FUSE)
138	SB	INT ROOM LAMP CONT
139	L	PASSENGER DOOR UNLOCK OUTPUT
141	V	FRONT DOOR LOCK OUTPUT
143	LAV	POWER SUPPLY (FR DOOR LK ACT)
144	BG	POWER SUPPLY (TURN SIGNAL)
145	GR	POWER SUPPLY (STOP LAMP)
147	B	GROUND
148	G	GROUND
149	W	FRONT DOOR SUPERLOCK OUTPUT
151	R	POWER SUPPLY (REAR DOOR LK ACT)
152	LG	POWER SUPPLY (REAR WIPER)

Connector No.	M86
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
81	L	KEY SWITCH
82	LAVR	KEY SW (ST) [Without Intelligent Key]
82	W	PASS DOOR REQ SW [With Intelligent Key]
84	BR	COMBI SW OUTPUT 2
85	SB	COMBI SW OUTPUT 1
86	P	COMBI SW OUTPUT 3
87	BG	COMBI SW OUTPUT 4
88	W	PUSHBETWIGN SW ILL CONT
90	Y	SIT CONDITION
94	G	DETENTION SW
95	V	EXTENDED STORAGE FUSE SW
99	R	STOP/START OFF SW
100	V	DRIVER DOOR ANT +
101	Y	PUSH SW
104	R	DR DOOR UNLK SENS
105	Y	DR DOOR REQ SW
106	W	ACC OUTPUT
107	V	SENSOR CANCEL SW
109	P	NATS ANTENNA AMP.
110	BG	DIMMER SIGNAL
111	R	DOOR LK STAT IND OUTPUT
112	SB	STOP/START OFF SW INDICATOR
113	LG	NATS ANTENNA AMP.
114	Y	NATS ANTENNA AMP.
115	W	NATS ANTENNA AMP.
116	BG	ROOM ANT 1 -
117	GR	ROOM ANT 1 +
118	SB	PASSENGER DOOR ANT -
119	P	PASSENGER DOOR ANT +
120	BR	RRIVER DOOR ANT +

Connector No.	M87
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	STEERING LOCK UNIT POWER SUPPLY
42	LAVG	TURN SIG LH (SIDE)
43	LAVY	TURN SIG RH (SIDE)
44	P	INTERIOR ROOM LAMP RELAY CONT
45	R	CANL
46	L	CANH
47	G	LIGHT & RAIN SENSOR
48	L	CANL
49	R	CANH
50	BG	DOOR LOCK SW
51	Y	HAZARD SW
56	P	DONBLE
57	L	CVT SHIFT SELECT (DETENT SW) PWR
60	R	HEADLAMP WASHER SW
63	G	POWER WINDOW RELAY CON
64	LAVR	REAR WINDOW DEFROGGER RELAY CONT
65	BR	ACC RELAY CONT
67	Y	IGN RELAY (FB) CONT OUTPUT
68	LAVW	BLOWER RELAY CONT
73	LG	COMBI SW INPUT 5
74	Y	COMBI SW OUTPUT 5
75	BG	SECURITY IND LAMP CONT
76	G	COMBI SW INPUT 3
77	GR	COMBI SW INPUT 4
78	V	COMBI SW INPUT 1
79	W	COMBI SW INPUT 2
80	SB	DOOR UNLOCK SW

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[TYPE 4]

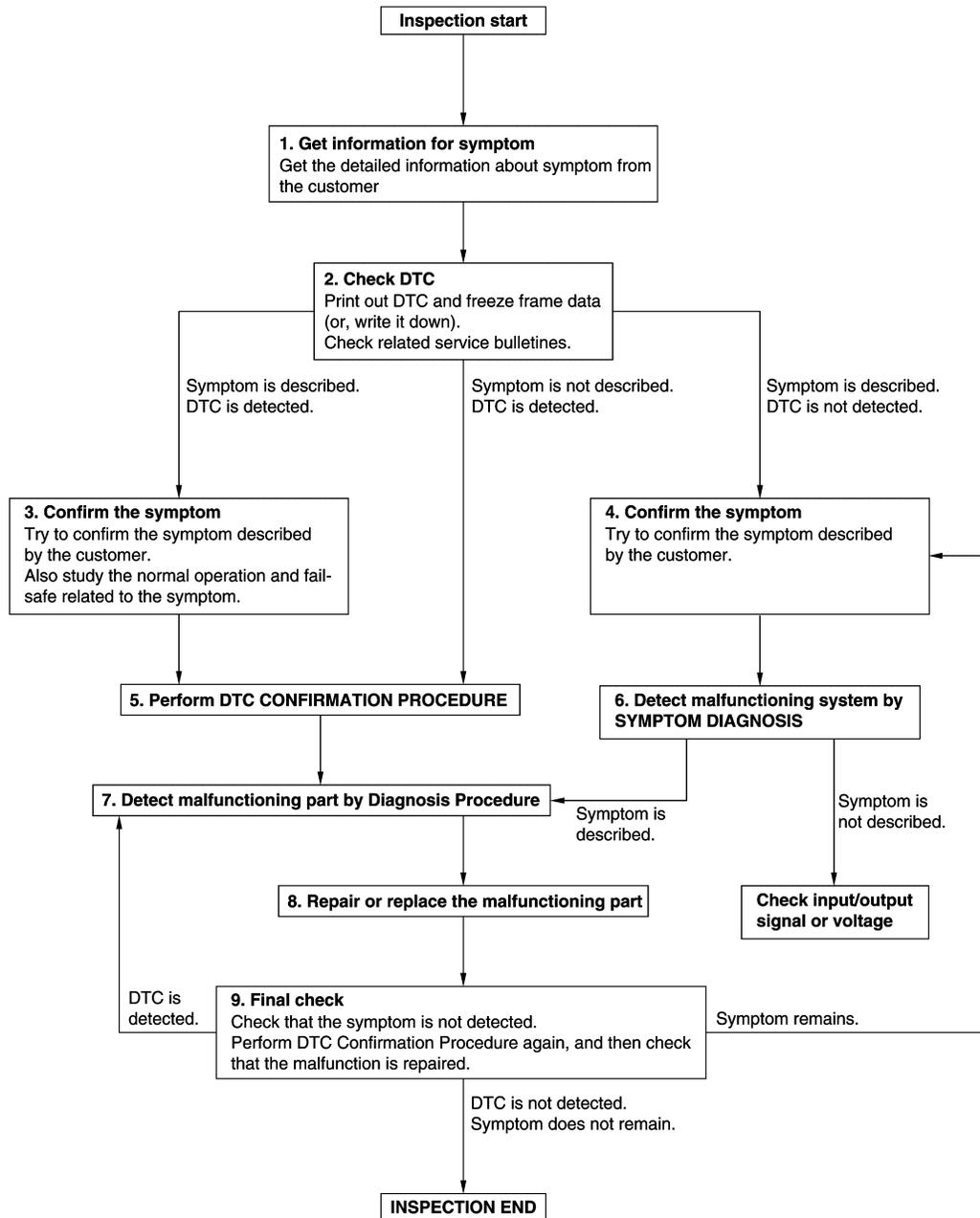
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000010755025

OVERALL SEQUENCE



JMKIA8652GB

DETAILED FLOW

DLK-826

DIAGNOSIS AND REPAIR WORK FLOW

[TYPE 4]

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2.CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.
 - Record DTC and freeze frame data (Print them out using CONSULT.)
 - 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.

Are any symptoms described and any DTC detected?

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

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.
Also study the normal operation and fail-safe related to the symptom.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.
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 detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time. If two or more DTCs are detected, refer to [BCS-77. "DTC Inspection Priority Chart"](#) and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.
If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

- YES >> GO TO 7.
- NO >> Check according to [GI-44. "Intermittent Incident"](#).

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

Is the symptom described?

- YES >> GO TO 7.
- NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

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DIAGNOSIS AND REPAIR WORK FLOW

[TYPE 4]

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-44. "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

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

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

KEYFOB ID REGISTRATION

< BASIC INSPECTION >

[TYPE 4]

KEYFOB ID REGISTRATION

Description

INFOID:000000010755026

Perform the system initialization when replacing BCM, replacing keyfob or registering an additional keyfob. Refer to the CONSULT Immobilizer mode and follow the on-screen instructions.

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BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

DTC/CIRCUIT DIAGNOSIS

BACK DOOR SWITCH

Component Function Check

INFOID:000000010755027

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR SW-BK" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-BK	Back door	Open	On
		Closed	Off

Is the inspection result normal?

- YES >> Back door switch is OK.
NO >> Refer to [DLK-830. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010755028

1. CHECK BACK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door lock assembly connector.
3. Check signal between back door lock assembly harness connector and ground using oscilloscope.

(+)		(-)	Voltage
Back door lock assembly			
Connector	Terminal	Ground	9 – 16 V
D168	3		

Is the inspection result normal?

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

2. CHECK BACK DOOR SWITCH CIRCUIT

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

Back door lock assembly		BCM		Continuity
Connector	Terminal	Connector	Terminal	
D168	3	B47	11	Existed

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D168	3		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK BACK DOOR SWITCH GROUND CIRCUIT

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

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

Back door lock assembly		Ground	Continuity
Connector	Terminal		Existed
D168	4		

Is the inspection result normal?

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

4.CHECK BACK DOOR SWITCH

Refer to [DLK-831, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Replace back door lock assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010755029

1.CHECK BACK DOOR SWITCH

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

Back door lock assembly		Condition	Continuity
Terminal			Back door lock
3	4	Lock	
		Unlock	

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace back door lock assembly.

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BACK DOOR OPENER ACTUATOR

[TYPE 4]

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPENER ACTUATOR

Diagnosis Procedure

INFOID:000000010755030

1. CHECK BACK DOOR OPENER ACTUATOR INPUT SIGNAL

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

(+) Back door lock assembly		(-)	Condition		Voltage
Connector	Terminal				
D168	1	Ground	Back door opener switch	ON	9 – 16 V

Is the inspection result normal?

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

2. CHECK BACK DOOR OPENER ACTUATOR CIRCUIT

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

BCM		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B46	121	D168	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B46	121		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK BACK DOOR OPENER ACTUATOR GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D168	2		Existed

Is the inspection normal?

- YES >> Replace back door lock assembly.
NO >> Repair or replace harness.

BACK DOOR OPENER SWITCH

[TYPE 4]

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPENER SWITCH

Component Function Check

INFOID:000000010755031

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "TRUNK" of "BCM" using CONSULT.
3. Select "BACK DOOR OPENER SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
BACK DOOR OPENER SW	Back door opener switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

- YES >> Back door opener switch is OK.
NO >> Refer to [DLK-833, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010755032

1.CHECK BACK DOOR OPEN INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect back door opener switch assembly connector.
3. Check voltage between back door opener switch assembly harness connector and ground.

(+)		(-)	Voltage
Connector	Terminal		
D169	1	Ground	9 – 16 V

Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

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

BCM		Back door opener switch assembly		Continuity
Connector	Terminal	Connector	Terminal	
B47	16	D169	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B47	16		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

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BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

Back door opener switch assembly		Ground	Continuity
Connector	Terminal		
D169	2		Existed

Is the inspection result normal?

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

4.CHECK BACK DOOR OPENER SWITCH

Refer to [DLK-834, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Replace back door opener switch assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010755033

1.CHECK BACK DOOR OPENER SWITCH

1. Turn ignition switch OFF.
2. Disconnect back door opener switch assembly connector.
3. Check continuity between back door opener switch assembly terminals.

Back door opener switch assembly		Condition	Continuity	
Terminal				
1	2	Back door opener switch	Pressed	Existed
			Released	Not existed

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace back door opener switch assembly.

DOOR LOCK ACTUATOR

[TYPE 4]

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:000000010755034

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-835, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000010755035

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check voltage between front door lock assembly (driver side) harness connector and ground.

(+)		(-)	Condition	Voltage	
Front door lock assembly (driver side)					
Connector	Terminal				
D9	1	Ground	Door lock and unlock switch	Lock	9 – 16 V
	2			Unlock	

Is the inspection result normal?

YES >> Replace front door lock assembly (driver side).

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M85	141	D9	1	Existed
	148		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	141		Not existed
	148		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

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

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DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

(+)		(-)	Condition	Voltage
BCM				
Connector	Terminal			
M85	141	Ground	Door lock and unlock switch	Lock
	148			Unlock
9 – 16 V				

Is the inspection result normal?

YES >> Check for internal short of front door lock actuator.

NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:000000010755036

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-836, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010755037

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (passenger side) connector.
3. Check voltage between front door lock assembly (passenger side) harness connector and ground.

(+)		(-)	Condition	Voltage
Front door lock assembly (passenger side)				
Connector	Terminal			
D48	5	Ground	Door lock and unlock switch	Lock
	6			Unlock
9 – 16 V				

Is the inspection result normal?

YES >> Replace front door lock assembly (passenger side).

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M85	139	D48	6	Existed
	141		5	

3. Check continuity between BCM harness connector and ground.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

BCM		Ground	Continuity
Connector	Terminal		
M85	139		Not existed
	141		

Is the inspection result normal?

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

3.CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition	Voltage
BCM				
Connector	Terminal	Ground	Door lock and unlock switch	Unlock Lock
M85	139			
	141			

Is the inspection result normal?

- YES >> Check for internal short of front door lock actuator.
 NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

REAR LH

REAR LH : Component Function Check

INFOID:000000010755038

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
 NO >> Refer to [DLK-837, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000010755039

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly LH connector.
3. Check voltage between rear door lock assembly LH harness connector and ground.

(+)		(-)	Condition	Voltage
Rear door lock assembly LH				
Connector	Terminal	Ground	Door lock and unlock switch	Lock Unlock
D85	1			
	2			

Is the inspection result normal?

- YES >> Replace rear door lock assembly LH.
 NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

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DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

BCM		Rear door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	
B46	124	D85	2	Existed
	125		1	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B46	124		Not existed
	125		

Is the inspection result normal?

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

3.CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition	Voltage	
BCM					
Connector	Terminal				
B46	124	Ground	Door lock and unlock switch	Unlock	9 – 16 V
	125		Lock		

Is the inspection result normal?

- YES >> Check for internal short of rear door lock actuator.
- NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

REAR RH

REAR RH : Component Function Check

INFOID:000000010755040

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "DOOR LOCK" in "ACTIVE TEST" mode.
4. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
- NO >> Refer to [DLK-838, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000010755041

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock assembly RH connector.
3. Check voltage between rear door lock assembly RH harness connector and ground.

(+)		(-)	Condition	Voltage	
Rear door lock assembly RH					
Connector	Terminal				
D105	5	Ground	Door lock and unlock switch	Lock	9 – 16 V
	6		Unlock		

DOOR LOCK ACTUATOR

[TYPE 4]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace rear door lock assembly RH.
 NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Rear door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	
B46	124	D105	6	Existed
	125		5	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B46	124		Not existed
	125		

Is the inspection result normal?

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

3. CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition	Voltage	
BCM					
Connector	Terminal				
B46	124	Ground	Door lock and unlock switch	Unlock	9 – 16 V
	125			Lock	

Is the inspection result normal?

- YES >> Check for internal short of rear door lock actuator.
 NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

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DLK

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

DOOR LOCK AND UNLOCK SWITCH

Component Function Check

INFOID:000000010755042

1. CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "CDL LOCK SW", "CDL UNLOCK SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
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 (driver door) is OK.
NO >> Refer to [DLK-840, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010755043

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect power window main switch connector.
3. Check voltage between power window main switch harness connector and ground.

(+) Power window main switch		(-)	Voltage
Connector	Terminal		
D5	3	Ground	9 – 16 V
	15		

Is the inspection result normal?

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

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and power window main switch harness connector.

BCM		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
M87	50	D5	3	Existed
	80		15	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M87	50		Not existed
	80		

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
NO >> Repair or replace harness.

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

3. CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-74. "POWER WINDOW MAIN SWITCH : Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

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DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

DOOR SWITCH

Component Function Check

INFOID:000000010755044

1.CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL" and "DOOR SW-RR" in "DATA MONITOR" mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-DR	Driver side door	Open	ON
		Closed	OFF
DOOR SW-AS	Passenger side door	Open	ON
		Closed	OFF
DOOR SW-RL	Rear door LH	Open	ON
		Closed	OFF
DOOR SW-RR	Rear door RH	Open	ON
		Closed	OFF

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [DLK-842, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010755045

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check voltage between malfunctioning door switch harness connector and ground using oscilloscope.

(+)		Terminal	(-)	Voltage
Door switch				
Connector				
Driver side	B34	3	Ground	9 – 16 V
Passenger side	B27			
Rear LH	B71			
Rear RH	B53			

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

Door switch		Terminal	BCM		Continuity
Connector			Connector	Terminal	
Driver side	B34	3	B47	17	Existed
Passenger side	B27			13	
Rear LH	B71			12	
Rear RH	B53			10	

DOOR SWITCH

[TYPE 4]

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between door switch harness connector and ground.

Door switch		Terminal	Ground	Continuity
Connector				Not existed
Driver side	B34	3	Ground	Not existed
Passenger side	B27			
Rear LH	B71			
Rear RH	B53			

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR SWITCH

Refer to [DLK-843, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000010755046

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check continuity between door switch terminals.

Door switch			Condition	Continuity	
Terminal					
Driver side	3	Ground part of door switch	Door switch	Pressed	Not existed
				Released	Existed
Passenger side				Pressed	Not existed
				Released	Existed
Rear LH				Pressed	Not existed
				Released	Existed
Rear RH				Pressed	Not existed
				Released	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

< DTC/CIRCUIT DIAGNOSIS >

HAZARD FUNCTION

Component Function Check

INFOID:000000010755047

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "MULTI REMOTE ENT" of "BCM" using CONSULT.
3. Select "FLASHER" in "ACTIVE TEST" mode.
4. Touch "LH" or "RH" to check that it works normally.

Is the inspection result normal?

- YES >> Hazard warning lamp circuit is OK.
NO >> Refer to [DLK-844, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010755048

1.CHECK HAZARD OPERATION

Refer to [EXL-236, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Refer to [EXL-361, "Symptom Table"](#).

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

KEY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

KEY SWITCH

Component Function Check

INFOID:000000010755049

1.CHECK FUNCTION

1. Turn ignition switch ON.
2. Select "DOOR LOCK" of "BCM" using CONSULT.
3. Select "KEY SW" in "DATA MONITOR" mode.
4. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status	
KEY SW	Keyfob	Inserted in key cylinder	On
		Removed from key cylinder	Off

Is the inspection result normal?

- YES >> Key switch is OK.
NO >> Refer to [DLK-845. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000010755050

1.CHECK KEY SWITCH POWER SUPPLY CIRCUIT

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

Key switch		Ground	Voltage
Connector	Terminal		
M25	1		9 – 16 V

Is the inspection result normal?

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

2.CHECK KEY SWITCH CIRCUIT

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

Key switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M25	1	M86	81	Existed

3. Check continuity between key switch harness connector and ground.

Key switch		Ground	Continuity
Connector	Terminal		
M25	1		Not existed

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK KEY SWITCH GROUND CIRCUIT

Check continuity between key switch harness connector and ground.

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KEY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

Key switch		Ground	Continuity
Connector	Terminal		
M25	2		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace ignition key cylinder.

NO >> Repair or replace malfunctioning parts.

Component Inspection

INFOID:000000010755051

COMPONENT INSPECTION

1.CHECK KEY SWITCH

1. Turn ignition switch OFF.
2. Disconnect key switch connector.
3. Check continuity between key switch terminals.

Key switch		Condition	Continuity	
Terminal				
1	2	Keyfob	Inserted in key cylinder	Existed
			Removed from key cylinder	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace key switch.

KEYFOB BATTERY

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

KEYFOB BATTERY

Component Inspection

INFOID:000000010755052

1.CHECK KEYFOB BATTERY

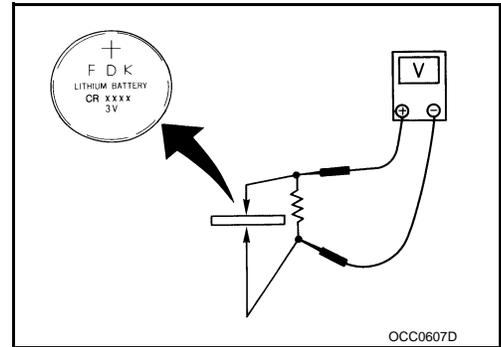
Check by connecting a resistance (approximately 300 Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0 V

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace keyfob battery. Refer to [DLK-930, "Removal and Installation"](#).



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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

POWER SUPPLY AND GROUND CIRCUIT FRONT DOOR LOCK

FRONT DOOR LOCK : Diagnosis Procedure

INFOID:0000000010755053

1.CHECK FUSE

Check that the following fuse is not fusing.

Signal name	Fuse No.
Front door lock actuator power supply	5 (20 A)

Is the fuse fusing?

- 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 BCM connector.
3. Check voltage between BCM harness connector and ground.

(+)		(-)	Voltage
BCM			
Connector	Terminal		
M85	143	Ground	9 – 16 V

Is the measurement value normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	146		Existed
	147		

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Repair or replace harness.

REAR DOOR LOCK

REAR DOOR LOCK : Diagnosis Procedure

INFOID:0000000010755054

1.CHECK FUSE

Check that the following fuse is not fusing.

Signal name	Fuse No.
Rear door lock actuator power supply	3 (20 A)

Is the fuse fusing?

- 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 BCM connector.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

3. Check voltage between BCM harness connector and ground.

(+)		(-)	Voltage
BCM			
Connector	Terminal	Ground	9 – 16 V
M85	151		

Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		Existed
M85	146		
	147		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

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UNLOCK SENSOR

[TYPE 4]

< DTC/CIRCUIT DIAGNOSIS >

UNLOCK SENSOR

Diagnosis Procedure

INFOID:000000010755055

1. CHECK UNLOCK SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check voltage between front door lock assembly (driver side) harness connector and ground with oscilloscope.

(+)		(-)	Voltage
Front door lock assembly (driver side)			
Connector	Terminal		
D9	3	Ground	9 – 16 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK UNLOCK SENSOR CIRCUIT

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

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M86	104	D9	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M86	104		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK UNLOCK SENSOR GROUND CIRCUIT

Check continuity between front door lock assembly (driver side) harness connector and ground.

Front door lock assembly (driver side)		Ground	Continuity
Connector	Terminal		
D9	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK UNLOCK SENSOR

Refer to [DLK-851, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[TYPE 4]

>> INSPECTION END

Component Inspection

INFOID:0000000010755056

1. CHECK UNLOCK SENSOR

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check continuity between front door lock assembly (driver side) terminals.

Front door lock assembly (driver side)		Condition		Continuity
Terminal				
3	4	Driver door	Unlock	Existed
			Lock	Not existed

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace front door lock assembly (driver side).

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ANTI-HIJACK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 4]

SYMPTOM DIAGNOSIS

ANTI-HIJACK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010780995

1. CHECK "DOOR LOCK-UNLOCK SET" SETTING IN "WORK SUPPORT"

1. Select "DOOR LOCK" of "BCM" using CONSULT.
2. Select "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" mode.
3. Check "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT"
Refer to [DLK-808, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\) \(Without Intelligent Key System and Super Lock\)"](#).

Is the inspection result normal?

- YES >> GO TO 2
NO >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT".

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 4]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010755057

1. CHECK "AUTO LOCK SET" SETTING WITH CONSULT

1. Select "MULTI REMOTE ENT" of "BCM" using CONSULT.
2. Select "AUTO LOCK SET" in "WORK SUPPORT" mode.
3. Check "AUTO LOCK SET" setting in "WORK SUPPORT".
Refer to [DLK-809, "MULTI REMOTE ENT : CONSULT Function \(BCM - MULTI REMOTE ENT\) \(Without Super Lock\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "MODE 2", "MODE 3", "MODE 4", "MODE 5", "MODE 6" or "MODE 7" in "AUTO LOCK SET".

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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BACK DOOR DOES NOT OPEN

[TYPE 4]

< SYMPTOM DIAGNOSIS >

BACK DOOR DOES NOT OPEN

Diagnosis Procedure

INFOID:000000010755058

1. CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-833, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK BACK DOOR OPENER ACTUATOR

Check back door opener actuator.

Refer to [DLK-832, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 4]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Description

INFOID:0000000010755059

All doors do not lock/unlock using door lock and unlock switch.

ALL DOOR : Diagnosis Procedure

INFOID:0000000010755060

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check door lock and unlock power supply and ground circuit.

Refer to [DLK-848, "FRONT DOOR LOCK : Diagnosis Procedure"](#) (front door) and [DLK-848, "REAR DOOR LOCK : Diagnosis Procedure"](#) (rear door).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Refer to [DLK-840, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

FRONT DOOR

FRONT DOOR : Description

INFOID:0000000010755061

Front doors do not lock/unlock using door lock and unlock switch.

FRONT DOOR : Diagnosis Procedure

INFOID:0000000010755062

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check front door lock and unlock power supply and ground circuit.

Refer to [DLK-848, "FRONT DOOR LOCK : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK ACTUATOR

Check front door lock actuator.

Refer to [DLK-835, "DRIVER SIDE : Component Function Check"](#) (driver door).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 4]

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

REAR DOOR

REAR DOOR : Description

INFOID:000000010755063

Rear doors do not lock/unlock using door lock and unlock switch.

REAR DOOR : Diagnosis Procedure

INFOID:000000010755064

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check rear doors lock and unlock power supply and ground circuit.
Refer to [DLK-848, "REAR DOOR LOCK : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator.

Refer to [DLK-837, "REAR LH : Component Function Check"](#) (LH).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000010755065

Driver side door does not lock/unlock using door lock and unlock switch.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000010755066

1.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (driver side).

Refer to [DLK-835, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000010755067

Passenger side door does not lock/unlock using door lock and unlock switch.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 4]

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000010755068

1.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (passenger side).

Refer to [DLK-836. "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44. "Intermittent Incident"](#).

REAR LH

REAR LH : Description

INFOID:000000010755069

Rear LH side door does not lock/unlock using door lock and unlock switch.

REAR LH : Diagnosis Procedure

INFOID:000000010755070

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock assembly LH.

Refer to [DLK-837. "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44. "Intermittent Incident"](#).

REAR RH

REAR RH : Description

INFOID:000000010755071

Rear RH side door does not lock/unlock using door lock and unlock switch.

REAR RH : Diagnosis Procedure

INFOID:000000010755072

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock assembly RH

Refer to [DLK-838. "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-121. "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[TYPE 4]

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

< SYMPTOM DIAGNOSIS >

[TYPE 4]

DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

Diagnosis Procedure

INFOID:000000010781000

1. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 2.

NO >> Refer to [DLK-855, "ALL DOOR : Diagnosis Procedure"](#).

2. CHECK UNLOCK SENSOR

Check unlock sensor.

Refer to [DLK-850, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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DOOR DOES NOT LOCK/UNLOCK WITH KEYFOB

[TYPE 4]

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH KEYFOB

Diagnosis Procedure

INFOID:000000010755073

1.CHECK KEYFOB LED

Check keyfob LED is blink using keyfob button operation.

Is the inspection result normal?

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

2.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

- YES >> GO TO 5.
- NO >> Refer to [DLK-855, "ALL DOOR : Diagnosis Procedure"](#).

3.CHECK KEYFOB

Check the inside of the keyfob for rust or corrosion by water. Simultaneously check the internal circuits for damage.

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Replace keyfob.

4.CHECK KEYFOB BATTERY

Check keyfob battery.

Refer to [DLK-847, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace the malfunctioning parts.

5.CHECK KEY SWITCH

Check key switch.

Refer to [DLK-845, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Repair or replace the malfunctioning parts.

6.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-842, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 7.
- NO >> Repair or replace the malfunctioning parts.

7.REPLACE KEYFOB

1. Replace keyfob.
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 4]

KEY REMINDER FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010755076

1. CHECK KEY SWITCH

Check key switch.

Refer to [DLK-845, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK DRIVER SIDE DOOR SWITCH

Check driver side door switch.

Refer to [DLK-842, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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REMINDER FUNCTION DOES NOT OPERATE

[TYPE 4]

< SYMPTOM DIAGNOSIS >

REMINDER FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010755077

1. CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

- YES >> GO TO 2.
- NO-1 >> Refer to [BCS-78, "DTC Index"](#). (BCM)
- NO-2 >> Refer to [MWI-105, "DTC Index"](#). (Combination meter)

2. CHECK HAZARD WARNING LAMP

Check hazard warning lamp.

Refer to [DLK-844, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

UNLOCK LINK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[TYPE 4]

UNLOCK LINK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000010780996

1. CHECK DRIVER SIDE OR PASSENGER SIDE DOOR SWITCH

Check driver side or passenger side door switch.
Refer to [DLK-842, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace the malfunctioning parts.

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-121, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> INSPECTION END
- NO >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

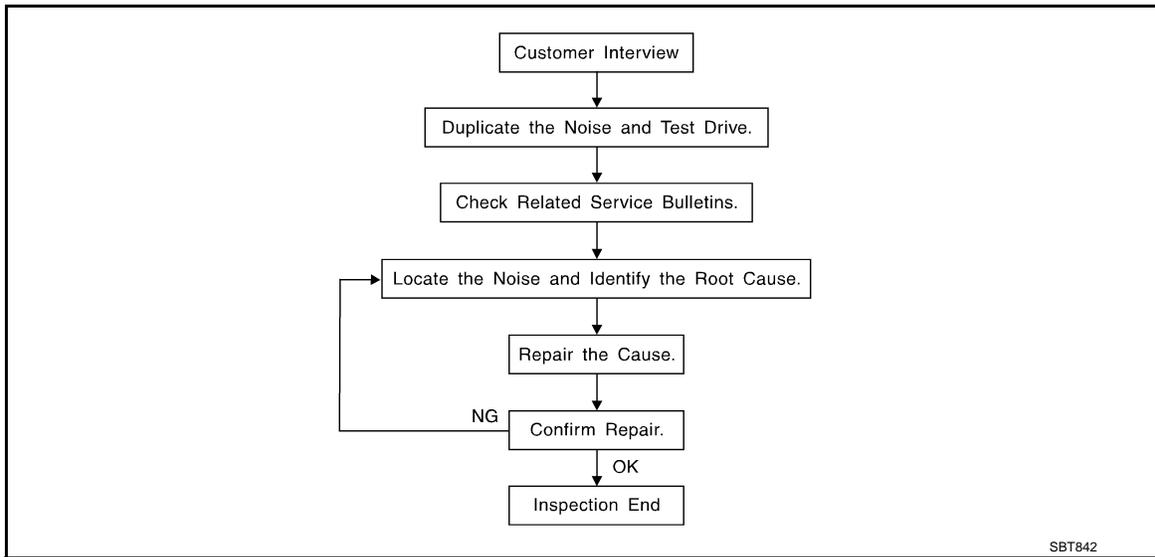
< SYMPTOM DIAGNOSIS >

[TYPE 4]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000010755080



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-868, "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 >

[TYPE 4]

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-866. "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 >

[TYPE 4]

INFOID:000000010755081

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 >

[TYPE 4]

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 >

[TYPE 4]

Diagnostic Worksheet

INFOID:000000010755082



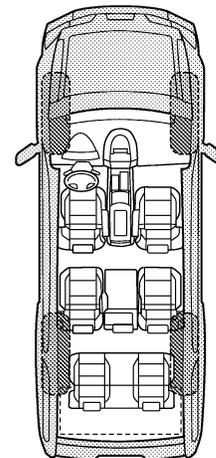
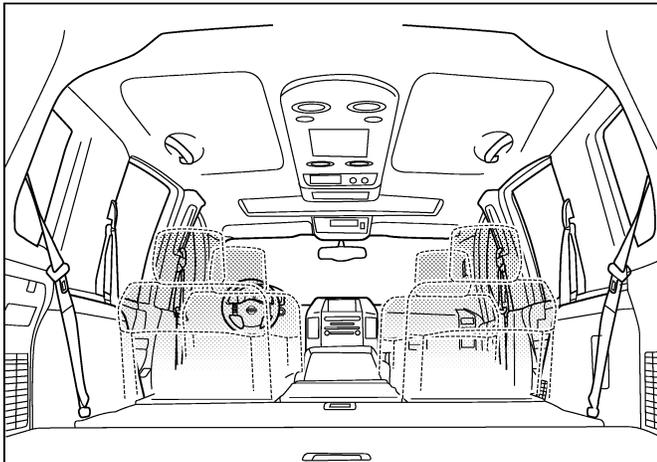
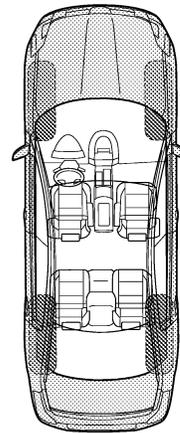
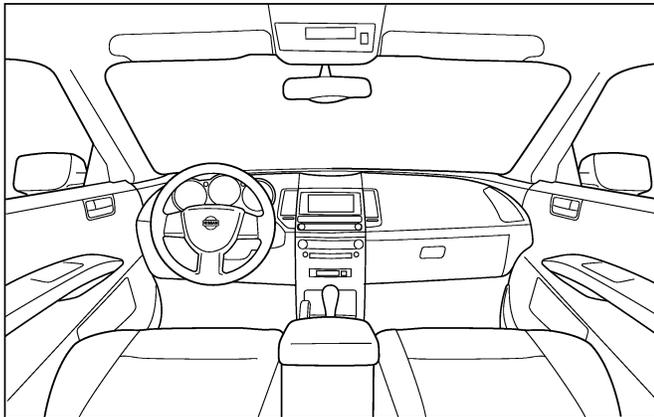
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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 >

[TYPE 4]

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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HOOD

< REMOVAL AND INSTALLATION >

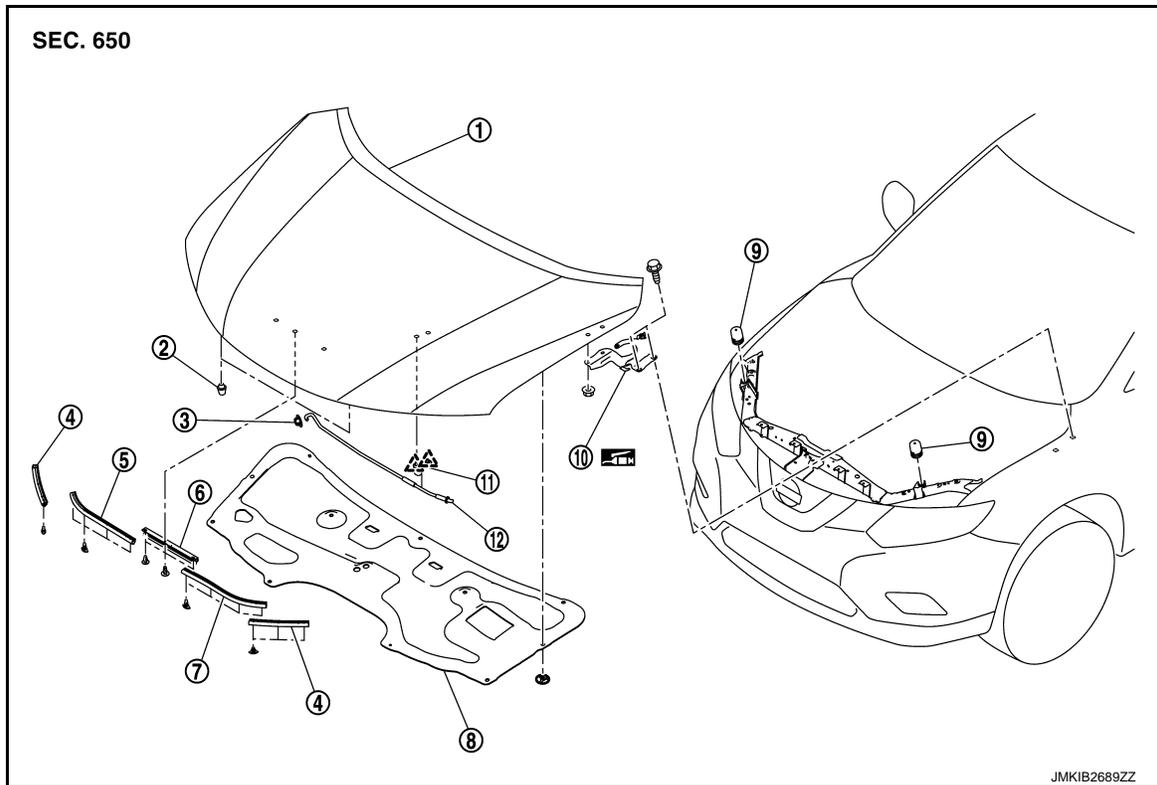
[TYPE 4]

REMOVAL AND INSTALLATION

HOOD

Exploded View

INFOID:000000010728617



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|-------------------------|-------------------------|----------------------|
| ① Hood assembly | ② Bumper rubber | ③ Hood rod grommet |
| ④ Radiator core seal | ⑤ Radiator core seal RH | ⑥ Radiator core seal |
| ⑦ Radiator core seal LH | ⑧ Hood insulator | ⑨ Hood bumper rubber |
| ⑩ Hood hinge | ⑪ Hood rod clamp | ⑫ Hood support rod |

 : Pawl

 : Body grease

HOOD ASSEMBLY

HOOD ASSEMBLY : Removal and Installation

INFOID:000000010728618

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- Use protective tape or shop cloth to protect from damage during removal and installation.

REMOVAL

1. Support hood assembly with the proper material to prevent it from falling.

WARNING:

Injury may occur if hood assembly is not supported with appropriate material when removing hood assembly.

2. Remove hood assembly mounting nuts, and then remove hood assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

HOOD

[TYPE 4]

< REMOVAL AND INSTALLATION >

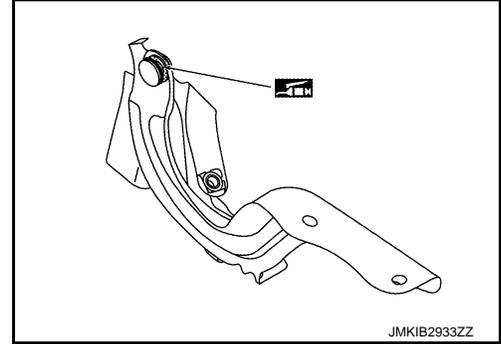
- Before installation of hood, apply anticorrosive agent onto the mounting surface of the hood hinge.
- After installing, perform hood fitting adjustment. Refer to [DLK-871, "HOOD ASSEMBLY : Adjustment"](#).
- Apply touch-up paint to the body color if the paint around the hinge is peeled off during removal.
- After installation, check that hood opens and closes normally. Refer to [DLK-871, "HOOD ASSEMBLY : Inspection"](#).

HOOD ASSEMBLY : Inspection

INFOID:000000010728619

1. Open and close the hood. Check that hood hinge rotation portion moves smoothly.
2. Check hood hinge rotating part for poor lubrication. If necessary, apply grease.

 : Body grease



INFOID:000000010728620

HOOD ASSEMBLY : Adjustment

FITTING ADJUSTMENT

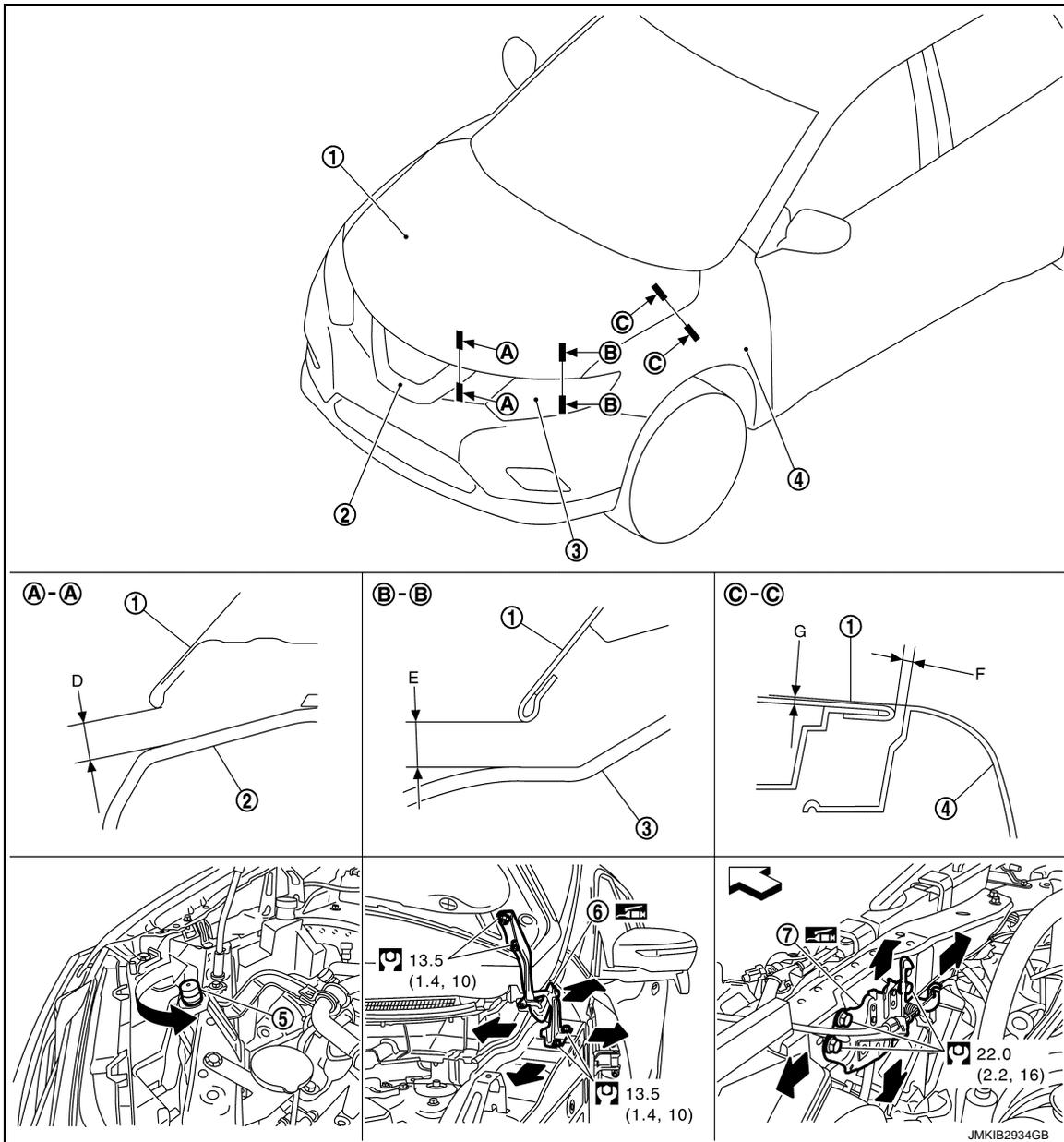
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HOOD

< REMOVAL AND INSTALLATION >

[TYPE 4]



- ① Hood assembly
- ② Front grille
- ③ Front combination lamp
- ④ Front fender
- ⑤ Hood bumper rubber
- ⑥ Hood hinge
- ⑦ Hood lock assembly

← : Vehicle front

: N·m (kg-m, ft-lb)

: Body grease

Fitting Adjustment Standard

Check the clearance and the surface height between hood and each part by visually and touching.

If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

HOOD

< REMOVAL AND INSTALLATION >

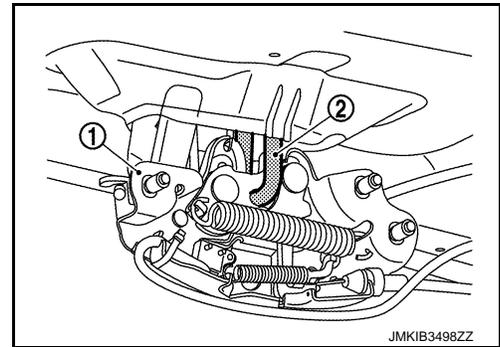
[TYPE 4]

Unit: mm [in]

Portion			Standard	Difference (RH/LH, MAX)
Hood – Front grille	Ⓐ – Ⓐ	D	7.2 – 11.2 [0.283 – 0.441]	—
Hood – Front combination lamp	Ⓑ – Ⓑ	E	7.0 – 11.0 [0.276 – 0.433]	—
Hood – Front fender	Ⓒ – Ⓒ	F	2.5 – 4.5 [0.098 – 0.177]	< 1.4 [0.055]
		G	(-1.0) – (+1.0) [(-0.039) – (+0.039)]	< 1.4 [0.055]

Fitting Adjustment Procedure

1. Remove hood lock assembly mounting bolts, and then remove hood lock assembly.
2. Adjust the surface height of hood assembly according to the specified value by rotating hood bumper rubber.
3. Loosen hood hinge mounting bolts, and then adjust clearance of hood according to the specified value by moving the hood assembly.
4. Tighten hood hinge mounting bolts to the specified torque.
5. Install hood lock assembly and temporarily tighten hood lock assembly mounting bolts, and then position hood lock assembly ① and engage primary striker ②. Check hood lock assembly and primary striker for looseness.



6. Move hood lock assembly laterally until the center of primary striker and hood lock assembly are vertical when viewed from the front.
7. Tighten hood lock assembly mounting bolts to the specified torque.
8. After adjusting, check that hood opens and closes normally. Refer to [DLK-911, "HOOD LOCK : Inspection"](#).

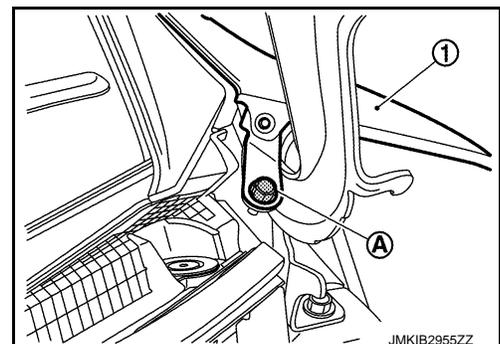
HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:000000010728621

REMOVAL

1. Remove hood assembly. Refer to [DLK-870, "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove upper mounting bolt Ⓐ of front fender assembly ①.



HOOD

[TYPE 4]

< REMOVAL AND INSTALLATION >

3. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the hood hinge.
- After installation, perform hood fitting adjustment. Refer to [DLK-871, "HOOD ASSEMBLY : Adjustment"](#).
- Apply touch-up paint to the body color if the paint around the hinge is peeled off during removal.
- After installation, check that hood opens and closes normally. Refer to [DLK-871, "HOOD ASSEMBLY : Inspection"](#).

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000010728623

CAUTION:

2 workers are required to support the hood.

REMOVAL

1. Support hood assembly with a suitable material to prevent it from falling.

WARNING:

Injury may occur if hood assembly is not supported by the proper material when removing hood assembly.

2. Pull hood support rod from grommet and remove it.

INSTALLATION

Install in the reverse order of removal.

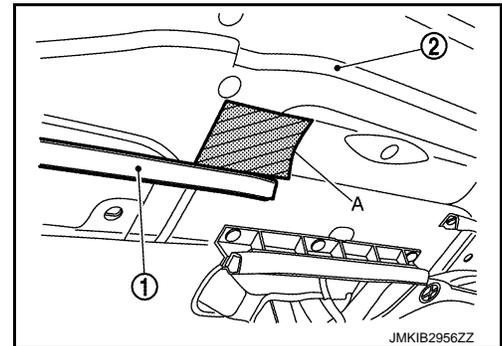
RADIATOR CORE SEAL

RADIATOR CORE SEAL : Removal and Installation

INFOID:000000010728623

REMOVAL

1. Apply protective tape (A) to hood assembly ② around radiator core seal ① fixing clips for preventing damage.

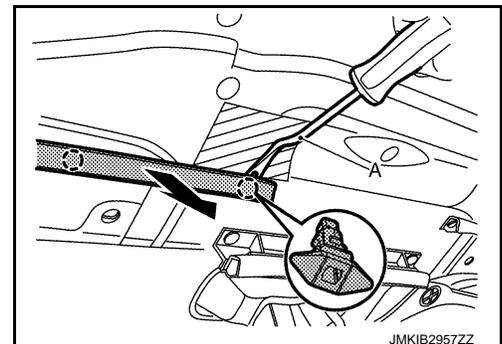


2. Disengage fixing clips on the reverse side of radiator core seal using a remover tool (A).

CAUTION:

Never damage hood assembly.

○ : Clip



3. Remove radiator core seal from hood assembly.

INSTALLATION

HOOD

[TYPE 4]

< REMOVAL AND INSTALLATION >

Install in the reverse order of removal.

HOOD INSULATOR

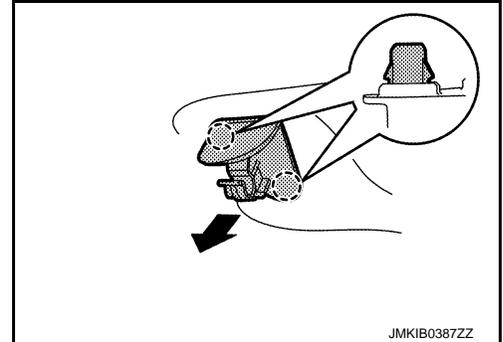
HOOD INSULATOR : Removal and Installation

INFOID:0000000010728624

REMOVAL

1. Remove hood rod clamp from hood assembly.

 : Clip



2. Remove hood insulator fixing clips, and then remove hood insulator from hood assembly.

INSTALLATION

Install in the reverse order of removal.

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RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

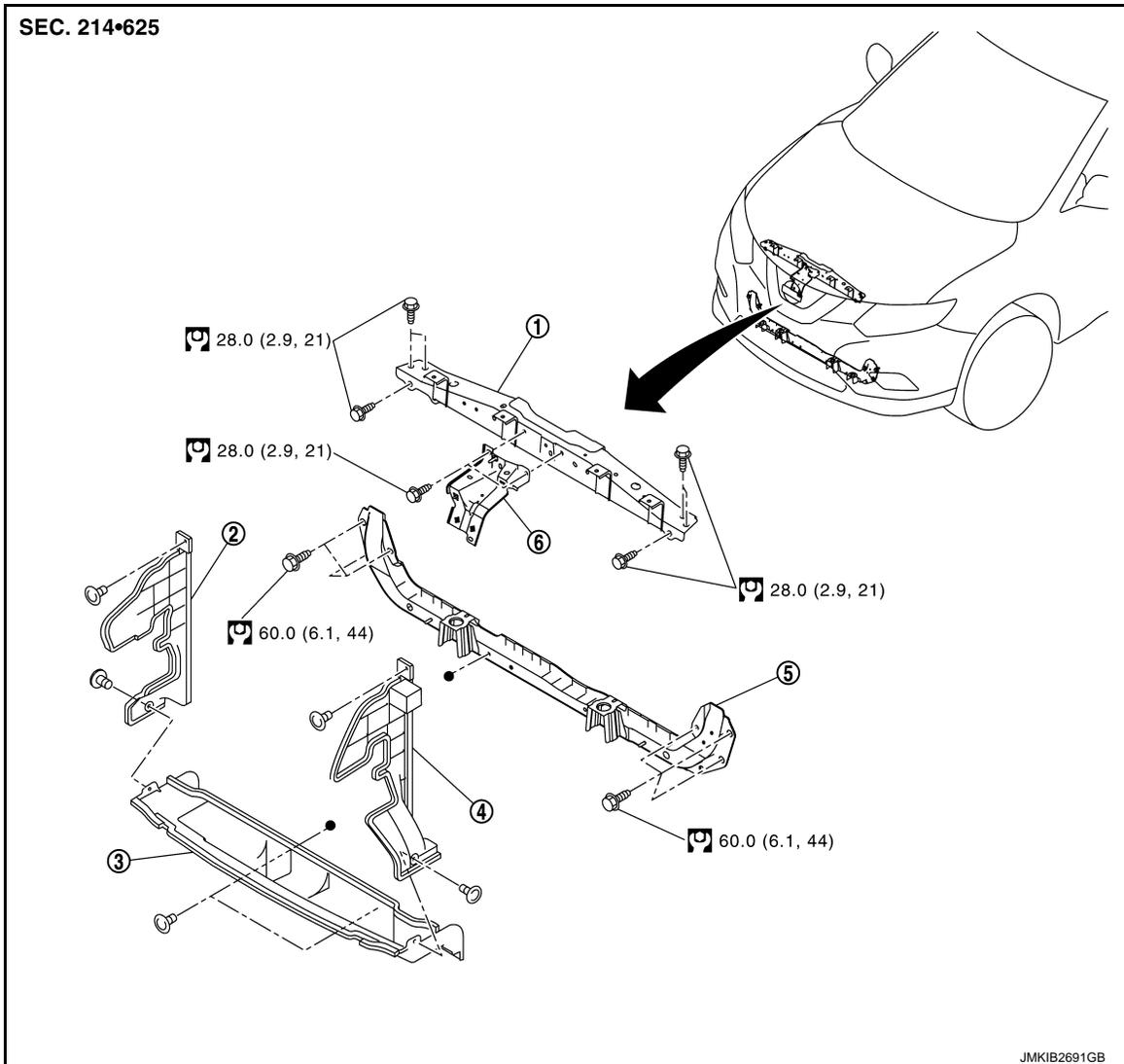
[TYPE 4]

RADIATOR CORE SUPPORT

MR20DD

MR20DD : Exploded View

INFOID:000000010728625



- | | | |
|-------------------------------|-------------------------------|--------------------------|
| ① Radiator core support upper | ② Air guide RH | ③ Air lower guide |
| ④ Air guide LH | ⑤ Radiator core support lower | ⑥ Hood lock support stay |

 : N·m (kg·m, ft·lb)

●: Indicates that the part is connected at points with same symbol in actual vehicle.

MR20DD : Removal and Installation

INFOID:000000010728626

RADIATOR CORE SUPPORT UPPER

Removal

1. Remove air duct 1. Refer to [EM-31, "Removal and Installation"](#).
2. Remove front grille assembly. Refer to [EXT-22, "Removal and Installation"](#).
3. Remove hood lock assembly. Refer to [DLK-910, "HOOD LOCK : Removal and Installation"](#).
4. Remove hood lock control cable fixing clips from radiator core support upper. Refer to [DLK-910, "Exploded View"](#).

DLK-876

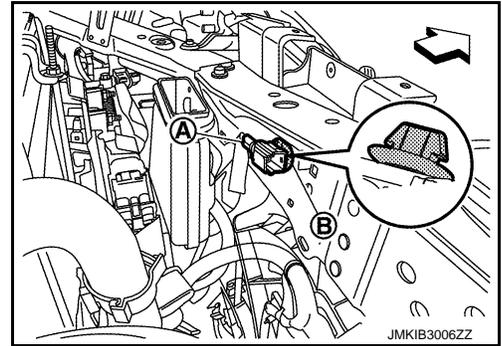
RADIATOR CORE SUPPORT

[TYPE 4]

< REMOVAL AND INSTALLATION >

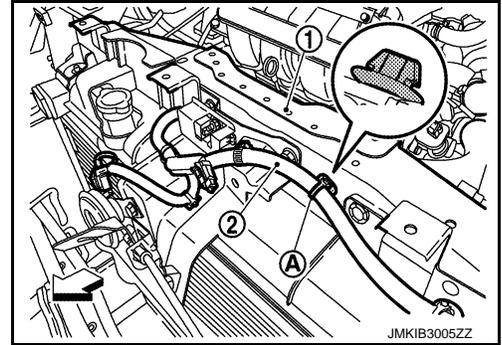
5. Remove fixing clip ② of engine room harness connector ①.

↔ : Vehicle front



6. Remove fixing clip ① of engine room harness ② from radiator core support upper ③.

↔ : Vehicle front



7. Remove crash zone sensor. Refer to [SR-31, "Removal and Installation"](#).
8. Remove hood lock support stay mounting bolts, and then move hood lock support stay to a location where it does not inhibit work.
9. Remove radiator mounting bracket fixing clips. Refer to [CO-17, "Exploded View"](#).
10. Remove radiator core support upper mounting bolts, and then remove radiator core support upper.

Installation

Install in the reverse order of removal.

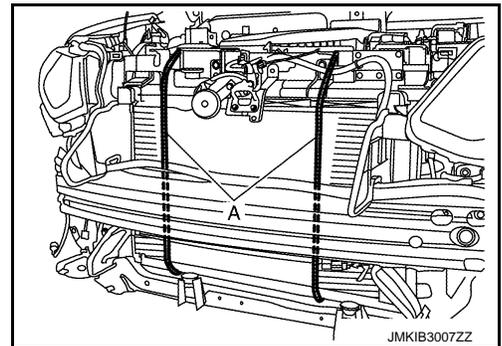
RADIATOR CORE SUPPORT LOWER

Removal

1. Remove front bumper fascia and apron bracket. Refer to [EXT-15, "Removal and Installation"](#).
2. Remove air lower guide fixing clips, and then remove air lower guide.
3. Use belts (A) to suspend radiator and condenser to prevent them from falling as shown in the figure.

CAUTION:

Never damage radiator and condenser.



4. Remove radiator core support lower mounting bolts, and then remove radiator core support lower.

Installation

Install in the reverse order of removal.

QR25DE

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DLK

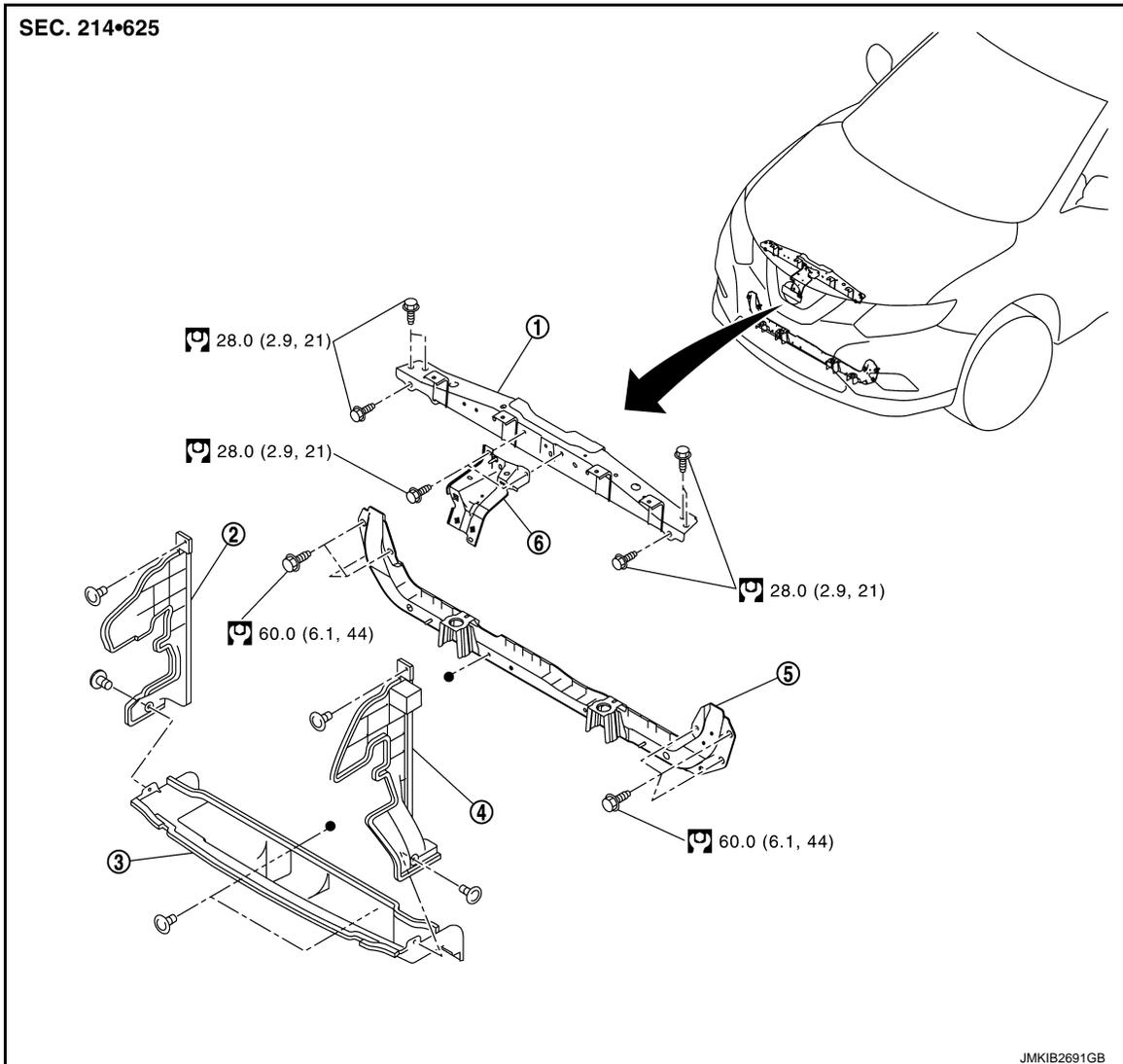
RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

[TYPE 4]

QR25DE : Exploded View

INFOID:000000010728627



- | | | |
|-------------------------------|-------------------------------|--------------------------|
| ① Radiator core support upper | ② Air guide RH | ③ Air lower guide |
| ④ Air guide LH | ⑤ Radiator core support lower | ⑥ Hood lock support stay |

 : N-m (kg-m, ft-lb)

●: Indicates that the part is connected at points with same symbol in actual vehicle.

QR25DE : Removal and Installation

INFOID:000000010728628

RADIATOR CORE SUPPORT UPPER

Removal

1. Remove air duct 1. Refer to [EM-175, "Removal and Installation"](#).
2. Remove front grille assembly. Refer to [EXT-22, "Removal and Installation"](#).
3. Remove hood lock assembly. Refer to [DLK-910, "HOOD LOCK : Removal and Installation"](#).
4. Remove hood lock control cable fixing clips from radiator core support upper. Refer to [DLK-910, "Exploded View"](#).

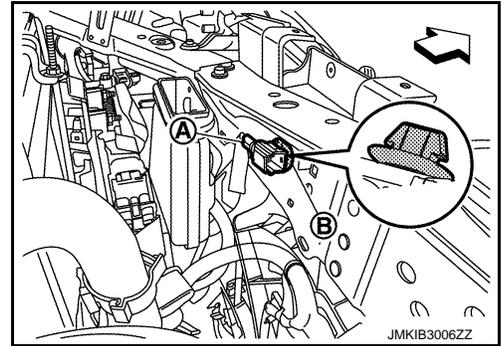
RADIATOR CORE SUPPORT

[TYPE 4]

< REMOVAL AND INSTALLATION >

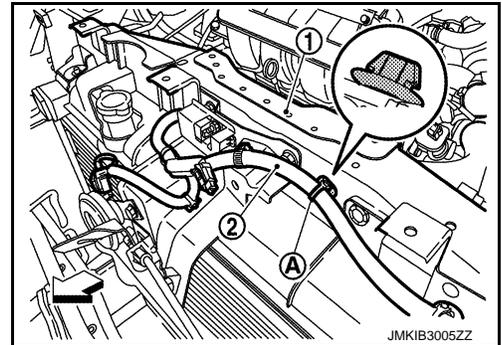
5. Remove fixing clip ② of engine room harness connector ①.

↔ : Vehicle front



6. Remove fixing clip ① of engine room harness ② from radiator core support upper ③.

↔ : Vehicle front



7. Remove crash zone sensor. Refer to [SR-31, "Removal and Installation"](#).
8. Remove hood lock support stay mounting bolts, and then move hood lock support stay to a location where it does not inhibit work.
9. Remove radiator mounting bracket fixing clips. Refer to [CO-43, "Exploded View"](#).
10. Remove radiator core support upper mounting bolts, and then remove radiator core support upper.

Installation

Install in the reverse order of removal.

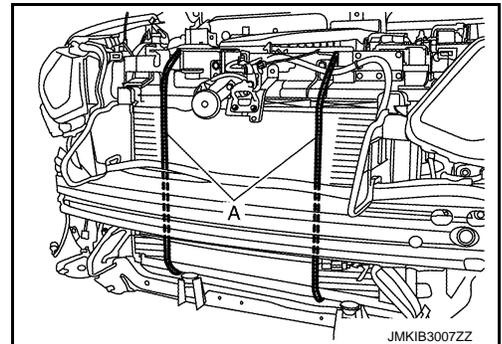
RADIATOR CORE SUPPORT LOWER

Removal

1. Remove front bumper fascia and apron bracket. Refer to [EXT-15, "Removal and Installation"](#).
2. Remove air lower guide fixing clips, and then remove air lower guide.
3. Remove CVT fluid cooler lower bracket mounting bolt and CVT fluid cooler tube bracket mounting bolts (if equipped). Refer to [TM-441, "QR25DE : Exploded View"](#).
4. Use belts (A) to suspend radiator and condenser to prevent them from falling as shown in the figure.

CAUTION:

Never damage radiator and condenser.



5. Remove radiator core support lower mounting bolts, and then remove radiator core support lower.

Installation

Install in the reverse order of removal.

R9M

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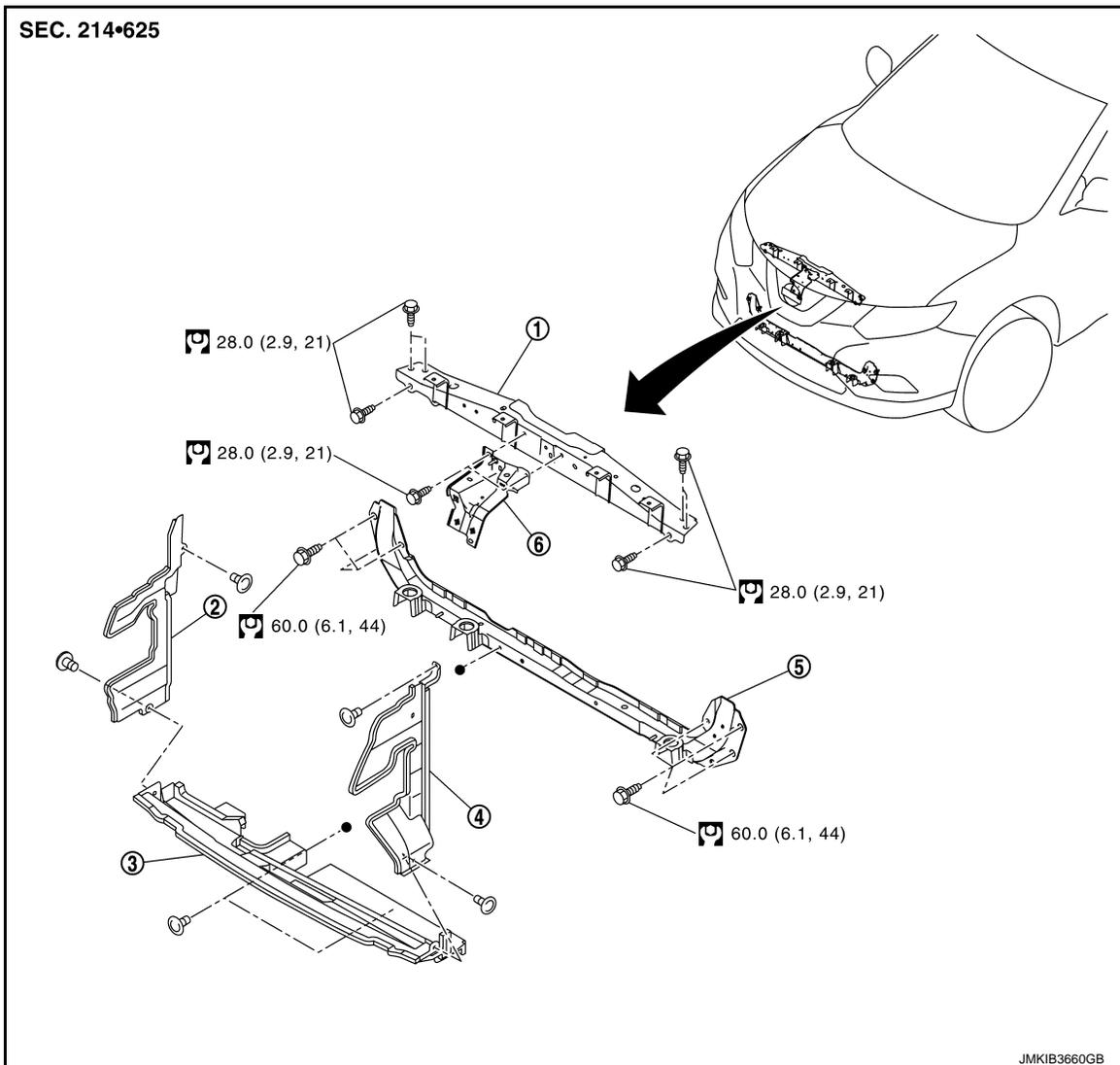
RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

[TYPE 4]

R9M : Exploded View

INFOID:000000010728629



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|-------------------------------|-------------------------------|--------------------------|
| ① Radiator core support upper | ② Air guide RH | ③ Air lower guide |
| ④ Air guide LH | ⑤ Radiator core support lower | ⑥ Hood lock support stay |

 : N·m (kg·m, ft·lb)

●: Indicates that the part is connected at points with same symbol in actual vehicle.

R9M : Removal and Installation

INFOID:000000010728630

RADIATOR CORE SUPPORT UPPER

Removal

1. Remove air duct 1. Refer to [EM-308, "Removal and Installation"](#).
2. Remove front grille assembly. Refer to [EXT-22, "Removal and Installation"](#).
3. Remove hood lock assembly. Refer to [DLK-910, "HOOD LOCK : Removal and Installation"](#).
4. Remove hood lock control cable fixing clips from radiator core support upper. Refer to [DLK-910, "Exploded View"](#).

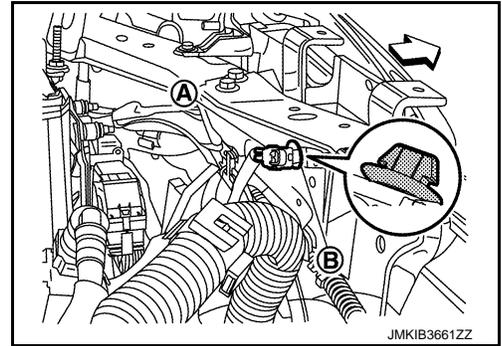
RADIATOR CORE SUPPORT

[TYPE 4]

< REMOVAL AND INSTALLATION >

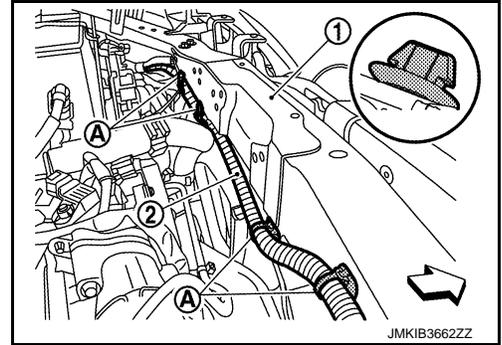
5. Remove fixing clip ② of engine room harness connector ①.

⇐ : Vehicle front



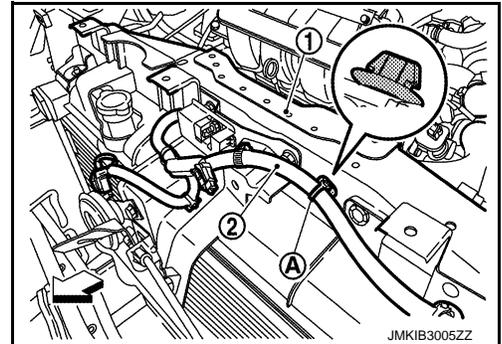
6. Remove fixing clips ① of engine room harness ② from radiator core support upper ③.

⇐ : Vehicle front



7. Remove fixing clip ① of engine room harness ② from radiator core support upper ③.

⇐ : Vehicle front



8. Remove crash zone sensor. Refer to [SR-31. "Removal and Installation"](#).
9. Remove hood lock support stay mounting bolts, and then move hood lock support stay to a location where it does not inhibit work.
10. Remove radiator mounting bracket fixing clips. Refer to [CO-70. "Exploded View"](#).
11. Remove radiator core support upper mounting bolts, and then remove radiator core support upper.

Installation

Install in the reverse order of removal.

RADIATOR CORE SUPPORT LOWER

Removal

1. Remove front bumper fascia and apron bracket. Refer to [EXT-15. "Removal and Installation"](#).
2. Remove air lower guide fixing clips, and then remove air lower guide.

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RADIATOR CORE SUPPORT

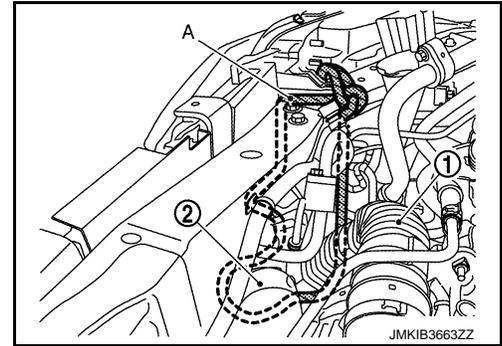
[TYPE 4]

< REMOVAL AND INSTALLATION >

- Using strings (A), hang inlet hose ① and inlet hose ② together with charge air cooler.

CAUTION:

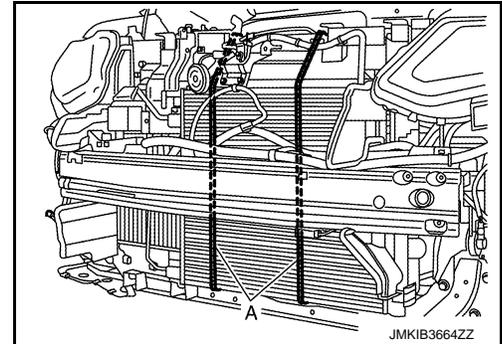
Never damage inlet hoses and charge air cooler.



- Use belts (A) to suspend radiator and condenser to prevent them from falling as shown in the figure.

CAUTION:

Never damage radiator and condenser.



- Remove radiator core support lower mounting bolts, and then remove radiator core support lower.

Installation

Install in the reverse order of removal.

FRONT FENDER

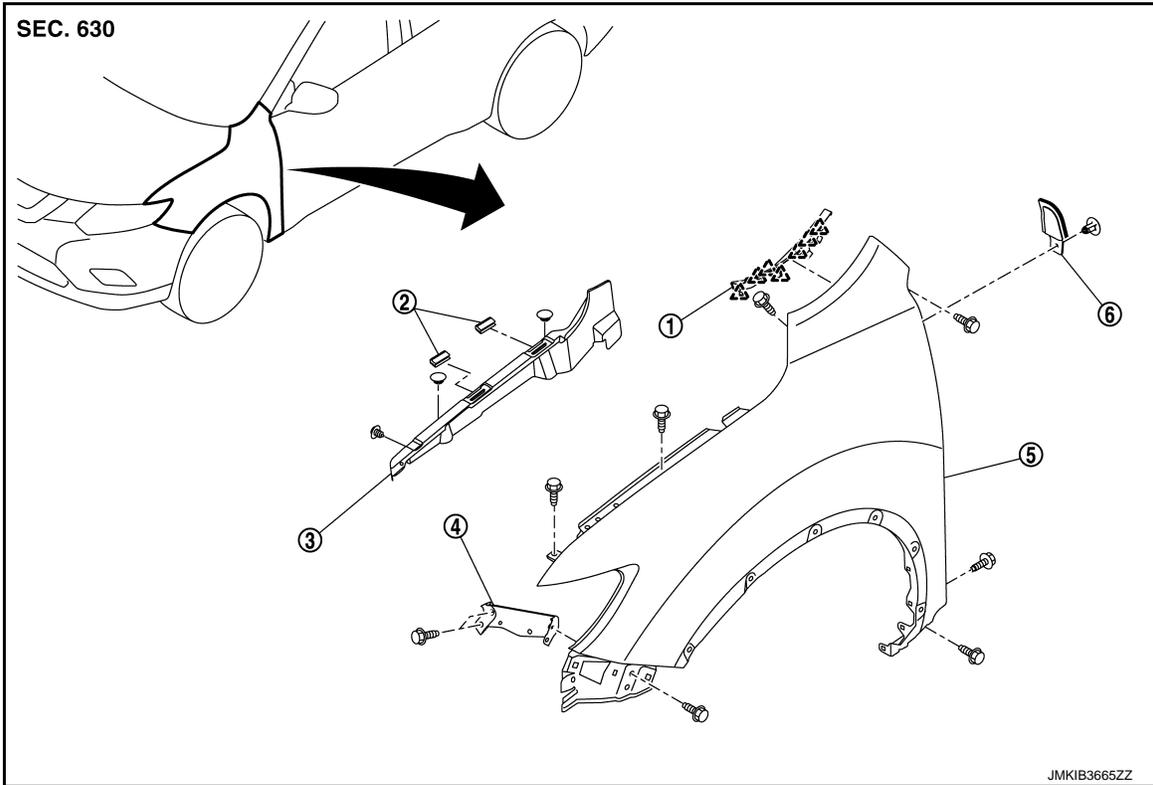
< REMOVAL AND INSTALLATION >

[TYPE 4]

FRONT FENDER

Exploded View

INFOID:000000010728631



- ① Front fender cover
- ④ Front fender bracket

- ② Front fender spacer
- ⑤ Front fender assembly

- ③ Front hood seal
- ⑥ Front fender seal

△ : Pawl

FRONT FENDER

FRONT FENDER : Removal and Installation

INFOID:000000010728632

REMOVAL

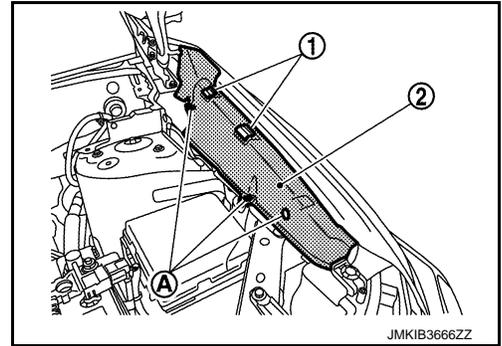
1. Remove front fender protector. Refer to [EXT-35, "FENDER PROTECTOR : Removal and Installation"](#).
2. Remove sill cover. Refer to [EXT-62, "Removal and Installation"](#).
3. Remove front bumper fascia assembly and bumper side bracket. Refer to [EXT-15, "Removal and Installation"](#).
4. Remove front combination lamp. Refer to [EXL-191, "Removal and Installation"](#) (LED headlamp), [EXL-376, "Removal and Installation"](#) (halogen headlamp).
5. Remove front fender cover. Refer to [DLK-884, "FENDER COVER : Removal and Installation"](#).

FRONT FENDER

[TYPE 4]

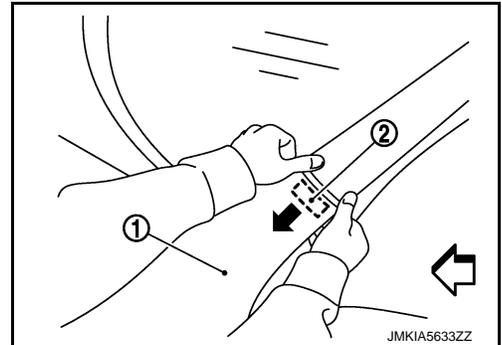
< REMOVAL AND INSTALLATION >

6. Remove front hood seal fixing clips (A) and front fender spacers (1), and then remove front hood seal (2).



7. Remove mounting bolts of front fender assembly.
8. Remove front fender stiffener (2) from the vehicle body while carefully pulling upper portion of front fender (1) toward vehicle outside.

⇐ : Vehicle front



9. Remove front fender assembly.

CAUTION:

A viscous urethane foam is installed on the back surface of front fender. When removing the front fender, be careful to not deform the front fender while performing the procedure and removing the viscous urethane foam a little at a time.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- After installation, adjust the following part.
- Hood assembly: Refer to [DLK-871, "HOOD ASSEMBLY : Adjustment"](#).
- Front door: Refer to [DLK-888, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.

FENDER COVER

FENDER COVER : Removal and Installation

INFOID:000000010728633

REMOVAL

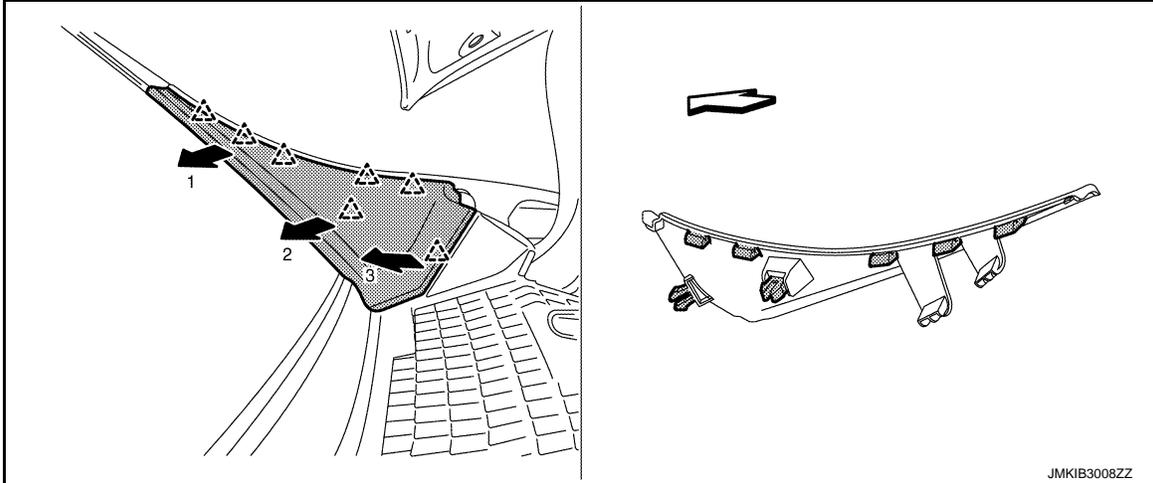
1. Fully open hood assembly.

FRONT FENDER

< REMOVAL AND INSTALLATION >

[TYPE 4]

2. Disengage fixing pawls according to the numerical order 1→3 indicated by arrows as shown in the figure, and then remove front fender cover.



- △ : Pawl
⇐ : Vehicle front

CAUTION:

When performing the procedure after removing fender cover, protect the lower of windshield glass with urethane etc.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

Install so that there is no clearance between windshield and cowl top cover.

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FRONT DOOR

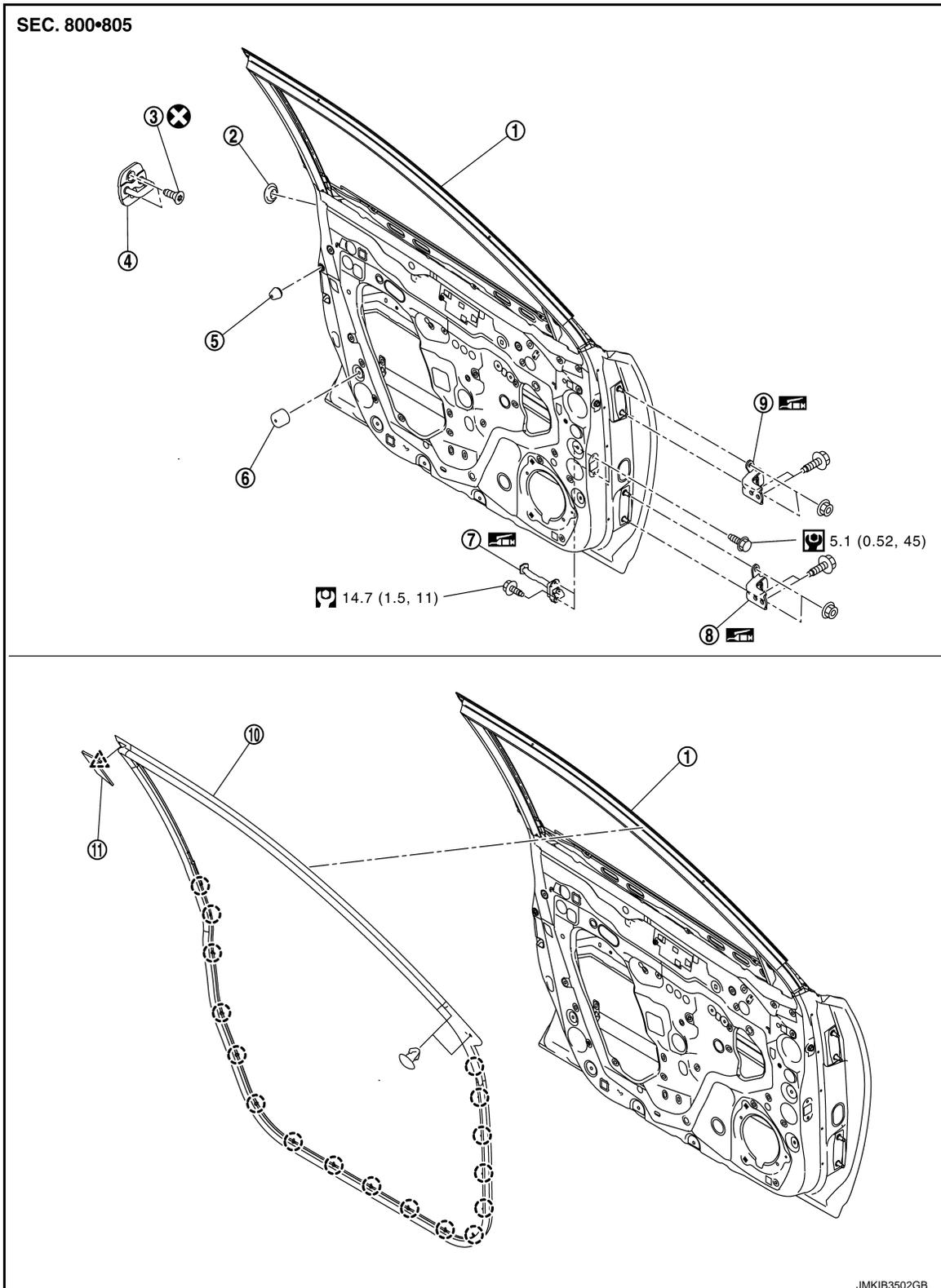
< REMOVAL AND INSTALLATION >

[TYPE 4]

FRONT DOOR

Exploded View

INFOID:000000010728634



① Front door panel

② Grommet

③ TORX bolt

④ Door striker

⑤ Bumper rubber

⑥ Bumper rubber

DLK-886

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 4]

- | | | |
|----------------------------|---------------------------------|----------------------|
| ⑦ Door check link | ⑧ Door hinge (lower) | ⑨ Door hinge (upper) |
| ⑩ Front door weather-strip | ⑪ Front door weather-strip clip | |
- : Clip
△ : Pawl
⊗ : Always replace after every disassembly.
Ⓜ : N·m (kg-m, in-lb)
Ⓜ : N·m (kg-m, ft-lb)
Ⓜ : Body grease

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

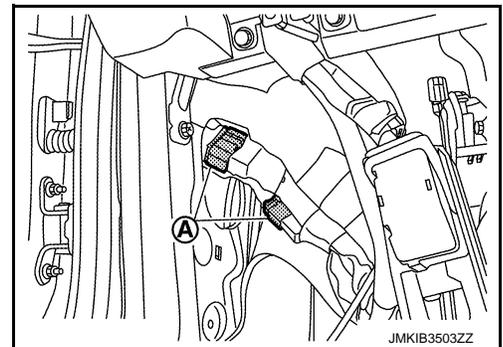
INFOID:000000010728635

CAUTION:

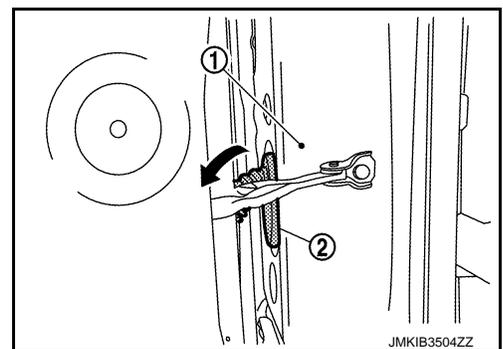
- Perform work with 2 workers, because of its heavy weight.
- When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

1. Remove dash side finisher. Refer to [INT-26. "DASH SIDE FINISHER : Removal and Installation"](#).
2. Remove SMJ (super multiple junction).
3. Disconnect front door harness connectors (A).



4. Remove front door harness grommet (2) from vehicle body (1), and then pull out front door harness from vehicle body.



5. Remove mounting bolt of door check link on vehicle body.
6. Remove door hinge mounting nuts of door side, and then remove front door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-888. "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

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FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 4]

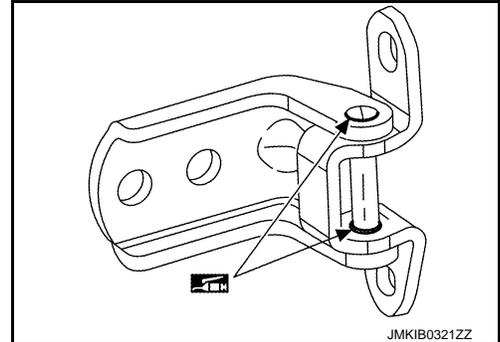
- After installation, check that door opens and closes normally. Refer to [DLK-888. "DOOR ASSEMBLY : Inspection"](#).

DOOR ASSEMBLY : Inspection

INFOID:000000010728636

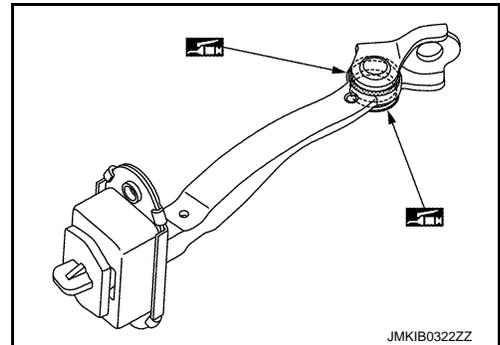
1. Open and close the door. Check that door hinge and check link rotation portion moves smoothly.
2. Check door hinge rotating part for poor lubrication. Apply body grease if necessary.

 : Body grease



3. Check door check link rotating part for poor lubrication. Apply body grease if necessary.

 : Body grease



DOOR ASSEMBLY : Adjustment

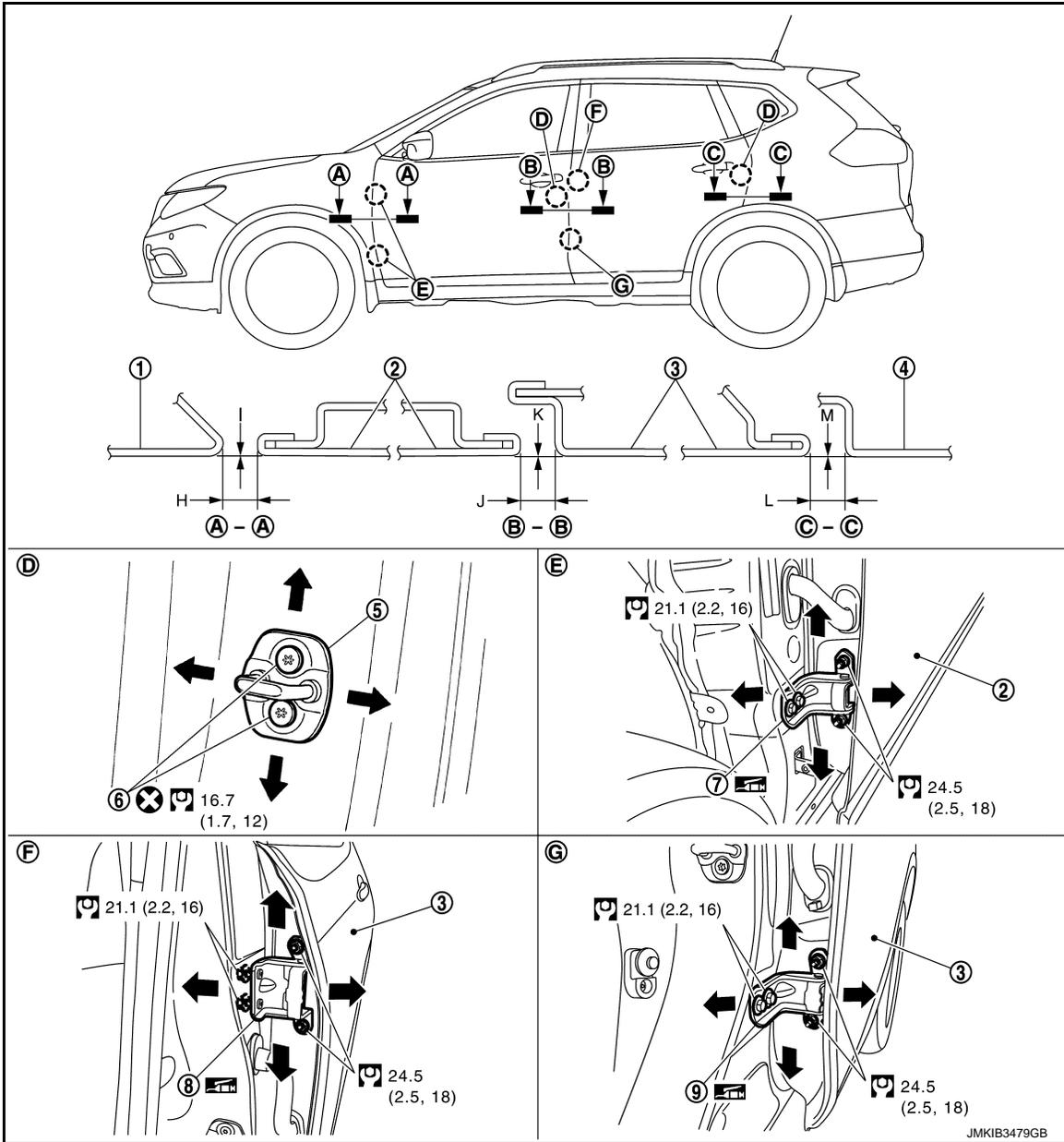
INFOID:000000010728637

FITTING ADJUSTMENT

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 4]



- ① Front fender
- ② Front door
- ③ Rear door
- ④ Body side outer
- ⑤ Door striker
- ⑥ TORX bolt
- ⑦ Front door hinge
- ⑧ Rear door hinge (upper)
- ⑨ Rear door hinge (lower)

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, ft·lb)

Ⓜ : Body grease

Fitting Adjustment Standard

Check the clearance and surface height between front door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

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JMKIB3479GB

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 4]

Unit: mm [in]

Portion				Standard
Front fender – Front door	Ⓐ – Ⓐ	H	Clearance	3.0 – 5.0 [0.118 – 0.197]
		I	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]
Front door – Rear door	Ⓑ – Ⓑ	J	Clearance	3.3 – 5.3 [0.130 – 0.209]
		K	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]

Fitting Adjustment Procedure

1. Remove front fender assembly. Refer to [DLK-883, "FRONT FENDER : Removal and Installation"](#).
2. Loosen door hinge mounting nuts of door side.
3. Adjust the surface height of front door according to the fitting standard dimension.
4. Temporarily tighten door hinge mounting nuts on door side.
5. Loosen door hinge mounting bolts of vehicle body side.
6. Raise front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
7. After adjustment, tighten bolts and nuts to the specified torque.
CAUTION:
After installation, apply touch-up paint (the body color) onto the head of hinge mounting bolts and nuts.
8. Install front fender assembly. Refer to refer to [DLK-883, "FRONT FENDER : Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:000000010728638

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- After installation, perform the fitting adjustment. Refer to [DLK-888, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, check that door opens and closes normally. Refer to [DLK-888, "DOOR ASSEMBLY : Inspection"](#).

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:000000010728639

REMOVAL

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
 - When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.
1. Remove front door assembly. Refer to [DLK-887, "DOOR ASSEMBLY : Removal and Installation"](#).
 2. Remove front fender assembly. Refer to [DLK-883, "FRONT FENDER : Removal and Installation"](#).
 3. Remove front door hinge mounting bolts of vehicle body side, and then remove front door hinge.

INSTALLATION

FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 4]

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-888, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts.
- After installation, check that door opens and closes normally. Refer to [DLK-888, "DOOR ASSEMBLY : Inspection"](#).

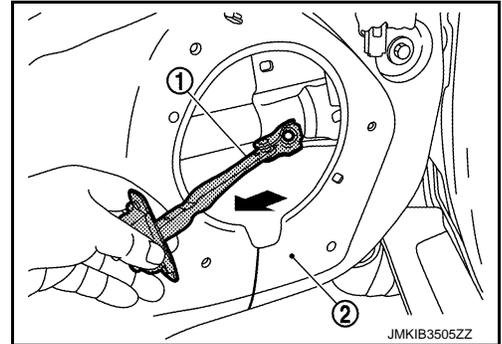
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000010728640

REMOVAL

1. Fully close front door glass.
2. Remove front door finisher. Refer to [INT-14, "Removal and Installation"](#).
3. Disconnect harness connector of front door speaker.
4. Remove mounting bolts of front door speaker, and then remove front door speaker.
5. Remove door check link mounting bolt of vehicle body side.
6. Remove door check link mounting bolts of door panel, and then take door check link ① out from the hole of door panel ②.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check that door opens and closes normally. Refer to [DLK-888, "DOOR ASSEMBLY : Inspection"](#).

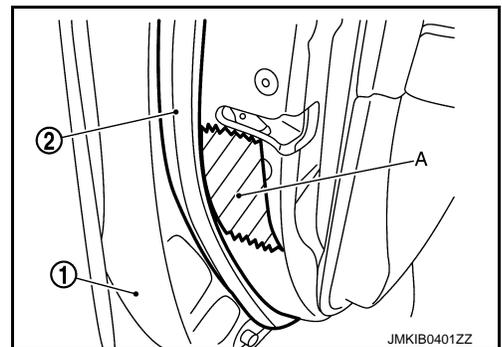
DOOR WEATHER-STRIP

DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000010728641

REMOVAL

1. Apply protective tape (A) to front door panel ① around front door weather-strip ② fixing clips for preventing damage.



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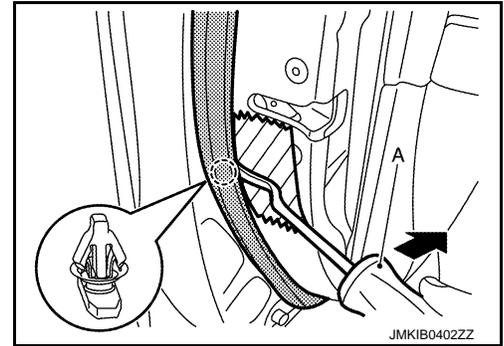
FRONT DOOR

[TYPE 4]

< REMOVAL AND INSTALLATION >

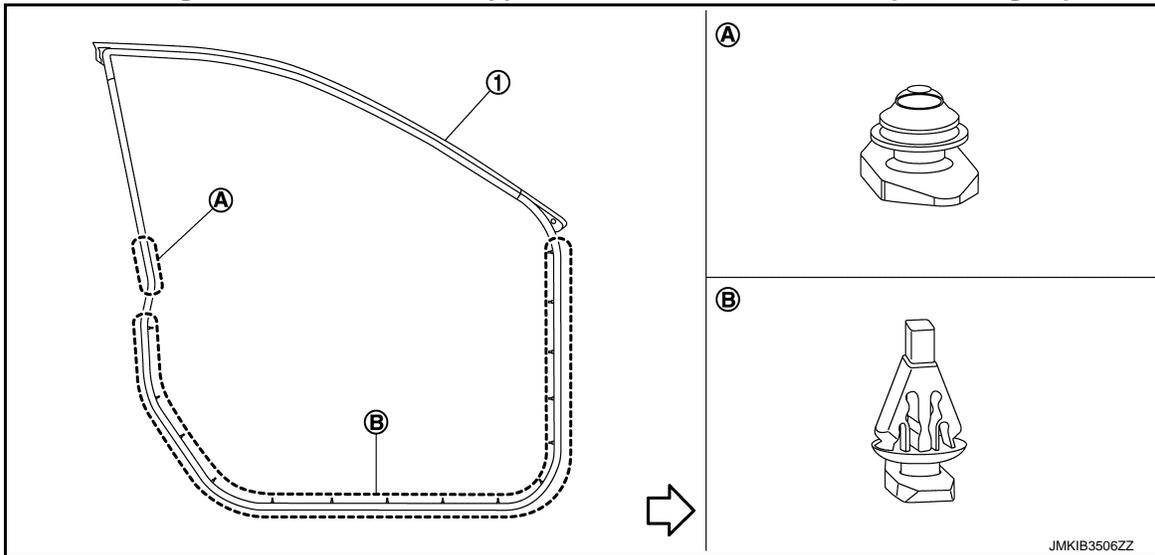
- Disengage fixing clips on the reverse side of front door weather-strip using a remover tool (A).

 : Clip



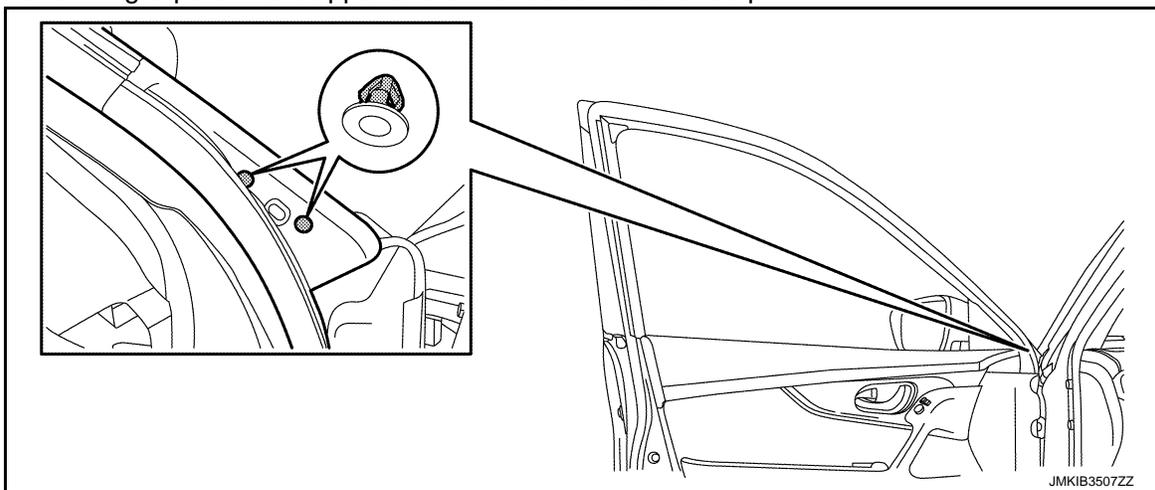
CAUTION:

- Never damage front door panel.
- When removing, never confuse the 2 types of front door weather-strip ① fixing clips (A) and (B).



 : Vehicle front

- Remove fixing clips on front upper end of front door weather-strip.

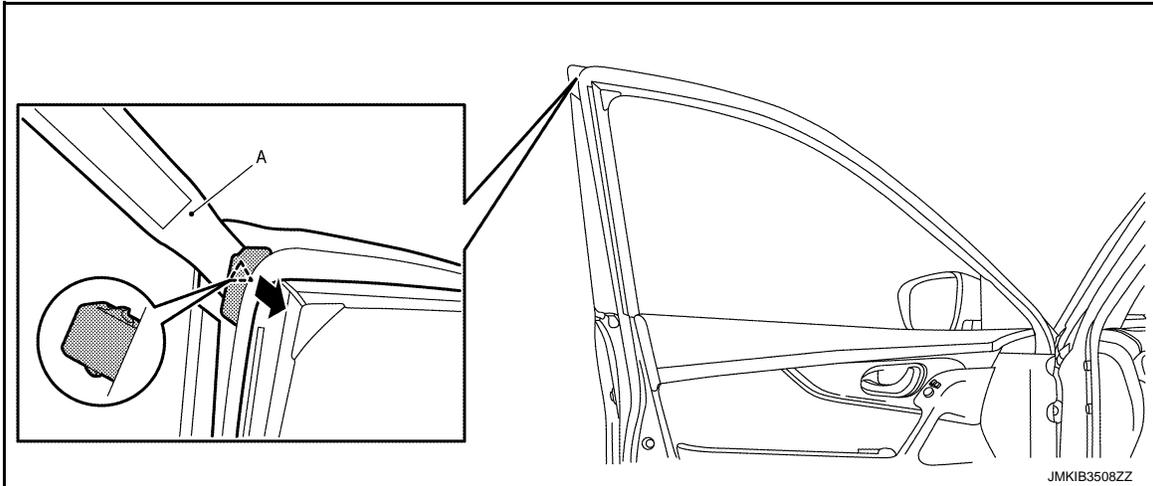


FRONT DOOR

< REMOVAL AND INSTALLATION >

[TYPE 4]

4. Disengage fixing pawl on rear upper end of front door weather-strip using a remover tool (A), and then remove weather-strip clip.



 : Pawl

5. Remove door check link mounting bolt of vehicle body side.
6. Remove front door weather-strip from front door panel.

INSTALLATION

Install in the reverse order of removal.

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DLK

REAR DOOR

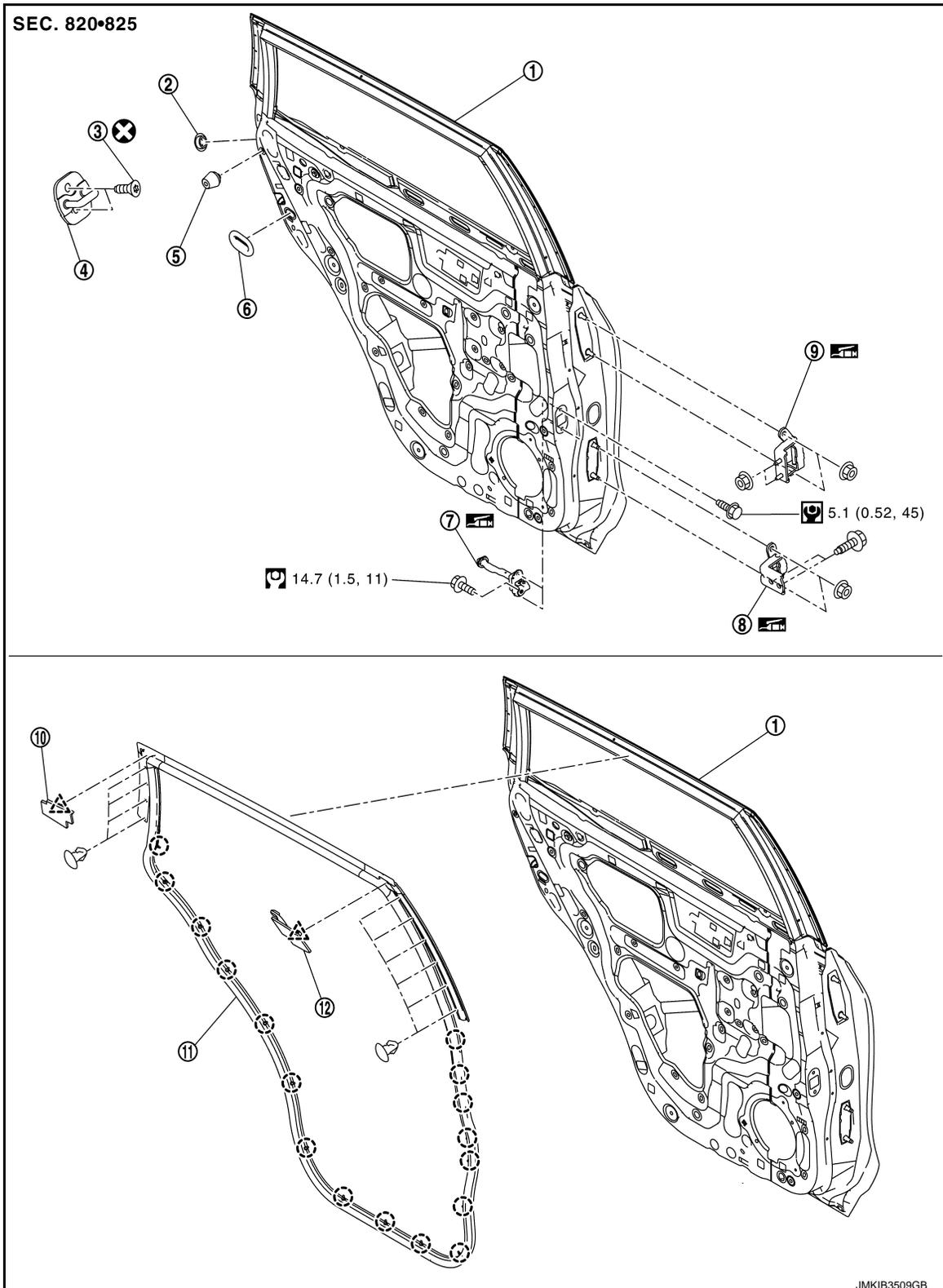
< REMOVAL AND INSTALLATION >

[TYPE 4]

REAR DOOR

Exploded View

INFOID:000000010728642



① Rear door panel

② Grommet

③ TORX bolt

④ Door striker

⑤ Bumper rubber

⑥ Child lock lever cover

DLK-894

REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 4]

- | | | |
|--------------------------------|---------------------------|--------------------------------|
| ⑦ Door check link | ⑧ Door hinge (lower) | ⑨ Door hinge (upper) |
| ⑩ Rear door weather-strip clip | ⑪ Rear door weather-strip | ⑫ Rear door weather-strip clip |

⊖ : Clip

△ : Pawl

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, in·lb)

Ⓜ : N·m (kg·m, ft·lb)

Ⓜ : Body grease

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

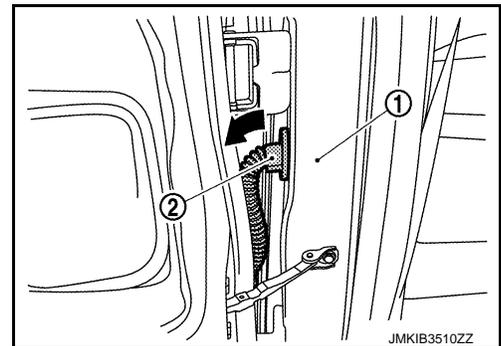
INFOID:000000010728643

CAUTION:

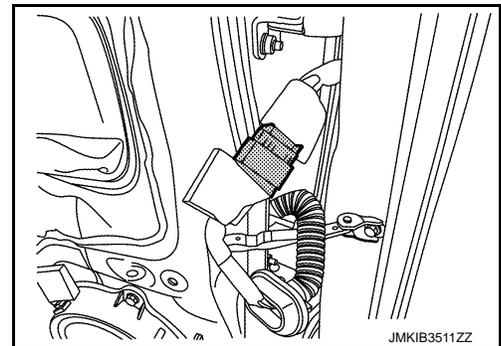
- Perform work with 2 workers, because of its heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

1. Remove rear door harness grommet ② from vehicle body ①, and then pull out rear door harness.



2. Disconnect rear door harness connector.



3. Remove mounting bolt of door check link of vehicle body side.
4. Remove door hinge mounting nuts of door side, and then remove door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-896, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-896, "DOOR ASSEMBLY : Inspection"](#).

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REAR DOOR

< REMOVAL AND INSTALLATION >

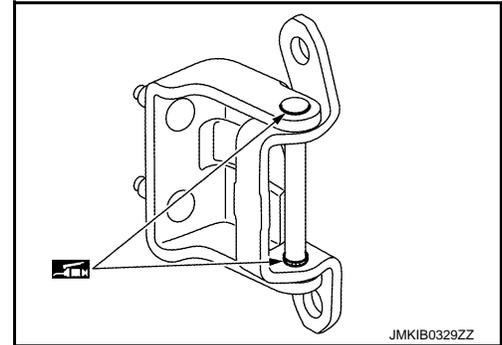
[TYPE 4]

DOOR ASSEMBLY : Inspection

INFOID:000000010728644

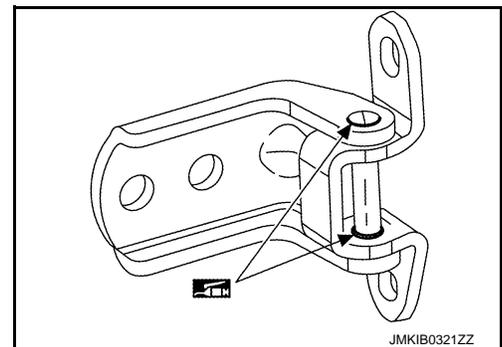
1. Open and close the door. Check that door hinge and check link rotation portion moves smoothly.
2. Check door hinge rotating part for poor lubrication. Apply body grease if necessary.
 - Door hinge (upper)

 : Body grease



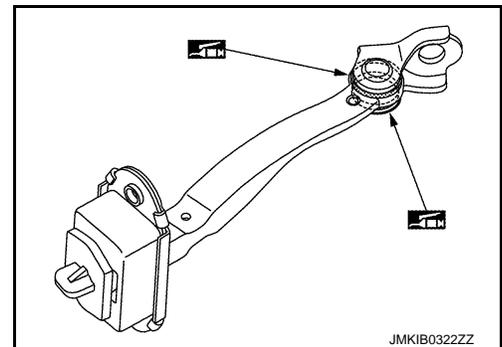
- Door hinge (lower)

 : Body grease



3. Check door check link rotating part for poor lubrication. Apply body grease if necessary.

 : Body grease



DOOR ASSEMBLY : Adjustment

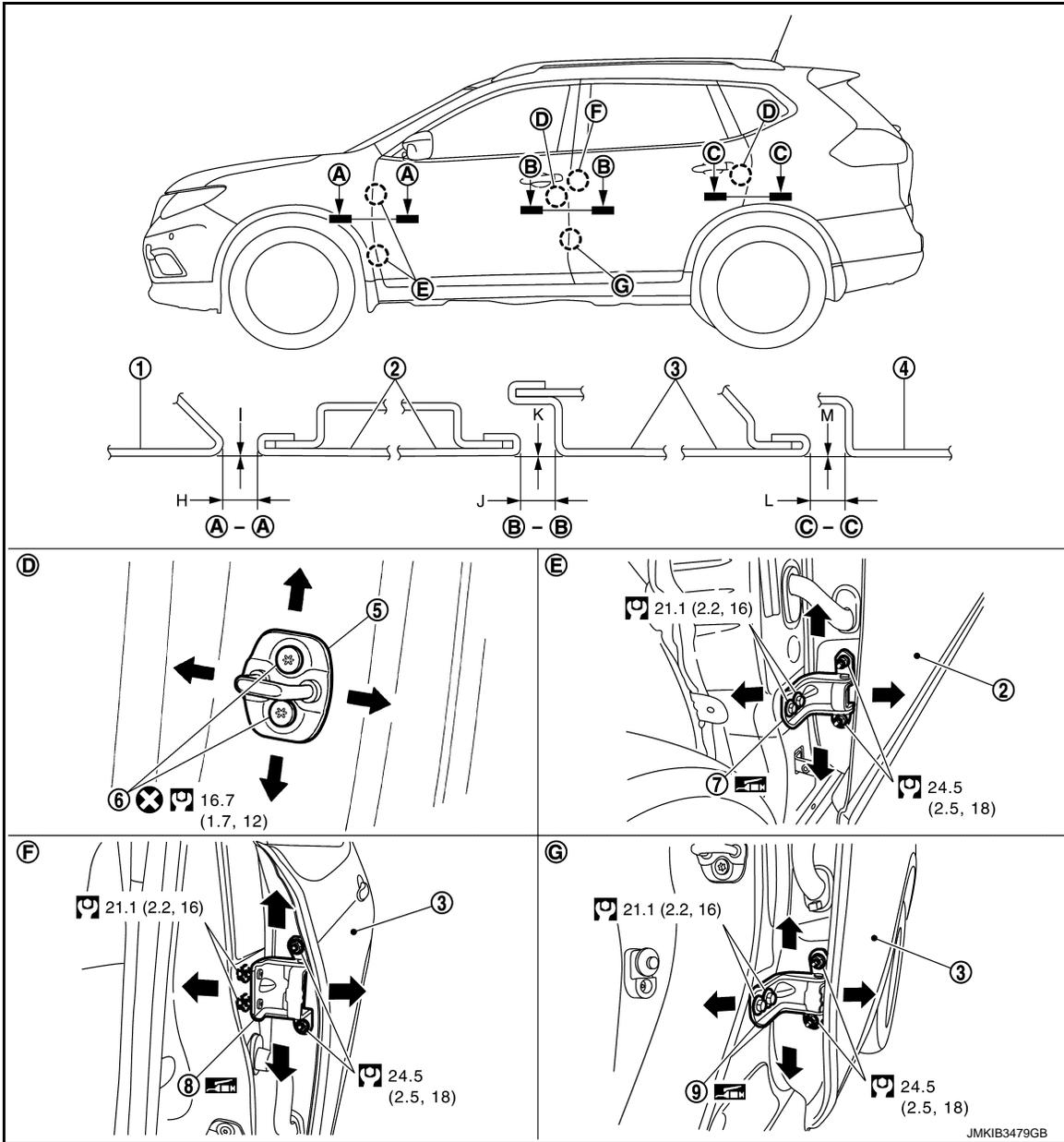
INFOID:000000010728645

FITTING ADJUSTMENT

REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 4]



- ① Front fender
- ② Front door
- ③ Rear door
- ④ Body side outer
- ⑤ Door striker
- ⑥ TORX bolt
- ⑦ Front door hinge
- ⑧ Rear door hinge (upper)
- ⑨ Rear door hinge (lower)

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg·m, ft·lb)

Ⓜ : Body grease

Fitting Adjustment Standard

Check the clearance and surface height between rear door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

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JMKIB3479GB

REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 4]

Unit: mm [in]

Portion				Standard
Front door – Rear door	Ⓑ – Ⓑ	J	Clearance	3.3 – 5.3 [0.130 – 0.209]
		K	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]
Rear door – Body side outer	Ⓒ – Ⓒ	L	Clearance	3.0 – 5.0 [0.118 – 0.197]
		M	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]

Fitting Adjustment Procedure

1. Remove center pillar lower garnish. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).
2. Loosen door hinge mounting nuts of door side.
3. Adjust the surface height of rear door according to the fitting standard dimension.
4. Temporarily tighten door hinge mounting nuts of door side.
5. Loosen door hinge mounting nuts and bolts of vehicle body side.
6. Raise rear door at rear end to adjust clearance of rear door according to the fitting standard dimension.
7. After adjustment, tighten bolts and nuts to the specified torque.
CAUTION:
After installation, apply touch-up paint (the body color) onto the head of hinge mounting bolts and nuts.
8. Install center pillar lower garnish. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:000000010728646

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- After installation, perform the fitting adjustment. Refer to [DLK-896, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, check that door opens and closes normally. Refer to [DLK-896, "DOOR ASSEMBLY : Inspection"](#).

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:000000010728647

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

1. Remove rear door assembly. Refer to [DLK-895, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove center pillar lower garnish. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).

REAR DOOR

[TYPE 4]

< REMOVAL AND INSTALLATION >

3. Remove rear door hinge mounting bolts and nuts of vehicle body side, and then remove rear door hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the mounting surface.
- After installation, perform the fitting adjustment. Refer to [DLK-896, "DOOR ASSEMBLY : Adjustment"](#).
- After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-896, "DOOR ASSEMBLY : Inspection"](#).

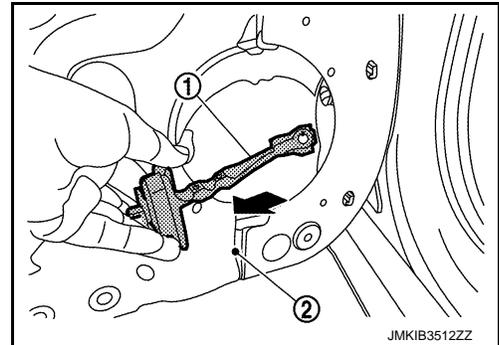
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:0000000010728648

REMOVAL

1. Fully close rear door glass.
2. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
3. Disconnect harness connector of rear door speaker.
4. Remove mounting bolts of rear door speaker, and then remove rear door speaker.
5. Remove door check link mounting bolt of vehicle body side.
6. Remove door check link mounting bolts of door panel, and then take door check link ① out from the hole of door panel ②.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check that door opens and closes normally. Refer to [DLK-896, "DOOR ASSEMBLY : Inspection"](#).

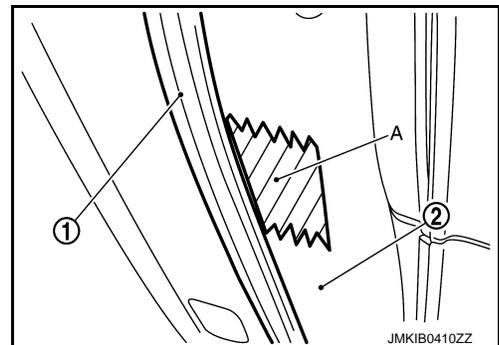
DOOR WEATHER-STRIP

DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000010728649

REMOVAL

1. Apply protective tape (A) to rear door panel ② around rear door weather-strip ① fixing clips for preventing damage.



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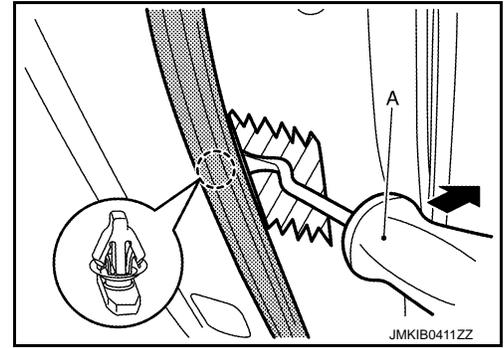
REAR DOOR

< REMOVAL AND INSTALLATION >

[TYPE 4]

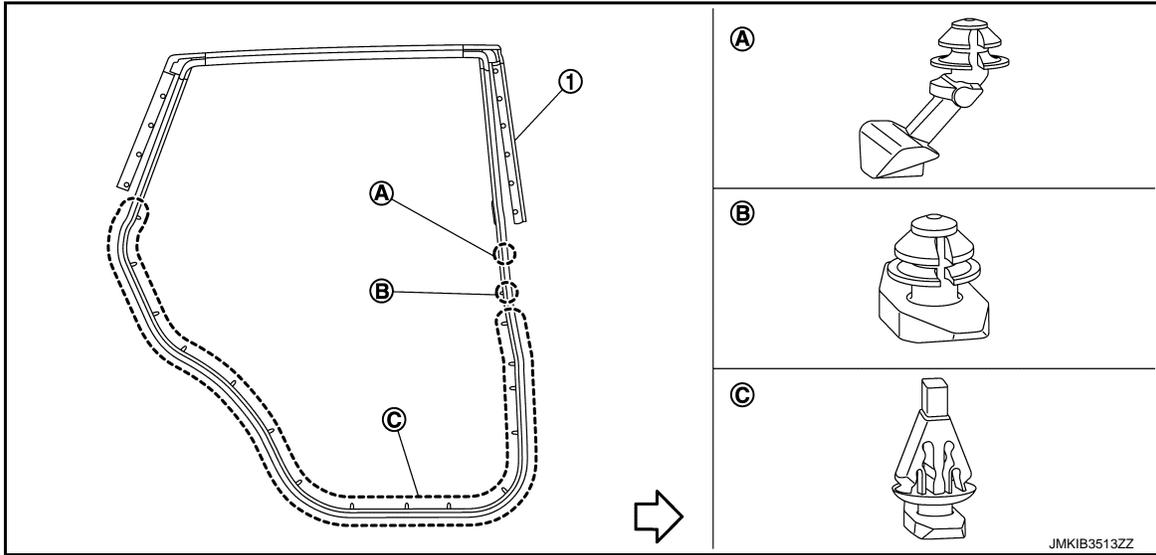
- Disengage fixing clips on the reverse side of rear door weather-strip using a remover tool (A).

 : Clip



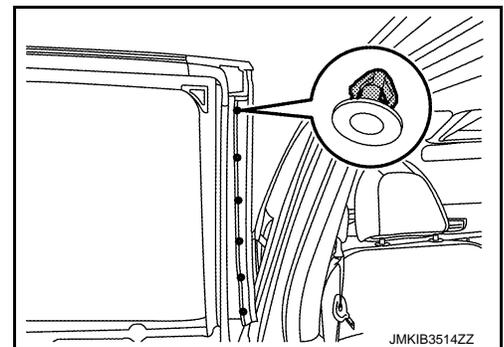
CAUTION:

- Never damage rear door panel.
- When removing, never confuse the 3 types of rear door weather-strip ① fixing clips (A), (B) and (C).



 : Vehicle front

- Remove front fixing clips from weather-strip.

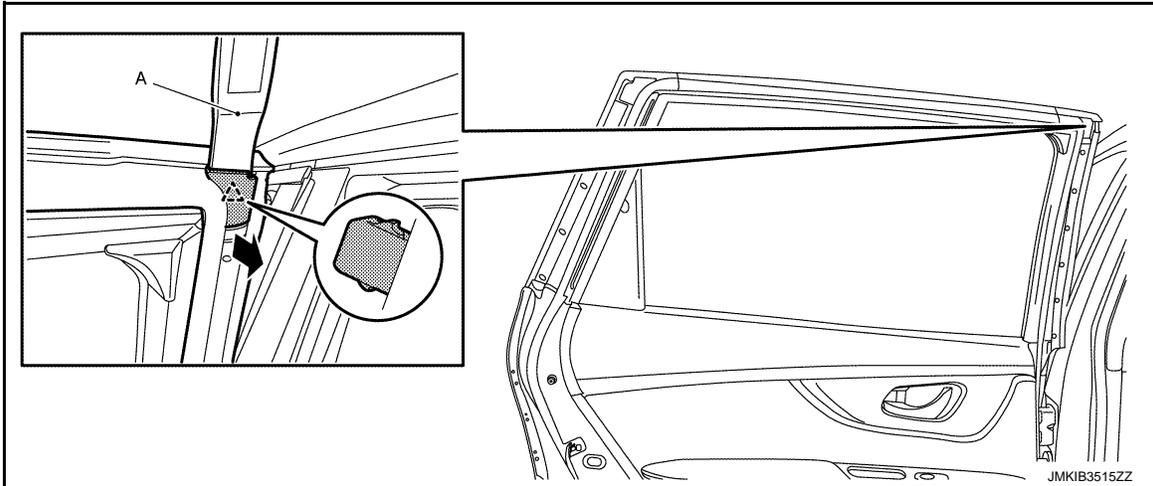


REAR DOOR

< REMOVAL AND INSTALLATION >

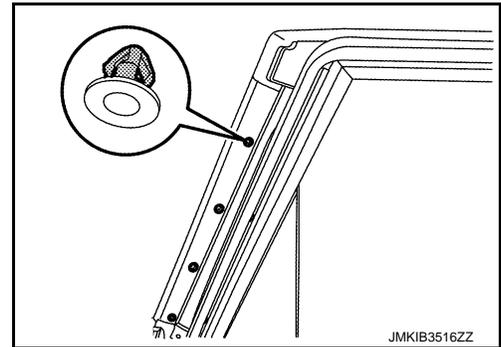
[TYPE 4]

4. Disengage fixing pawl on front upper end of rear door weather-strip using a remover tool (A), and then remove weather-strip clip.

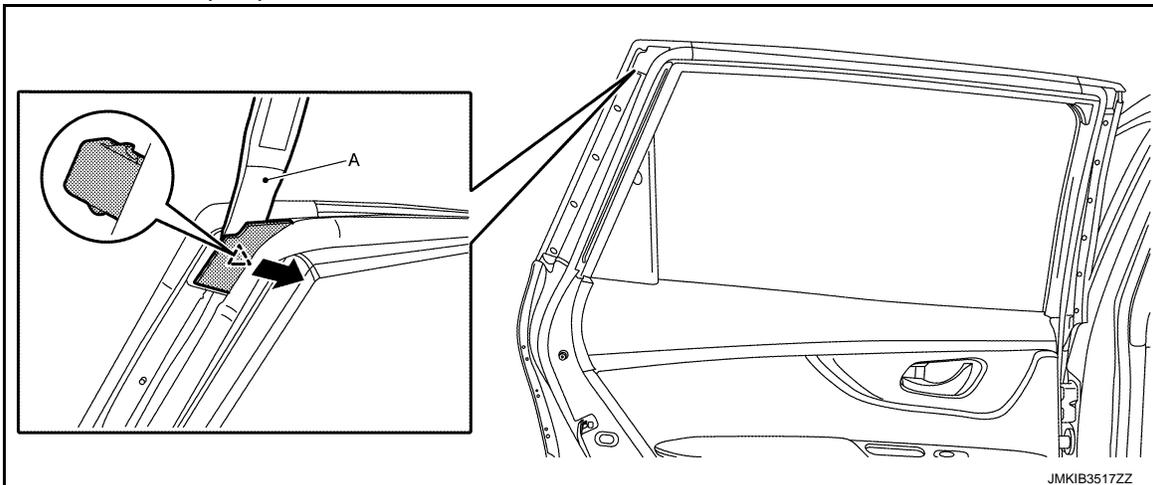


 : Pawl

5. Remove rear fixing clips from weather-strip.



6. Disengage fixing pawl on rear upper end of rear door weather-strip using a remover tool (A), and then remove weather-strip clip.



 : Pawl

7. Remove door check link mounting bolt of vehicle body side.
8. Remove rear door weather-strip from rear door panel.

INSTALLATION

Install in the reverse order of removal.

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BACK DOOR

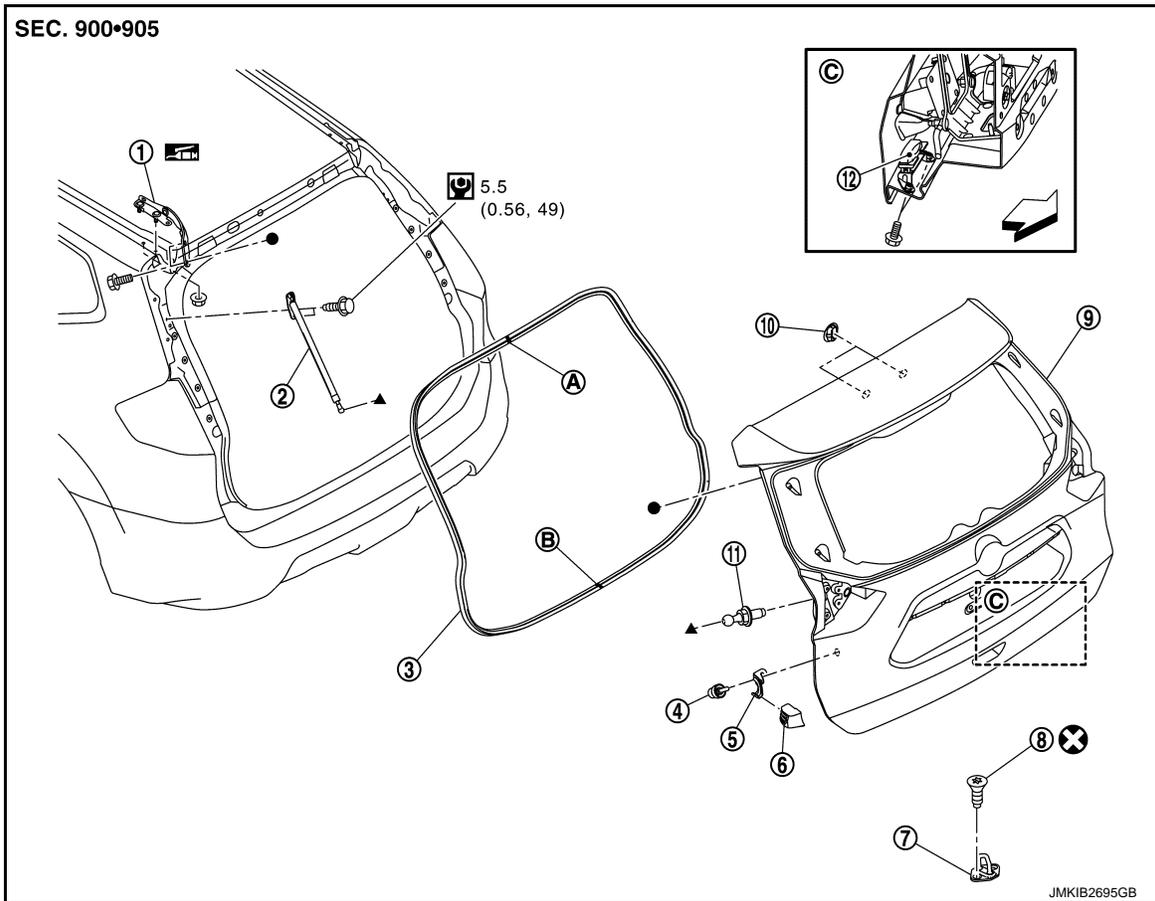
< REMOVAL AND INSTALLATION >

[TYPE 4]

BACK DOOR

Exploded View

INFOID:000000010728697



- | | | |
|---------------------|------------------|---------------------------|
| ① Back door hinge | ② Back door stay | ③ Back door weather-strip |
| ④ Bumper rubber | ⑤ Wedge bracket | ⑥ Back door wedge |
| ⑦ Back door striker | ⑧ TORX bolt | ⑨ Back door panel |
| ⑩ Plug | ⑪ Stud ball | ⑫ Back door damper |

(A) : Center mark

(B) : Seam

← : Vehicle front

⊗ : Always replace after every disassembly.

⊞ : N·m (kg·m, in·lb)

☑ : Body grease

●, ▲: Indicates that the part is connected at points with same symbol in actual vehicle.

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000010728698

CAUTION:

- Back door is made of resin. Never apply strong force to it, and be careful to prevent contact with oil.
- Perform work with 2 workers, because of its heavy weight.
- Use protective tape or shop cloth to protect from damage during removal and installation.

BACK DOOR

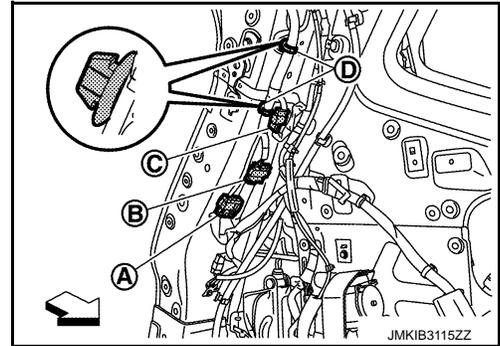
< REMOVAL AND INSTALLATION >

[TYPE 4]

REMOVAL

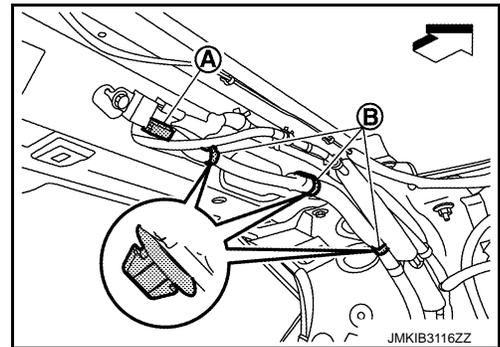
1. Remove headlining. Refer to [INT-37. "Removal and Installation"](#).
2. Disconnect back door harness connectors (A), (B) and (C), and then remove harness fixing clips (D).

← : Vehicle front

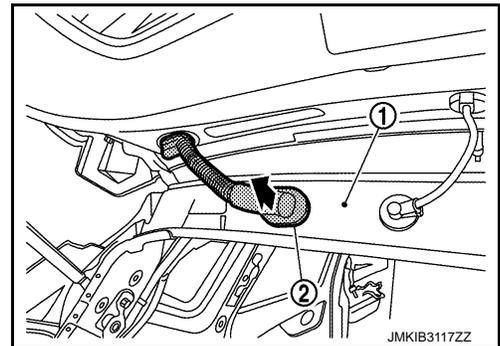


3. Disconnect harness connector (A), and then remove harness fixing clips (B).

← : Vehicle front

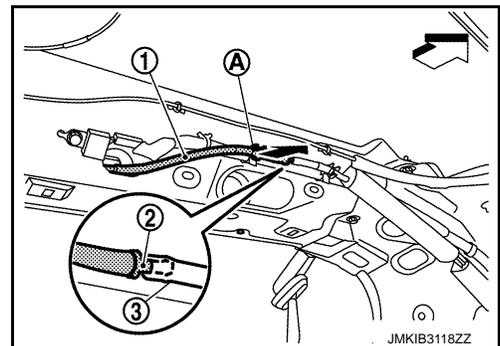


4. Remove grommet (2) from roof panel (1), and then pull out back door harness from vehicle body.



5. Remove air tube (1) from tube clip (A), and then disconnect tube joint connector (2) and air tube (3) (with around view monitor).

← : Vehicle front



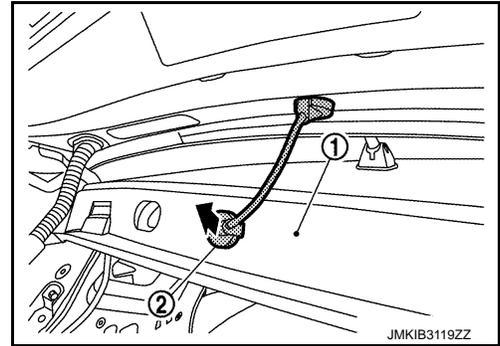
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BACK DOOR

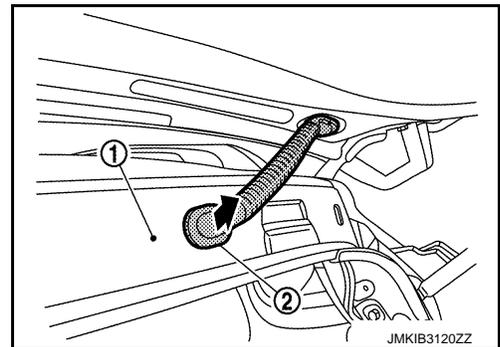
[TYPE 4]

< REMOVAL AND INSTALLATION >

6. Remove tube grommet ② from roof panel ①, and then pull out air tube from vehicle body.



7. Disconnect rear washer tube A and rear washer tube B. Refer to [WW-102. "REAR WASHER TUBE : Removal and Installation"](#).
8. Disconnect rear view camera washer tube (with around view monitor). Refer to [DAS-156. "Removal and Installation"](#).
9. Remove tube grommet ② from roof panel ①, and then pull out rear washer tube B and rear camera washer tube from vehicle body.



10. Support back door with the proper material to prevent it from falling.

WARNING:

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

11. Remove back door stay from back door. Refer to [DLK-907. "BACK DOOR STAY : Removal and Installation"](#).
12. Remove back door hinge mounting nuts of back door and remove back door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- After installation, perform the fitting adjustment. Refer to [DLK-905. "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, check whether harness is not pinched. If harness is pinched, pull harness downward lightly.
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-904. "BACK DOOR ASSEMBLY : Inspection"](#).

BACK DOOR ASSEMBLY : Inspection

INFOID:000000010728699

1. Open and close the back door. Check that door hinge rotation portion moves smoothly.

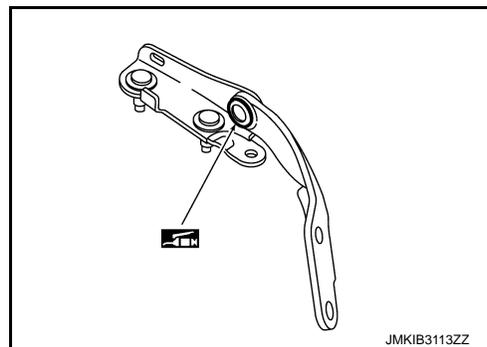
BACK DOOR

< REMOVAL AND INSTALLATION >

[TYPE 4]

- Check back door hinge rotating part for poor lubrication. Apply body grease if necessary.

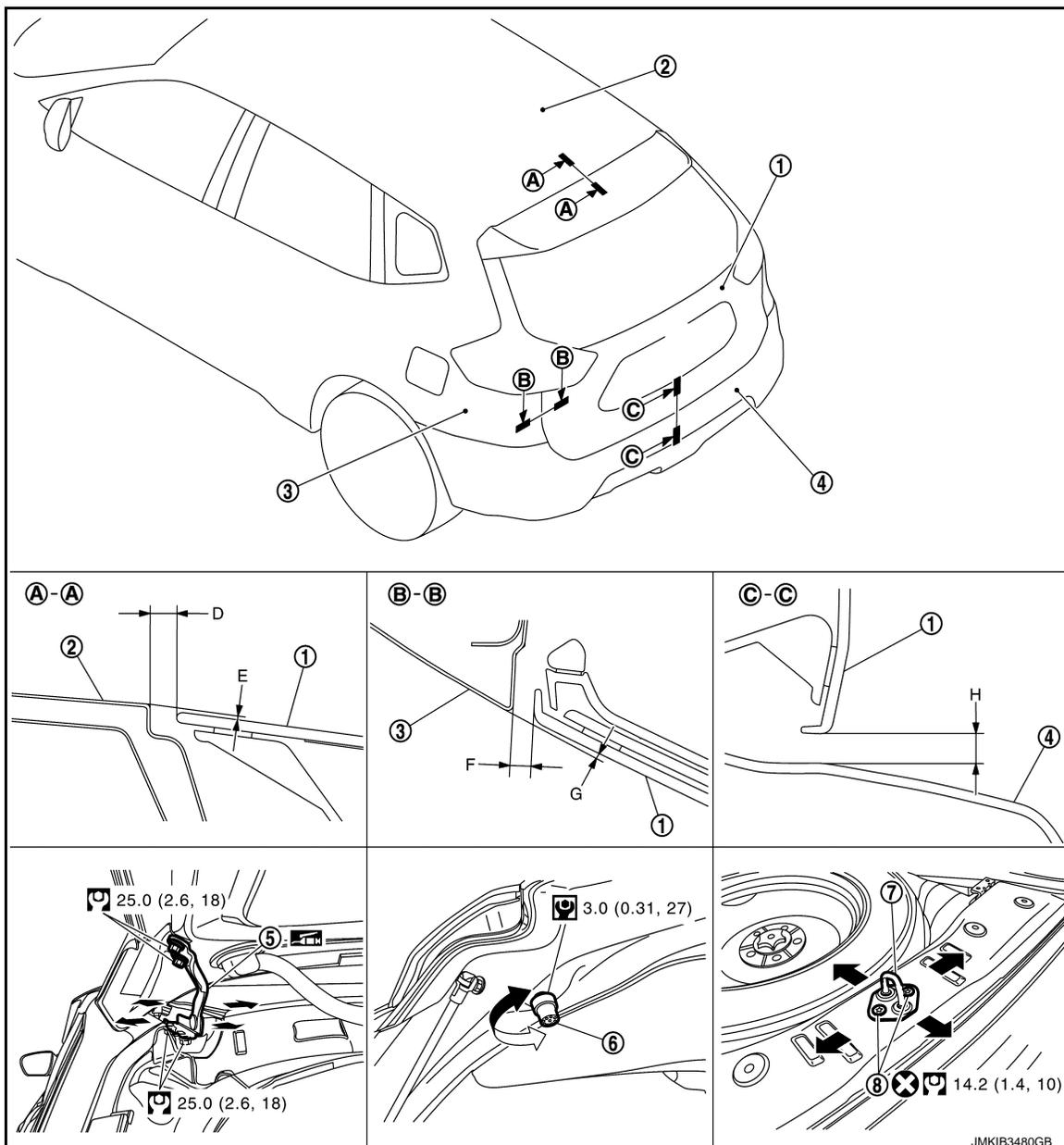
 : Body grease



BACK DOOR ASSEMBLY : Adjustment

INFOID:000000010728700

FITTING ADJUSTMENT



- | | | |
|----------------------|-------------------|-------------------------|
| ① Back door assembly | ② Roof panel | ③ Body side outer panel |
| ④ Rear bumper fascia | ⑤ Back door hinge | ⑥ Bumper rubber |

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BACK DOOR

[TYPE 4]

< REMOVAL AND INSTALLATION >

- After adjustment, tighten back door striker mounting TORX bolts, bumper rubber and back door hinge mounting nuts of back door side to the specified torque.
CAUTION:
After installation, apply touch-up paint to the body color if the paint around back door hinge and back door hinge mounting nuts is peeled off.

- Install luggage rear plate mask. Refer to [INT-41, "LUGGAGE REAR PLATE : Removal and Installation"](#).

CAUTION:

- After adjusting, check that bumper rubber is in contact with vehicle body surely.
- After adjusting, check that door opens and closes normally. Refer to [DLK-904, "BACK DOOR ASSEMBLY : Inspection"](#).
- After adjusting, perform calibration camera image (with around view monitor). Refer to [AV-161, "CALIBRATING CAMERA IMAGE \(AROUND VIEW MONITOR\) : Work Procedure"](#) (with navigation).

BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that it becomes parallel with back door lock insertion direction.

BACK DOOR STRIKER

BACK DOOR STRIKER : Removal and Installation

INFOID:000000010728701

REMOVAL

- Remove luggage rear plate. Refer to [INT-41, "LUGGAGE REAR PLATE : Removal and Installation"](#).
- Remove TORX bolts, and then remove back door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- After installation, perform the fitting adjustment. Refer to [DLK-905, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, check that door opens and closes normally. Refer to [DLK-904, "BACK DOOR ASSEMBLY : Inspection"](#).

BACK DOOR HINGE

BACK DOOR HINGE : Removal and Installation

INFOID:000000010728702

REMOVAL

- Remove back door assembly. Refer to [DLK-902, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
- Remove back door hinge cover. Refer to [EXT-46, "Removal and Installation"](#).
- Remove back door hinge mounting nuts of vehicle body side, and then remove back door hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- After installation, perform the fitting adjustment. Refer to [DLK-905, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- After installation, check that door opens and closes normally. Refer to [DLK-904, "BACK DOOR ASSEMBLY : Inspection"](#).

BACK DOOR STAY

BACK DOOR STAY : Removal and Installation

INFOID:000000010728703

REMOVAL

CAUTION:

2 workers are required to support back door.

- Support the back door with the suitable material to prevent it from falling.

WARNING:

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BACK DOOR

< REMOVAL AND INSTALLATION >

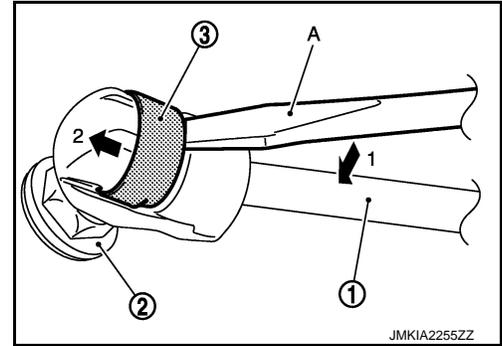
[TYPE 4]

Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

2. Remove metal clip ③ located on connection between back door stay ① and stud ball ② using a remover tool (A) according to the numerical order 1→2 indicated by arrows as shown in the figure.

CAUTION:

2 workers are required to support back door.



3. Disengage back door stay and stud ball of back door side.
4. Remove back door stay mounting bolts, and then remove back door stay.

INSTALLATION

Install in the reverse order of removal.

BACK DOOR STAY : Disposal

INFOID:000000010728704

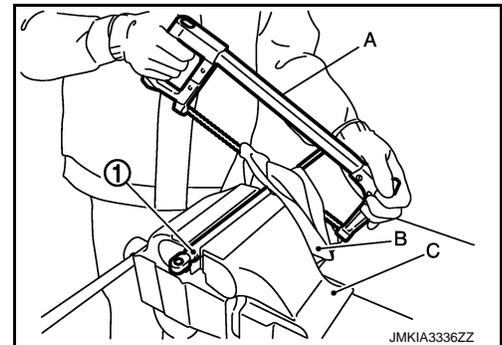
CAUTION:

When performing disposal operation, wear the protective glasses and protective gloves.

1. Fix back door stay ① using a vise (C).

CAUTION:

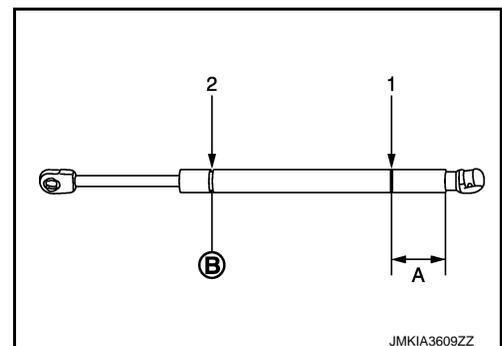
When cutting a hole on back door stay, always cover a hacksaw (A) using a shop cloth (B) to avoid scattering metal fragments or oil.



2. Using hacksaw (A) slowly make 2 holes in the back door stay, in numerical order as shown in the figure.

A: 20.0 mm (0.787 in)

Ⓑ: Cut at the groove.



BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000010728705

REMOVAL

Pull up and remove engagement with body from weather-strip joint.

CAUTION:

Never pull strongly on back door weather-strip.

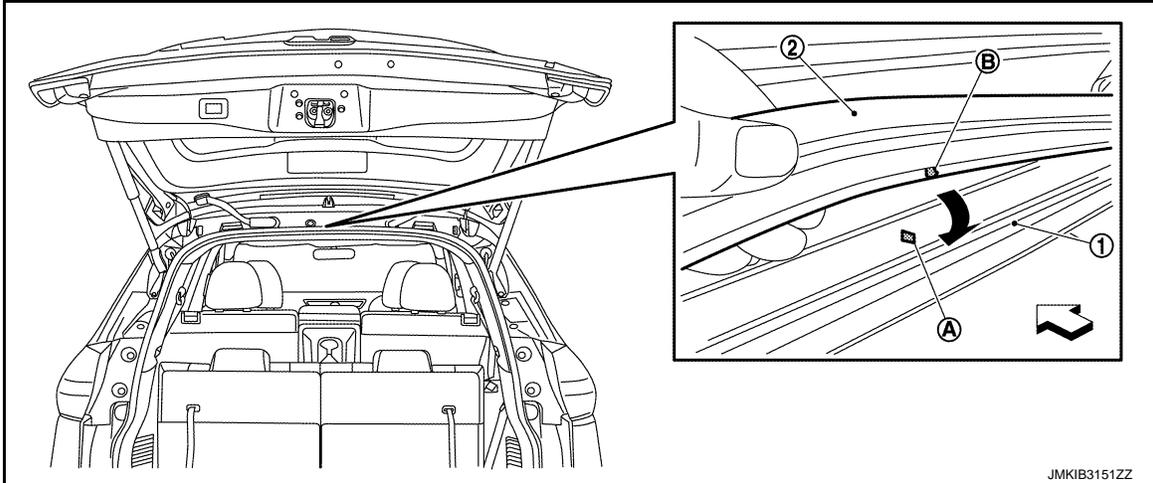
INSTALLATION

BACK DOOR

< REMOVAL AND INSTALLATION >

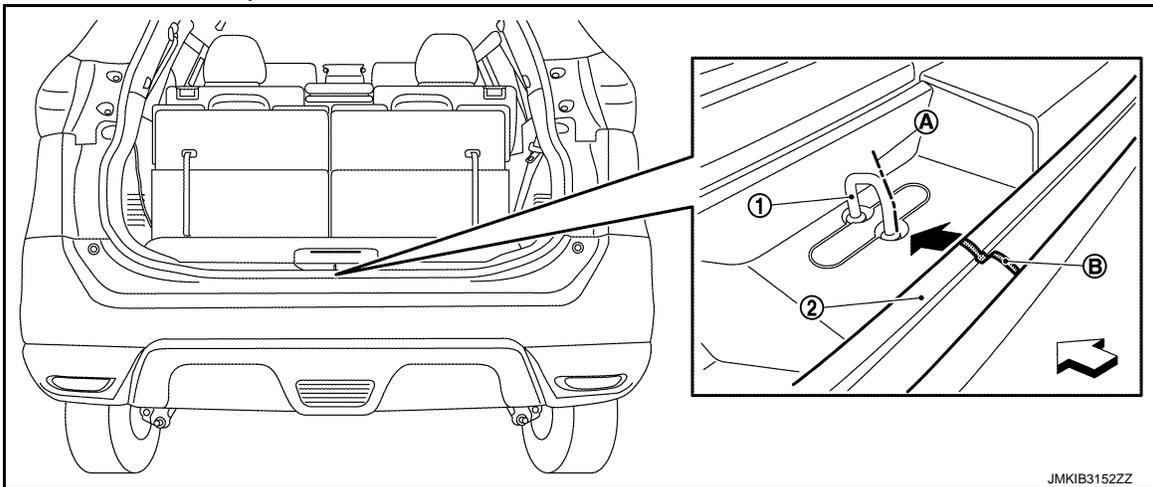
[TYPE 4]

1. Working from the upper section, align back door weather-strip ② center mark ③ with vehicle center position mark ④ and install weather-strip onto the vehicle ①.



← : Vehicle front

2. Align the connecting point ③ of back door weather-strip ② with the center ④ of back door striker ①, and then install weather-strip onto the vehicle.



← : Vehicle front

3. Pull back door weather-strip gently to ensure that there is no loose section.
CAUTION:
Check that weather-strip fits tightly in each corner.

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HOOD LOCK

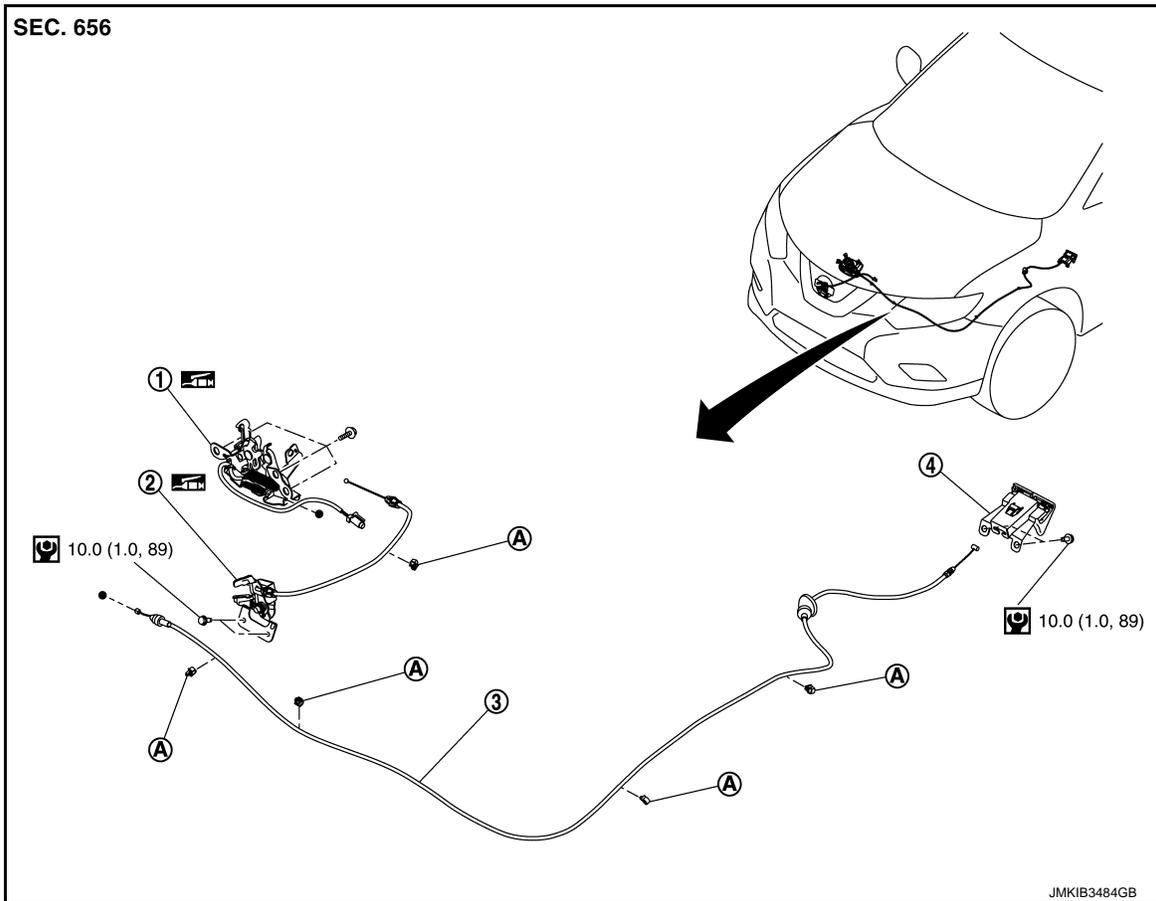
< REMOVAL AND INSTALLATION >

[TYPE 4]

HOOD LOCK

Exploded View

INFOID:000000010728657



① Hood lock assembly ② Hood lock bell crank assembly ③ Hood lock control cable assembly

④ Hood lock control handle assembly

Ⓐ Cable clip

 : N·m (kg·m, in·lb)

 : Body grease

HOOD LOCK

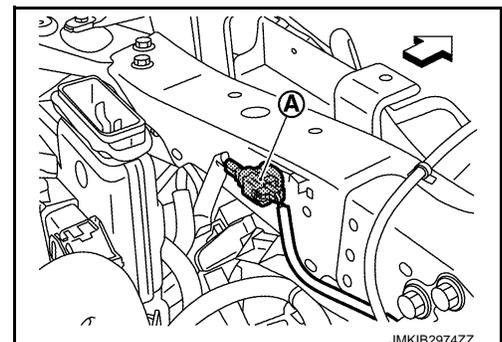
HOOD LOCK : Removal and Installation

INFOID:000000010728658

REMOVAL

1. Disconnect hood lock switch harness connector Ⓐ (if equipped).

 : Vehicle front

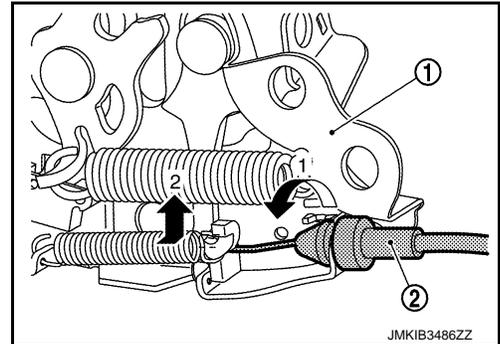


HOOD LOCK

[TYPE 4]

< REMOVAL AND INSTALLATION >

2. Disconnect hood lock bell crank cable from hood lock assembly. Refer to [DLK-913. "HOOD LOCK BELL CRANK : Removal and Installation"](#).
3. Remove hood lock assembly mounting bolts, and then remove hood lock assembly.
4. Disconnect hood lock control cable assembly ② from hood lock assembly ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:

- Never bend cable too much, keeping the radius 100 mm (3.937 in) or more.
- Check that hood lock control cable is properly engaged with hood lock.
- After installation, perform hood fitting adjustment. Refer to [DLK-871. "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform hood lock control inspection. Refer to [DLK-911. "HOOD LOCK : Inspection"](#).

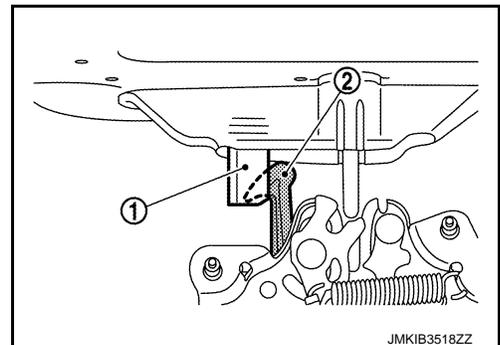
HOOD LOCK : Inspection

INFOID:000000010728659

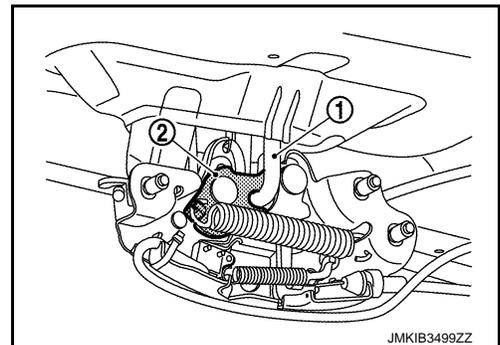
NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Check that hood opener operating is condition 49 N (5.0 kg, 11.0 lb) or below.
2. Check that secondary latch ② is securely engaged with secondary striker ① from the dead load of hood assembly.



3. Check that primary latch ② is securely engaged with primary striker ① when hood assembly is closed [free-fall from approximately 200 mm (7.874 in) height].

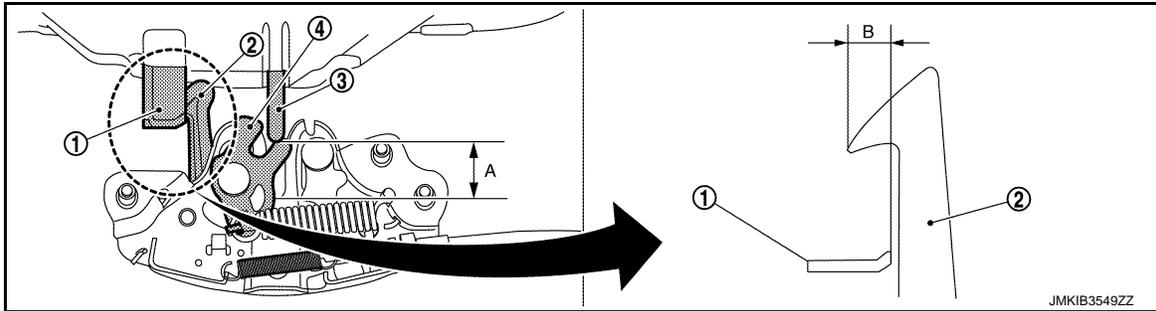


4. While operating the hood opener carefully, check that the front end of the hood is lifted by approximately 20 mm (0.787 in) (A). Also, check that the hood opener returns to the original position.

HOOD LOCK

< REMOVAL AND INSTALLATION >

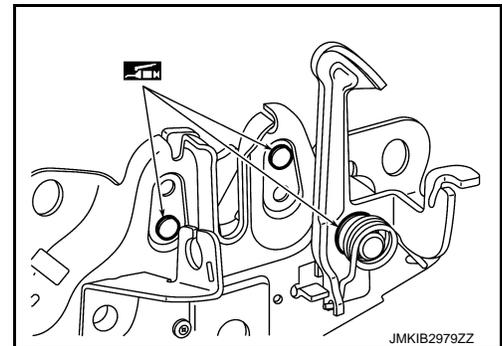
[TYPE 4]



- ① Secondary striker
- ② Secondary latch
- ③ Primary striker
- ④ Primary latch

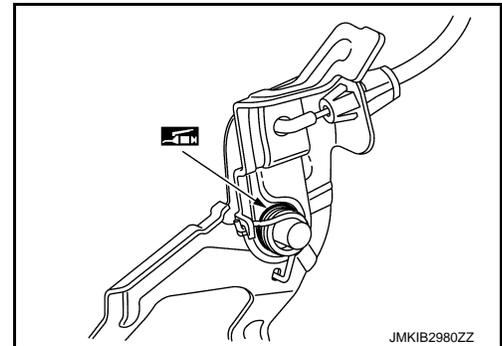
5. Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] (B).
6. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.
 - Hood lock assembly

 : Body grease



- Hood lock bell crank assembly

 : Body grease



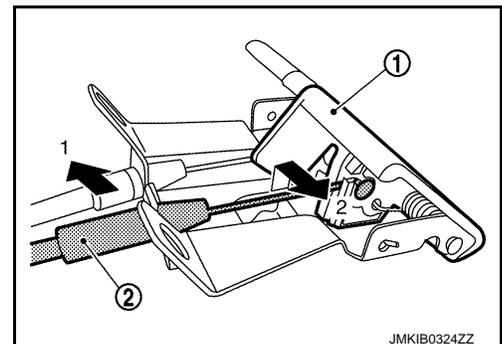
HOOD LOCK CONTROL HANDLE

HOOD LOCK CONTROL HANDLE : Removal and Installation

INFOID:000000010728660

REMOVAL

1. Remove hood lock control handle mounting bolts, and then remove hood lock control handle.
2. Remove hood lock control cable ② from hood opener lever ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



HOOD LOCK

< REMOVAL AND INSTALLATION >

[TYPE 4]

3. Remove fuel filler lid opener cable from fuel filler lid opener lever. Refer to [DLK-928, "FUEL FILLER OPENER CABLE : Removal and Installation"](#).

INSTALLATION

Note the following item, and install in the reverse order of removal.

CAUTION:

After installation, perform hood lock control inspection. Refer to [DLK-911, "HOOD LOCK : Inspection"](#).

HOOD LOCK CONTROL CABLE

HOOD LOCK CONTROL CABLE : Removal and Installation

INFOID:000000010728661

REMOVAL

1. Remove air duct 1. Refer to [EM-31, "Removal and Installation"](#) (MR20DD) or [EM-175, "Removal and Installation"](#) (QR25DE) or [EM-308, "Removal and Installation"](#) (R9M).
2. Disconnect hood lock control cable assembly from hood lock assembly. Refer to [DLK-910, "HOOD LOCK : Removal and Installation"](#).
3. Remove fender protector LH. Refer to [EXT-35, "FENDER PROTECTOR : Removal and Installation"](#).
4. Remove hood lock control cable fixing clips.
5. Disconnect hood lock control cable assembly from hood lock control handle. Refer to [DLK-912, "HOOD LOCK CONTROL HANDLE : Removal and Installation"](#).
6. Remove dash side finisher LH. Refer to [INT-26, "DASH SIDE FINISHER : Removal and Installation"](#).
7. Remove grommet of the lower dash, and pull the hood lock control cable assembly toward inside vehicle.

CAUTION:

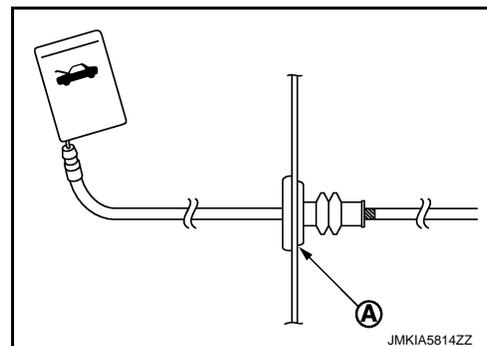
While pulling, never damage (peeling) the outside of hood lock control cable.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never bend cable too much, keeping the radius 100 mm (3.937 in) or more.
- Install grommet in the panel hole surely.
- Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (A) properly.



- After installation, perform hood lock control inspection. Refer to [DLK-911, "HOOD LOCK : Inspection"](#).

HOOD LOCK BELL CRANK

HOOD LOCK BELL CRANK : Removal and Installation

INFOID:000000010728662

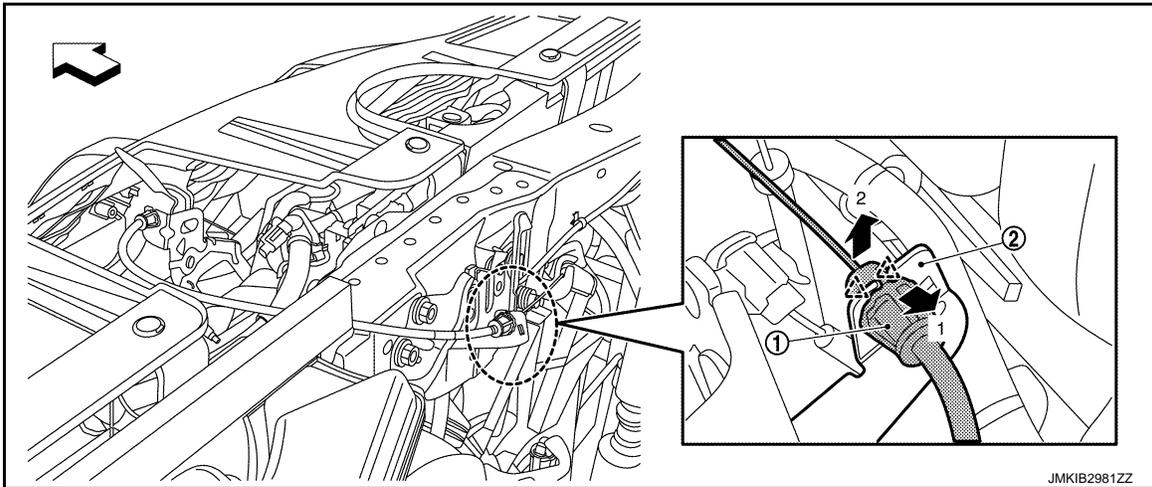
REMOVAL

HOOD LOCK

[TYPE 4]

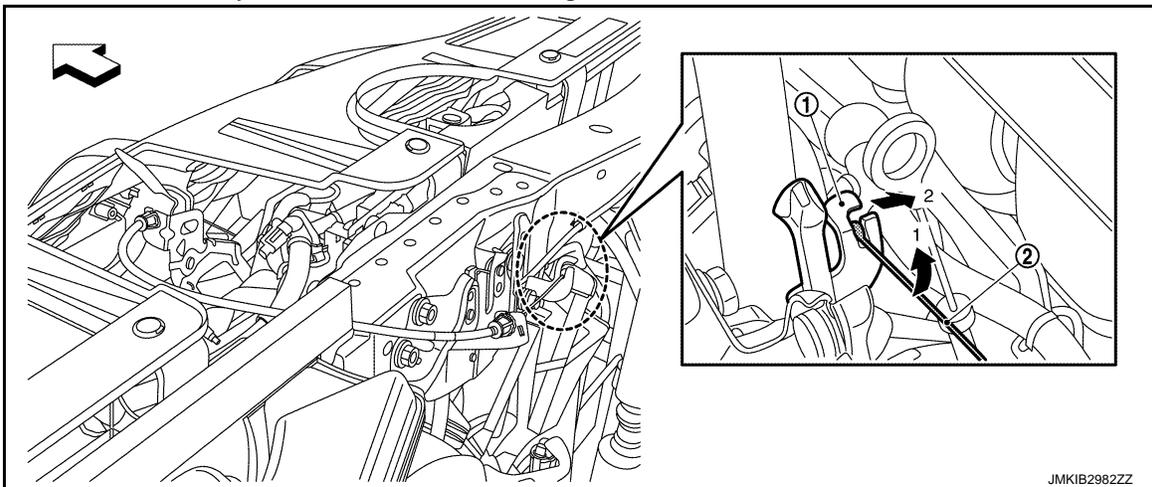
< REMOVAL AND INSTALLATION >

1. Disengage pawls of hood lock bell crank cable and disconnect hood lock bell crank cable ① from housing bracket ② of hood lock assembly according to the numerical order 1→2 indicated by arrows as shown in the figure.



△ : Pawl
← : Vehicle front

2. Disconnect hood lock bell crank cable ② from lever ① of hood lock assembly according to the numerical order 1→2 indicated by arrows as shown in the figure.



← : Vehicle front

3. Remove hood lock bell crank assembly mounting bolts, and then remove hood lock bell crank assembly.

INSTALLATION

Note the following item, and install in the reverse order of removal.

CAUTION:

After installation, perform hood lock control inspection. Refer to [DLK-911, "HOOD LOCK : Inspection"](#).

FRONT DOOR LOCK

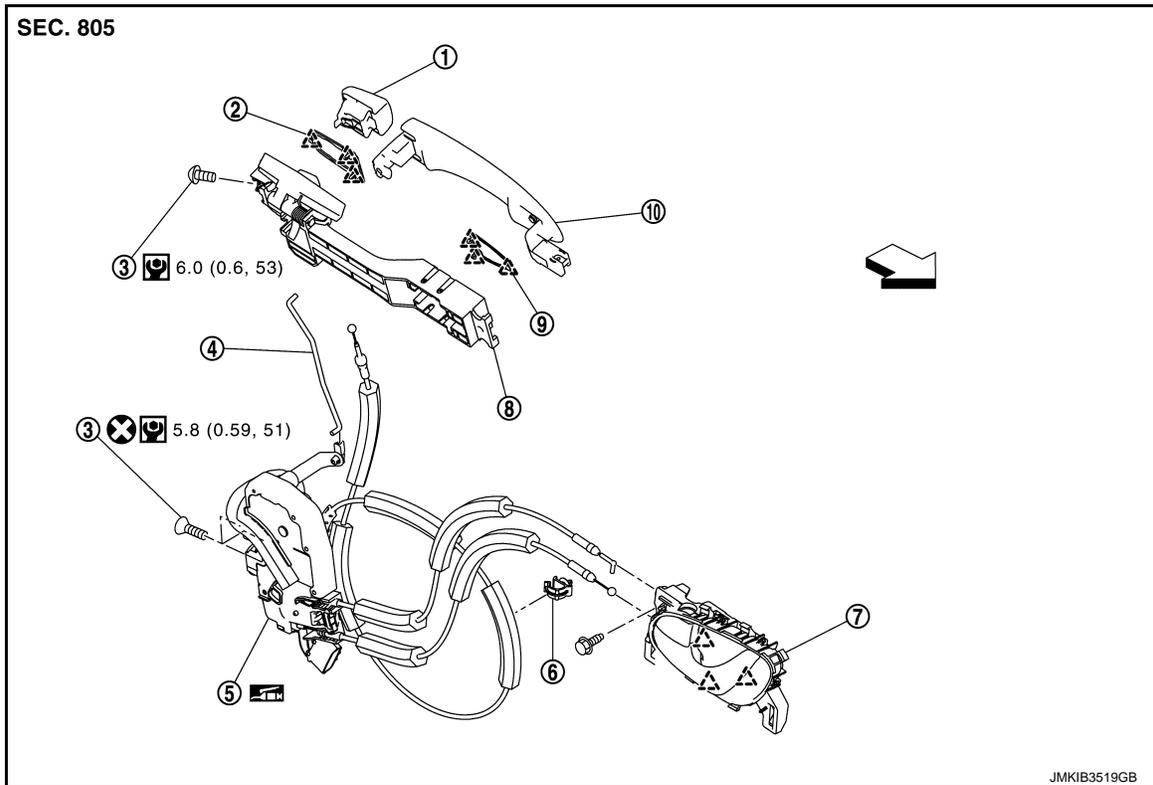
< REMOVAL AND INSTALLATION >

[TYPE 4]

FRONT DOOR LOCK

Exploded View

INFOID:000000010728663



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|-----------------------------|--------------------------|----------------|
| ① Outside handle escutcheon | ② Rear gasket | ③ TORX bolt |
| ④ Key rod (driver side) | ⑤ Door lock assembly | ⑥ Cable clip |
| ⑦ Inside handle | ⑧ Outside handle bracket | ⑨ Front gasket |
| ⑩ Outside handle grip | | |

△ : Pawl

← : Vehicle front

⊗ : Always replace after every disassembly.

Ⓜ : N·m (kg-m, in-lb)

Ⓜ : Body grease

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000010728664

REMOVAL

1. Disconnect lock knob cable and inside handle cable from inside handle. Refer to [DLK-916, "INSIDE HANDLE : Removal and Installation"](#).
2. Disconnect outside handle cable from outside handle bracket. Refer to [DLK-917, "OUTSIDE HANDLE : Removal and Installation"](#).
3. Disconnect door lock assembly connector.
4. Remove door lock assembly TORX bolts, and then remove door lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

DLK-915

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FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[TYPE 4]

CAUTION:

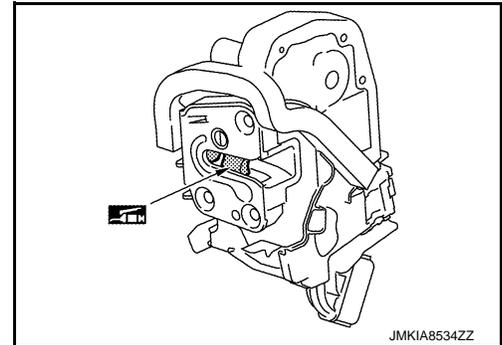
- Never reuse TORX bolt. Always replace it with a new one when it is removed.
- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- When installing key rod, rotate key rod holder until a click is felt.
- After installation, check door lock. Refer to [DLK-916, "DOOR LOCK : Inspection"](#).

DOOR LOCK : Inspection

INFOID:000000010728665

1. After opening and closing the door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.
3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

 : Body grease



INSIDE HANDLE

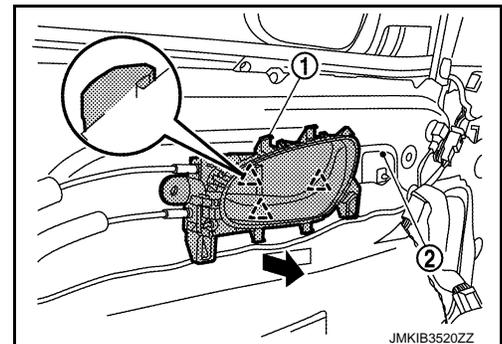
INSIDE HANDLE : Removal and Installation

INFOID:000000010728666

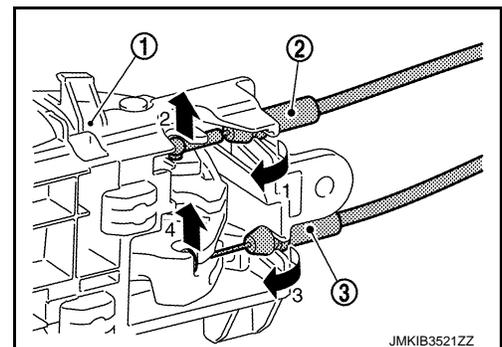
REMOVAL

1. Remove front door finisher. Refer to [INT-26, "DASH SIDE FINISHER : Removal and Installation"](#).
2. Remove inside handle mounting bolt.
3. Disengage inside handle ① from door panel ② while sliding inside handle toward vehicle rear, and then separate inside handle.

 : Pawl



4. Disengage lock knob cable ② and inside handle cable ③ from inside handle ① according to the numerical order 1→4 indicated by arrows as shown in the figure.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check door lock. Refer to [DLK-916, "DOOR LOCK : Inspection"](#).

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[TYPE 4]

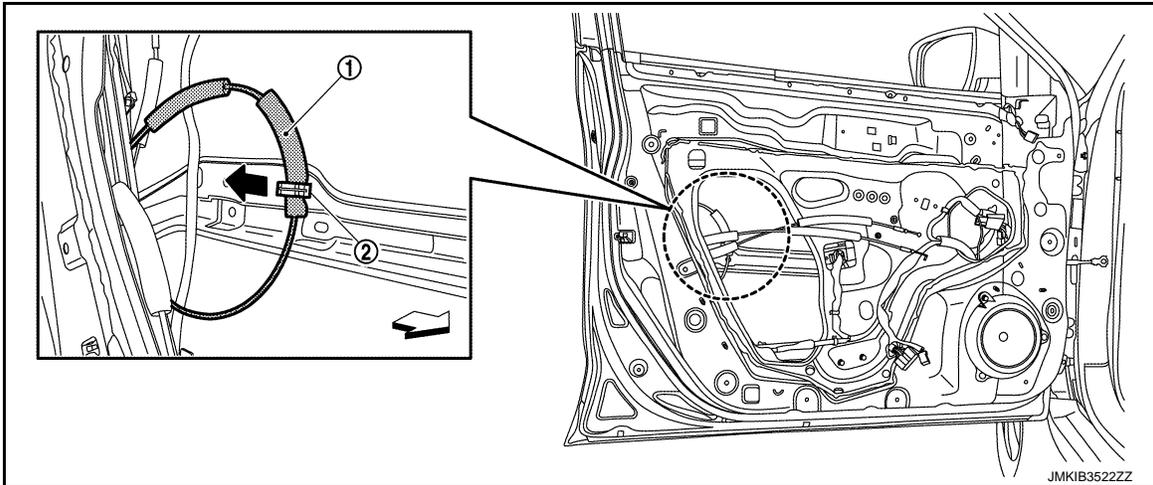
OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

INFOID:000000010728667

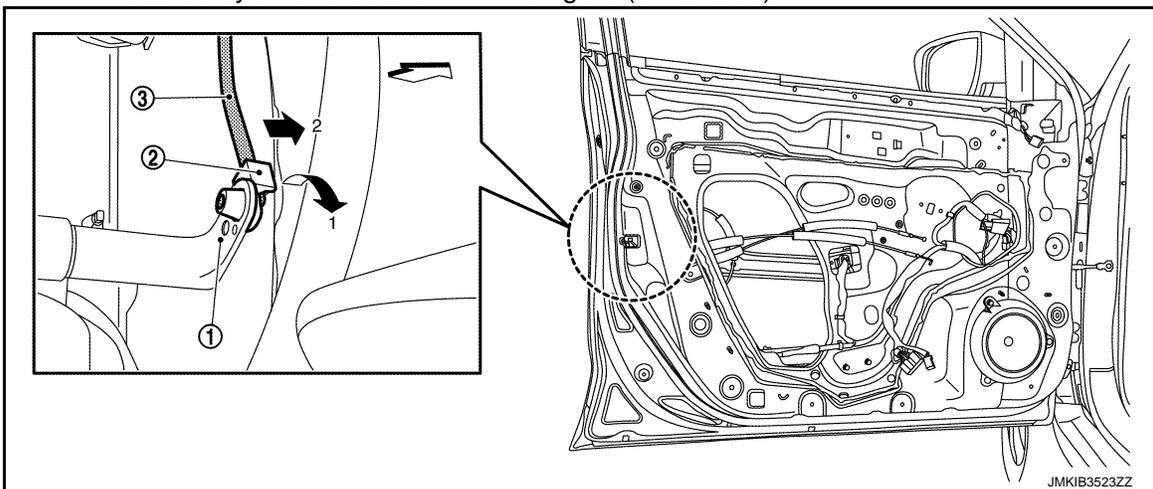
REMOVAL

1. Fully close the front door glass.
2. Remove front door finisher. Refer to [INT-14, "Removal and Installation"](#).
3. Remove inside handle. Refer to [DLK-916, "INSIDE HANDLE : Removal and Installation"](#).
4. Remove sealing screen and front door glass run lower sash. Refer to [GW-43, "FRONT DOOR GLASS RUN LOWER SASH : Removal and Installation"](#).
5. Disengage outside handle cable ① from cable clip ②.



← : Vehicle front

6. Disengage rod holder ② and disconnect key rod ③ from door lock assembly ① according to the numerical order 1→2 indicated by arrows as shown in the figure (driver side).



← : Vehicle front

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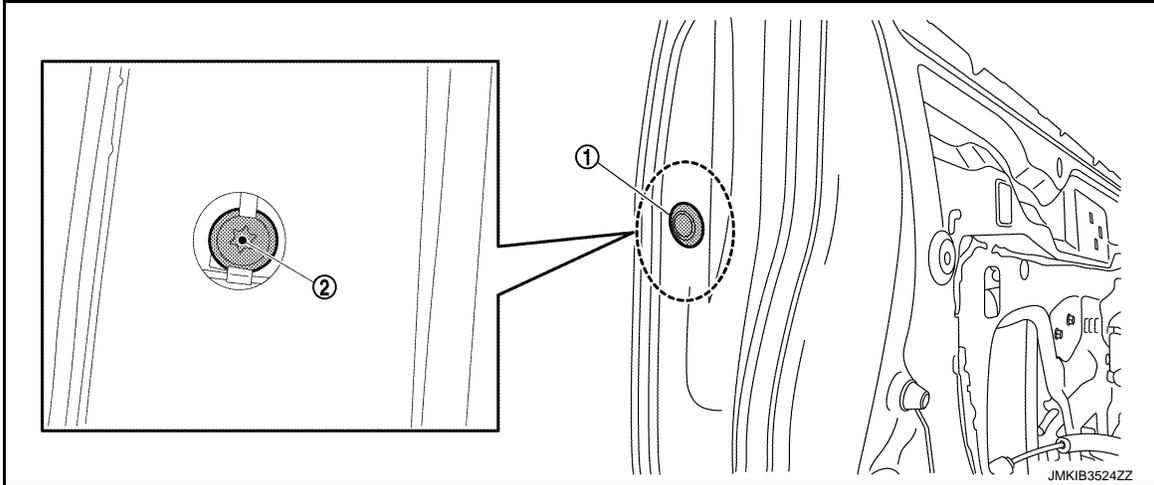
DLK

FRONT DOOR LOCK

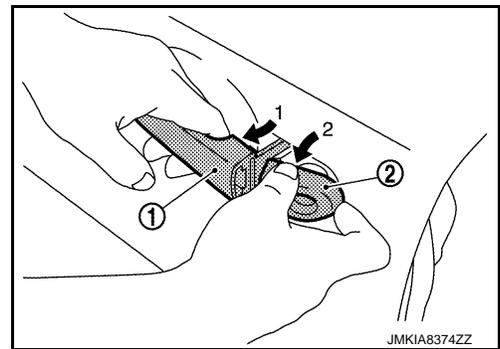
< REMOVAL AND INSTALLATION >

[TYPE 4]

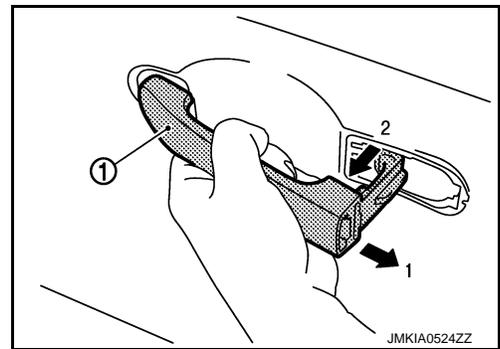
7. Remove door side grommet ①, and then loosen TORX bolt ② from grommet hole.



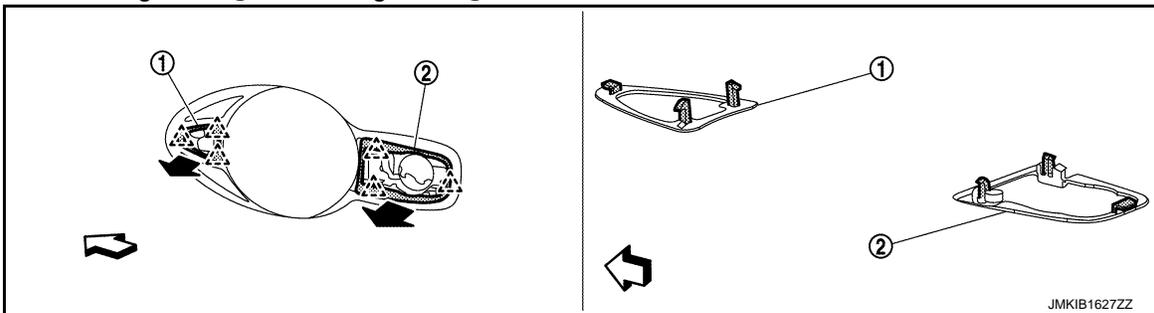
8. Remove outside handle escutcheon ② while pulling outside handle grip ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



9. Slide outside handle grip ① toward rear of vehicle and remove it according to the numerical order 1→2 indicated by arrows as shown in the figure.



10. Remove front gasket ① and rear gasket ②.



△ : Pawl
← : Vehicle front

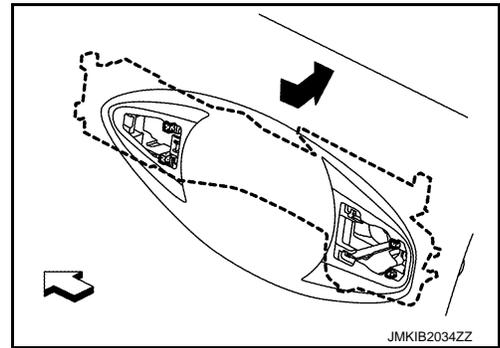
FRONT DOOR LOCK

[TYPE 4]

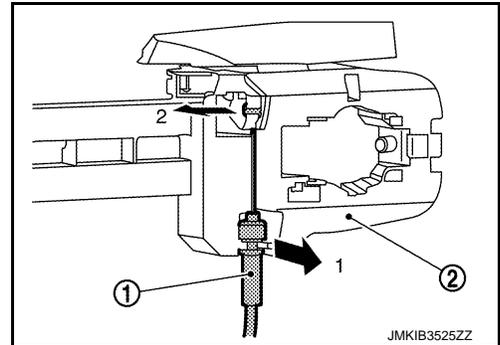
< REMOVAL AND INSTALLATION >

11. Slide outside handle bracket toward rear of vehicle and remove it.

← : Vehicle front



12. Disconnect outside handle cable ① from outside handle bracket ② according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- When installing key rod, rotate key rod holder until a click is felt.
- After installation, check door lock. Refer to [DLK-916, "DOOR LOCK : Inspection"](#).

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REAR DOOR LOCK

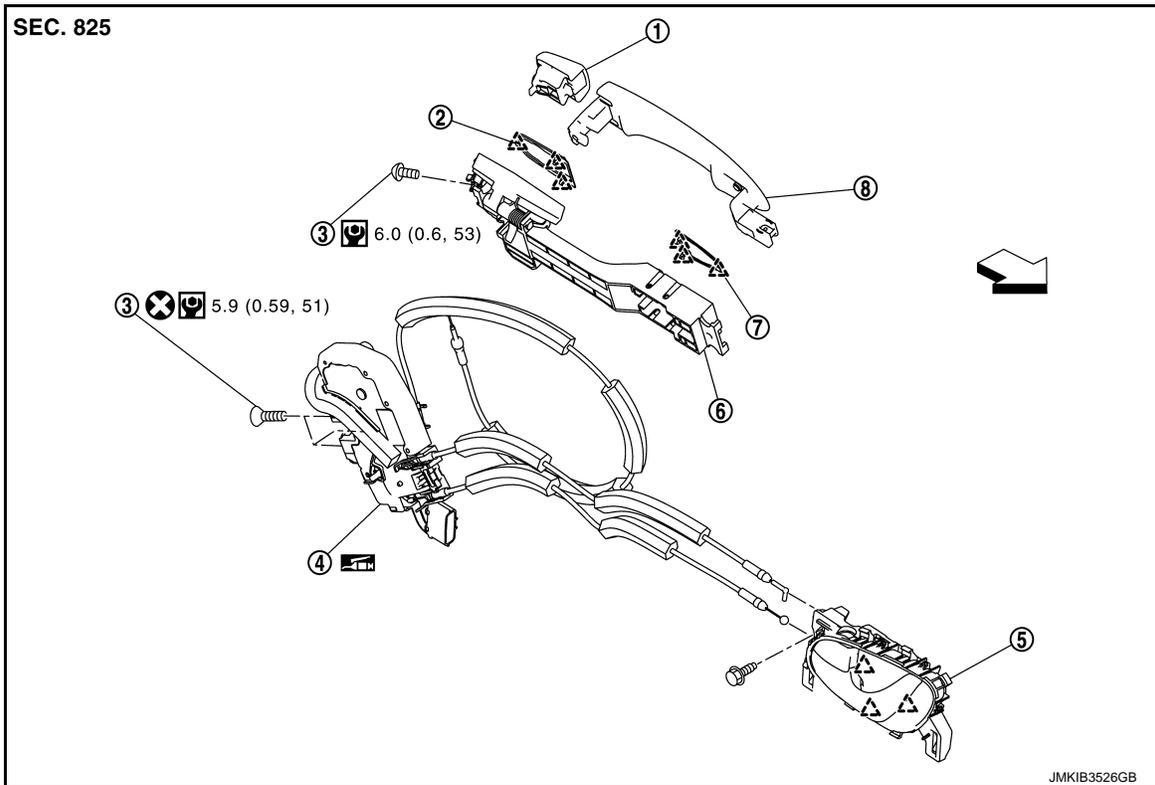
< REMOVAL AND INSTALLATION >

[TYPE 4]

REAR DOOR LOCK

Exploded View

INFOID:000000010728714



- | | | |
|-----------------------------|-----------------------|--------------------------|
| ① Outside handle escutcheon | ② Rear gasket | ③ TORX bolt |
| ④ Door lock assembly | ⑤ Inside handle | ⑥ Outside handle bracket |
| ⑦ Front gasket | ⑧ Outside handle grip | |

△ : Pawl

← : Vehicle front

⊗ : Always replace after every disassembly.

⊙ : N·m (kg·m, in·lb)

⊞ : Body grease

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000010728715

REMOVAL

1. Disconnect lock knob cable and inside handle cable from inside handle. Refer to [DLK-921. "INSIDE HANDLE : Removal and Installation"](#).
2. Disconnect outside handle cable from outside handle bracket. Refer to [DLK-922. "OUTSIDE HANDLE : Removal and Installation"](#).
3. Disconnect door lock assembly connector.
4. Remove door lock assembly TORX bolts, and then remove door lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- Never reuse TORX bolt. Always replace it with a new one when it is removed.

DLK-920

REAR DOOR LOCK

[TYPE 4]

< REMOVAL AND INSTALLATION >

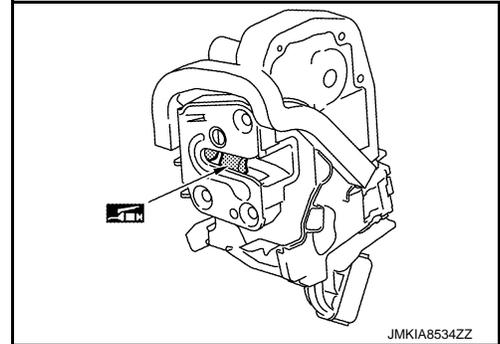
- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- After installation, check door lock. Refer to [DLK-921, "DOOR LOCK : Inspection"](#).

DOOR LOCK : Inspection

INFOID:0000000010728716

1. After opening and closing the door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.
3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

 : Body grease



INSIDE HANDLE

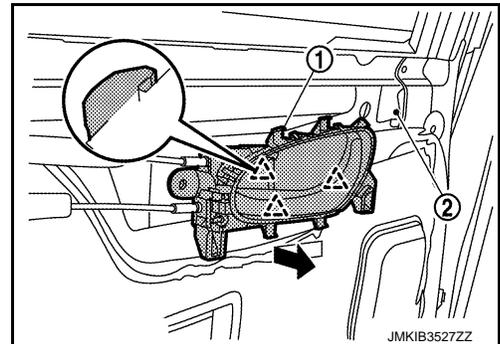
INSIDE HANDLE : Removal and Installation

INFOID:0000000010728717

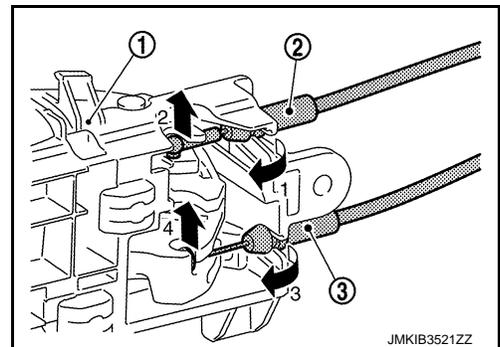
REMOVAL

1. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
2. Remove inside handle mounting bolt.
3. Disengage inside handle ① from door panel ② while sliding inside handle toward vehicle rear, and then separate inside handle.

 : Pawl



4. Disengage lock knob cable ② and inside handle cable ③ from inside handle ① according to the numerical order 1→4 indicated by arrows as shown in the figure.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check door lock. Refer to [DLK-921, "DOOR LOCK : Inspection"](#).

OUTSIDE HANDLE

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REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

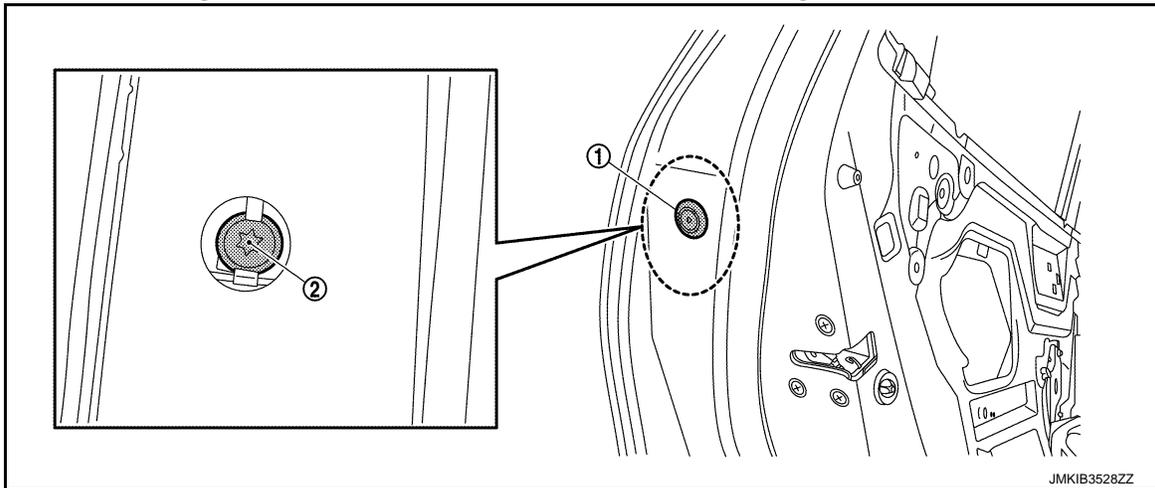
[TYPE 4]

OUTSIDE HANDLE : Removal and Installation

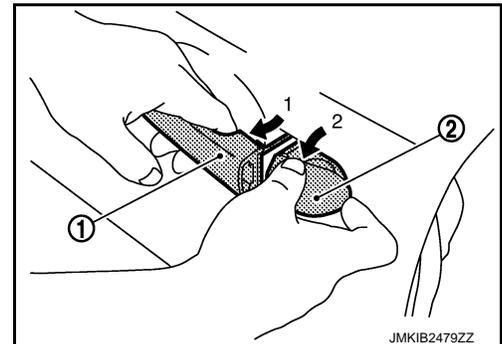
INFOID:000000010728718

REMOVAL

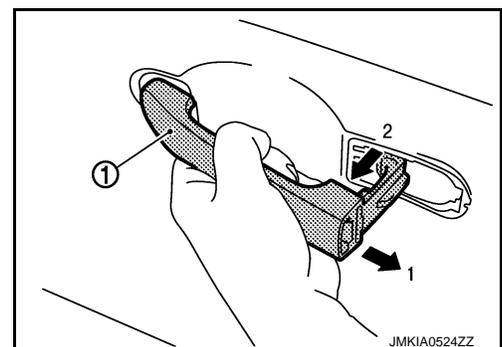
1. Fully close the rear door glass.
2. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
3. Remove inside handle. Refer to [DLK-921, "INSIDE HANDLE : Removal and Installation"](#).
4. Remove sealing screen and rear door lower sash. Refer to [GW-52, "REAR DOOR LOWER SASH : Removal and Installation"](#).
5. Remove door side grommet ①, and then loosen TORX bolt ② from grommet hole.



6. Remove outside handle escutcheon ② while pulling outside handle grip ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



7. Slide outside handle grip ① toward rear of vehicle and remove it according to the numerical order 1→2 indicated by arrows as shown in the figure.

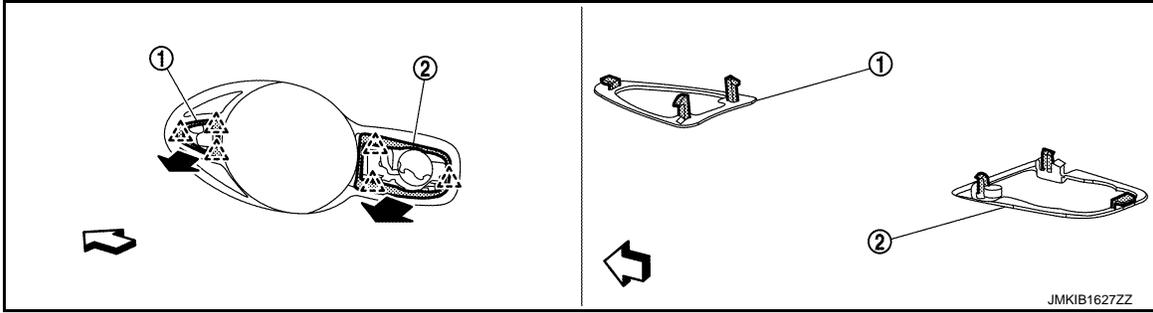


REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[TYPE 4]

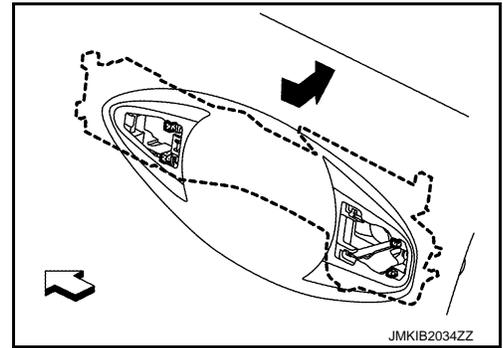
8. Remove front gasket ① and rear gasket ②.



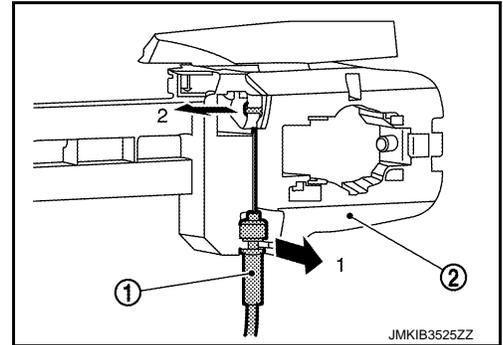
△ : Pawl
← : Vehicle front

9. Slide outside handle bracket toward rear of vehicle and remove it.

← : Vehicle front



10. Disconnect outside handle cable ① from outside handle bracket ② according to the numerical order 1→2 indicated by arrows as shown in the figure.



INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- When installing outside handle cable to outside handle, be careful that outside handle cable is routed normally.
- After installation, check door lock. Refer to [DLK-921, "DOOR LOCK : Inspection"](#).

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BACK DOOR LOCK

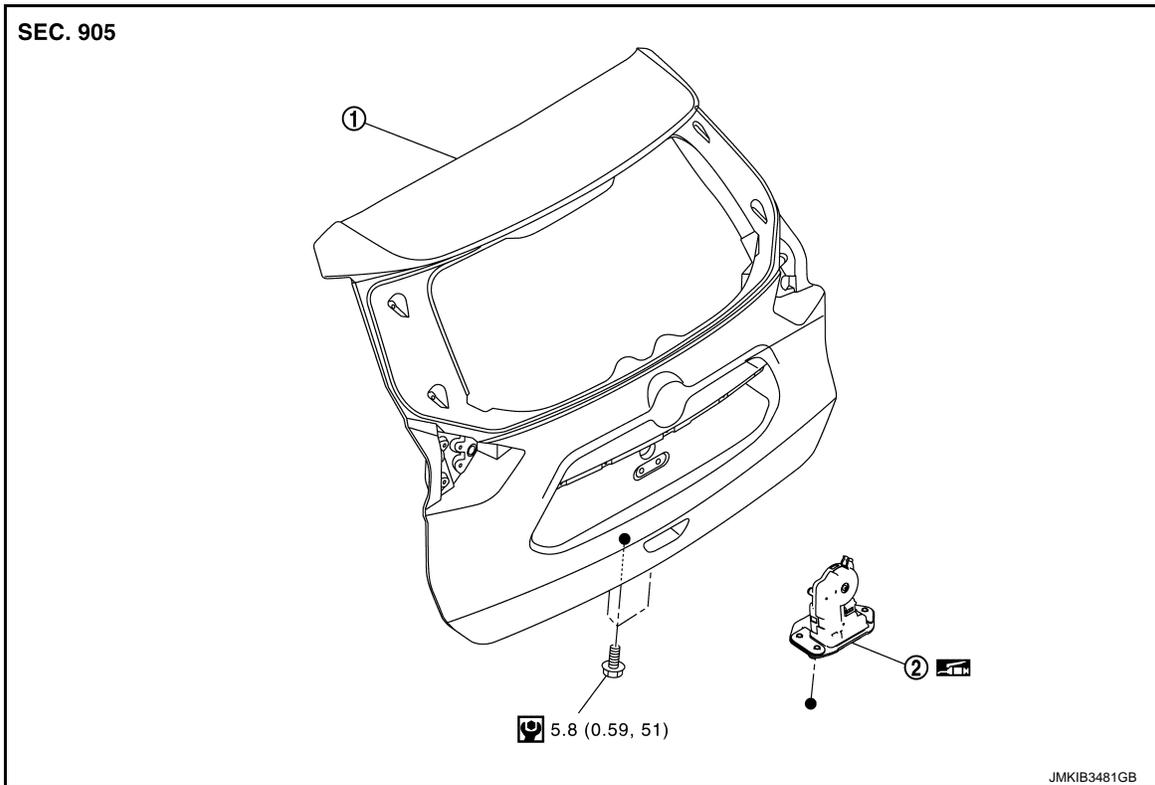
< REMOVAL AND INSTALLATION >

[TYPE 4]

BACK DOOR LOCK

Exploded View

INFOID:000000010728710



① Back door panel

② Back door lock assembly

 : N·m (kg-m, in-lb)

 : Body grease

●: Indicates that the part is connected at points with same symbol in actual vehicle.

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000010728711

REMOVAL

1. Remove back door inner finisher. Refer to [INT-47, "Removal and Installation"](#).
2. Disconnect back door lock assembly harness connector.
3. Remove back door lock assembly mounting bolts, and then remove back door lock assembly from back door panel.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check back door lock. Refer to [DLK-924, "DOOR LOCK : Inspection"](#).

DOOR LOCK : Inspection

INFOID:000000010728712

1. After opening and closing the back door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.

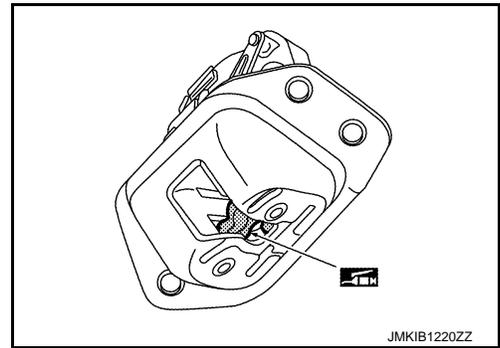
BACK DOOR LOCK

[TYPE 4]

< REMOVAL AND INSTALLATION >

3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

 : Body grease



DOOR LOCK : Unlock procedures

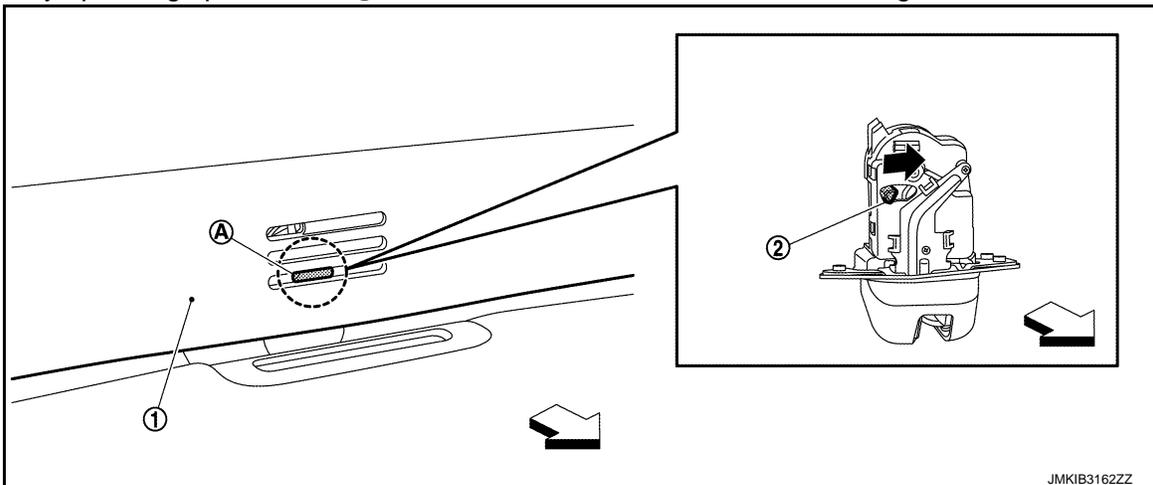
INFOID:000000010728713

UNLOCK PROCEDURES

NOTE:

Release lock according to the following procedures when lock cannot be unlocked due to a malfunction of door lock assembly or battery discharge.

Insert a screwdriver, etc. into tool insertion hole (A) of back door inner finisher (1), and then back door lock is unlocked by operating opener lever (2) in the direction of arrow as shown in the figure.



 : Vehicle front

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DLK

FUEL FILLER LID OPENER

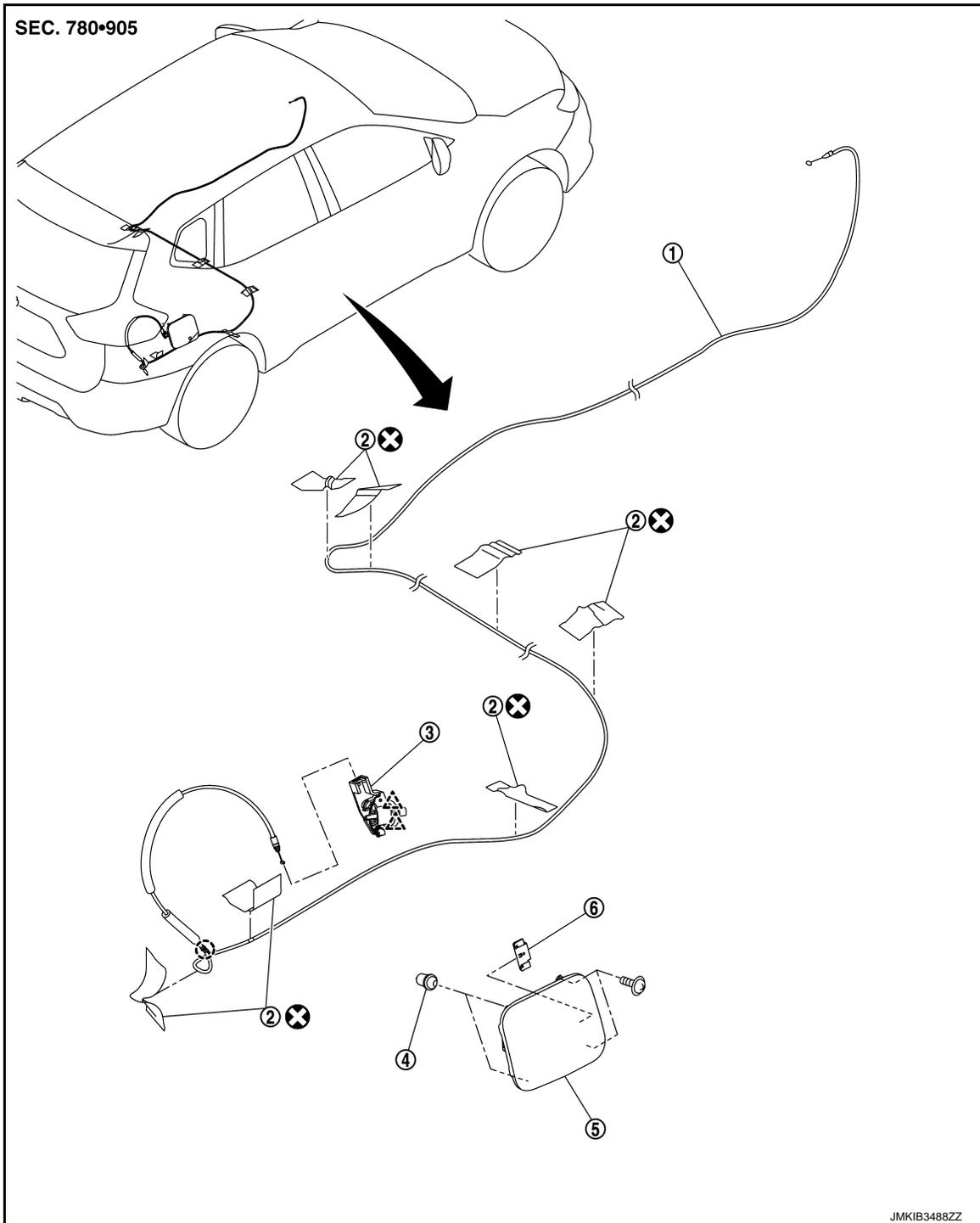
< REMOVAL AND INSTALLATION >

[TYPE 4]

FUEL FILLER LID OPENER

Exploded View

INFOID:000000010728679



① Fuel filler lid opener cable ② Cable protector ③ Fuel filler lid lock assembly

④ Bumper rubber

⑤ Fuel filler lid assembly

⑥ Spring

○ : Clip

△ : Pawl

⊗ : Always replace after every disassembly.

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[TYPE 4]

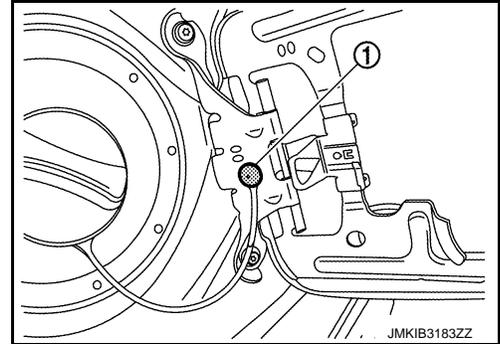
FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

INFOID:000000010728680

REMOVAL

1. Fully open fuel filler lid.
2. Remove fuel mounting pin ①.



3. Remove mounting bolts, and then remove fuel filler lid assembly.

INSTALLATION

Note the following items, and then 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.
- After installation, check fuel filler lid assembly open/close, lock/unlock operation.

NOTE:

- The following table shows the specified values for checking normal installation status.
- Fitting adjustment cannot be performed.

Unit: mm [in]

	Clearance	Evenness
Fuel filler lid – Body side outer	2.5 – 4.5 [0.098 – 0.177]	(-1.0) – (+1.0) [(-0.039) – (+0.039)]

FUEL FILLER LID LOCK

FUEL FILLER LID LOCK : Removal and Installation

INFOID:000000010728681

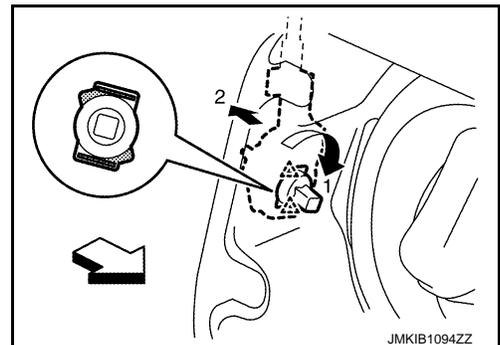
REMOVAL

1. Fully open fuel filler lid.
2. Remove luggage side lower finisher RH. Refer to [INT-43, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).
3. Rotate fuel filler lid lock assembly to disengage pawls and remove fuel filler lid lock assembly according to the numerical order 1→2 indicated by arrows as shown in the figure.

NOTE:

Operation is performed easily when rotating fuel filler lid lock from passenger room side.

- △ : Pawl
- ← : Vehicle front



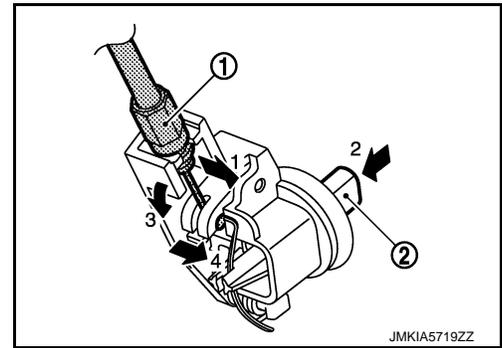
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FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[TYPE 4]

4. Disengage fuel filler lid opener cable ① and remove fuel filler lid opener cable while pressing stopper pin ② according to the numerical order 1→4 indicated by arrows as shown in the figure.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

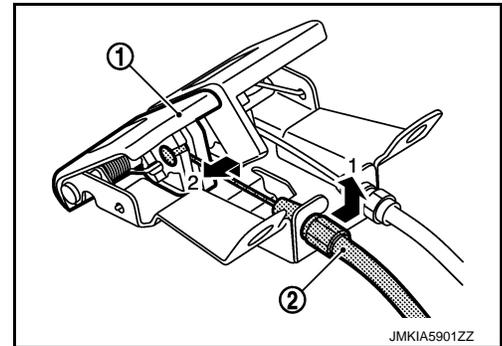
FUEL FILLER OPENER CABLE

FUEL FILLER OPENER CABLE : Removal and Installation

INFOID:000000010728682

REMOVAL

1. Remove hood lock control handle mounting bolts, and then hood lock control handle. Refer to [DLK-912, "HOOD LOCK CONTROL HANDLE : Removal and Installation"](#).
2. Remove fuel filler lid opener cable ② from fuel filler lid opener lever ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



3. Remove kicking plate inner LH and rear kicking plate inner (LH and RH). Refer to [INT-24, "KICKING PLATE : Removal and Installation"](#).
4. Remove dash side finisher LH. Refer to [INT-26, "DASH SIDE FINISHER : Removal and Installation"](#).
5. Remove center pillar lower garnish LH. Refer to [INT-27, "CENTER PILLAR LOWER GARNISH : Removal and Installation"](#).
6. Remove luggage side lower finisher RH. Refer to [INT-43, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).
7. Remove fuel filler lid opener cable from fuel filler lid lock assembly. Refer to [DLK-927, "FUEL FILLER LID LOCK : Removal and Installation"](#).
8. Remove fuel filler lid opener cable from harness protectors.
9. Remove fuel filler lid opener cable fixing clips, and then remove fuel filler lid opener cable.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

DOOR SWITCH

< REMOVAL AND INSTALLATION >

[TYPE 4]

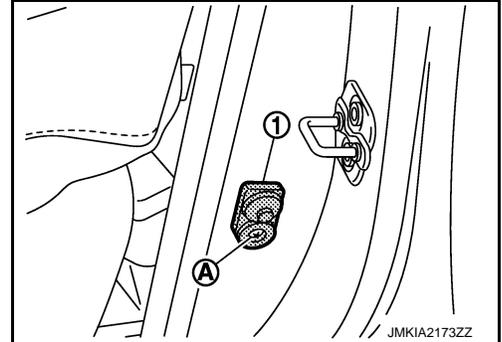
DOOR SWITCH

Removal and Installation

INFOID:000000011009612

REMOVAL

1. Remove the TORX bolt (A).
2. Disconnect door switch harness connector and then remove door switch (1).



INSTALLATION

Install in the reverse order of removal.

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KEYFOB BATTERY

< REMOVAL AND INSTALLATION >

[TYPE 4]

KEYFOB BATTERY

Removal and Installation

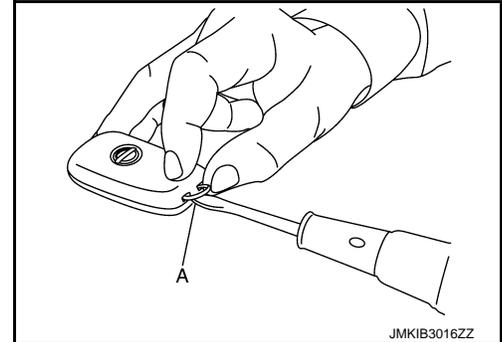
INFOID:000000011009613

REMOVAL

1. Insert a flat-blade screwdriver (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.

CAUTION:

- Do not touch the circuit board or battery terminal.
- The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.



2. Replace the battery with new one.

Battery replacement

**:Coin-type lithium battery
(CR2032)**

CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, check that all Intelligent Key functions work normally.

INSTALLATION

Install in the reverse order of removal.