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# **PRECAUTION**

#### **PRECAUTIONS**

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

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:**

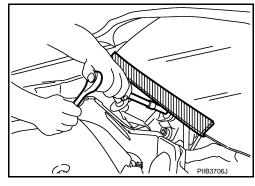
Always observe the following items for preventing accidental activation.

- 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:0000000011321731

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 Xenon Headlamp Service

INFOID:0000000011321732

#### **WARNING:**

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- · Never work with wet hands.
- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector.

#### **PRECAUTIONS**

#### < PRECAUTION >

(Turning it ON outside the lamp case may cause fire or visual impairments.)

Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

#### **CAUTION:**

Comply with the following cautions to prevent any error and malfunction.

- Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)
- Never perform HID circuit inspection with a tester.
- Never touch the xenon bulb glass with hands. Never put oil and grease on it.
- Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.
- Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).

#### Precautions for Removing Battery Terminal

 When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

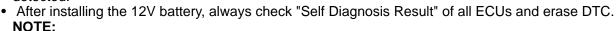
#### NOTE:

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.

• 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.



The removal of 12V battery may cause a DTC detection error.

Work INFOID:0000000011321734

- 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**

# Special Service Tools

INFOID:0000000011321735

The actual shapes of TechMate tools may differ from those of special service tools illustrated here.

Tool number (TechMate No.) Tool name		Description
(J-39570) Chassis ear	SIIAO993E	Locates the noise
(J-50397) NISSAN Squeak and Rat- tle Kit	SIIA0994E	Repairs the cause of noise

### **Commercial Service Tools**

INFOID:0000000011321736

	Tool name	Description
Engine ear	SIIA0995E	Locates the noise
Remover tool	JMKIA3050ZZ	Removes clips, pawls and metal clips

### **PREPARATION**

### < PREPARATION >

Tool name		Description
Power tool	PIIB1407E	Loosening bolts, nuts and screws
Hook and pick tool	JMJIA0490ZZ	Press tumbler stopper

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### < SYSTEM DESCRIPTION >

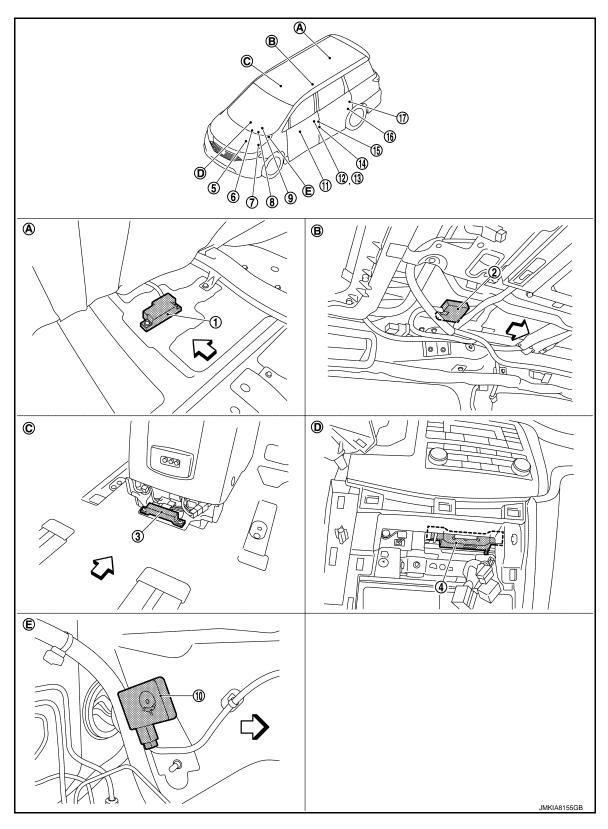
# SYSTEM DESCRIPTION

COMPONENT PARTS DOOR LOCK SYSTEM

DOOR LOCK SYSTEM : Component Parts Location

INFOID:0000000011321737

Front View



- View with luggage room finisher re-
- View with cluster lid C removed
- View with roof finisher removed
- Engine room LH
- C. View with center console assembly removed

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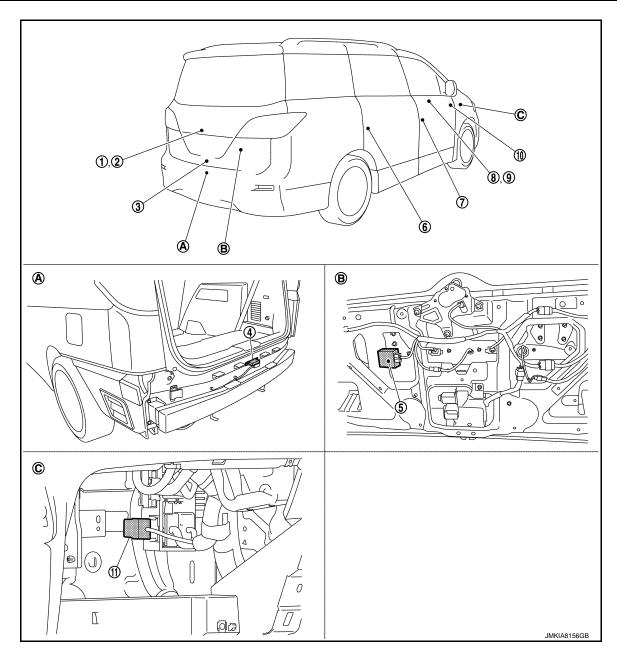
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**DLK-19** Revision: 2014 August **2015 QUEST** 

### < SYSTEM DESCRIPTION >

No.	Component	Function
1.	Inside key antenna (luggage room)	DLK-27, "Inside Key Antenna"
2.	Remote keyless entry receiver	DLK-27, "Remote Keyless Entry Receiver"
3.	Inside key antenna (console)	DLK-27, "Inside Key Antenna"
4.	Inside key antenna (instrument center)	DLK-27, "Inside Key Antenna"
5.	ТСМ	Transmits shift position signal to BCM via CAN communication line Refer to TM-11, "CVT CONTROL SYSTEM: Component Parts Location" for detailed installation location
6.	Push-button ignition switch	<ul> <li>Inputs push-button ignition switch ON/OFF condition to BCM</li> <li>Inputs power switch ON/OFF condition to BCM</li> <li>Refer to <u>SEC-5</u>, "Component Parts Location" for detailed installation location</li> </ul>
7.	IPDM E/R	Sounds horn via CAN communication between BCM Refer to PCS-4, "IPDM E/R : Component Parts Location" for detailed installation location
8.	ВСМ	BCM detects the vehicle status according to signals from each door switch, each outside/inside key antenna, and unlock sensor. BCM transmits drive signal to door lock actuator when BCM receives operation signal from remote keyless entry receiver and each switch     Inputs back door open request signal to back door control unit  Refer to BCS-4, "BODY CONTROL SYSTEM: Component Parts Location" for detailed installation location
9.	Combination meter	Displays each operation method guide and warning for system malfunction     Performs operation method guide and warning with buzzer     Transmits vehicle speed signal to CAN communication line Refer to MWI-6, "METER SYSTEM: Component Parts Location" for detailed installation location
10.	Intelligent Key warning buzzer	DLK-28, "Intelligent Key Warning Buzzer"
11.	Door lock and unlock switch (driver side)	DLK-28, "Door Lock and Unlock Switch (Driver Side)"
12.	Front door outside handle assembly LH (outside key antenna)	DLK-27, "Front Door Outside Handle Assembly (Outside Key Antenna)"
13.	Front door request switch (driver side)	DLK-28, "Front Door Request Switch"
14.	Front door switch (driver side)	DLK-28, "Front Door Switch"
15.	Front door lock assembly (driver side)	DLK-28, "Front Door Lock Assembly (Driver Side)"
16.	Sliding door switch LH	DLK-31, "Sliding Door Switch"
17.	Sliding door lock assembly LH	DLK-31, "Sliding Door Lock Assembly"

Rear View



A. View with rear bumper removed

B. View with back door lower finisher removed

C. View with instrument lower panel RH removed

No.	Component	Function
1.	Back door opener switch	DLK-29, "Back Door Opener Switch"
2.	Back door request switch	DLK-29, "Back Door Request Switch"
3.	Back door lock assembly	DLK-29, "Back Door Lock Assembly (Without Automatic Back Door System)"
4.	Outside antenna (rear bumper)	DLK-27, "Outside Key Antenna (Rear Bumper)"
5.	Back door control unit	DLK-29, "Back Door Control Unit (Without Automatic Back Door System)"
6.	Sliding door switch RH	DLK-31, "Sliding Door Switch"
7.	Front door switch (passenger side)	DLK-28, "Front Door Switch"
8.	Front door outside handle assembly RH (outside key antenna)	DLK-27, "Front Door Outside Handle Assembly (Outside Key Antenna)"
9.	Front door request switch (passenger side)	DLK-28, "Front Door Request Switch"

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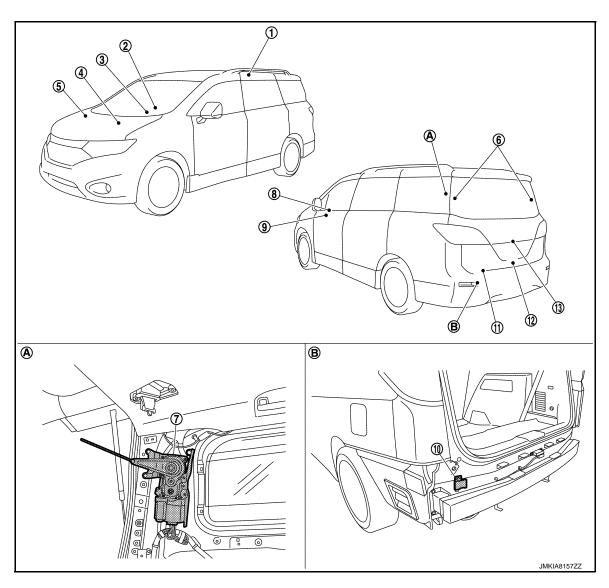
### < SYSTEM DESCRIPTION >

No.	Component	Function
10.	Door lock and unlock switch (passenger side)	DLK-28, "Door Lock and Unlock Switch (Passenger Side)"
11.	Selective unlock relay	DLK-29, "Selective Unlock Relay"

### **AUTOMATIC BACK DOOR SYSTEM**

# AUTOMATIC BACK DOOR SYSTEM: Component Parts Location

INFOID:0000000011321738



A. View with luggage side upper finish- B. View with rear bumper removed er removed

No.	Component	Function
1.	Remote keyless entry receiver	Receives Intelligent Key operation and transmits to BCM Refer to <u>DLK-18</u> , " <u>DOOR LOCK SYSTEM</u> : <u>Component Parts Location</u> " for detailed installation location
2.	Combination meter	Transmits vehicle speed signal to CAN communication line Refer to MWI-6, "METER SYSTEM: Component Parts Location" for detailed installation location
3.	ВСМ	Transmits and receives signal to the automatic back door control module Refer to BCS-4, "BODY CONTROL SYSTEM: Component Parts Location" for detailed installation location

### < SYSTEM DESCRIPTION >

No.	Component	Function
4.	ТСМ	Transmits shift position signal to BCM via CAN communication line Refer to TM-11, "CVT CONTROL SYSTEM: Component Parts Location" for detailed installation location
5.	ABS actuator and electric unit	Transmits vehicle speed signal to CAN communication line Refer to BRC-9, "Component Parts Location" for detailed installation location
6.	Back door touch sensor LH/RH	DLK-30, "Back Door Touch Sensor"
7.	Automatic back door control module	DLK-30, "Automatic Back Door Control Module"
8.	Automatic back door switch	DLK-30, "Automatic Back Door Switch"
9.	Automatic door main switch	DLK-30, "Automatic Door Main Switch"
10.	Automatic back door warning buzzer	DLK-30, "Automatic Back Door Warning Buzzer"
11.	Automatic back door close switch	DLK-30, "Automatic Back Door Close Switch"
12.	Back door lock assembly	DLK-30, "Back Door Lock Assembly (With Automatic Back Door System)"
13.	Automatic back door opener switch	DLK-30, "Automatic Back Door Opener Switch"

### **AUTOMATIC SLIDING DOOR SYSTEM**

# AUTOMATIC SLIDING DOOR SYSTEM : Component Parts Location

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**DLK-23** Revision: 2014 August **2015 QUEST** 

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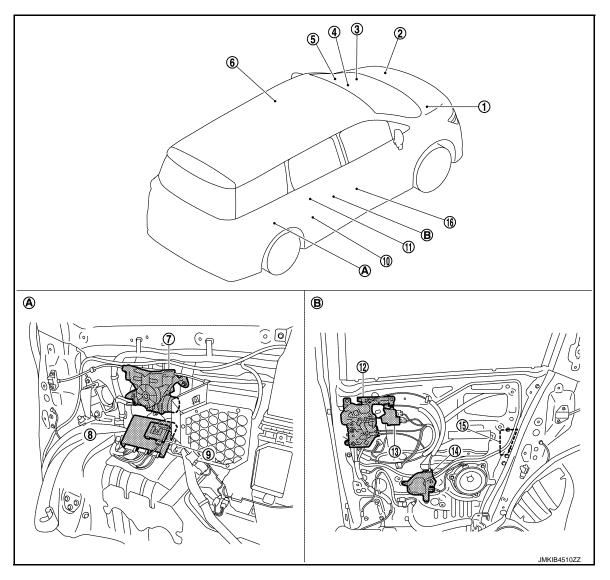
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A. View with luggage side lower finisher B. View with sliding door finisher RH re-RH removed moved

No.	Component	Function
1.	ABS actuator and electric unit	Transmits vehicle speed signal to sliding door control unit via CAN communication line  Refer to BRC-9, "Component Parts Location" for detailed installation location
2.	ТСМ	Transmits shift position signal to sliding door control unit via CAN communication line  Refer to TM-11, "CVT CONTROL SYSTEM: Component Parts Location" for detailed installation location
3.	ВСМ	Transmits ignition switch ON signal, automatic sliding door operate request signal and sleep wake up signal to sliding door control unit via CAN communication line  Refer to BCS-4, "BODY CONTROL SYSTEM: Component Parts  Location" for detailed installation location
4.	Combination meter	Transmits vehicle speed signal to sliding door control unit via CAN communication line Refer to MWI-6, "METER SYSTEM: Component Parts Location" for detailed installation location

### < SYSTEM DESCRIPTION >

No.	Component		Function
5.	Automatic sliding door open/close switch (driver side)		DLK-30, "Automatic Sliding Door Open/Close Switch"
6.	Remote keyless entry receiver		Receives Intelligent Key operation and transmits to BCM Refer to <u>DLK-18</u> , " <u>DOOR LOCK SYSTEM</u> : Component Parts Location" for detailed installation location
	Automatic sliding door unit RH	Encoder	DLK-30, "Automatic Sliding Door Unit"
7.		Clutch	
		Automatic sliding door motor	
8.	Sliding door control unit RH		DLK-31, "Sliding Door Control Unit"
9.	Automatic sliding door warning buzzer RH		DLK-31, "Automatic Sliding Door Warning Buzzer"
10.	Sliding door switch RH		DLK-31, "Sliding Door Switch"
11.	Automatic sliding door one-touch open/close switch RH		DLK-31, "Automatic Sliding Door One-Touch Open/Close Switch"
12.	Remote control assembly RH (sliding door handle switch)		DLK-31, "Remote Control Assembly"
	Sliding door lock actuator RH	Sliding door lock actuator	
13.		Sliding door lock status switch	DLK-31, "Sliding Door Lock Actuator"
14.	Sliding door lock release actuator RH		DLK-31, "Sliding Door Lock Release Actuator"
	Sliding door lock assembly RH	Neutral switch	DLK-31, "Sliding Door Lock Assembly"
		Full latch switch	
15.		Half latch switch	
		Sliding door closure motor	
16.	Sliding door touch sensor RH		DLK-31, "Sliding Door Touch Sensor"

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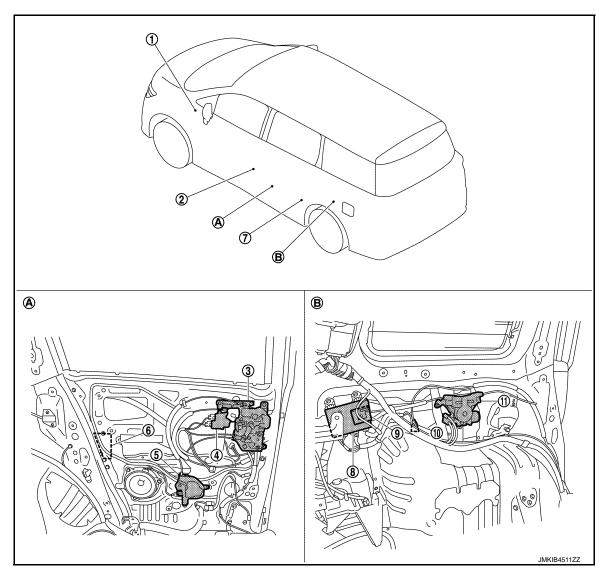
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A. View with sliding door finisher LH re- B. View with luggage side lower finisher moved LH removed

No.	Component		Function
1.	Automatic door main switch		DLK-30, "Automatic Door Main Switch"
2.	Sliding door touch sensor LH		DLK-31, "Sliding Door Touch Sensor"
3.	Remote control assembly LH (sliding door handle switch)		DLK-31, "Remote Control Assembly"
-	Sliding door lock actuator LH	Sliding door lock actuator	
4.		Sliding door lock status switch	DLK-31, "Sliding Door Lock Actuator"
5.	Sliding door lock release actuator LH		DLK-31, "Sliding Door Lock Release Actuator"
	Sliding door lock assembly LH	Neutral switch	DLK-31, "Sliding Door Lock Assembly"
		Full latch switch	
6.		Half latch switch	
		Sliding door closure motor	
7.	Sliding door switch LH		DLK-31, "Sliding Door Switch"
8.	Sliding door control unit LH		DLK-31, "Sliding Door Control Unit"

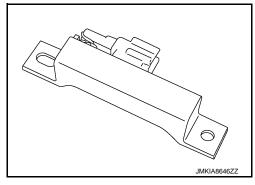
#### < SYSTEM DESCRIPTION >

No.	Component		Function
9.	Automatic sliding door warning buzzer LH		DLK-31, "Automatic Sliding Door Warning Buzzer"
10.	Fuel filler lid status switch		DLK-32, "Fuel Filler Lid Sliding Door Unit"
11.	Automatic sliding door unit LH	Encoder	DLK-30, "Automatic Sliding Door Unit"
		Clutch	
		Automatic sliding door motor	

### Inside Key Antenna

INFOID:0000000011321740

Inside key antenna detects that Intelligent Key is within the inside detection area, and then transmits detection status to BCM.



### Front Door Outside Handle Assembly (Outside Key Antenna)

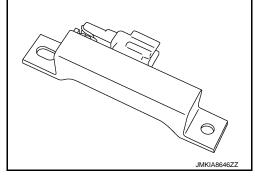
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- Outside key antenna detects that Intelligent Key is within the outside detection area, and then transmits
  detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.
- Outside key antenna is installed in side outside handle assembly.

### Outside Key Antenna (Rear Bumper)

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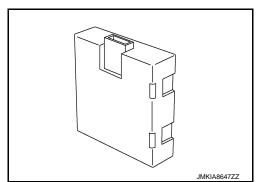
- Outside key antenna (rear bumper) detects that Intelligent Key is within the outside detection area, and then transmits detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.
- Outside key antenna (rear bumper) is installed in the rear of rear bumper.



### Remote Keyless Entry Receiver

INFOID:0000000011321743

Remote keyless entry receiver receives button operation signal and key ID signal of Intelligent Key, and then transmits them to BCM.



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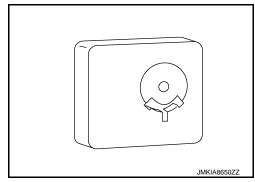
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### Intelligent Key Warning Buzzer

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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.



### Door Lock and Unlock Switch (Driver Side)

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

### Door Lock and Unlock Switch (Passenger Side)

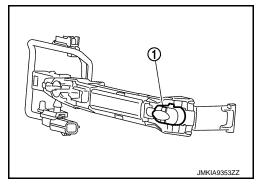
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- Door lock and unlock switch transmits door lock/unlock signal operation to BCM.
- Door lock and unlock switch is Integrated in the front power window switch (passenger side).

### Front Door Request Switch

INFOID:0000000011321747

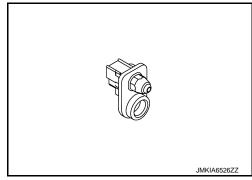
- Front door request switch (1) transmits door request switch signal to BCM.
- Front door request switch (1) integrated in outside handle assembly.



#### Front Door Switch

INFOID:0000000011321748

Door switch detects open/close status of door and transmits door switch signal to BCM.



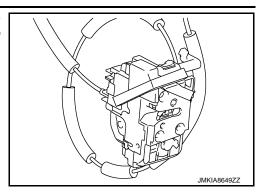
### Front Door Lock Assembly (Driver Side)

INFOID:0000000011321749

- Door lock actuator and unlock sensor are Integrated in driver door lock assembly.
- Door lock actuator receives lock/unlock signal from BCM, and then locks/unlocks driver door.

#### < SYSTEM DESCRIPTION >

Only front door lock assembly (driver side) integrates unlock sensor. Unlock sensor transmits lock/unlock status of driver seat to BCM.

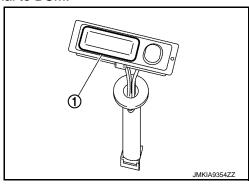


### **Back Door Opener Switch**

INFOID:0000000011321750

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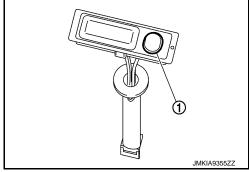
- Back door opener switch (1) transmits back door opener switch signal to BCM.
- Back door opener switch (1) is integrated in outside handle (back door).



### **Back Door Request Switch**

INFOID:0000000011321751

- Back door request switch (1) transmits back door request switch signal to BCM.
- Back door request switch (1) is integrated in outside handle (back door).



## Back Door Lock Assembly (Without Automatic Back Door System)

INFOID:0000000011321752

Back door closure motor, half latch switch, open switch, close switch and back door switch are installed

- Closure motor: Inputs open/close signal from 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 and transmits signal to BCM.

### Back Door Control Unit (Without Automatic Back Door System)

INFOID:0000000011321753

Controls the back door auto closure system.

#### Selective Unlock Relay

INFOID:0000000011321754

Detects open/close status of front door (passenger side) and transmits signal to BCM.

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#### < SYSTEM DESCRIPTION >

#### **Back Door Touch Sensor**

INFOID:0000000011321755

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

#### **Automatic Back Door Control Module**

INFOID:0000000011321756

Automatic back door control unit, encoder, automatic back door motor and clutch are installed.

- Automatic back door control unit: Controls the automatic back door system.
- 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.
- Automatic back door motor: Inputs open/close signal from automatic back door control unit and activates the automatic back door open/close operation.
- Clutch: Performs the duty control of the power supply to control the operation speed of the back door.

#### Automatic Back Door Switch

INFOID:0000000011321757

Detects open/close operation of automatic back door

#### Automatic Door Main Switch

INFOID:0000000011321758

- Controls automatic open/close operation of each switches.
- Transmits automatic door main switch signal to sliding door control unit and automatic back door control module.

### Automatic Back Door Warning Buzzer

INFOID:0000000011321759

Warns the user of the automatic back door condition and inappropriate operations with the buzzer sounds

#### Automatic Back Door Close Switch

INFOID:0000000011321760

- Detects close operation of automatic back door.
- Transmits automatic back door close switch signal to automatic back door control module.

### Back Door Lock Assembly (With Automatic Back Door System)

INFOID:0000000011321761

Back door closure motor, half latch switch, open switch, close switch and back door switch are installed.

- Closure motor: Inputs open/close signal from automatic back door control module 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: Inputs back door open/ close condition to BCM.

### Automatic Back Door Opener Switch

INFOID:0000000011321762

Door switch detects open/close status of door and transmits door switch signal to BCM.

- Detects open operation of automatic back door.
- Transmits automatic back door opener switch signal to automatic back door control module.

### Automatic Sliding Door Open/Close Switch

INFOID:0000000011321763

Transmits automatic sliding door open/close switch signal to sliding door control unit.

### **Automatic Sliding Door Unit**

INFOID:0000000011321764

Encoder, clutch and automatic sliding door motor are installed.

- Encoder: Sliding door control unit receives the pulse signals from encoders A and B that occurred due to synchronization with the sliding door operation. The sliding door control unit calculates the sliding door position, operation direction, and operation speed according to the received pulse signals.
- Clutch: Performs the duty control of the power supply to control the operation speed of the sliding door.
- Automatic sliding door motor: Inputs open/close signal from sliding door control unit and activates the automatic sliding door auto open/close operation.

#### < SYSTEM DESCRIPTION >

### Sliding Door Control Unit

INFOID:0000000011321765

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Controls the automatic sliding door system

### **Automatic Sliding Door Warning Buzzer**

INFOID:0000000011321766

Warns the user of the automatic sliding door condition and inappropriate operations with the buzzer sounds.

### Automatic Sliding Door One-Touch Open/Close Switch

INFOID:0000000011321767

Transmits automatic sliding door one-touch open/close switch signal to sliding door control unit.

### Remote Control Assembly

INFOID:0000000011321768

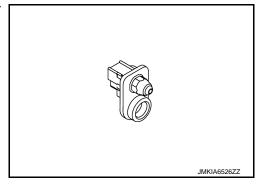
Sliding door handle switch is installed.

• Sliding door handle switch: Detects operation/non-operation status of sliding door handle and transmits signal to sliding door control unit.

### Sliding Door Switch

INFOID:0000000011321769

Door switch detects open/close status of door and transmits door switch signal to BCM.



### Sliding Door Lock Actuator

INFOID:0000000011321770

#### SLIDING DOOR LOCK ACTUATOR

Child lock status switch and sliding door handle switch are installed.

#### SLIDING DOOR LOCK STATUS SWITCH

- Child lock status switch: Detects lock/unlock status of sliding door child lock and transmits signal to sliding door control unit.
- Sliding door handle switch: Detects operation/non-operation status of sliding door handle and transmits signal to sliding door control unit.

### Sliding Door Lock Release Actuator

INFOID:0000000011321771

Inputs release signal from sliding door control unit and releases sliding door latch

### Sliding Door Lock Assembly

INFOID:0000000011321772

- Door lock actuator is Integrated in driver door lock assembly.
- Door lock actuator receives lock/unlock signal from BCM, and then locks/unlocks sliding door.
- Neutral switch, full latch switch, half latch switch and sliding door closure motor are installed.
- Neutral switch: Detects neutral position of sliding door closure motor.
- Full latch switch: Detects fully closed status of sliding door.
- Half latch switch: Detects half latch status of sliding door.
- Sliding door closure motor: Inputs close signal from sliding door control unit and activates the sliding door auto closure operation.

### Sliding Door Touch Sensor

INFOID:0000000011321773

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

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### < SYSTEM DESCRIPTION >

# Fuel Filler Lid Sliding Door Unit

INFOID:0000000011321774

- Detects open/close status of fuel filler lid and transmits signal to sliding door control unit.
- Integrated in fuel filler interlock assembly.

### SYSTEM (POWER DOOR LOCK SYSTEM)

#### < SYSTEM DESCRIPTION >

### SYSTEM (POWER DOOR LOCK SYSTEM)

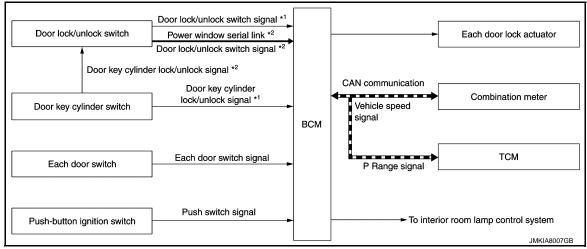
### System Description

#### INFOID:0000000011321775

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#### SYSTEM DIAGRAM



<sup>\*1:</sup>With driver side window anti-pinch

#### DOOR LOCK FUNCTION

Door Lock and Unlock Switch

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

Door Key Cylinder Switch

- 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 side door, turning it to unlock position again within 60 seconds after the first unlock operation unlocks all of the other doors actuator. (SELECTIVE UNLOCK OPERATION)

Selective unlock operation mode can be changed using CONSULT.

Refer to DLK-94, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

#### DOOR KEY CYLINDER SWITCH POWER WINDOW FUNCTION

Driver side door key cylinder LOCK/UNLOCK operation can activate power window. Refer to <a href="PWC-9">PWC-9</a>, "System Description" (with front window anti-pinch), <a href="PWC-73">PWC-73</a>, "System Description" (driver side window anti-pinch).

#### IGNITION POSITION WARNING FUNCTION

When door lock and unlock switch are operated while driver side door is open and ignition position is ACC or ON, door locks once but immediately unlocks.

#### INTERIOR ROOM LAMP CONTROL FUNCTION

Interior room lamp is controlled according to door lock/unlock state, refer to <a href="INL-6">INL-6</a>, "INTERIOR ROOM LAMP CONTROL SYSTEM: System Description".

#### AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (LOCK OPERATION)

The interlock door lock function is the function that locks all doors linked with the vehicle speed or shift position. It has 2 types as per the following items.

Vehicle Speed Sensing Auto Door Lock

All doors are locked when the vehicle speed reaches 24 km/h (15 MPH) or more.

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<sup>\*2:</sup>With front window anti-pinch

#### SYSTEM (POWER DOOR LOCK SYSTEM)

#### < SYSTEM DESCRIPTION >

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 24 km/h (15 MPH) or more.

#### P Range Interlock Door Lock

All doors are locked when shifting the selector lever from the P position to any position other than P.

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is in the ON position, all doors are closed and the shift signal received from the TCM via CAN communication shifted from the P position to any position other than P.

Setting change of Automatic Door Lock/Unlock Function

The lock operation setting of the automatic door lock/unlock function can be changed.

#### (P) With CONSULT

The ON/OFF switching of the automatic door lock function and the type selection of the automatic door lock/unlock function can be performed at the WORK SUPPORT setting of CONSULT.

#### **⋈** Without CONSULT

The automatic door lock function ON/OFF can be switched by performing the following operation.

- 1. Close all doors (door switch OFF)
- 2. Ignition switch: OFF→ON
- Press and hold the door lock and unlock switch for 5 seconds or more in the lock direction within 20 seconds after turning the ignition switch ON.
- 4. The switching complete when the hazard lamp blinks.

 $OFF \rightarrow ON$  : 2 blinks  $ON \rightarrow OFF$  : 1 blink

#### AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (UNLOCK OPERATION)

The automatic door lock/unlock function is the function that unlocks all doors linked with the key position or shift position. It has 2 types as per the following items.

#### IGN OFF Interlock Door Unlock

All doors are unlocked when the power supply position is changed from ON to OFF.

BCM outputs the unlock signal to all door lock actuators when it detects that the power supply position is changed from ignition switch ON to OFF.

#### P Range Interlock Door Unlock

All doors are unlocked when shifting the selector lever from any position other than the P to P position.

BCM outputs the unlock signal to all door lock actuators when it detects that the ignition switch is in the ON position and the shift signal received from TCM via CAN communication is shifted from any position other than the P to P position.

Setting change of Automatic Door Lock/Unlock Function

The unlock operation setting of the automatic door lock/unlock function can be changed.

#### (P) With CONSULT

The ON/OFF switching of the automatic door lock/unlock function and the type selection of the automatic door lock/unlock function can be performed at the WORK SUPPORT setting of CONSULT.

#### (R) Without CONSULT

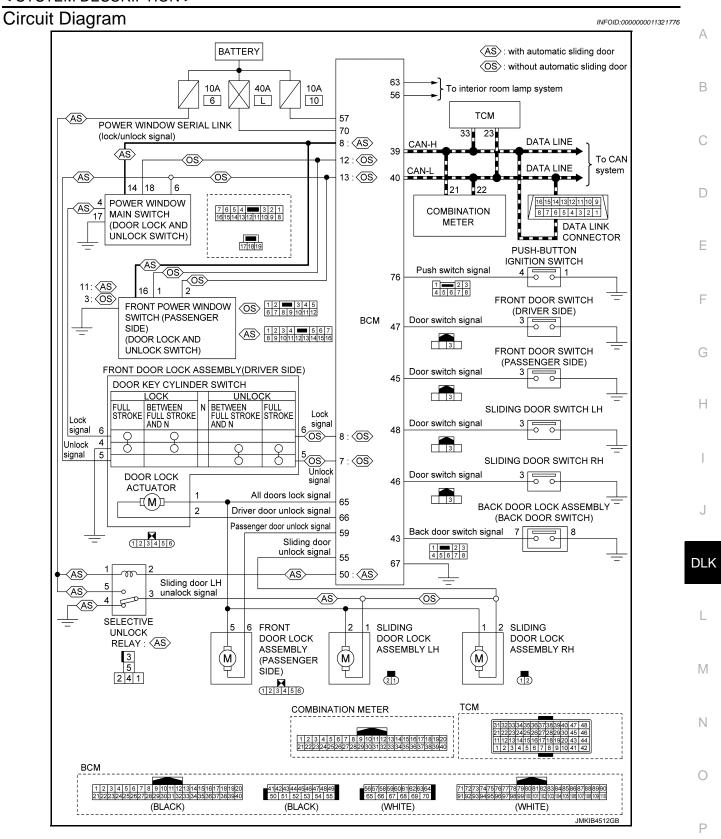
The automatic door lock/unlock function ON/OFF can be switched by performing the following operation.

- 1. Close all doors (door switch OFF)
- 2. Ignition switch: OFF→ON
- 3. Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the power supply position ON.
- 4. The switching is complete when the hazard lamp blinks.

 $OFF \rightarrow ON$  : 2 blinks  $ON \rightarrow OFF$  : 1 blink

### SYSTEM (POWER DOOR LOCK SYSTEM)

#### < SYSTEM DESCRIPTION >



### SYSTEM (INTELLIGENT KEY SYSTEM)

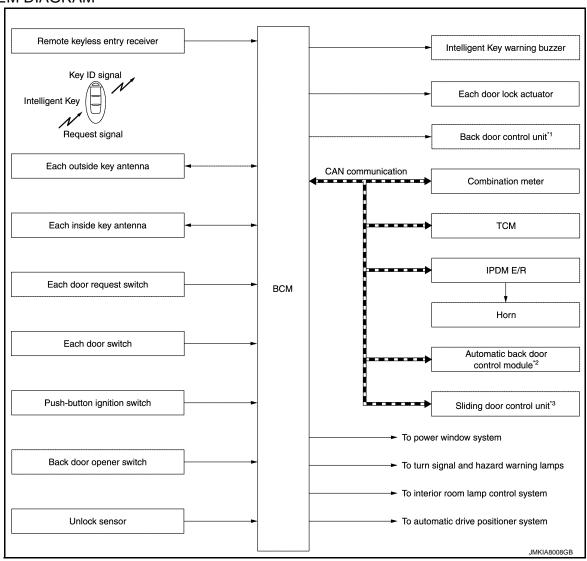
#### < SYSTEM DESCRIPTION >

# SYSTEM (INTELLIGENT KEY SYSTEM) INTELLIGENT KEY SYSTEM

**INTELLIGENT KEY SYSTEM: System Description** 

INFOID:0000000011321777

#### SYSTEM DIAGRAM



<sup>\*1:</sup>With back door auto closure system

 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.

<sup>\*2:</sup>With automatic back door system

<sup>\*:</sup>With automatic sliding door system

### < SYSTEM DESCRIPTION >

Function	Description	Refer			
Door lock	Lock/unlock can be performed by pressing the request switch	DLK-40			
Back door opener	door opener The back door can be opened by carrying the Intelligent Key and pressing the back door opener switch				
Remote keyless entry	e keyless entry  Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key				
Key reminder  The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle					
Warning	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver	<u>DLK-47</u>			
Engine start	The engine can be turned on while carrying the Intelligent Key	SEC-9			
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state	INL-6			
Power window	Power window can be operated by Intelligent Key button operation	PWC-9			
Automatic drive positioner	Automatic drive positioner system can be operated by door unlock operation	ADP-9			
Panic alarm	When Intelligent Key panic alarm button is pressed, horn sounds	SEC-19			

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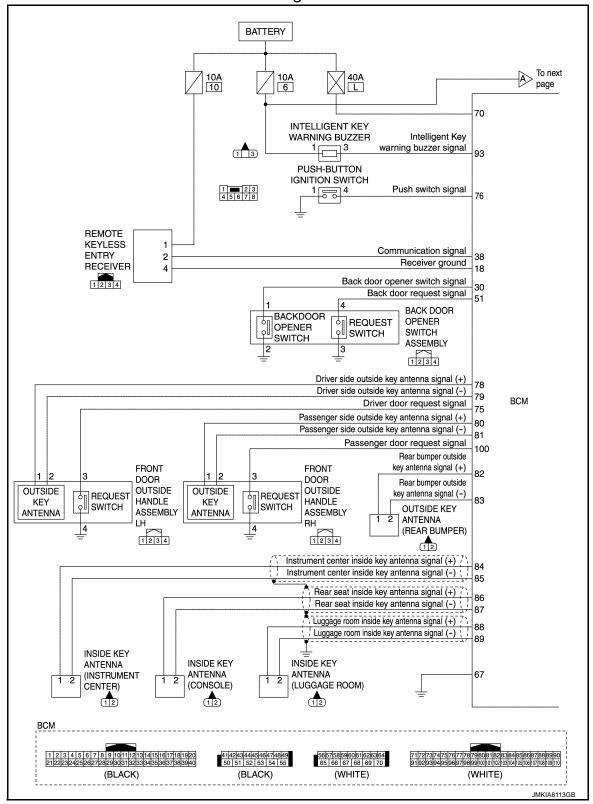
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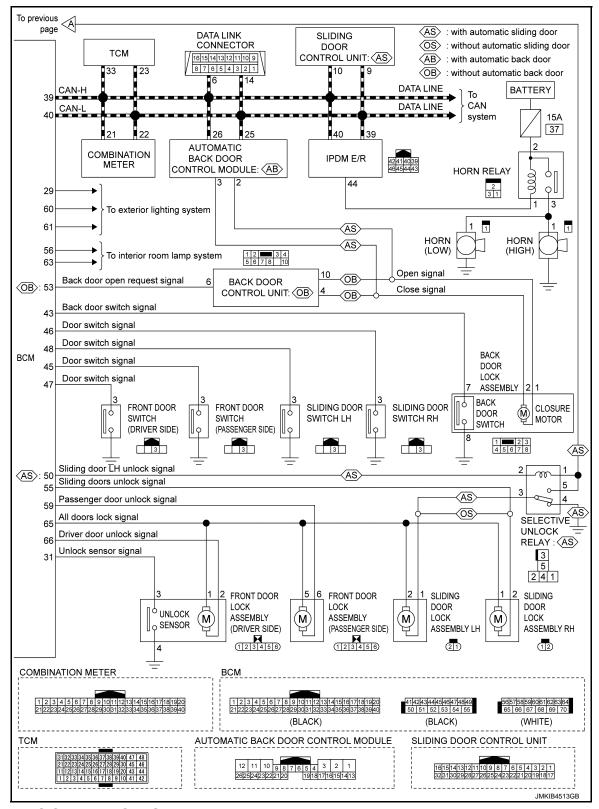
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### INTELLIGENT KEY SYSTEM: Circuit Diagram

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DOOR LOCK FUNCTION

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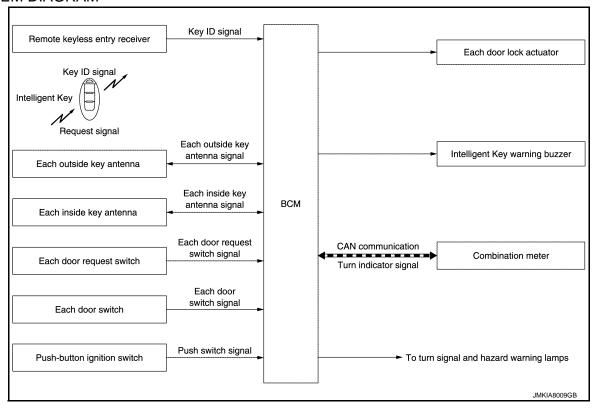
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#### < SYSTEM DESCRIPTION >

### DOOR LOCK FUNCTION: System Description

INFOID:0000000011321779

#### SYSTEM DIAGRAM



#### DOOR REQUEST SWITCH OPERATION

Only 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 activates 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 locks/unlocks each doors.
- BCM sounds Intelligent Key warning buzzer (lock: 2 times, unlock: 1 time) and blinks hazard warning lamps (lock: 2 times, unlock: 1 time) at the same time as a reminder.

#### **OPERATION CONDITION**

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

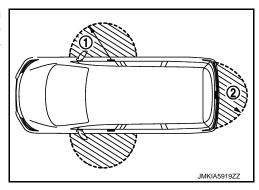
Each door request switch operation	Operation condition
Lock	<ul> <li>All doors are closed</li> <li>Panic alarm is not activated</li> <li>P position warning is not activated</li> <li>Intelligent Key is outside the vehicle</li> <li>Intelligent Key is within outside key antenna detection area*</li> </ul>
Unlock	<ul> <li>Panic alarm is not activated</li> <li>Intelligent Key is outside the vehicle</li> <li>Intelligent Key is within outside key antenna detection area*</li> </ul>

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

#### < SYSTEM DESCRIPTION >

#### **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, passenger door handles (1) and back door handle (2). However, this operating range depends on the ambient conditions.



#### SELECTIVE UNLOCK FUNCTION

**Lock Operation** 

When an LOCK signal is sent from door request switch (driver side, passenger side, back door), all doors and fuel filler lid are locked.

**Unlock Operation** 

- When an UNLOCK signal from driver side door request switch is transmitted, driver side door are unlocked. When another UNLOCK signal is transmitted within 60 seconds, all other doors are unlocked, back door open permission is set.
- · When an UNLOCK signal from passenger side door request switch is transmitted, passenger side door is unlocked. When another UNLOCK signal is transmitted within 60 seconds, all other doors are unlocked, back door open permission is set.
- When an UNLOCK signal from back door request switch is transmitted, back door open permission is set. When another UNLOCK signal is transmitted within 60 seconds, all doors are unlocked.
- Only the door, of which one touch switch is pressed, unlock and starts automatic open operation when onetouch switch of sliding door is pressed.

#### **How To Change Selective Unlock Operation Mode**

Selective unlock operation mode can be changed using CONSULT.

Refer to DLK-95, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

#### HAZARD AND BUZZER REMINDER FUNCTION

During lock or unlock operation by each door request switch, the hazard warning lamps and Intelligent Key warning buzzer blinks or honks as a reminder.

Operating Function Of Hazard And buzzer Reminder

Operation	Hazard warning lamp blinks	Intelligent Key warning buzzer honks
Unlock	Once	Once
Lock	Twice	Twice

Hazard and buzzer reminder does not operate in the following conditions.

- Ignition switch position is ON
- Door is open (only lock operation)

#### How To Change Hazard And Buzzer Reminder Mode

Hazard and buzzer reminder mode can be changed using CONSULT.

Refer to DLK-95, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

#### AUTO DOOR LOCK FUNCTION

After door is unlocked by door request switch operation and if 60 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.

Operating condition	<ul><li>Door switch is ON (door is open)</li><li>Door is locked</li><li>Push switch is pressed</li></ul>
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#### **How To Change Auto Door Lock Operation Mode**

Auto door lock operation mode can be changed using CONSULT.

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#### < SYSTEM DESCRIPTION >

Refer to DLK-95, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

#### LIST OF OPERATION RELATED PARTS

Parts marked with  $\times$  are the parts related to operation.

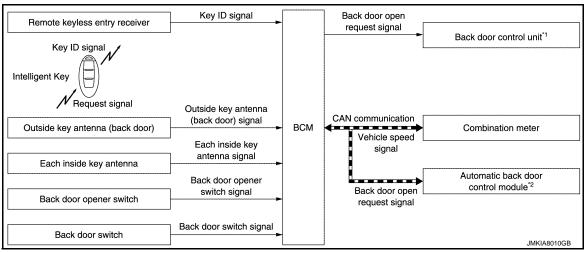
Function	Intelligent Key	Remote keyless entry receiver	Door switch	Door request switch	Door lock actuator	Inside key antenna	Outside key antenna	CAN communication system	BCM	Hazard warning lamp	Intelligent Key warning buzzer	Push-button ignition switch
Door lock/unlock function	×	×	×	×	×	×	×		×			
Hazard reminder function								×	×	×	×	
Selective unlock function	×			×	×	×	×		×			
Auto door lock function	×				×				×			×

#### BACK DOOR OPEN FUNCTION

### BACK DOOR OPEN FUNCTION: System Description

INFOID:0000000011321780

#### **BACK DOOR OPEN OPERATION**



<sup>\*1:</sup>With back door auto closure system

#### **BACK DOOR OPEN OPERATION**

This section describes the operation of the back door opener switch.

- The back door open function can open the back door by pressing the back door opener switch while carrying the Intelligent Key and all doors are locked.
- The back door open function enables the back door to be opened by pressing back door opener switch after BCM transmits UNLOCK signal to each door.Refer to <u>DLK-52</u>, "System <u>Description</u>".

#### BACK DOOR OPEN (WITH BACK DOOR AUTO CLOSURE SYSTEM MODELS)

- 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 back door control unit.

<sup>\*2:</sup>With automatic back door system

#### < SYSTEM DESCRIPTION >

- Back door control unit transmits back door open request signal to back door lock assembly and back door is open.
- When back door is open, back door auto closure system performs waiting operation for next back door close operation.
  - The operation of then back door open is the same as the back door auto closure system, refer to <a href="DLK-52">DLK-52</a>, <a href="System Description"</a>.

#### BACK DOOR OPEN (WITH AUTOMATIC BACK DOOR SYSTEM MODELS)

- 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.
- 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.
  - The operation of then back door open is the same as the automatic back door system, refer to <a href="DLK-61">DLK-61</a>. <a href=""OPEN FUNCTION">"OPEN FUNCTION</a>: System Description".

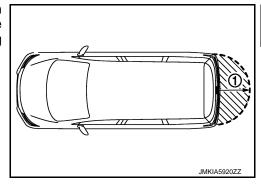
#### OPERATION CONDITION

If the following conditions are not satisfied, back door open operation is not performed even if the back door opener switch is operated.

Back door opener switch operation	Operation condition
Back door open	<ul> <li>Vehicle speed is less than 5 km/h (3 MPH)</li> <li>Intelligent Key is within outside key antenna (back door) detection area</li> <li>Back door is closed</li> <li>Panic alarm is not activated</li> </ul>

#### 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 the outside key antenna (rear bumper) (1). However, this operating range depends on the ambient conditions.



#### LIST OF OPERATION RELATED PARTS

Parts marked with  $\times$  are the parts related to operation.

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Function	Intelligent Key	Remote keyless entry receiver	Back door opener switch	Back door lock assembly	Inside key antenna	Outside key antenna (rear bumper)	CAN communication system	BCM	Back door control unit*1	Automatic back door control module*2
Back door open function	×	×	×	×	×	×	×	×	×	×

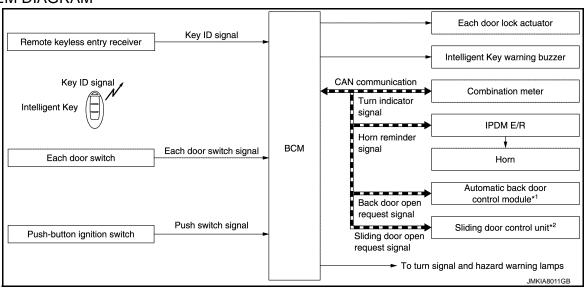
<sup>\*1:</sup>With back door auto closure system

### REMOTE KEYLESS ENTRY FUNCTION

### REMOTE KEYLESS ENTRY FUNCTION: System Description

INFOID:0000000011321781

#### SYSTEM DIAGRAM



<sup>\*1:</sup>With automatic back door system

#### **BASIC OPERATION**

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

#### **OPERATION**

Remote keyless entry system controls operation of the following items.

- Door lock/unlock function
- · Selective unlock function
- Auto door lock function
- · Hazard and horn reminder function
- Automatic back door open/close function
- Automatic sliding door open/close function

#### **OPERATION AREA**

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

<sup>\*2:</sup>With automatic back door system

<sup>\*2:</sup>With automatic sliding door system

#### < SYSTEM DESCRIPTION >

#### DOOR LOCK/UNLOCK FUNCTION

- When door lock/unlock button of the Intelligent Key is pressed, lock signal or unlock signal 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.
- When BCM receives the door lock/unlock signal, it operates all door lock actuators, blinks the hazard lamp (lock: 2 time, unlock: 1 times) and horn chirp signal to IPDM E/R at the same time as a reminder.
- IPDM E/R honks horn (lock: 1 time) as a reminder.

#### **OPERATION CONDITION**

If the following condition are satisfied, remote keyless entry operation is performed when the Intelligent Key is operated.

Remote controller operation	Operation condition			
Lock	<ul><li>Panic alarm is not activated</li><li>P position warning is not activated</li></ul>			
Unlock	Panic alarm is not activated			

#### SELECTIVE UNLOCK 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 side door is unlocked.
- Then, if an UNLOCK signal is transmitted from Intelligent Key again within 60 seconds, all other doors are unlocked back door open permission is set.
- Only the door, of which back door button of Intelligent Key is pressed, unlock and starts automatic open operation when back door button of Intelligent Key of sliding door is pressed.

#### How to change selective unlock operation mode.

Selective unlock operation mode can be changed using CONSULT.

Refer to DLK-94, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

#### AUTO DOOR LOCK FUNCTION

After door is unlocked by Intelligent Key button operation and if 60 seconds or more passes without performing the following operation, all doors are locked. However, operation check function does not activate.

<ul> <li>Door switch is ON (door is open)</li> <li>Door is locked</li> <li>Push switch is pressed</li> </ul>
--

#### How to change auto door lock operation mode.

Auto door lock mode can be changed using CONSULT.

Refer to DLK-95, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

#### HAZARD AND HORN REMINDER FUNCTION

When doors are locked or unlocked by Intelligent Key, BCM blinks hazard warning lamps as a reminder and transmits horn chirp signal to IPDM E/R. IPDM E/R sounds horn as a reminder.

The hazard and horn reminder has a horn chirp mode (C mode) and a non-horn chirp mode (S mode).

Operating Function of Hazard and Horn Reminder

	C n	node	Sn	node
Intelligent Key operation	Lock	Unlock	Lock	Unlock
Hazard warning lamp blinks	Twice	Once	Twice	_
Horn sound	Once	_	_	_

Hazard and horn reminder does not operate in the following conditions.

- Ignition switch position is ON.
- Door is open (only lock operation)

#### How to Change Hazard and Horn Reminder Mode

#### (II) With CONSULT

Hazard and horn reminder operation mode can be changed using CONSULT.

Refer to DLK-95, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

Without CONSULT

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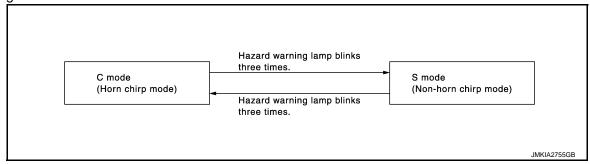
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#### < SYSTEM DESCRIPTION >

When LOCK and UNLOCK signals are sent from the Intelligent Key for more than 2 seconds at the same time, the hazard and horn reminder mode is changed and hazard warning lamp blinks and horn sounds as per the following items:



#### AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

When back door button of Intelligent Key is pressed, back door open automatically for detailed description, refer to <u>DLK-52</u>, "System Description".

#### AUTOMATIC SLIDING DOOR OPEN/CLOSE FUNCTION

When sliding door button of Intelligent Key is pressed, sliding door open automatically for detailed description, refer to <a href="https://docs.pyscholor.org/linearing/bushless-sub-number-1980/">DLK-64, "AUTOMATIC SLIDING DOOR SYSTEM: System Description"</a>.

#### LIST OF OPERATION RELATED PARTS

Parts marked with  $\times$  are the parts related to operation.

Function	Intelligent Key	Door switch	Door lock actuator	Push-button ignition switch	CAN communication system	BCM	IPDM E/R	Horn	Combination meter	Hazard warning lamp	Intelligent Key warning buzzer	Automatic back door control module*1	Sliding door control unit *2
Door lock/unlock function	×	×	×			×							
Selective unlock function	×	×	×			×							
Auto door lock function	×	×	×	×		×							
Hazard and horn reminder function					×	×	×	×	×	×	×		
Automatic back door open/close function	×				×	×						×	×
Automatic sliding door open/close function	×				×	×							×

<sup>\*1:</sup>With automatic back door system

#### KEY REMINDER FUNCTION

<sup>\*2:</sup>With automatic sliding door system

#### < SYSTEM DESCRIPTION >

### KEY REMINDER FUNCTION: System Description

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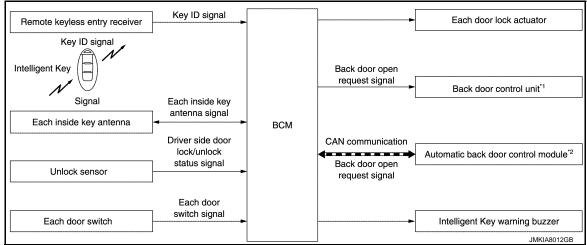
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#### SYSTEM DIAGRAM



<sup>\*1:</sup>With back door auto closure system

#### 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 func- tion	Operation condition	Operation
Driver door closed*	Right after driver side door is closed under the following conditions  Door lock operation is performed  Driver side door is open  Driver side door is in unlock state	All doors unlock
Door is open or closed	Right after all doors are closed under the following conditions  Intelligent Key is inside the vehicle  Any door is open  All doors are locked by door lock and unlock switch or door lock knob	All doors unlock     Honk Intelligent Key warning buzzer
Back door is closed	Right after back door is closed under the following conditions  Intelligent Key is inside vehicle  All doors (except for back door) are closed  All doors (except for back door) are locked	All doors unlock     Back door can open with back door opener switch     Honk Intelligent Key warning buzzer

<sup>\*:</sup> 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.

#### WARNING FUNCTION

#### WARNING FUNCTION: System Description

#### INFOID:0000000011321783

#### OPERATION DESCRIPTION

The warning function are as per the following items and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, combination meter buzzer, KEY warning lamp and information display in combination meter.

- Intelligent Key system malfunction
- OFF position warning
- P position warning

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<sup>\*2:</sup>With automatic back door system

### < SYSTEM DESCRIPTION >

- ACC warning
- Take away warning
- Door lock operation warning
- Engine start information
- Intelligent Key low battery warning
- Key ID warning
- Key ID verification information

#### **OPERATION CONDITION**

Once the following condition from below is established, alert or warning is executed.

Warning/Info	mation functions	Operation procedure
Intelligent Key system n	nalfunction	When a malfunction is detected on BCM, "KEY" warning lamp illuminates
OFF position warning	For internal	When condition A, B or condition C is satisfied Condition A Ignition switch: ACC position Door switch (driver side): ON (Door is open) Condition B Turn ignition switch from ON to OFF while door is open Condition C Intelligent Key backside is contacted to ignition switch while brake pedal is depressed and ignition switch is LOCK or OFF (When the Intelligent Key battery is discharged) Door switch (driver side): ON (Door is open)
	For external	OFF position warning (For internal) is in active mode, driver side door is closed  NOTE:  OFF position (For external) active only when each of the sequence occurs as below: P position warning → ACC warning → OFF position warning (For internal) → OFF position warning (For internal)
D nosition warning	For internal	<ul> <li>Shift position: Except P position</li> <li>Engine is running to stopped (Ignition switch is ON to OFF)</li> </ul>
P position warning	For external	Warning is activated when driver door is closed from the open position while the P position warning (for inside vehicle) is ON
ACC warning		When P position warning is in active mode, shift position changes P position     Ignition switch: ACC position
	Door is open to close	<ul> <li>Ignition switch: Except LOCK position</li> <li>Door switch: ON to OFF (Door is open to close)</li> <li>Intelligent Key cannot be detected inside the vehicle</li> </ul>
Take away warning	Door is open	<ul> <li>Ignition switch: Except LOCK position</li> <li>Door switch: ON (Door is open)</li> <li>Key ID verification every 5 seconds when registered Intelligent Key cannot be detected inside the vehicle</li> </ul>
	Push-button ignition switch operation	<ul> <li>Ignition switch: Except LOCK position</li> <li>Press push-button ignition switch</li> <li>Intelligent Key cannot be detected inside the vehicle</li> </ul>
Door lock operation war	ning	When door lock operation is requested while door lock operating condition of door request switch or Intelligent Key are not satisfied

### < SYSTEM DESCRIPTION >

Warning/Inforn	nation functions	Operation procedure
	Ignition switch is ON position	<ul><li>Ignition switch: ON position</li><li>Shift position: P position</li><li>Engine is stopped</li></ul>
Engine start information	Ignition switch is except ON position	<ul> <li>Ignition switch: Except ON position</li> <li>Shift position: P position</li> <li>Intelligent Key is in the passenger room after driver door is opened and closed.</li> </ul>
Ignition switch is ON position to OFF position		Ignition switch: ON position to OFF position     Shift position: P position     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.
Intelligent Key low batter	y warning	When Intelligent Key is low battery, BCM is detected after ignition switch is turned ON
Key ID warning		When registered Intelligent Key cannot be detected inside the vehicle after ignition switch is turned ON
Key ID verification inform	ation	<ul> <li>When registered Intelligent Key cannot be detected inside the vehicle</li> <li>Intelligent Key battery is discharged</li> <li>When NATS antenna amp cannot be detected NATS ID</li> </ul>

### WARNING METHOD

The following table shows the alarm or warning methods with chime.

		"KEY"	Information display	Warnir	ng chime
Warning/Inf	ormation functions	warning lamp	Information display (combination meter)	Combination Intelligent Ke meter buzzer warning buzzer	
Intelligent Key	system malfunction	Indicate	_	_	_
OFF position	For internal	_	_	Activate	_
warning	For external	_	_	_	Activate
	For internal			Activate	_
P position warning	For external	_	SHIFT JMKIA0037GB	_	Active
ACC warning		_	PUSH  JMKIA0047GB	Activate	_
	Door is open to close			Activate	Activate
Take away	Door is open			_	_
Take away warning	Push button-ignition switch operation	_	NO KEY	Activate	_

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### < SYSTEM DESCRIPTION >

		"KEY"	lafamatian diada.	Warnii	ng chime
Warning/Info	ormation functions	warning lamp	Information display (combination meter)	Combination meter buzzer	Intelligent Key warning buzzer
Door lock op- eration warn-	Request switch operation	_	_	_	Activate
ing	Intelligent Key		<del>-</del>	_	Activate
Key ID warning	)	_	NO KEY	_	_
Engine start inf	formation	_	BRAKE JMKIA0032GB	_	_
Intelligent Key	low battery warning	_	JMKIA3049ZZ		_
Key ID verificat	tion information	_	JMKIA4907ZZ	_	_

### LIST OF OPERATION RELATED PARTS

Parts marked with  $\times$  are the parts related to operation.

Warn	ing function	Intelligent Key	Push-button Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter buzzer	CAN communication system	BCM	Information display	"KEY" warning lamp
Intelligent Key system mal	function									×	×		×
OFF position warning	For internal			×					×	×	×		
Of a position warning	For external			×				×			×		
P position warning			×						×	×	×	×	×
ACC warning			×						×	×	×	×	

### < SYSTEM DESCRIPTION >

Warning	g function	Intelligent Key	Push-button Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter buzzer	CAN communication system	BCM	Information display	"KEY" warning lamp
	Door is open or close	×		×		×		×	×	×	×	×	×
Take away warning	Door is open	×		×		×				×	×	×	×
	Push-button ignition switch operation	×	×			×			×	×	×	×	×
Door lock operation warning		×		×	×	×	×	×			×		
Key ID warning			×			×				×	×	×	×
	Ignition switch is ON position	×	×			×				×	×	×	
Engine start information	Ignition switch is except ON position	×	×			×				×	×	×	
Intelligent Key low battery wa	arning	×				×				×	×	×	×
Key ID verification informatio	n	×				×				×	×	×	

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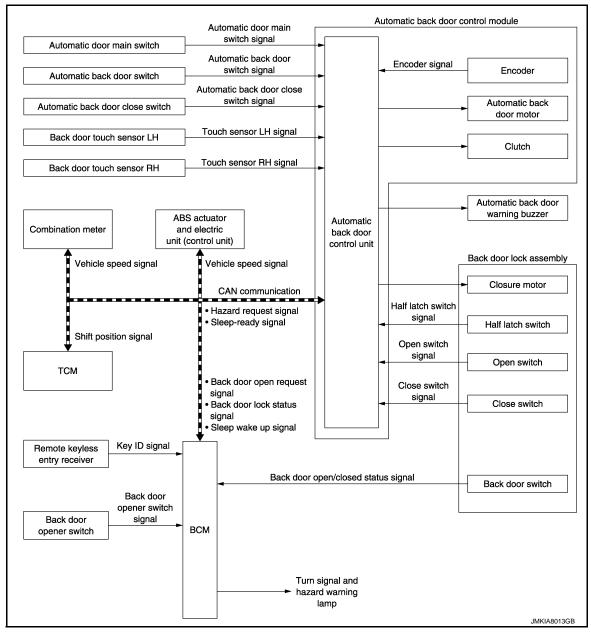
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### System Description

#### INFOID:0000000011321784

#### SYSTEM DIAGRAM



#### **BASIC OPRATION**

The automatic back door system performs the automatic 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 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 automatic back door motor opens the back door to the fully open position. Reverse the closure motor 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 automatic back door motor closes the back door to the half-latch position, then the back door closure motor to the full latch position. Then, reverse the closure motor to the neutral position.

#### < SYSTEM DESCRIPTION >

#### BACK DOOR AUTO CLOSURE FUNCTION

#### Open Function

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

#### 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, reverse the closure motor to the neutral position.

#### WARNING FUNCTION

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

#### **Buzzer Operation Condition**

	Pattern	Time	Description
			Operation start announcement
Α	ON 200ms OFF JMKIA1862ZZ	0.75 sec.	Anti-pinch operation start announcement
В	Pi	2.0 sec.	During the closure operation, the touch sensor detects any trapped foreign material and stops halfway
С	Pi	Back door fully closed or vehi- cle is stopped	The conditions are not satisfied in the fully open position or during the operation, and then the operation continues
D	ON 750ms OFF JMKIA1863ZZ	During open/close operation	During operation announcement

#### ANTI-PINCH FUNCTION

During auto 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 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	า	Open/close operation	Close operation
Operation when	Stop the vehicle	Buzzer sounds (pattern A) and reverse operation	<ul> <li>Buzzer sounds (pattern A) and the back door stops in the fully-open position after reverse operation</li> <li>During closure (close) operation (at main switch OFF): Closure [open (neutral position return)] operation</li> </ul>
any trapped for- eign material is de- tected	Running the vehicle	No reverse operation (buzzer sounds, pattern C)	<ul> <li>The back door reverses a certain amount, and then it reverses automatically to perform the auto close operation</li> <li>During closure (close) operation (at main switch ON): Closure (open) operation</li> </ul>

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#### < SYSTEM DESCRIPTION >

Detection method	Encoder pulse	Touch sensor
Just after starting the motor operation     Full range of closure operation     Driving		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 intermittent clutch ation direction	function after 2 reverse operations regardless of the oper-

#### INTERMITTENT CLUTCH FUNCTION

If the main switch is turned to OFF during auto operation, the back door may be closed suddenly because the operation is interrupted immediately when the operation cannot be continued because of the detection of a system malfunction. Therefore, operate the clutch intermittently to stabilize the back door behavior and ensure safety.

#### AUTOMATIC BACK DOOR OPEN/CLOSE OPERATION CONDITION

	Automa	atic back doc	or switch	Intellig	ent Key	Automat- ic back door close switch		or opener itch
Operating direction	Fully close	$\operatorname{ed}  o \operatorname{Open}$	Fully open →Closed	Fully closed → Open	Fully open → Closed	Fully open → Closed	Fully close	$\operatorname{ed}  o \operatorname{Open}$
Main switch	_	_	_	_	_	ON	C	N
Ignition position	ON	ACC/ LOCK	_	-	_	_	ON	ACC/ LOCK
Shift selector lever	P position	_	_	_	_	_	P position	_
Vehicle speed				0 k	m/h	<u> </u>		
Back door lock condition	_	_	_	_	_	_	Unl	ock*
Touch sensor				No	rmal	1		
Power supply (Automatic power back door control unit)				Approx. 1	I V or more			

<sup>\*:</sup> If the registered Intelligent Key is used, the operation can be performed even if the back door is in the LOCK position

#### 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 condition
Main Switch (ON → OFF)	Motor: OFF     Clutch: OFF (Intermittent clutch function)
Vehicle stop condition (open operation)  IGN ON and shift P position→IGN ON and other than P position  IGN OFF and shift N position → IGN ON and N position	The operation is continued
Operation condition release during the operation start announcement condition	Automatic back door function does not operate

#### < SYSTEM DESCRIPTION >

Item (Condition)		Back door condition
Vehicle speed (0 km/h → More than 0 km/h)	Open operation	Operation stop and intermittent clutch function [Back door fully closed or buzzer sounds until the vehicle stops (pattern C)]
(o kni/n → More than o kni/n)	Close operation	The operation is continued [buzzer sounds (pattern C) until back door fully closed]
	Open operation	The operation is continued (If the pinch is detected after that, the system switches to the intermittent clutch function)
Touch sensor	Close operation	Intermittent clutch function
rouch sensor (Normal → Open)	Closure (close) operation	Closure (open) operation and buzzer sounds (pattern B)
	Closure [open (return the latch to the neutral position)] operation	The operation is continued
Operation time (More than approx. 30 sec.)	Intermittent clutch funct	on
	Open/close operation	The operation is continued
Back door opener switch	Closure (close) operation	Closure (open) operation and back door open
$(OFF \to ON)$	Closure [open (return the latch to the neutral position)] operation	Back door open
Malfunction detected (IGN circuit, half latch switch and back door state)	Intermittent clutch funct	on

### TIME CHART FOR AUTOMATIC POWER BACK DOOR SYSTEM

Fully Closed to Fully Open Operation

When operating the automatic back door switch, automatic back door opener switch and Intelligent Key in the fully closed position, the system operates as follows.

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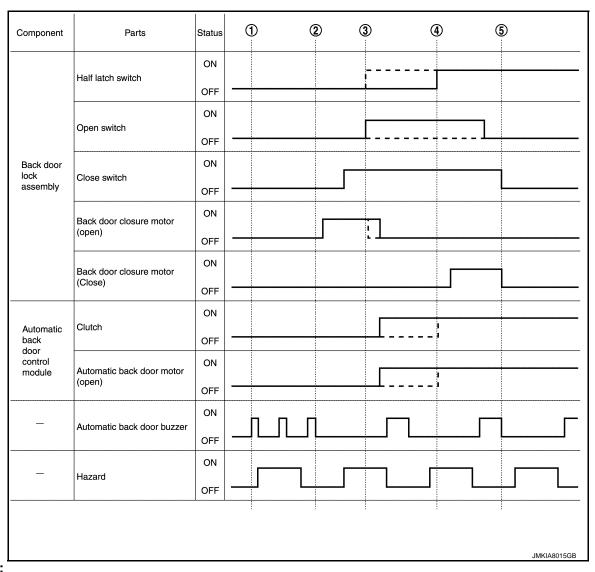
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#### NOTE

Output sequence for half latch switch, open switch, and close switch may vary depending on reaction force difference of back door weather-strip. When reaction force of back door weather-strip is strong, refer to a broken line in the chart.

When reaction force of back door weather-strip is not strong

- 1. Buzzer and hazard lamp operate after condition are satisfied.
- 2. After buzzer operation (pattern A), back door closure motor starts the open operation.
- 3. When the latch is released and reaction force of weather-strip is not strong, half latch switch does not turn ON, and back door closure motor stops the open operation when open switch turns ON. After this operation, automatic back door motor and magnet clutch operate, and then back door starts the open operation.
- 4. When door is lifted up, half latch switch turns ON, and then back door closure motor operates the reverse operation and starts returning to the neutral position.
- 5. When close switch turns OFF, back door closure motor stops the reverse operation and then completes returning to the neutral position.

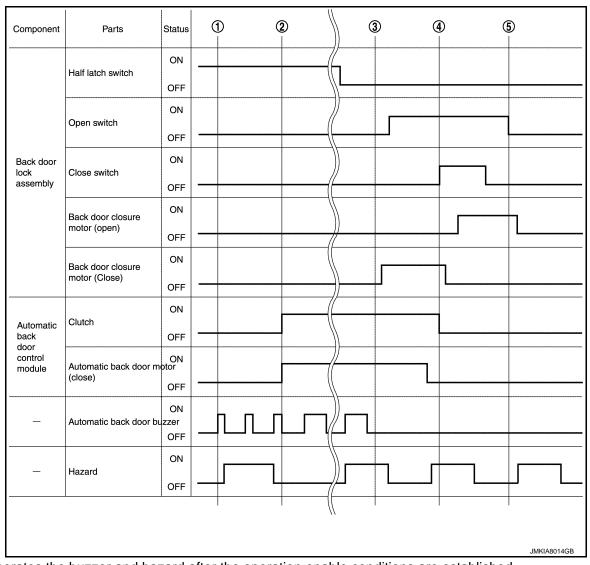
When reaction force of back door weather-strip is strong

- 1. Buzzer and hazard lamp operate after condition are satisfied.
- After buzzer operation (pattern A), back door closure motor starts the open operation.
- 3. When the latch is released, half latch switch turns ON, and then back door closure motor stops the open operation.
- 4. When automatic back door motor and clutch operate and back door starts the open operation, back door closure motor operates the reverse operation and starts returning to the neutral operation.
- 5. When close switch turns OFF, back door closure motor stops the reverse operation and then completes returning to the neutral position.

#### < SYSTEM DESCRIPTION >

Fully Open to Fully Closed Operation

When operating the automatic back door switch, automatic back door close switch and Intelligent Key, the automatic back door system operates as follows.



- 1. Operates the buzzer and hazard after the operation enable conditions are established
- 2. After the buzzer (pattern A) stops sounding, operates the automatic back door motor and clutch to perform the back door close operation
- The back door closure motor performs the close operation after 300 msec. or more from turning the half latch switch to OFF
- 4. The back door closure motor performs the open operation after turning the close switch to ON
- 5. Stop the back door closure motor open operation and return the latch to the neutral position after turning the close switch to OFF

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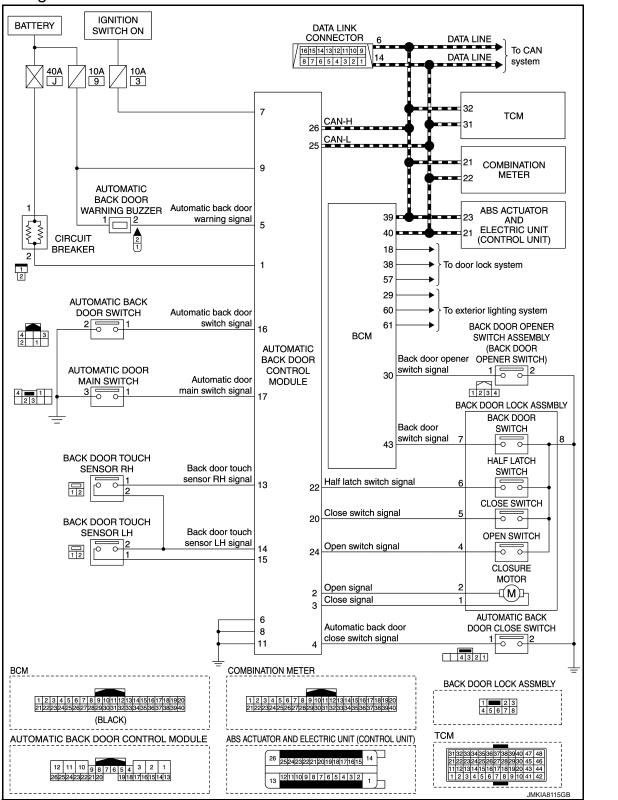
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Circuit Diagram



### < SYSTEM DESCRIPTION >

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2401 IGN OPEN	Intermittent clutch function	All following condition are satisfied     Power supply condition of automatic back door control unit: OFF     BCM receive ignition position signal (OFF) via CAN
B2403 PULSE ENCODER	Inhibit automatic back door operation	When receiving the pulse from encoders A and B normally (5 pulses)
B2409 HALF LATCH SW	Intermittent clutch function	Half latch switch is ON from OFF
B2416 TOUCH SEN R OPEN	During close operation: Intermittent clutch function	Normal return
B2417 TOUCH SEN L OPEN	During close operation: Intermittent clutch function	Normal return
B2419 OPEN SW	Inhibit automatic back door operation	Erase DTC, reconnect battery
B2420 CLOSE SW	Inhibit automatic back door operation	Erase DTC, reconnect battery
B2421 CLUTCH TIME OUT	Intermittent clutch function	Reception of next operation request
B2422 BACK DOOR STATE	Intermittent clutch function	Detect back door fully closed position
B2423 ABD MTR TIME OUT	Intermittent clutch function	Reception of next operation request
B2424 CLSR CONDITION	Inhibit automatic back door operation	Normal return or reconnect battery

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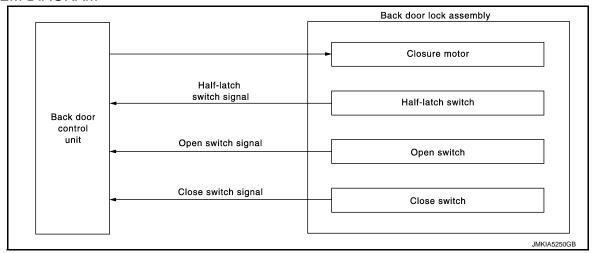
< SYSTEM DESCRIPTION >

# SYSTEM (BACK DOOR AUTO CLOSURE SYSTEM) CLOSURE FUNCTION

**CLOSURE FUNCTION: System Description** 

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#### SYSTEM DIAGRAM

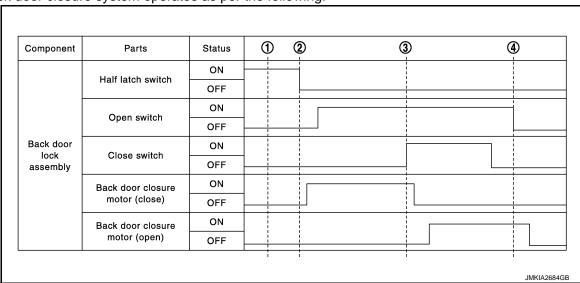


#### **AUTO CLOSURE OPERATION**

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

From fully Open to Fully Closed Operation

The back door closure system operates as per the following.



- Back door is fully open.
- Back door closure motor starts the close operation after turning half latch switch OFF.
- Back door closure motor stops the close operation and starts the neutral operation after turning close switch ON.
- Back door closure motor stops the open operation and returns the latch to the neutral position after turning open switch OFF.

#### OPEN FUNCTION

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### **OPEN FUNCTION: System Description**

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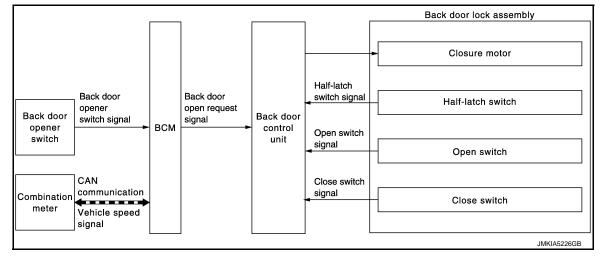
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#### SYSTEM DIAGRAM



#### **OPEN OPERATION**

- When the back door opener switch operation signal is input into back door control unit from BCM, back door is opened by the closure motor open operation.
- When back door opener switch is pressed, BCM transmits the back door open request signal to back door control unit and back door control unit opens back door.
- The operation to open back door with Intelligent Key is the same as the Intelligent Key system. Refer to DLK-42, "BACK DOOR OPEN FUNCTION: System Description"

#### **Operation Condition**

If the following conditions are satisfied, the back door opener operation is performed.

Back door opener switch operation	Operation condition	
Back door open	<ul> <li>When back door is unlocked using back door request switch (selective unlock mode), or after BCM outputs all doors unlock signal</li> <li>Vehicle speed is less than 5 km/h (3 MPH)</li> </ul>	

#### 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.

From Fully Closed To Fully Open Operation

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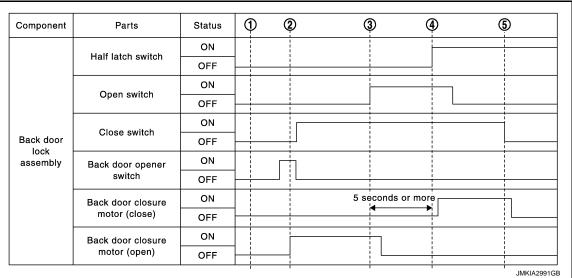
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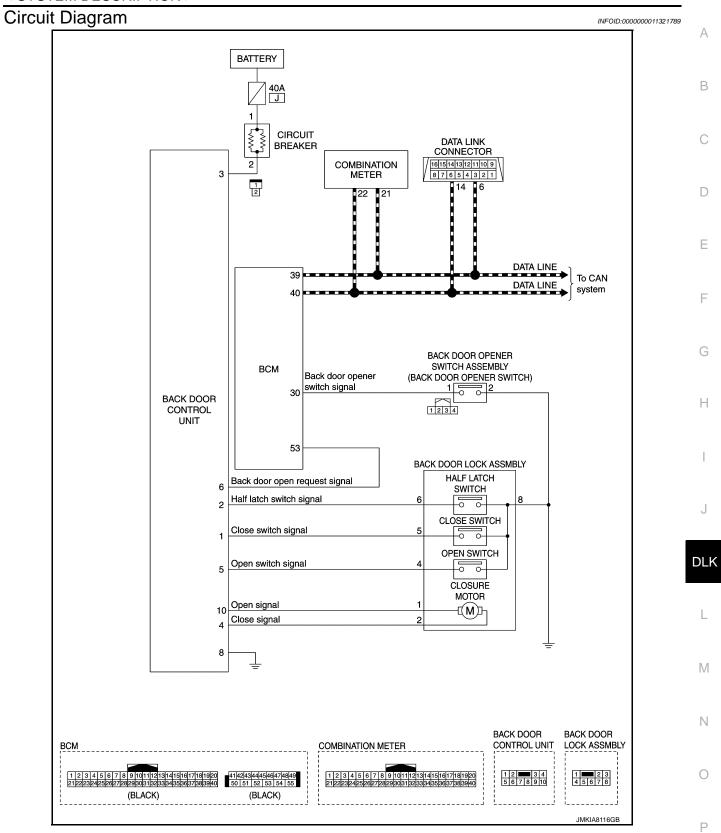
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The back door open system operates as per the following.



- 1. Back door is fully closed.
- 2. Back door closure motor starts the open operation after turning back door opener switch ON.
- 3. Back door closure motor stops the open operation after turning open switch ON.
- 4. Back door closure motor starts the close operation after turning half latch switch ON.
- 5. Back door closure motor stops the close operation and returns the latch to the neutral position after turning close switch OFF.

### < SYSTEM DESCRIPTION >



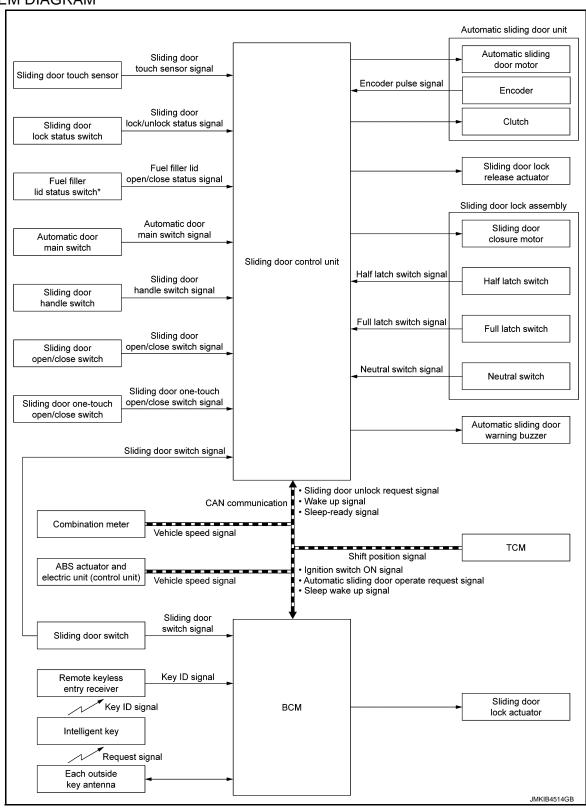
#### < SYSTEM DESCRIPTION >

# SYSTEM (AUTOMATIC SLIDING DOOR SYSTEM) AUTOMATIC SLIDING DOOR SYSTEM

### AUTOMATIC SLIDING DOOR SYSTEM: System Description

INFOID:0000000011321790

#### SYSTEM DIAGRAM



<sup>\*:</sup> For automatic sliding door LH

Automatic sliding door system controls auto open/close operation of sliding door LH and sliding door RH.

### < SYSTEM DESCRIPTION >

• Sliding door control unit controls each function of automatic sliding door system.

Function	Description	Refer
Auto open/close	Sliding door is automatically opened or closed according to operation of sliding door handle, sliding door open/close switch, sliding door one-touch open/close switch, and Intelligent Key	DLK-70
One-touch unlock	By carrying Intelligent Key, sliding door is unlocked and auto- matically opened according to operation of sliding door one- touch open/close switch, even when sliding door is in fully closed and locked status	<u>DLK-75</u>
Unlock-linked opening	Sliding door is unlocked and automatically opened according to operation of sliding door open/close switch (front side) or Intelligent Key button, even when sliding door is in fully closed and locked status	<u>DLK-77</u>
Power assist	Sliding door is automatically opened or closed according to di- rection of sliding door movement, when sliding door is manually opened or closed	DLK-79
Sliding door auto closure	Sliding door closure motor operates and sliding door is automatically retracted and closed to fully closed status, when sliding door is in half latch status	DLK-81
Hold	During vehicle driving, if sliding door is in open status because of incorrect operation or any other cause, sliding door control unit continuously keeps clutch to the ON position and holds the position of sliding door so that it does not open further	<u>DLK-83</u>
Anti-pinch	During sliding door auto open/close operation, if pinching of for- eign materials is detected, sliding door control unit operates slid- ing door in the reverse direction	DLK-85
Intermittent clutch	During sliding door auto open/close operation, if system mal- function is detected, sliding door control unit operates clutch in- termittently to the ON/OFF position and prevents sliding door from opening or closing suddenly, so that safety can be ensured	<u>DLK-87</u>
Buzzer reminder	Automatic sliding door warning buzzer sounds so that user is informed of operation start when sliding door auto open/close operation starts to operate	<u>DLK-88</u>

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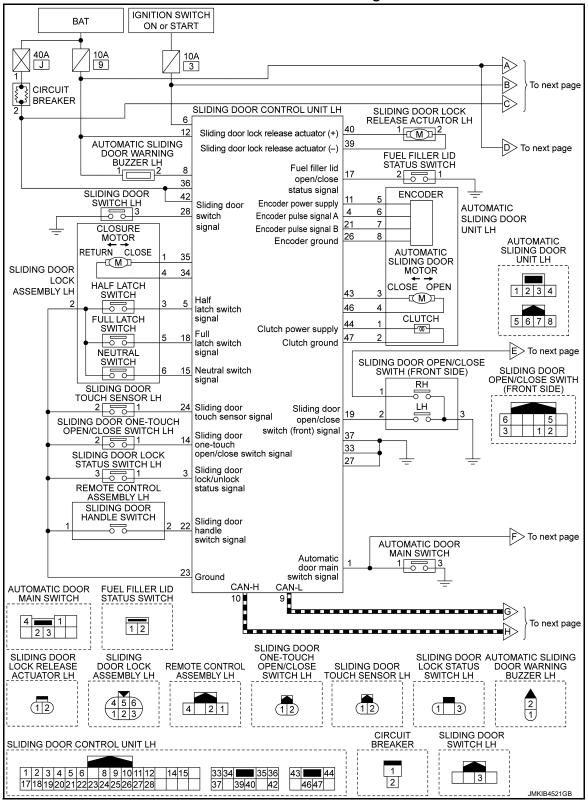
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#### < SYSTEM DESCRIPTION >

### AUTOMATIC SLIDING DOOR SYSTEM: Circuit Diagram

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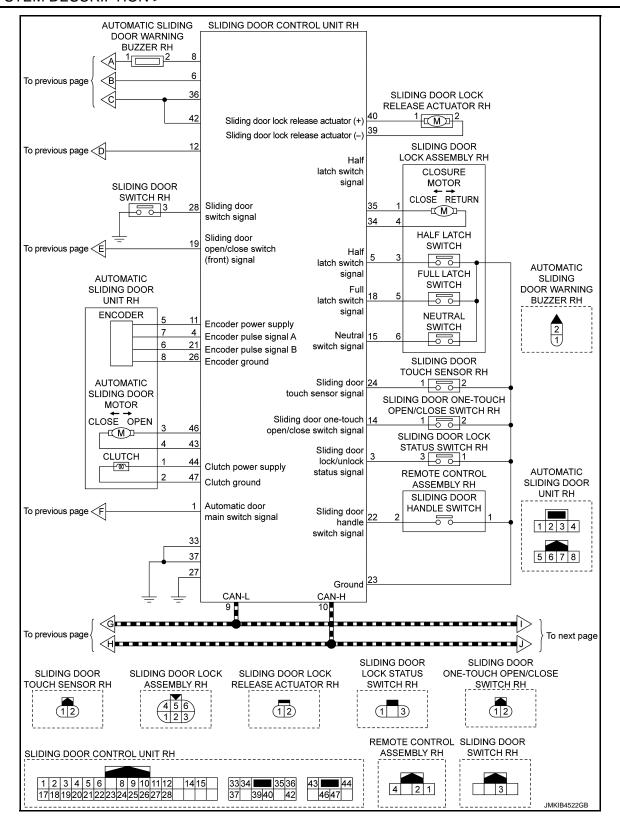
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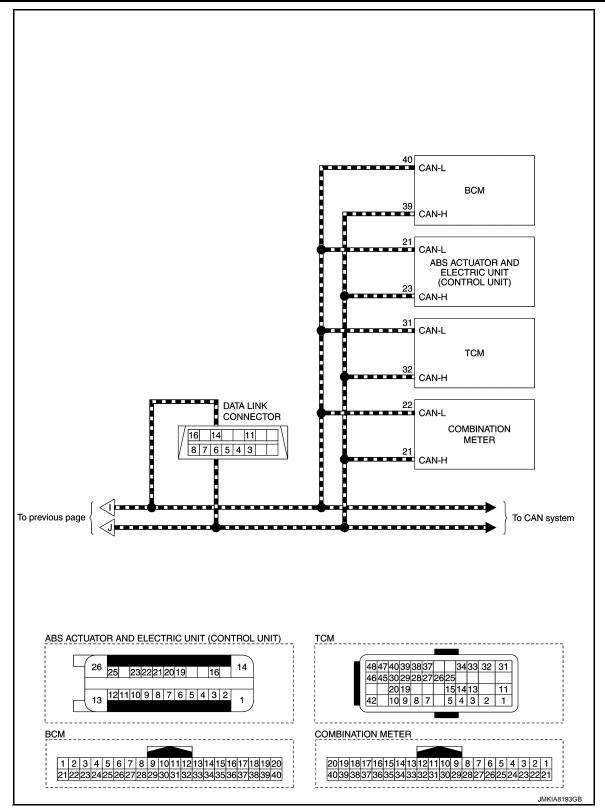
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#### < SYSTEM DESCRIPTION >



Revision: 2014 August DLK-67 2015 QUEST



### AUTOMATIC SLIDING DOOR SYSTEM: Fail-safe

INFOID:0000000011321792

#### FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

### < SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page*1
U1010: CAN COMM CIRCUIT		Return to normal status*2
B2401: IGN OPEN		<ul> <li>When the following conditions are fulfilled</li> <li>Sliding door control unit detects that ignition switch is in the OFF position</li> <li>Sliding door control unit detects that ignition switch is not in the ON position via CAN communication</li> </ul>
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC*2
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		When the following conditions are fulfilled  Return to normal status  Sliding door control unit detects that sliding door is in the fully closed position

<sup>\*1:</sup> When battery is reconnected, cancellation conditions are unconditionally fulfilled.

### **AUTO OPEN/CLOSE FUNCTION**

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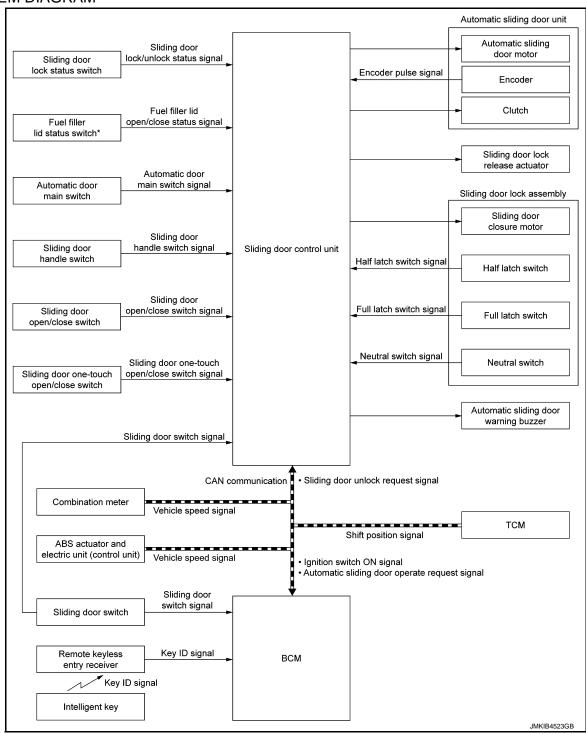
<sup>\*2:</sup> After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

#### < SYSTEM DESCRIPTION >

### AUTO OPEN/CLOSE FUNCTION: System Description

INFOID:0000000011321793

#### SYSTEM DIAGRAM



<sup>\*:</sup> For automatic sliding door LH

Auto open/close function operates auto open/close of sliding door according to operation of sliding door handle, sliding door open/close switch, sliding door one-touch open/close switch, and Intelligent Key.

#### AUTO OPEN/CLOSE FUNCTION (OPEN OPERATION)

#### Sliding Door Handle Operation

 When sliding door handle is operated, sliding door handle switch, half latch switch, and full latch switch turn ON. Sliding door control unit sounds automatic sliding door warning buzzer as a reminder.

#### NOTE:

The function may not be operated unless sliding door handle is pulled continuously.

#### < SYSTEM DESCRIPTION >

- Sliding door control unit operates sliding door lock release actuator, and then operates automatic sliding door motor to move sliding door to the fully open position.
- When sliding door handle is operated again during auto open operation, sliding door control unit stops auto open operation and operates sliding door in reverse direction to the fully closed position.
- When child lock is in the lock status, auto open function does not operate even when sliding door inside handle is operated.

Sliding Door Open/close Switch and Sliding Door One-touch Open/close Switch Operation

- When sliding door open/close switch or sliding door one-touch open/close switch is operated, sliding door control unit sounds automatic sliding door warning buzzer as a reminder.
- Sliding door control unit operates clutch and sliding door lock release actuator, and it releases sliding door latch (only when sliding door is fully closed).
- Sliding door control unit detects half latch switch signal and full latch switch signal. When judging that sliding
  door latch is released, sliding door control unit operates automatic sliding door motor and it moves sliding
  door to the fully open position.
- When switch is operated again during auto open operation, sliding door control unit stops auto open operation and operates sliding door in reverse direction to the fully closed position.

#### Intelligent Key Button Operation

- When sliding door open button of Intelligent Key is operated, BCM transmits automatic sliding door operate
  request signal to sliding door control unit via CAN communication.
- When automatic sliding door operate request signal is received from BCM, sliding door control unit sounds automatic sliding door warning buzzer as a reminder.
- Sliding door control unit operates clutch and sliding door lock release actuator, and it releases sliding door latch. (Only when sliding door is fully closed.)
- Sliding door control unit detects half latch switch signal and full latch switch signal. When judging that sliding
  door latch is released, sliding door control unit operates automatic sliding door motor and it moves sliding
  door to the fully open position.
- When Intelligent Key button is operated again during auto open operation, sliding door control unit stops auto open operation and operates sliding door in reverse direction to the fully closed position.

#### **OPERATION CONDITION**

The auto open operation is performed, when the following conditions are satisfied.

Operation	Operation condition
Sliding door open/close switch (front side)	Vehicle speed: 0 km/h
	Battery voltage: 11 V or more
	Fuel filler lid: Closed status (Operation condition for sliding door LH)
	Shift position: P position*
	Sliding door: Not fully opened
	Sliding door: Unlocked while fully closed
	Vehicle security system: Not set
Intelligent Key	Vehicle speed: 0 km/h
	Battery voltage: 11 V or more
	Fuel filler lid: Closed status (Operation condition for sliding door LH)
	Shift position: P position*
	Sliding door: Not fully opened
	Sliding door: Unlocked while fully closed

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#### < SYSTEM DESCRIPTION >

Operation	Operation condition
	Automatic door main switch: ON
	Vehicle speed: 0 km/h
	Battery voltage: 11 V or more
	Fuel filler lid: Closed status (Operation condition for sliding door LH)
Sliding door handle	Shift position: P position*
	Sliding door: Not fully opened
	Sliding door: Unlocked while fully closed
	Child lock: Unlocked (Sliding door inside handle only)
	Vehicle security system: Not set
Sliding door one-touch open/close switch	Automatic door main switch: ON
	Vehicle speed: 0 km/h
	Battery voltage: 11 V or more
	Fuel filler lid: Closed status (Operation condition for sliding door LH)
	Shift position: P position*
	Sliding door: Not fully opened
	Sliding door: Unlocked while fully closed

<sup>:</sup> Only when ignition switch is in the ON position.

#### AUTO OPEN/CLOSE FUNCTION (CLOSE OPERATION)

Sliding door control unit sounds automatic sliding door warning buzzer as a reminder, when operation of sliding door handle, sliding door open/close switch, sliding door one-touch open/close switch, or Intelligent Key button is detected while sliding door is in the fully open status.
 NOTE:

The function may not be operated unless sliding door handle is pulled continuously.

- Sliding door control unit operates clutch and sliding door lock release actuator and it performs latch release operation, so that sliding door control unit can judge whether sliding door latch is in released status.
- Sliding door control unit operates automatic sliding door motor and moves sliding door to half latch status, when sliding door control unit judges sliding door handle switch ON status and latch release status according to operation of sliding door release actuator.
- Sliding door control unit detects half latch status according to half latch switch. Sliding door control unit operates sliding door auto closure function and closes sliding door to the fully closed position.
- When sliding door handle, each switch, or Intelligent Key button is operated again during auto close operation, sliding door control unit stops auto close operation and operates sliding door in reverse direction to the fully open position.

#### **OPERATION CONDITION**

The auto close operation is performed, when the following conditions are satisfied.

- Automatic door main switch: ON<sup>\*1</sup>
- Battery voltage: 11 V or more
- Fuel filler lid: Closed status\*2
- Sliding door: Fully open
- \*1: Except operation of sliding door open/close switch (front side) and Intelligent Key button.

#### CONTROL WHEN OPERATION CONDITION IS NOT SATISFIED

Sliding door is controlled as described in the following table, when operation condition becomes invalid during automatic operation.

Condition	Operation
Automatic door main switch: Turned to the OFF position	One-way operation is continued
Shift position: P position → Other than P position	One-way operation is continued

<sup>\*2:</sup> When sliding door LH is operated.

### < SYSTEM DESCRIPTION >

Condition	Operation
Vehicle speed: 0 km/h more during auto open operation	Automatic sliding door warning buzzer sounds continuously and hold function is activated     When the vehicle stops, automatic sliding door warning buzzer operation stops, intermittent clutch function operates, and sliding door enters into manual mode
Low battery voltage: 11 – 9 V	One-way operation is continued
Low battery voltage: 9 – 5 V for 2.1 seconds or more (Traction force lower limit – clutch force assurance)	Automatic sliding door motor stops, and then intermittent clutch function operate
Low battery voltage: 5 – 4 V (Control unit reset voltage – clutch hold voltage)	<ul> <li>Automatic sliding door motor stops (Clutch ON) → sliding door stops continuously and stays restricted (Clutch ON in circuit)</li> <li>Control is impossible because control unit is reset</li> </ul>
Low battery voltage: 4 – 0 V	Sliding door stops continuously and stays restricted (Clutch ON in circuit)     Sliding door position cannot be held when the vehicle is on a slope, because clutch force is not sufficient
Fuel filler lid: Open	Intermittent clutch function operates. Sliding door enters into manual mode (Sliding door returns to electric mode when fuel filler lid is closed)

# AUTO OPEN/CLOSE FUNCTION: Fail-safe

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### FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

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### < SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page*1
U1010: CAN COMM CIRCUIT		Return to normal status*2
B2401: IGN OPEN		<ul> <li>When the following conditions are fulfilled</li> <li>Sliding door control unit detects that ignition switch is in the OFF position</li> <li>Sliding door control unit detects that ignition switch is not in the ON position via CAN communication</li> </ul>
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC*2
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		<ul> <li>When the following conditions are fulfilled</li> <li>Return to normal status</li> <li>Sliding door control unit detects that sliding door is in the fully closed position</li> </ul>

<sup>\*1:</sup> When battery is reconnected, cancellation conditions are unconditionally fulfilled.

# ONE-TOUCH UNLOCK FUNCTION

<sup>\*2:</sup> After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

#### < SYSTEM DESCRIPTION >

# ONE-TOUCH UNLOCK FUNCTION: System Description

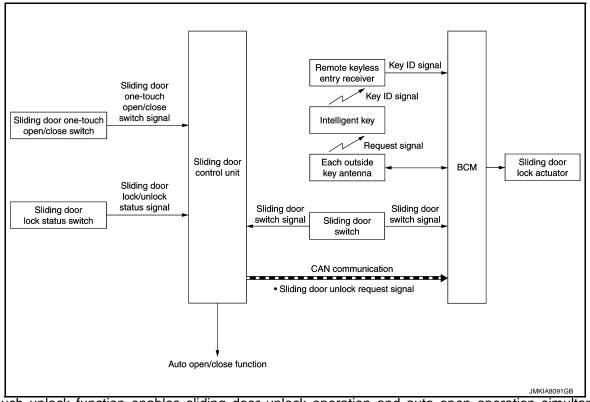
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#### SYSTEM DIAGRAM



One-touch unlock function enables sliding door unlock operation and auto open operation simultaneously when sliding door one-touch open/close switch is operated while carrying Intelligent Key, even when sliding door is in fully closed and locked status.

#### OPERATION DESCRIPTION

- Sliding door control unit checks sliding door lock status according to sliding door lock status switch, when sliding door one-touch open/ close switch operation is detected.
- Sliding door control unit transmits sliding door unlock request signal to BCM via CAN communication, when sliding door is locked.
- When sliding door unlock request signal is received, BCM activates outside key antenna, transmits request signal to Intelligent Key, and then checks that Intelligent Key is located near the door.
- Intelligent Key, when it is within outside key antenna detection area (within activation range), transmits key ID signal to BCM via remote keyless entry receiver.
- BCM receives key ID signal and verifies the received key ID with the registered key ID to the vehicle.
- When selective unlock function is in ON status and key ID verification is successful, BCM operates sliding door lock actuator and unlocks sliding door.
- When selective unlock function is in OFF status and key ID verification is successful, BCM operates each door lock actuator and unlocks all doors.
- Sliding door control unit starts auto open operation when sliding door unlocked status is detected according to sliding door lock status switch.

#### **OPERATION CONDITION**

If the following conditions are satisfied, the one-touch unlock function is performed.

- · Automatic door main switch: ON
- Vehicle speed: 0 km/h
- Battery voltage: 11V or more
- Fuel filler lid: Closed status\*1
- Sliding door: Fully closed status
- Sliding door lock status switch: OFF (Sliding door locked status)
- Shift position: P position \*2
- \*1:When sliding door LH is operated
- \*2:Only when ignition switch is in the ON position

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Revision: 2014 August DLK-75 2015 QUEST

< SYSTEM DESCRIPTION >

# **ONE-TOUCH UNLOCK FUNCTION: Fail-safe**

INFOID:0000000011321796

#### FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

Display contents of CONSULT	Fail-safe	Reference page*1
U1010: CAN COMM CIRCUIT		Return to normal status*2
B2401: IGN OPEN		When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC*2
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		When the following conditions are fulfilled     Return to normal status     Sliding door control unit detects that sliding door is in the fully closed position

<sup>\*1:</sup> When battery is reconnected, cancellation conditions are unconditionally fulfilled.

# UNLOCK-LINKED OPENING FUNCTION

<sup>\*2:</sup> After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

#### < SYSTEM DESCRIPTION >

# UNLOCK-LINKED OPENING FUNCTION : System Description

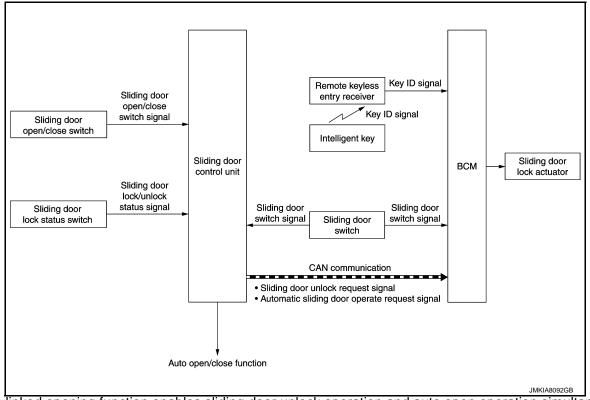
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#### SYSTEM DIAGRAM



Unlock-linked opening function enables sliding door unlock operation and auto open operation simultaneously when sliding door open/close switch (front side) or Intelligent Key button is operated, even when sliding door is in fully closed and locked status.

#### OPERATION DESCRIPTION

Sliding Door Open/close Switch (Front Side) Operation

- Sliding door control unit checks sliding door lock status according to sliding door lock status switch, when sliding door open/close switch (front side) operation is detected.
- Sliding door control unit transmits sliding door unlock request signal to BCM via CAN communication, when sliding door is unlocked.
- BCM operates sliding door lock actuator and unlocks sliding door, when sliding door unlock request signal is received.
- Sliding door control unit starts auto open operation when sliding door lock status is detected according to sliding door lock status switch.

#### Intelligent Key Operation

- BCM transmits automatic sliding door operate request signal to sliding door control unit via CAN communication, when operation of Intelligent Key button id detected.
- Sliding door control unit checks sliding door lock status according to sliding door lock status switch, when automatic sliding door operate request signal is detected.
- Sliding door control unit transmits sliding door unlock request signal to BCM via CAN communication, when sliding door is locked.
- When selective unlock function is in ON status and sliding door unlock request signal is received, BCM operates sliding door lock actuator and unlocks sliding door.
- When selective unlock function is in OFF status and sliding door unlock request signal is received, BCM operates each door lock actuator and unlocks all doors.
- Sliding door control unit starts auto open operation when sliding door unlocked status is detected according to sliding door lock status switch.

#### **OPERATION CONDITION**

If the following conditions are satisfied, the unlock-linked opening function is performed.

Vehicle speed: 0 km/h

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#### < SYSTEM DESCRIPTION >

- Battery voltage: 11 V or more
- Fuel filler lid: Closed status\*1
- Sliding door: Fully closed status
  Sliding door lock status switch: OFF (Sliding door locked status)
- Shift position: P position\*2
- \*1: When sliding door LH is operated
- \*2: Only when ignition switch is in the ON position

## UNLOCK-LINKED OPENING FUNCTION: Fail-safe

INFOID:0000000011321798

#### FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

Display contents of CONSULT	Fail-safe	Reference page*1
U1010: CAN COMM CIRCUIT		Return to normal status*2
B2401: IGN OPEN		<ul> <li>When the following conditions are fulfilled</li> <li>Sliding door control unit detects that ignition switch is in the OFF position</li> <li>Sliding door control unit detects that ignition switch is not in the ON position via CAN communication</li> </ul>
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC*2
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		When the following conditions are fulfilled  Return to normal status  Sliding door control unit detects that sliding door is in the fully closed position

<sup>\*1:</sup> When battery is reconnected, cancellation conditions are unconditionally fulfilled.

### POWER ASSIST FUNCTION

<sup>\*2:</sup> After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

#### < SYSTEM DESCRIPTION >

# POWER ASSIST FUNCTION: System Description

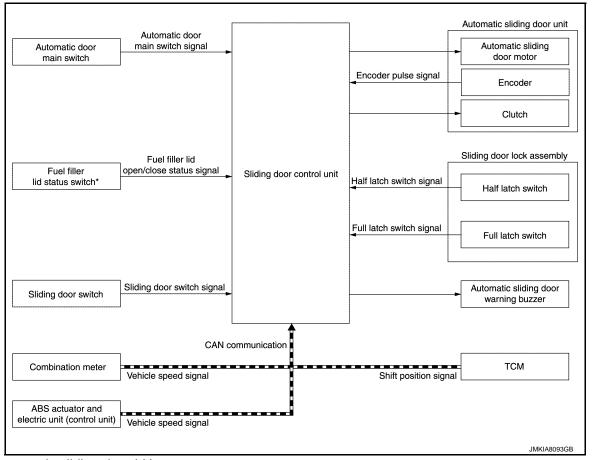
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#### SYSTEM DIAGRAM



\*: For automatic sliding door LH

Power assist function automatically opens or closes sliding door to fully open/closed position, when sliding door is pressed manually without operating each switch or sliding door handle, while sliding door is in half open stop status or fully open stop status.

#### **OPERATION DESCRIPTION**

Sliding door control unit sounds automatic sliding door warning buzzer, activates automatic sliding door motor, and automatically opens or closes to the fully open/close position, when encoder pulse signal is detected from encoder.

#### **OPERATION CONDITION**

If the following conditions are satisfied, the power assist function is performed.

- Automatic door main switch: ON
- Vehicle speed: 0 km/h (auto close operation only)
- Fuel filler lid: Closed status<sup>\*1</sup>
- Shift position: P position\*2
- Sliding door position: Halfway position
- Sliding door status: Stop status
- \*1: When sliding door LH is operated.
- \*2: Only when ignition switch is in the ON position.

#### POWER ASSIST FUNCTION: Fail-safe

#### FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

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INFOID:0000000011321800

Revision: 2014 August DLK-79 2015 QUEST

### < SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page*1
U1010: CAN COMM CIRCUIT		Return to normal status*2
B2401: IGN OPEN		<ul> <li>When the following conditions are fulfilled</li> <li>Sliding door control unit detects that ignition switch is in the OFF position</li> <li>Sliding door control unit detects that ignition switch is not in the ON position via CAN communication</li> </ul>
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC*2
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		<ul> <li>When the following conditions are fulfilled</li> <li>Return to normal status</li> <li>Sliding door control unit detects that sliding door is in the fully closed position</li> </ul>

<sup>\*1:</sup> When battery is reconnected, cancellation conditions are unconditionally fulfilled.

# SLIDING DOOR AUTO CLOSURE FUNCTION

<sup>\*2:</sup> After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

#### < SYSTEM DESCRIPTION >

# SLIDING DOOR AUTO CLOSURE FUNCTION: System Description

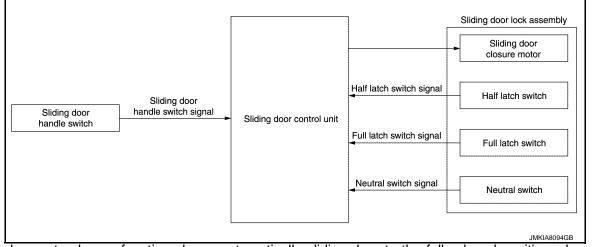
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#### SYSTEM DIAGRAM



Sliding door auto closure function closes automatically sliding door to the fully closed position when sliding door is in half latch status (lock and striker are in engage status). Sliding door auto closure function is operative, even when automatic door main switch is in the OFF position.

#### **OPERATION DESCRIPTION**

- When sliding door control unit judges that sliding door handle is in non-operated status and sliding door is in
  half latch status according to half latch switch signal and full latch switch signal, sliding door control unit
  judges that sliding door is in retractable position according to sliding door handle switch and neutral switch
  signal. Sliding door control unit operates sliding door closure motor, and starts retract operation.
- When sliding door control unit judges that sliding door is in fully closed status according to half latch switch signal and full latch switch signal, sliding door control unit stops sliding door closure motor operation once, and then operates sliding door closure motor in reverse direction to the neutral position of sliding door closure motor.
- Sliding door auto closure function does not operate when any of the following conditions is satisfied.
- Sliding door: When manually closed swiftly
- Sliding door handle: When operated immediately after detection of half latch status
- Battery voltage: 9 V or less

### SLIDING DOOR AUTO CLOSURE FUNCTION: Fail-safe

INFOID:0000000011321802

#### FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

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### < SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page*1
U1010: CAN COMM CIRCUIT		Return to normal status*2
B2401: IGN OPEN		<ul> <li>When the following conditions are fulfilled</li> <li>Sliding door control unit detects that ignition switch is in the OFF position</li> <li>Sliding door control unit detects that ignition switch is not in the ON position via CAN communication</li> </ul>
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC <sup>*2</sup>
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		<ul> <li>When the following conditions are fulfilled</li> <li>Return to normal status</li> <li>Sliding door control unit detects that sliding door is in the fully closed position</li> </ul>

<sup>\*1:</sup> When battery is reconnected, cancellation conditions are unconditionally fulfilled.

# HOLD FUNCTION

<sup>\*2:</sup> After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

#### < SYSTEM DESCRIPTION >

# **HOLD FUNCTION: System Description**

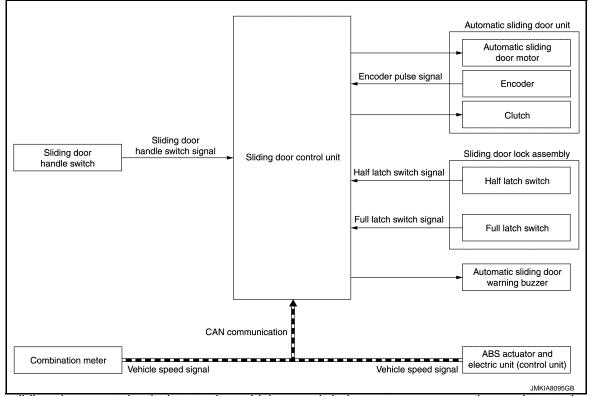
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#### SYSTEM DIAGRAM



When sliding door control unit detects the vehicle speed during auto open operation or detects that sliding
door is open during vehicle driving, sliding door control unit sounds automatic sliding door warning buzzer
warning the driver, simultaneously stops automatic sliding door motor operation, operates clutch, and then
holds sliding door.

• During hold function operation, when sliding door control unit detects half latch status, sliding door control unit stops hold function and operates sliding door auto closure function.

- During hold function operation, when sliding door control unit detects sliding door handle operation, sliding door control unit stops clutch operation. Sliding door can be closed manually.
- When hold function is stopped according to sliding door handle operation and sliding door is manually
  moved to open direction, sliding door control unit judges sliding door moving direction according to encoder
  pulse signal, operates clutch again, and holds sliding door.

#### **HOLD FUNCTION:** Fail-safe

INFOID:0000000011321804

#### FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

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### < SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page*1
U1010: CAN COMM CIRCUIT		Return to normal status*2
B2401: IGN OPEN		<ul> <li>When the following conditions are fulfilled</li> <li>Sliding door control unit detects that ignition switch is in the OFF position</li> <li>Sliding door control unit detects that ignition switch is not in the ON position via CAN communication</li> </ul>
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC*2
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		<ul> <li>When the following conditions are fulfilled</li> <li>Return to normal status</li> <li>Sliding door control unit detects that sliding door is in the fully closed position</li> </ul>

<sup>\*1:</sup> When battery is reconnected, cancellation conditions are unconditionally fulfilled.

# **ANTI-PINCH FUNCTION**

<sup>\*2:</sup> After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

< SYSTEM DESCRIPTION >

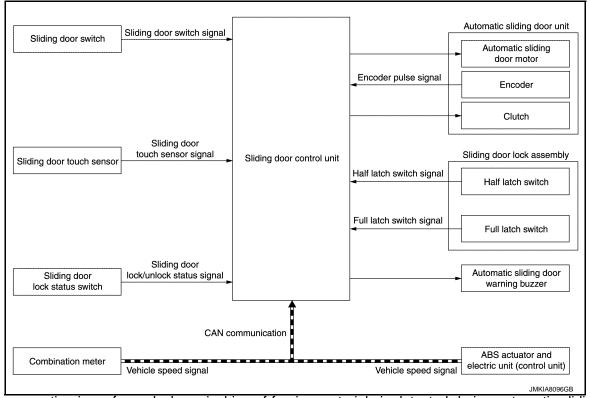
# ANTI-PINCH FUNCTION: System Description

INFOID:0000000011321805

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#### SYSTEM DIAGRAM



Reverse operation is performed when pinching of foreign materials is detected during automatic sliding door auto open/close operation. Sliding door control unit stops automatic operation and enters into intermittent clutch, when pinching during auto close operation is continuously detected for 3 times or more.

#### DETECTION ACCORDING TO ENCODER

- During automatic operation when operation speed is reduced or sliding door motor operation load is
  increased due to pinching of foreign materials, sliding door control unit judges the pinching according to
  change in encoder pulse signal detected from encoder. Sliding door control unit stops automatic operation,
  and then automatically operates sliding door in reverse direction. Sliding door control unit stops automatic
  sliding door motor at the sliding door fully open or fully closed position.
- During auto close operation when the vehicle starts driving, auto close operation does not stop and continues to operate, although operation speed may be reduced or sliding door motor operation load may be increased due to pinching of foreign materials.

#### DETECTION ACCORDING TO SLIDING DOOR TOUCH SENSOR

- When the vehicle is in stop status and sliding door front end pinches foreign materials during auto close operation, sliding door control unit judges the pinching according to sliding door touch sensor signal, operates sliding door in reverse direction, and operates auto open operation to the fully open position.
- When sliding door is in lock status and sliding door front end pinches foreign materials during sliding door auto closure operation, sliding door control unit judges the pinching according to sliding door touch sensor signal, and stops sliding door auto closure operation.
- When sliding door is in unlock status and sliding door front end pinches foreign materials during sliding door auto closure operation, sliding door control unit judges the pinching according to sliding door touch sensor signal, stops sliding door auto closure operation, and operates sliding door auto open operation to the fully open position.

#### **CAUTION:**

Be careful that sliding door may not operate in reverse direction because load may not be detected when thin or soft foreign materials are pinched.

#### ANTI-PINCH FUNCTION: Fail-safe

INFOID:0000000011321806

#### FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

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### < SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page*1
U1010: CAN COMM CIRCUIT		Return to normal status*2
B2401: IGN OPEN		<ul> <li>When the following conditions are fulfilled</li> <li>Sliding door control unit detects that ignition switch is in the OFF position</li> <li>Sliding door control unit detects that ignition switch is not in the ON position via CAN communication</li> </ul>
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC*2
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		<ul> <li>When the following conditions are fulfilled</li> <li>Return to normal status</li> <li>Sliding door control unit detects that sliding door is in the fully closed position</li> </ul>

<sup>\*1:</sup> When battery is reconnected, cancellation conditions are unconditionally fulfilled.

# INTERMITTENT CLUTCH FUNCTION

<sup>\*2:</sup> After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

#### < SYSTEM DESCRIPTION >

# INTERMITTENT CLUTCH FUNCTION: System Description

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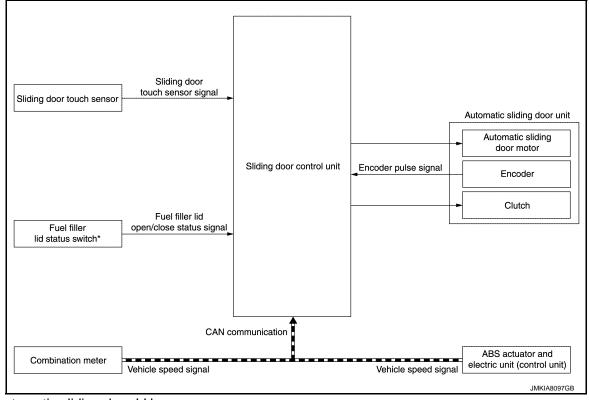
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#### SYSTEM DIAGRAM



- \*: For automatic sliding door LH
- During automatic operation of sliding door, when the vehicle is on a slope, it may become impossible to continue automatic operation of sliding door and its operation may stop suddenly, or door may open or close suddenly. This is due to automatic door main switch being turned the OFF position or any other cause. For prevention purposes, sliding door control unit stops automatic sliding door motor, and simultaneously operates clutch intermittently and prevents sliding door from opening or closing suddenly, so that safety can be secured.
- Intermittent clutch function operates when any of the following conditions is satisfied.

Operation	Operation condition	
	Fuel filler lid status: Closed → Open	
auto open/close function in operation	Automatic sliding door system malfunction	
	Battery voltage: Continuous detection of 9 V or less for 2 seconds or more	
	Vehicle speed: 0 km/h	
Hold function in operation	Fuel filler lid status: Closed → Open	
	Automatic sliding door system malfunction	
Anti-pinch function	Continuous detection of pinching for 3 times during auto close operation	

### INTERMITTENT CLUTCH FUNCTION: Fail-safe

INFOID:0000000011321808

#### FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

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#### < SYSTEM DESCRIPTION >

Display contents of CONSULT	Fail-safe	Reference page*1
U1010: CAN COMM CIRCUIT		Return to normal status*2
B2401: IGN OPEN		When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC*2
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

<sup>\*1:</sup> When battery is reconnected, cancellation conditions are unconditionally fulfilled.

## BUZZER REMINDER FUNCTION

# BUZZER REMINDER FUNCTION: System Description

INFOID:0000000011321809

• Automatic sliding door warning buzzer sounds when sliding door automatic function is operated as a reminder.

Operation	Automatic sliding door warning buzzer	
Auto open	2 times for start operation	
Auto close	From sliding door halfway position until operation start of sliding door auto clo- sure function	
Power assist function (open)	2 times for start operation	
Power assist function (close)		
Reverse	2 times for reverse operation	

<sup>\*2:</sup> After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

#### < SYSTEM DESCRIPTION >

Operation	Function	Automatic sliding door warning buzzer operation pattern
	Sliding door open/close switch	
Automatic operation start	Intelligent Key button operation	Sound twice (2 times)
	Power assist function	
Reverse operation start	Reverse operation detection	
Hold function in operation	Vehicle speed 0km/h or more, and sliding door open	Sound continuously (until sliding door is fully closed or the vehicle stops)
Auto close in operation	Auto close in operation	Continuously sounds intermittently (until sliding door is in half latch position)

- When all of the following conditions are satisfied, automatic sliding door warning buzzer sounds, alerting the driver to stop the vehicle.
- Sliding door: Open status (Sliding door switch ON or full latch switch ON)
- Vehicle speed: 0 km/h or more

#### BUZZER REMINDER FUNCTION: Fail-safe

# FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

Display contents of CONSULT	Fail-safe	Reference page*1
U1010: CAN COMM CIRCUIT		Return to normal status*2
B2401: IGN OPEN		<ul> <li>When the following conditions are fulfilled</li> <li>Sliding door control unit detects that ignition switch is in the OFF position</li> <li>Sliding door control unit detects that ignition switch is not in the ON position via CAN communication</li> </ul>
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC*2
B2409: HALF LATCH SW		Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		<ul> <li>When the following conditions are fulfilled</li> <li>Return to normal status</li> <li>Sliding door control unit detects that sliding door is in the fully closed position</li> </ul>

<sup>\*1:</sup> When battery is reconnected, cancellation conditions are unconditionally fulfilled.

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<sup>\*2:</sup> After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

# **SYSTEM (INTEGRATED HOMELINK TRANSMITTER)**

< SYSTEM DESCRIPTION >

# SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

# System Description

INFOID:0000000011321811

Item	Function
Integrated homelink transmitter	A maximum of 3 radio signals can be stored and transmitted to operate the garage door, etc.

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#### < SYSTEM DESCRIPTION >

# **DIAGNOSIS SYSTEM (BCM)**

**COMMON ITEM** 

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000011558865

#### 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> <li>Read and save the vehicle specification.</li> <li>Write the vehicle specification when replacing BCM.</li> </ul>

#### 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.

x: Applicable item

System	Sub system selection item	Diagnosis mode		
System	Sub system selection item	Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER		×	×
Warning chime	BUZZER		×	×
Interior room lamp control system	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
Air conditioning control system	AIR CONDITONER		×	×*
<ul><li>Intelligent Key system</li><li>Engine start system</li></ul>	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR	×	×	×

#### NOTE

### FREEZE FRAME DATA (FFD)

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

<sup>\*:</sup> For models with automatic air conditioning control system, this diagnosis mode is not used.

#### < SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description /		
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected		
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected		
SL	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (LOCK)]	В
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode [Power supply position is OFF (OFF)]	С
	LOCK>ACC		While turning power supply position from OFF (LOCK) to ACC	
	ACC>ON		While turning power supply position from ACC to ON	D
	RUN>ACC		While turning power supply position from RUN to ACC (Except emergency stop operation)	D
	CRANK>RUN		While turning power supply position from CRANK to RUN	Е
	RUN>URGENT	Power position status of the moment a particular DTC is detected*	While turning power supply position from RUN to ACC (Emergency stop operation)	
	ACC>OFF		While turning power supply position from ACC to OFF (OFF)	F
Vehicle Condition	OFF>LOCK		While turning power supply position from OFF (OFF) to OFF (LOCK)	
	OFF>ACC		While turning power supply position from OFF (OFF) to ACC	G
	ON>CRANK		While turning power supply position from ON to CRANK	
	OFF>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (OFF)] to low power consumption mode	Н
	LOCK>SLEEP		While turning BCM status from normal mode [Power supply position is OFF (LOCK)] to low power consumption mode	
	LOCK		Power supply position is OFF (LOCK)	- 1
	OFF		Power supply position is OFF (OFF)	
	ACC		Power supply position is ACC	.1
	ON		Power supply position is ON	0
ENGI	ENGINE RUN		Power supply position is RUN	
	CRANKING		Power supply position is CRANK	DL
IGN Counter	0 - 39	<ul> <li>The number of times that ignition switch is turned ON after DTC is detected</li> <li>The number is 0 when a malfunction is detected now.</li> <li>The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON.</li> <li>The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.</li> </ul>		L

#### NOTE:

\*: Refer to the following for details of the power supply position.

- OFF (OFF, LOCK): Ignition switch OFF
- ACC: Ignition switch ACC
- IGN: Ignition switch ON with engine stopped
- · RUN: Ignition switch ON with engine running
- CRANK: At engine cranking

Power supply position shifts to "OFF (LOCK)" from "OFF (OFF)", when ignition switch is in the OFF position, shift position is in the P position, and any of the following conditions are met.

- · Closing door
- · Opening door
- · Door is locked using door request switch
- · Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "OFF (LOCK)".

### DOOR LOCK

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**DLK-93** 

### < SYSTEM DESCRIPTION >

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

INFOID:0000000011321813

#### **BCM CONSULT FUNCTION**

CONSULT performs the following functions via CAN communication with BCM.

#### **WORK SUPPORT**

Monitor item	Description		
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operation with this mode  On: Operate  Off: Non-operation		
AUTOMATIC DOOR LOCK SE- LECT	Automatic door lock function mode can be selected from the following in this mode     VH SPD: All doors are locked when vehicle speed more than 24 km/h (15 MPH)     P RANGE: All doors are locked when shifting the selector lever from P position to other than the P position		
AUTOMATIC DOOR UNLOCK SELECT	<ul> <li>Automatic door unlock function mode can be selected from the following in this mode</li> <li>MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF</li> <li>MODE 2: All doors are unlocked when shifting the selector lever from any position other than the P to P position</li> <li>MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF</li> <li>MODE 4: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position</li> <li>MODE 5: This item is displayed, but cannot be used</li> <li>MODE 6: This item is displayed, but cannot be used</li> </ul>		
AUTOMATIC LOCK/UNLOCK SET	Automatic door lock/unlock function mode can be selected from the following in this mode  Off: Non-operation  Unlock Only: Door unlock operation only  Lock Only: Door lock operation only  Lock/Unlock: Lock and unlock 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 sliding door switch RH
DOOR SW-RL	Indicated [On/Off] condition of sliding 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	Indicated [On/Off] condition of lock signal from door key cylinder switch
KEY CYL UN-SW	Indicated [On/Off] condition of unlock signal from door key cylinder switch

#### **ACTIVE TEST**

### < SYSTEM DESCRIPTION >

Test item	Description	
DOOR LOCK	This test is able to check door lock/unlock operation  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  The front door lock actuator (driver side) is unlocked when "DR UNLK" on CONSULT screen is touched  The front door lock actuator (passenger side) is unlocked when "AS UNLK" on CONSULT screen is touched  The door lock actuator (other) is unlocked when "OTR ULK" on CONSULT screen is touched	

# **INTELLIGENT KEY**

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

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## **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  On: Operate  Off: Non-operation	
ENGINE START BY I-KEY	Engine start function mode can be changed to operation with this mode  On: Operate  Off: Non-operation	
TRUNK/GLASS HATCH OPEN	NOTE: This item is displayed, but cannot be used	
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key button can be selected from the following with this mode  • MODE 1: 0.5 sec  • MODE 2: Non-operation  • MODE 3: 1.5 sec	
TRUNK OPEN DELAY	NOTE: This item is displayed, but cannot be used	
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operation with this mode  On: Operate  Off: Non-operation	
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operation with this mode  On: Operate  Off: Non-operation	
HAZARD ANSWER BACK	Hazard reminder function mode by door request switch and Intelligent Key button can be selected from the following with this mode  Lock Only: Door lock operation only  Unlock Only: Door unlock operation only  Lock/Unlock: Lock and unlock operation  Off: Non-operation	
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch can be selected from the following with this mode  • Horn Chirp: Sound horn  • Buzzer: Sound Intelligent Key warning buzzer  • Off: Non-operation	
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch can be changed to operation with this mode  On: Operate  Off: Non-operation	
SHORT CRANKING OUTPUT	Starter motor can operate during the times below  • 70 msec  • 100 msec	

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• 200 msec

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### < SYSTEM DESCRIPTION >

Monitor item	Description
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode
AUTO LOCK SET	Auto door lock operation time can be changed in this mode  • 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
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be selected from the following with this mode  On: Operate  Off: Non-operation
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following with this mode  • MODE 1: 3 sec  • MODE 2: Non-operation  • MODE 3: 5 sec

### SELF-DIAG RESULT

Refer to BCS-63, "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	NOTE: This item is displayed, but cannot be monitored
BRAKE SW 1	Indicates [On/Off]* 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
SFT PN/N SW	Indicates [On/Off] condition of P or N position
S/L -LOCK	NOTE: This item is displayed, but cannot be monitored
S/L -UNLOCK	NOTE: This item is displayed, but cannot be monitored
S/L RELAY -F/B	NOTE: This item is displayed, but cannot be monitored
UNLK SEN -DR	Indicates [On/Off] condition of driver door UNLOCK status
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
DETE SW -IPDM	Indicates [On/Off] condition of P position
SFT PN -IPDM	Indicates [On/Off] condition of P or N position
SFT P -MET	Indicates [On/Off] condition of P position
SFT N -MET	Indicates [On/Off] condition of N position
ENGINE STATE	Indicates [Stop/Stall/Crank/Run] condition of engine states

## < SYSTEM DESCRIPTION >

Monitor Item	Condition
S/L LOCK-IPDM	NOTE: This item is displayed, but cannot be monitored
S/L UNLK-IPDM	NOTE: This item is displayed, but cannot be monitored
S/L RELAY-REQ	NOTE: This item is displayed, but cannot be monitored
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 or VDC or TCM by numerical value [km/h]
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of unlock sensor
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger side door status
ID OK FLAG	Indicates [Set/Reset] condition of 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
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored
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
RKE-PANIC	Indicates [On/Off] condition of PANIC button of Intelligent Key
RKE-MODE CHG	Indicates [On/Off] condition of MODE CHANGE signal from Intelligent Key
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

<sup>\*:</sup> OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

# **ACTIVE TEST**

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation     On: Operate     Off: Non-operation
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation  On: Operate  Off: Non-operation
INSIDE BUZZER	This test is able to check warning chime in combination meter operation  • Take Out: Take away warning chime sounds when CONSULT screen is touched  • Key: Key warning chime sounds when CONSULT screen is touched  • Knob: OFF position warning chime sounds when CONSULT screen is touched  • Off: Non-operation
INDICATOR	This test is able to check warning lamp operation  KEY ON: "KEY" Warning lamp illuminates when CONSULT screen is touched  KEY IND: "KEY" Warning lamp blinks when CONSULT screen is touched  Off: Non-operation
INT LAMP	This test is able to check interior room lamp operation     On: Operate     Off: Non-operation

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### < SYSTEM DESCRIPTION >

Test item	Description
LCD	This test is able to check meter display information  • Engine start information displays when "BP N" on CONSULT screen is touched  • Engine start information displays when "BP I" on CONSULT screen is touched  • Key ID warning displays when "ID NG" on CONSULT screen is touched  • ROTAT: This item is displayed, but cannot be used.  • P position warning displays when "SFT P" on CONSULT screen is touched  • INSRT: This item is displayed, but cannot be monitored  • BATT: This item is displayed, but cannot be monitored  • Take away through window warning displays when "NO KY" on CONSULT screen is touched  • Take away warning display when "OUTKEY" on CONSULT screen is touched  • OFF position warning display when "LK WN" on CONSULT screen is touched
FLASHER	This test is able to check hazard warning lamp operation  LH: LH side hazard warning lamps operate  RH: RH side hazard warning lamps operate  Off: Non-operation
P RANGE	This test is able to check CVT shift selector power supply  On: Operate  Off: Non-operation
ENGINE SW ILLUMI	This test is able to check push-button ignition switch illumination operation  On: Operate  Off: Non-operation
LOCK INDICATOR	This test is able to check LOCK indicator (push-button ignition switch) operation  On: Operate  Off: Non-operation
ACC INDICATOR	This test is able to check ACC indicator (push-button ignition switch) operation  On: Operate  Off: Non-operation
IGNITION ON IND	This test is able to check ON indicator (push-button ignition switch) operation  On: Operate  Off: Non-operation
HORN	This test is able to check horn operation     On: Operate     Off: Non-operation
TRUNK/BACK DOOR	NOTE: This item is displayed, but cannot be used
POWER SLIDE DOOR	This test is able to check automatic siding door operation  RR PSD ON: Auto open/close operate  RL PSD ON: Auto open/close operate

# **TRUNK**

TRUNK: CONSULT Function (BCM - TRUNK)

INFOID:0000000011321815

#### **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
UNLK SEN -DR	Indicates [On/Off] condition of unlock sensor
VEH SPEED 1	Indicates [km/h] condition of vehicle speed signal from combination meter
TR/BD OPEN SW	Indicates [On/Off] condition of back door opener switch

# < SYSTEM DESCRIPTION >

Monitor Item	Contents
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored
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 >

# DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

# CONSULT Function (AUTOMATIC BACK DOOR CONTROL UNIT)

INFOID:0000000011321816

#### **APPLICATION ITEM**

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

Diagnosis mode	Function Description
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	Unit	Description
VHCL SPEED MTR	[km/h]	Display the vehicle speed signal received from combination meter by numerical value
VHCL SPEED ABS	[km/h]	Display the vehicle speed signal received from ABS actuator and electrical unit by numerical value
VHCL SPEED SIG	[NORMAL/ER- ROR]	Indicates condition of vehicle speed from automatic back door control unit
MAIN SW	[ON/OFF]	Indicates condition of automatic door main switch
AUTO BD SW	[ON/OFF]	Indicates condition of automatic back door switch
BK DOOR CL SW	[ON/OFF]	Indicates condition of automatic back door close switch
UNLOCK SEN DR	[ON/OFF]	NOTE: This item is displayed, but cannot be monitored
OPEN SW	[ON/OFF]	Indicates condition of open switch
CLOSE SW	[ON/OFF]	Indicates condition of close switch
HALF LATCH SW	[ON/OFF]	Indicates condition of half latch switch
TOUCH SEN RH	[ON/OFF/OPEN]	Indicates condition of touch sensor RH
TOUCH SEN LH	[ON/OFF/OPEN]	Indicates condition of touch sensor LH
P RANGE IND	[ON/OFF]	Indicates condition of P range signal from TCM
RKE REQ	[OFF/MOVE/ REV]	Indicates condition of remote keyless entry signal from BCM
IGN SW	[ON/OFF]	Indicates condition of IGN power supply
ENCODER A	[LO/HI]	Indicates condition of encoder signal from encoder A
ENCODER B	[LO/HI]	Indicates condition of encoder signal from encoder B
BD OPENER SW	[ON/OFF]	Indicates condition of back door opener switch
UNLOCK SEN BD	[LOCK/ UNLOCK]	NOTE: This item is displayed, but cannot be monitored
DESTINATION	[JPN/NAM]	Indicates specification of destination of the automatic back door system
HAZARD	[ON/OFF]	Indicates specification of hazard warning

**SELF-DIAG RESULT** 

Refer to DLK-109, "DTC Index".

# **DIAGNOSIS SYSTEM (SLIDING DOOR CONTROL UNIT LH)**

< SYSTEM DESCRIPTION >

# DIAGNOSIS SYSTEM (SLIDING DOOR CONTROL UNIT LH)

### **CONSULT Function**

INFOID:0000000011321817

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### **APPLICATION ITEM**

CONSULT performs the following functions via CAN communication with sliding door control unit LH.

Diagnosis mode	Function description
Self Diagnostic Result	Displays the diagnosis results judged by sliding door control unit LH
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from sliding door control unit LH
Data Monitor	The sliding door control unit LH input/output signals are displayed
Active Test	The signal used to activate each device are forcibly supplied from sliding door control unit LH
Ecu Identification	The sliding door control unit LH 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	
SPEED METER	Vehicle speed signal from combination meter is displayed	
ABS SPEED	Vehicle speed signal from ABS actuator and electric unit (control unit) is displayed	
MAIN SW	[ON/OFF] status of automatic door main switch, which is judged from automatic door main switch signal, is displayed	
KNOB LCK SW L	[Lock (OFF)/unlock (ON)] status of sliding door LH, which is judged from sliding door lock/unlock status signal, is displayed	
ONE-TOUCH SW	[Operation (ON)/non-operation (OFF)] status of sliding door one-touch open/close switch LH, which is judged from sliding door one-touch open/close switch signal, is displayed	
F LID SW	[ON/OFF] status of fuel filler lid status switch, which is judged from fuel filler lid open/close status signal, is displayed	
B PILLER SW	NOTE: This item is displayed, but cannot be used	
DRIVER SW	[Operation (ON)/non-operation (OFF)] status of sliding door open/close switch (front LH), which is judged from sliding door open/close switch (front LH) signal, is displayed	
ACC On SW	[ON, ACC status (ON)/other than ON, ACC (OFF)] status of ignition switch, which is judged from ACC signal, is displayed	
DOR HAND SW L	[Operation (ON)/non-operation (OFF)] status of sliding door handle LH, which is judged from sliding door handle switch signal, is displayed	
TOUCH SEN LH	[Pinching detection (ON)/non-detection (OFF)] status of sliding door touch sensor LH, which is judged from sliding door touch sensor signal, is displayed	
RR-LH DOOR SW	[Open (ON)/close (OFF)] status of sliding door LH, which is judged from sliding door switch signal, is displayed	
HAF LATC SW L	[Half latch, fully close (OFF)/open (ON)] status of half latch switch, which is judged from half latch switch signal, is displayed	
P RANGE SW	[P position (ON)/other than P position (OFF)] status of selector lever, which is judged from shift position signal, is displayed	
BRAKE SW	[Depressed (ON)/non-depressed (OFF)] status of brake pedal, which is judged from stop lamp switch signal, is displayed	
P BRAKE SW	[Operation (ON)/non-operation (OFF)] status of parking brake, which is judged from park brake switch signal, is displayed	

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**DLK-101** Revision: 2014 August **2015 QUEST** 

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# **DIAGNOSIS SYSTEM (SLIDING DOOR CONTROL UNIT LH)**

## < SYSTEM DESCRIPTION >

Monitor item	Description
KEYLESS SIG	[REV→MOVE→OFF] status of auto open/close operation is displayed according to Intelligent Key button operation  • REV: When Intelligent Key signal is received (button short press)  • MOVE: When Intelligent Key signal is received (button long press)  • OFF: When Intelligent Key button is not operated
IGN SW	[ON position (ON)/other than ON position (OFF)] of ignition switch, which is judged from ignition switch ON signal, is displayed
ENCODER A LH	Encoder status, which is judged from encoder pulse signal, is displayed
ENCODER B LH	Encoder status, which is judged from encoder pulse signal, is displayed
CHILD LOCK SW	NOTE: This item is displayed, but cannot be used
FULL LATC SW L	[Full close (OFF)/other than full close (ON)] status of sliding door LH, which is judged from full latch switch signal, is displayed
NEUTRAL SW	[Neutral position (OFF)/other than neutral position (ON)] status of sliding door closure motor, which is judged from neutral switch signal, is displayed

### **ACTIVE TEST**

Test Item	Description
CLUTCH	Clutch operation of sliding door LH can be checked according to screen operation of CONSULT  HOLD: Clutch ON (sliding door LH cannot be operated manually)  RELEASE: Clutch OFF (sliding door LH can be operated manually)  NOTE:  Be careful to perform active test after turning automatic door main switch to the OFF position and setting sliding door to the halfway stop position

### SELF-DIAG REULT

Refer to DLK-115, "LH: DTC Index".

# **DIAGNOSIS SYSTEM (SLIDING DOOR CONTROL UNIT RH)**

< SYSTEM DESCRIPTION >

# DIAGNOSIS SYSTEM (SLIDING DOOR CONTROL UNIT RH)

### **CONSULT Function**

INFOID:0000000011321818

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### **APPLICATION ITEM**

CONSULT performs the following functions via CAN communication with sliding door control unit RH.

Diagnosis mode	Function description
Self Diagnostic Result	Displays the diagnosis results judged by sliding door control unit RH
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from sliding door control unit RH
Data Monitor	The sliding door control unit RH input/output signals are displayed
Active Test	The signal used to activate each device are forcibly supplied from sliding door control unit RH
Ecu Identification	The sliding door control unit RH 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			
SPEED METER	Vehicle speed signal from combination meter is displayed			
ABS SPEED	Vehicle speed signal from ABS actuator and electric unit (control unit) is displayed			
MAIN SW	[ON/OFF] status of automatic door main switch, which is judged from automatic door main switch signal, is displayed			
KNOB LCK SW R	[Lock (OFF)/unlock (ON)] status of sliding door RH, which is judged from sliding door lock/unlock status signal, is displayed			
ONE-TOUCH SW	[Operation (ON)/non-operation (OFF)] status of sliding door one-touch open/close switch RH, which is judged from sliding door one-touch open/close switch signal, is displayed			
F LID SW	[ON/OFF] status of fuel filler lid status switch, which is judged from fuel filler lid open/close status signal, is displayed			
B PILLER SW	NOTE: This item is displayed, but cannot be used			
DRIVER SW	[Operation (ON)/non-operation (OFF)] status of sliding door open/close switch (front RH), which is judged from sliding door open/close switch (front RH) signal, is displayed			
ACC On SW	[ON, ACC status (ON)/other than ON, ACC (OFF)] status of ignition switch, which is judged from ACC signal, is displayed			
DOR HAND SW R	[Operation (ON)/non-operation (OFF)] status of sliding door handle RH, which is judged from sliding door handle switch signal, is displayed			
TOUCH SEN RH	[Pinching detection (ON)/non-detection (OFF)] status of sliding door touch sensor RH, which is judged from sliding door touch sensor signal, is displayed			
RR-RH DOOR SW	[Open (ON)/close (OFF)] status of sliding door RH, which is judged from sliding door switch signal, is displayed			
HAF LATC SW R	[Half latch, fully close (OFF)/open (ON)] status of half latch switch, which is judged from half latch switch signal, is displayed			
P RANGE SW	[P position (ON)/other than P position (OFF)] status of selector lever, which is judged from shift position signal, is displayed			
BRAKE SW	[Depressed (ON)/non-depressed (OFF)] status of brake pedal, which is judged from stop lamp switch signal, is displayed			
P BRAKE SW	[Operation (ON)/non-operation (OFF)] status of parking brake, which is judged from park brake switch signal, is displayed			

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**DLK-103** Revision: 2014 August **2015 QUEST** 

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# **DIAGNOSIS SYSTEM (SLIDING DOOR CONTROL UNIT RH)**

## < SYSTEM DESCRIPTION >

Monitor item Description			
KEYLESS SIG	[REV→MOVE→OFF] status of auto open/close operation is displayed according to Intelligent Key button operation  • REV: When Intelligent Key signal is received (button short press)  • MOVE: When Intelligent Key signal is received (button long press)  • OFF: When Intelligent Key button is not operated		
IGN SW	[ON position (ON)/other than ON position (OFF)] of ignition switch, which is judged from ignition switch ON signal, is displayed		
ENCODER A RH	Encoder status, which is judged from encoder pulse signal, is displayed		
ENCODER B RH	Encoder status, which is judged from encoder pulse signal, is displayed		
CHILD LOCK SW	NOTE: This item is displayed, but cannot be used		
FUL LATC SW R	[Full close (OFF)/other than full close (ON)] status of sliding door RH, which is judged from full latch switch signal, is displayed		
NEUTRAL SW	[Neutral position (OFF)/other than neutral position (ON)] status of sliding door closure motor, which is judged from neutral switch signal, is displayed		

### **ACTIVE TEST**

Test Item	Description
CLUTCH	Clutch operation of sliding door RH can be checked according to screen operation of CONSULT  HOLD: Clutch ON (sliding door RH cannot be operated manually)  RELEASE: Clutch OFF (sliding door RH can be operated manually)  NOTE:  Be careful to perform active test after turning automatic door main switch to the OFF position and setting sliding door to the halfway stop position

### SELF-DIAG REULT

Refer to DLK-121, "RH: DTC Index".

# **ECU DIAGNOSIS INFORMATION**

# **BCM**

List of ECU Reference

		-
		-
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INFOID:0000000011321819

ECU Reference BCS-40, "Reference Value" BCS-62, "Fail-safe" BCM BCS-62, "DTC Inspection Priority Chart" BCS-63, "DTC Index"

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### **AUTOMATIC BACK DOOR CONTROL MODULE**

< ECU DIAGNOSIS INFORMATION >

# AUTOMATIC BACK DOOR CONTROL MODULE

Reference Value

### 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

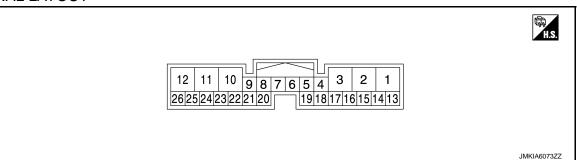
Monitor Item	Condition	Value/Status		
VHCL SPEED MTR	While driving	Equivalent to speedometer reading		
VHCL SPEED ABS	While driving	Equivalent to speedometer reading		
VHCL SPEED SIG	Vehicle speed from automatic back	Normal	NORMAL	
VHCL SPEED SIG	door control unit	Error	ERROR	
MAIN SW	Automotic door main quitab	OFF	OFF	
IVIAIN SVV	Automatic door main switch	ON	ON	
AUTO BD SW	Automatic back door switch	Release	OFF	
AUTO BD 3W	Automatic back door switch	Press	ON	
BK DOOD OL SW	Automatic back door close switch	Release	OFF	
BK DOOR CL SW	Automatic back door close switch	Press	ON	
LINI OOK CEN DD	NOTE:		OFF	
UNLOCK SEN DR	This item is displayed, but cannot b	e monitored	ON	
OPEN SW	Back door	Half latch/fully closed	OFF	
OPEN SW	Dack door	Open	ON	
CLOSE SW	Dools door	Open/half latch	OFF	
CLOSE SW	Back door	Fully closed	ON	
HALF LATCH SW	Back door	Half latch/fully closed	OFF	
HALF LATON SW	Back door	Open	ON	
TOUCH SEN RH	Back door touch sensor RH	Other than bellow	OFF	
TOUCH SEN KH	Back door touch sensor Kn	Detect obstruction	ON	
TOUCH SEN LH	Back door touch sensor LH	Other than bellow	OFF	
TOUCH SEN LH	Back door touch sensor En	Detect obstruction	ON	
P RANGE IND	Selector lever	Other than P position	OFF	
F KANGE IND	Selector level	P position	ON	
		Release	OFF	
RKE REQ	Intelligent Key button (back door)	Press (more than 0.5 second)	MOVE	
		Press (just after)	REV	
IGN SW	Ignition switch	Other than ON position	OFF	
IGIN SVV	ignition switch	ON position	ON	
ENCODER A	Automotic hook door	Not operate	No change HI or LO	
LINCODLINA	Automatic back door	Operate	Change HI or LO	
ENCODER B	Automatic back door	Not operate	No change HI or LO	
LINCODEN D	Automatic back door	Operate	Change HI or LO	
BD ODENED SW	Rack door opener switch	Release	UNLK	
BD OPENER SW	Back door opener switch	Press	LOCK	

### **AUTOMATIC BACK DOOR CONTROL MODULE**

### < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Condition		
UNLOCK SEN BD	NOTE:	NOTE:		
UNLOCK SEN BD	This item is displayed, but cannot b	This item is displayed, but cannot be monitored		
DESTINATION	Circuit between automatic back	Normal	NAM	
	door control module terminal 6 and ground	Open or short	JPN	
	Circuit between automatic back	Normal	ON	
HAZARD	door control module terminal 8 and ground	Open or short	OFF	

## **TERMINAL LAYOUT**



## PHYSICAL VALUES

	inal No. e color)	Description		- Condition		Voltage
(+)	(-)	Signal name	Input/ Output			voltage
1 (SB)	Ground	Power supply (BAT)	Input	_		9 - 16 V
2	Ground	Back door closure mo-	Output	Back door	Close operation	9 - 16 V
(BR)	Orodina	tor (close)	Output	Back acci	Other than above	0 - 1.5 V
3	Ground	Back door closure mo-	Output	Back door	Open operation	9 - 16 V
(L)	Cround	tor (open)	Output	Baok addi	Other than above	0 - 1.5 V
4	Ground	Automatic back door	Input	Automatic back	Pressed	0 - 1.5 V
(P)	Ground	close switch	input	door close switch	Released	9 - 16 V
5	5 Automatic h	Automatic back door		Automatic back	Sounding	0 - 1.5 V
(W)	Ground	round warning buzzer Output door warn buzzer	door warning buzzer	Not sounding	9 - 16 V	
6 (B)	Ground	Ground (destination)	_	_		0 - 1.5 V
7 (P)	Ground	Power supply (IGN)	Input	Ignition switch ON		9 - 16 V
8 (B)	Ground	Ground (Hazard reminder)	_	_		0 - 1.5 V
9 (GR)	Ground	Power supply (BAT)	Input	_		9 - 16 V
11 (B)	Ground	Ground	_	_		0 - 1.0 V
13 (W)	(-iround	Touch sensor RH sig-	Input	Back door touch sensor RH	Detect obstruc- tion	0 - 1.5 V
( v v )		IIGI		Other than abo		5 - 6.7 V
14 (P)	Ground	Touch sensor ground	Input	_		0 - 1.5 V

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### **AUTOMATIC BACK DOOR CONTROL MODULE**

### < ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Condition		Voltage
(+)	(-)	Signal name	Input/ Output	Condition		voltage
15 (GR)	Ground	Touch sensor LH sig-	Input	Back door touch sensor LH	Detect obstruc- tion	0 - 1.5 V
(GIV)		IIai		Selisoi Li i	Other than above	5 - 6.7 V
16	Ground	Automatic back door	Innut	Automatic back	Pressed	0 - 1.5 V
(L)	Ground	switch	Input	door switch	Released	9 - 16 V
17	Ground	Automatic door main	Input	Automatic door	ON	9 - 16 V
(G)	Ground	switch	Input	main switch	OFF	0 - 1.5 V
20	Ground	Close switch signal	lan. it	Back door	Fully closed	0 - 1.5 V
(R)	Ground	Close switch signal	Input		Open/half latch	9 - 16 V
22					Open	0 - 1.5 V
(W)	Ground	Half latch switch signal	Input	Back door	Fully closed/half latch	9 - 16 V
24					Open	0 - 1.5 V
24 (G)	Ground	Open switch signal	Input	Back door	Half latch/fully closed	9 - 16 V
25 (P)	Ground	CAN - L	Input/ Output	_		_
26 (L)	Ground	CAN - H	Input/ Output	-	_	_

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
B2401 IGN OPEN	Intermittent clutch function	All following condition are satisfied     Power supply condition of automatic back door control unit: OFF     BCM receive ignition position signal (OFF) via CAN
B2403 PULSE ENCODER	Inhibit automatic back door operation	When receiving the pulse from encoders A and B normally (5 pulses)
B2409 HALF LATCH SW	Intermittent clutch function	Half latch switch is ON from OFF
B2416 TOUCH SEN R OPEN	During close operation: Intermittent clutch function	Normal return
B2417 TOUCH SEN L OPEN	During close operation: Intermittent clutch function	Normal return
B2419 OPEN SW	Inhibit automatic back door operation	Erase DTC, reconnect battery
B2420 CLOSE SW	Inhibit automatic back door operation	Erase DTC, reconnect battery
B2421 CLUTCH TIME OUT	Intermittent clutch function	Reception of next operation request
B2422 BACK DOOR STATE	Intermittent clutch function	Detect back door fully closed position
B2423 ABD MTR TIME OUT	Intermittent clutch function	Reception of next operation request
B2424 CLSR CONDITION	Inhibit automatic back door operation	Normal return or reconnect battery

# DTC Inspection Priority Chart

INFOID:0000000011321822

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

#### **AUTOMATIC BACK DOOR CONTROL MODULE**

#### < ECU DIAGNOSIS INFORMATION >

Priority	DTC
1	B2425 AUTO BK DR CNT UNIT U1000: CAN COMM U1010: CONTROL UNIT (CAN) B2401 IGN OPEN
2	B2403 PULSE ENCODER B2409 HALF LATCH SW B2416 TOUCH SEN R OPEN B2417 TOUCH SEN L OPEN B2419 OPEN SW B2420 CLOSE SW B2421 CLUTCH TIME OUT B2422 BACK DOOR STATE B2423 ABD MTR TIME OUT B2424 CLSR CONDITION

DTC Index

#### 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-171
U1010: CONTROL UNIT(CAN)	_	DLK-173
B2401: IGN OPEN	×	DLK-174
B2403: PULSE ENCODER	×	DLK-182
B2409: HALF LATCH SW	×	DLK-188
B2416: TOUCH SEN R OPEN	×	DLK-210
B2417: TOUCH SEN L OPEN	×	DLK-213
B2419: OPEN SW	×	DLK-216
B2420: CLOSE SW	×	DLK-218
B2421: CLUTCH TIME OUT	×	DLK-220
B2422: BACK DOOR STATE	×	DLK-221
B2423: ABD MTR TIME OUT	×	DLK-222
B2424: CLSR CONDITION	×	DLK-223
B2425: AUTO BCK DR CNT UNIT	_	DLK-225

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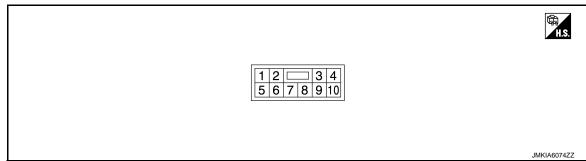
## **BACK DOOR CONTROL UNIT**

< ECU DIAGNOSIS INFORMATION >

## **BACK DOOR CONTROL UNIT**

Reference Value

#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

	inal No. e color)	Description		Condition		Voltage	
(+)	(-)	Signal name	Input/ Output	Con	Condition		
					Stop	8 - 16 V	
1 (W)	Ground	Close switch signal	Input	Closure motor	Close operation	8 - 16 V	
()					Open operation	0 - 1.5 V	
2	Ground	Half-latch switch signal	Input	Back door	Open	0 - 1.5 V	
(G)	Giodila	rian-lateri switeri sigriai	при	Back door	Fully closed/half latch	3.5 - 5.5 V	
3 (LG)	Ground	Battery power supply	Input	_		8 - 16 V	
4	Ground	Back door closure mo-	Output	Back door	Close operation	5 - 16 V	
(V)	Ground	tor (close)	Output		Other than above	0 - 1.5 V	
_	Ground				Stop	8 - 16 V	
5 (R)		Ground	Ground Open switc	Open switch signal	l Input	Closure motor	Close operation
( )					Open operation	8 - 16 V	
6	Ground	Back door open re-	Input	Back door opener	Pressed	0 - 1.5 V	
(P)	Ground	quest signal	mput	switch	Released	8 - 16 V	
7 (B)	Ground	Ground	_			0 - 1.5 V	
8 (GR)	Ground	Ground	_	_	_	0 - 1.5 V	
10	Ground	Back door closure mo-	Output	Back door	Open operation	5 - 16 V	
(BR)	Giodila	tor (open)	Output	Dack door	Other than above	0 - 1.5 V	

## < ECU DIAGNOSIS INFORMATION >

## **SLIDING DOOR CONTROL UNIT**

LH

LH : Reference Value

#### INFOID:0000000011321825

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#### **CONSULT MONITOR ITEM**

#### 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	Condition	
SPEED METER	While driving	Equivalent to speedometer reading	
ABS SPEED	While driving		Equivalent to speedometer reading
MAINI CVA	Automotic door main quitab	OFF	OFF
MAIN SW	Automatic door main switch	ON	ON
KNOB LCK SW L	Cliding door look knob I LI	Lock	OFF
KNOD LOK SW L	Sliding door lock knob LH	Unlock	ON
ONE TOLICLI CW	Sliding door one-touch open/close	Release	OFF
ONE-TOUCH SW	switch LH	Press	ON
ELID OW	First filles list status socials	OFF	OFF
F LID SW	Fuel filler lid status switch	ON	ON
B PILLER SW	NOTE: This item is displayed, but cannot be	e used	OFF
DRIVER SW	Sliding door open/close switch	Release	OFF
DRIVER SW	(front LH)	Press	ON
	Invition position	Other than below	OFF
ACC On SW	Ignition position	ON, ACC position	ON
DOD HAND CWI	Olidia a da ca ba a dla III	Release	OFF
DOR HAND SW L	Sliding door handle LH	Pull	ON
	Olidia a da antarrab a ana anti-	Other than below	OFF
TOUCH SEN LH	Sliding door touch sensor LH	Pinching detection	ON
DD LLL DOOD CW	Olidia a da sa LU	Close	OFF
RR-LH DOOR SW	Sliding door LH	Open	ON
LIAF LATO CIA/L	Olidia a da sa LU	Half latch/fully closed	OFF
HAF LATC SW L	Sliding door LH	Open	ON
D DANCE CW	Colorton lover	Other than P position	OFF
P RANGE SW	Selector lever	P position	ON
DDAKE OW	Dualia in a dal	Not depressed	OFF
BRAKE SW	Brake pedal	Depressed	ON
D DD AKE OW	Bullion Lord	Not operate	OFF
P BRAKE SW	Parking brake	Operate	ON
		Pressed for short period of time	REV
KEYLESS SIG	Intelligent Key button (sliding door LH)	Pressed for long period of time	MOVE
		No operation	OFF

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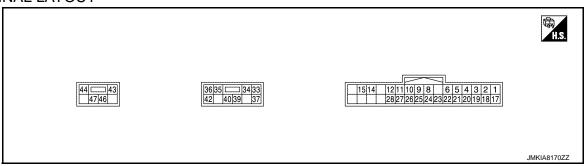
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## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Conditio	n	Value/Status
IGN SW	Ignition position	Other than below	OFF
IGIV SVV	Igilition position	ON position	ON
ENCODER A LH	Sliding door LH	Moving (auto or manual)	HI ⇔ LO
ENCODER A LH	Silding door LH	When stopped	HI or LO
ENICOPED BALL	Cliding door LLI	Moving (auto or manual)	HI ⇔ LO
ENCODER B LH	Sliding door LH	When stopped	HI or LO
CHILD LOCK SW	NOTE: This item is displayed, but cannot be	OFF	
FULL LATC SW L	Cliding door LU	Full closed	OFF
FULL LATO SW L	Sliding door LH	Other than below	ON
NEUTRAL SW	Sliding door closure motor LH	Neutral position	OFF
NEUTRAL SW	Siluling door closure motor Ln	Other than below	ON

## **TERMINAL LAYOUT**



## PHYSICAL VALUES

	nal No. color)	Description		Condition		Voltago
(+)	(-)	Signal name	Input/ Output	CON	uition	Voltage
1	Ground	Automatic door main	Input	Automatic door	OFF	8 – 16 V
(G)	Giodila	switch	IIIput	main switch	ON	0 – 1.5 V
3	Ground	Sliding door lock sta-	Innut	Sliding door lock	Unlock	0 – 1.5 V
(R)	Giodila	tus switch	Input	knob	Lock	8 – 16 V
4 (GR)	Ground	Encoder A signal	Input	Sliding door LH	Moving (auto or manual)	(V) 6 4 2 0  JMKIA6157ZZ  NOTE:  Waveform width changes according to sliding door open/close speed
-					When stopped	4 V or 0 – 0.5 V
5					Open	0 – 1.5 V
(L)	Ground	Half latch switch	Input	Sliding door LH	Full closed/half latch	8 – 16 V
6 (P)	Ground	Power supply (IGN)	Input	Ignition switch ON		9 – 16 V

## < ECU DIAGNOSIS INFORMATION >

	nal No. e color)	Description		Condition		V. Iv.
(+)	(-)	Signal name	Input/ Output			Voltage
8		Automatic sliding		Automatic slid-	Sounding	0 – 1.5 V
(W)	Ground	door warning buzzer	Output	ing door warning buzzer LH	Not sounding	8 – 16 V
9 (P)	Ground	CAN - L	Input/ Output	-	_	_
10 (L)	Ground	CAN - H	Input/ Output	_	_	_
11 (P)	Ground	Encoder power sup- ply	Output	Ignition switch OF	F	8 – 16 V
12 (GR)	Ground	Power supply (BAT)	Input	Ignition switch OF	F	8 – 16 V
14	Ground	Sliding door one- touch open/close	Output	Sliding door one- touch open/	Released	8 – 16 V
(GR)	Ground	switch	Calput	close switch LH	Pressed	0 – 1.5 V
15				Sliding door clo-	Neutral position	8 – 16 V
(R)	Ground	Neutral switch	Input	sure motor	Other than above	0 – 1.5 V
17	Ground	Fuel filler lid status	Input I del mier na sta	OFF	8 – 16 V	
(GR)	Ground	switch		ON	0 – 1.5 V	
18					Full closed	8 – 16 V
(W)	Ground	Full latch switch	Input	Sliding door LH	Other than above	0 – 1.5 V
19	Ground	Sliding door open/ close switch (front	lan. it	Sliding door	Released	8 – 16 V
(P)	Ground	side)	Input	open/close switch (front LH)	Pressed	0 – 1.5 V
21 (G)	Ground	Encoder B signal	Input	Sliding door LH	Moving (auto or manual)	(V) 6 4 4 100 100 100 100 100 100 100 100 100
22		Sliding door handle	_	Sliding door han-	Released	8 – 16 V
(W)	Ground	switch	Input	dle LH	Pulled	0 – 1.5 V
23 (B)	Ground	Ground	_	-	_	0 V
24	Ground	Sliding door touch	Input Sliding door		Pinching detection	0 – 1.5 V
(G)		sensor	·	touch sensor LH	Other than above	4 – 8 V
26 (L)	Ground	Ground (encoder)	_	_	_	0 V
27 (B)	Ground	Ground	_	_		0 V

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## < ECU DIAGNOSIS INFORMATION >

	ninal No. re color) Description			Cone	dition	Voltage
(+)	(-)	Signal name	Input/ Output	Condition		vollage
28	Ground	Sliding door switch	Input	Sliding door	Close	8 – 16 V
(GR)			·	switch LH	Open	0 – 1.5 V
33 (B)	Ground	Ground	_	-	_	0 V
34		Sliding door closure		Sliding door clo-	Close operation	9 – 16 V
(L)	Ground	motor (close)	Output	sure motor LH	Other than above	0 – 1.5 V
35		Sliding door closure		Sliding door clo-	Return operation	9 – 16 V
(SB)	Ground	motor (return)	Output	sure motor LH	Other than above	0 – 1.5 V
36 (V)	Ground	Power supply (BAT)	Input	Ignition switch OF	.F	9 – 16 V
37 (B)	Ground	Ground	_	_	_	0 V
39		Sliding door lock re-		Output release actuator	Operate	0 – 1.5 V
(G)	Ground	lease actuator (-)	Output		Other than above	0 V
40		Sliding door lock re-		Sliding door lock	Operate	9 – 16 V
(Y)	Ground	lease actuator (+)	Output	release actuator LH	Other than above	0 V
42 (V)	Ground	Power supply (sliding door auto closure)	Input	Ignition switch OF	F	9 – 16 V
43	Ground	Sliding door motor	Output	Cliding door I LI	Auto open operation	9 – 16 V
(R)	Ground	(open)	Output	Sliding door LH	Other than above	0 – 1.5 V
44	Craund	Clutch (–)	Outnut	Clutch LH	ON	0 – 1.5 V
(L)	Ground	Cluteri (–)	Output	Clutch LH	OFF	0 V
46	Ground	Ground Sliding door motor (close)	Output		Auto close operation	9 – 16 V
(W)	Giound		Output	Sliding door LH	Other than above	0 – 1.5 V
47	Ground	Clutch (+)	Output	Clutch LH	ON	9 – 16 V
(SB)	Ciouna	Ciatori (1)	Output	CIGION EN	OFF	0 V

LH: Fail-safe

## FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

#### < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Reference page <sup>*1</sup>
U1010: CAN COMM CIRCUIT		Return to normal status*2
B2401: IGN OPEN		<ul> <li>When the following conditions are fulfilled</li> <li>Sliding door control unit detects that ignition switch is in the OFF position</li> <li>Sliding door control unit detects that ignition switch is not in the ON position via CAN communication</li> </ul>
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER		Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC*2
B2409: HALF LATCH SW	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		When the following conditions are fulfilled  Return to normal status  Sliding door control unit detects that sliding door is in the fully closed position

<sup>\*1:</sup> When battery is reconnected, cancellation conditions are unconditionally fulfilled.

# LH: DTC Inspection Priority Chart

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Priority	DTC
1	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN) B2401: IGN OPEN B2405: ECU FAIL
2	B2402: TOUCH SENSOR OPEN     B2403: PULSE ENCODER     B2409: HALF LATCH SW     B241A: ENCDR PWR SUPLY
3	B2412: ASD MTR/ENCDR     B2413: ASD MTR/ENCDR     B2414: ASD MTR TIME OUT

LH: DTC Index

NOTE:

<sup>\*2:</sup> After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

#### < ECU DIAGNOSIS INFORMATION >

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

CONSULT display	Fail-safe	Reference page
U1000: CAN COMM CIRCUIT	_	<u>DLK-171</u>
U1010: CONTROL UNIT (CAN)	×	<u>DLK-173</u>
B2401: IGN OPEN	×	<u>DLK-174</u>
B2402: TOUCH SENSOR OPEN	×	<u>DLK-177</u>
B2403: PULSE ENCODER	×	DLK-182
B2405: ECU FAIL	×	<u>DLK-187</u>
B2409: HALF LATCH SW	×	DLK-189
B2412: ASD MTR/ENCDR	×	<u>DLK-197</u>
B2413: ASD MTR/ENCDR	×	DLK-203
B2414: ASD MTR TIME OUT	×	DLK-206
B241A: ENCDR PWR SUPLY	×	DLK-194

RH

RH: Reference Value

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#### **CONSULT MONITOR ITEM**

#### NOTE:

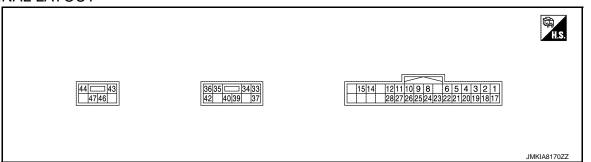
The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Conditio	Condition		
SPEED METER	While driving	Equivalent to speedometer reading		
ABS SPEED	While driving	Equivalent to speedometer reading		
MAIN SW	Automatic door main switch	OFF	OFF	
IVIAIN SVV	Automatic door main switch	ON	ON	
KNOB LCK SW R	Cliding door look knob DU	Lock	OFF	
KNOB LCK SW K	Sliding door lock knob RH	Unlock	ON	
ONE TOLICIL OW	Sliding door one-touch open/close	Release	OFF	
ONE-TOUCH SW	switch RH	Press	ON	
F LID SW	NOTE: This item is displayed, but cannot be	e monitored	OFF	
B PILLER SW	NOTE: This item is displayed, but cannot be	NOTE: This item is displayed, but cannot be monitored		
DDIVED OW	Sliding door open/close switch	Release	OFF	
DRIVER SW	(front RH)	Press	ON	
ACC On SW	Louisticus us ceisticus	Other than bellow	OFF	
ACC On Svv	Ignition position	ON, ACC position	ON	
DOD HAND OW D	Olidina da ante andla DII	Release	OFF	
DOR HAND SW R	Sliding door handle RH	Pull	ON	
TOUCH SEN DU	Cliding deartouch concerns	Other than bellow	OFF	
TOUCH SEN RH	Sliding door touch sensor RH	Pinching detection	ON	

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	า	Value/Status
RR-RH DOOR SW	Sliding door RH	Close	OFF
RR-RH DOOR SW	Silding door RH	Open	ON
HAF LATC SW R	Cliding door DLI	Half latch/fully closed	OFF
HAF LATE SW K	Sliding door RH	Open	ON
P RANGE SW	NGE SW Selector lever		OFF
P RANGE SW	Selector level	P position	ON
BRAKE SW	Proko podol	Not depressed	OFF
BRAKE SW	Brake pedal	Depressed	ON
P BRAKE SW	Darking broke	Not operate	OFF
P BRAKE SW	Parking brake	Operate	ON
	Intelligent Key button (sliding door RH)	Pressed for short period of time	REV
KEYLESS SIG		Pressed for long period of time	MOVE
		No operation	OFF
IGN SW	Ignition position	Other than bellow	OFF
IGN SVV	ignition position	ON position	ON
ENCODER A RH	Sliding door RH	Moving (auto or manual)	HI ⇔ LO
ENCODER A RH	Silding door KH	When stopped	HI or LO
ENCODER B RH	Sliding door RH	Moving (auto or manual)	HI ⇔ LO
ENCODER B RH	Silding door KH	When stopped	HI or LO
CHILD LOCK SW	NOTE: This item is displayed, but cannot be monitored		OFF
FULLATO CW D	Cliding door DLI	Full closed	OFF
FUL LATC SW R	Sliding door RH	Other than bellow	ON
NEUTRAL SW	Cliding door alcoure motor DLI	Neutral position	OFF
NEUTRAL 3W	Sliding door closure motor RH	Other than bellow	ON

## **TERMINAL LAYOUT**



## PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage			
(+)	(-)	Signal name	Input/ Output		ullion	voltage			
1	Ground	Automatic door main	Input	Automatic door	OFF	8 – 16 V			
(R)	switch	switch	switch	switch main switch	Input	input	Input	ON	0 – 1.5 V
3	Ground	Sliding door lock sta-	Input	Sliding door lock	Unlock	0 – 1.5 V			
(P)	Ground	tus switch	Input	Lock	8 – 16 V				

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## < ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Con	dition	Voltage
(+)	(-)	Signal name	Input/ Output	Con	uition	voltage
4 (R)	Ground	Encoder A signal	Input	Sliding door RH	Moving (auto or manual)	Waveform width changes according to sliding door open/close speed
					When stopped	4 V or 0 – 0.5 V
5					Open	0 – 1.5 V
(G)	Ground	Half latch switch	Input	Sliding door RH	Full closed/half latch	8 – 16 V
6 (L)	Ground	Power supply (IGN)	Input	Ignition switch ON		9 – 16 V
8	0	Automatic sliding	0 1 1	Automatic slid-	Sounding	0 – 1.5 V
(P)	Ground	door warning buzzer	Output	ing door warning buzzer RH	Not sounding	8 – 16 V
9 (B)	Ground	CAN - L	Input/ Output	<u> </u>		_
10 (W)	Ground	CAN - H	Input/ Output	_		_
11 (G)	Ground	Encoder power supply	Output	Ignition switch OF	F	8 – 16 V
12 (Y)	Ground	Power supply (BAT)	Input	Ignition switch OF	F	8 – 16 V
14	_	Sliding door one-	_	Sliding door one-	Released	8 – 16 V
(GR)	Ground	touch open/close switch	Output	touch open/ close switch RH	Pressed	0 – 1.5 V
15				Sliding door clo-	Neutral position	8 – 16 V
(R)	Ground	Neutral switch	Input	sure motor	Other than above	0 – 1.5 V
18					Full closed	8 – 16 V
(W)	Ground	Half latch switch	Input	Sliding door RH	Other than above	0 – 1.5 V
19	0	Sliding door open/	l- ·	Sliding door	Released	8 – 16 V
(G)	Ground	close switch (front side)	Input	open/close switch (front RH)	Pressed	0 – 1.5 V

## < ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		0	Pre	M. Barrier
(+)	(-)	Signal name	Input/ Output	Con	dition	Voltage
21 (P)	Ground	Encoder B signal	Input	Sliding door RH	Moving (auto or manual)	(V) 6 4 2 0  JMKIA6157ZZ  NOTE:  Waveform width changes according to sliding door open/close speed
					When stopped	4 V or 0 – 0.5 V
22 (W)	Ground	Sliding door handle switch	Input	Sliding door han- dle RH	Released Pulled	8 – 16 V 0 – 1.5 V
23 (B)	Ground	Ground	_	-	_	0 V
24	0	Sliding door touch	l==4	Sliding door	Pinching detection	0 – 1.5 V
(G)	Ground	sensor	Input	touch sensor RH	Other than above	4 – 8 V
26 (GR)	Ground	Ground (encoder)	_	_		0 V
27 (GR)	Ground	Ground	_	_		0 V
28 (GR)	Ground	Sliding door switch	Input	Sliding door switch RH	Close Open	8 – 16 V 0 – 1.5 V
33 (B/R)	Ground	Ground	_	-	_	0 V
					Close operation	9 – 16 V
34 (R)	Ground	Sliding door closure motor (close)	Output	Sliding door clo- sure motor RH	Other than above	0 – 1.5 V
					Return operation	9 – 16 V
35 (G)	Ground	Sliding door closure motor (return)	Output	Sliding door clo- sure motor RH	Other than above	0 – 1.5 V
36 (Y)	Ground	Power supply (BAT)	Input	Ignition switch OFF		9 – 16 V
37 (B/R)	Ground	Ground	_	_		0 V
20		Cliding door look to		Sliding door lock	Operate	0 – 1.5 V
39 (L)	Ground	Sliding door lock re- lease actuator (-)	Output	release actuator RH	Other than above	0 V
40		Sliding door look to		Sliding door lock	Operate	9 – 16 V
40 (O)	Ground	Sliding door lock re- lease actuator (+)	Output	release actuator RH	Other than above	0 V
42 (Y)	Ground	Power supply (sliding door auto closure)	Input	Ignition switch OF	F	9 – 16 V

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## < ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description	Condition Voltage		Voltage	
(+)	(-)	Signal name	Input/ Output			voltage
43	Ground	Sliding door motor	Output	Sliding door RH	Auto open operation	9 – 16 V
(B)	Glound	(open)	Output Silding door KH	Other than above	0 – 1.5 V	
44	Ground	Clutch (–)	Output	Clutch DU	ON	0 – 1.5 V
(L)	Giodila	Clutch (–)	Output	Clutch RH	OFF	0 V
46	Ground	Sliding door motor	0.45.4	output Sliding door RH	Auto close operation	9 – 16 V
(W)	Giouna	(close)	Output		Other than above	0 – 1.5 V
47	Ground	Clutch (1)	Output	Clutch RH	ON	9 – 16 V
(BR)	Giouna	Clutch (+)	Output	Ciulcii Kn	OFF	0 V

RH: Fail-safe

#### FAIL-SAFE CONTROL BT DTC

Sliding door control unit performs fail-safe control when any DTC is detected.

Display contents of CONSULT	Fail-safe	Reference page*1
U1010: CAN COMM CIRCUIT		Return to normal status*2
B2401: IGN OPEN		When the following conditions are fulfilled Sliding door control unit detects that ignition switch is in the OFF position Sliding door control unit detects that ignition switch is not in the ON position via CAN communication
B2402: TOUCH SENSOR OPEN		Return to normal status
B2403: PULSE ENCODER	Intermittent clutch operation	Sliding door control unit detects that sliding door is in the fully closed position
B2405: ECU FAIL		Erase DTC*2
B2409: HALF LATCH SW		Sliding door control unit detects that sliding door is in the fully closed position
B2412: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2413: ASD MTR/ENCDR		Sliding door control unit detects that sliding door is in the fully closed position
B2414: ASD MTR TIME OUT		Sliding door control unit detects that sliding door is in the fully closed position
B241A: ENCDR PWR SUPLY		When the following conditions are fulfilled Return to normal status Sliding door control unit detects that sliding door is in the fully closed position

## < ECU DIAGNOSIS INFORMATION >

## RH: DTC Inspection Priority Chart

Priority	DTC
1	U1000: CAN COMM CIRCUIT U1010: CONTROL UNIT (CAN) B2401: IGN OPEN B2405: ECU FAIL
2	B2402: TOUCH SENSOR OPEN     B2403: PULSE ENCODER     B2409: HALF LATCH SW     B241A: ENCDR PWR SUPLY
3	B2412: ASD MTR/ENCDR B2413: ASD MTR/ENCDR B2414: ASD MTR TIME OUT

RH: DTC Index INFOID:0000000011321832

#### NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

CONSULT display	Fail-safe	Reference page
U1000: CAN COMM CIRCUIT	_	DLK-172
U1010: CONTROL UNIT (CAN)	×	DLK-173
B2401: IGN OPEN	×	DLK-175
B2402: TOUCH SENSOR OPEN	×	DLK-179
B2403: PULSE ENCODER	×	DLK-184
B2405: ECU FAIL	×	DLK-187
B2409: HALF LATCH SW	×	DLK-192
B2412: ASD MTR/ENCDR	×	DLK-199
B2413: ASD MTR/ENCDR	×	DLK-203
B2414: ASD MTR TIME OUT	×	DLK-207
B241A: ENCDR PWR SUPLY	×	DLK-195

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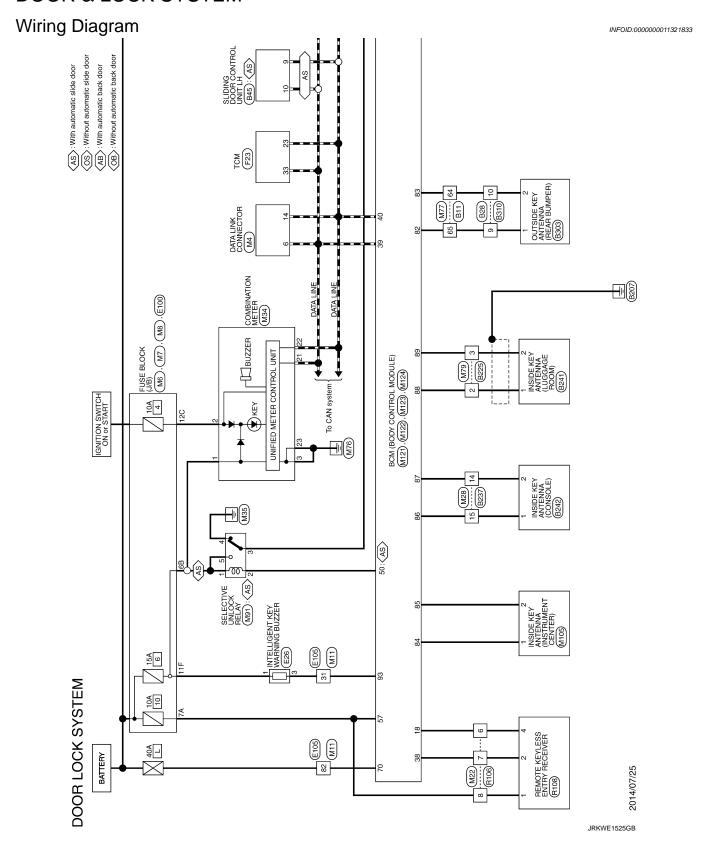
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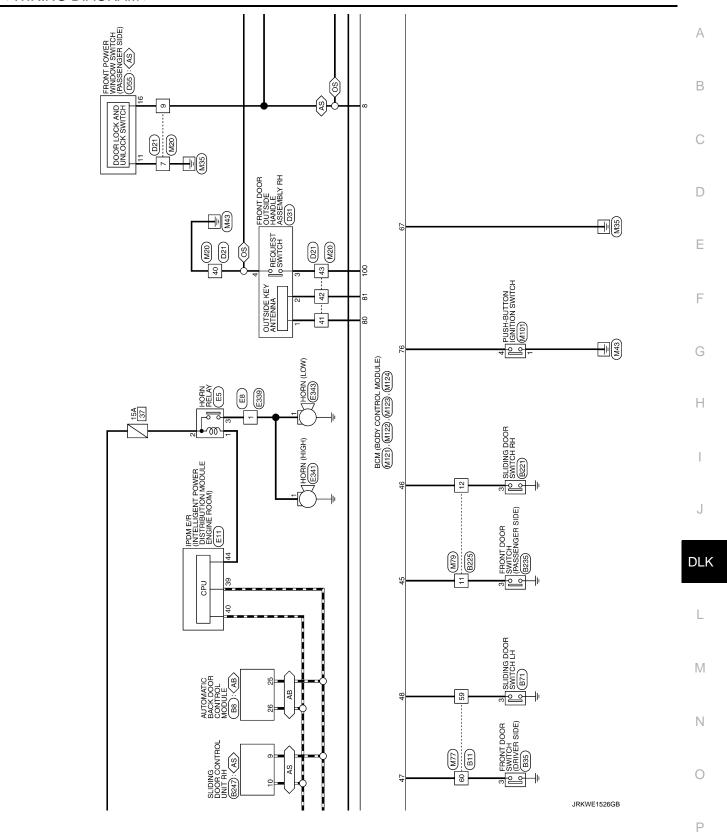
<sup>\*1:</sup> When battery is reconnected, cancellation conditions are unconditionally fulfilled.

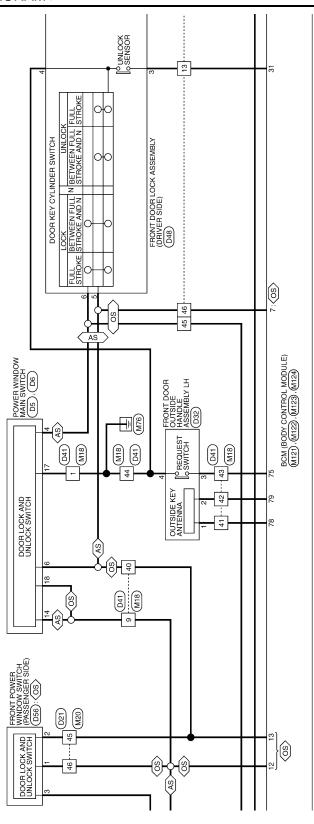
<sup>\*2:</sup> After returning to normal status, auto open/close function does not operate unless sliding door auto closure function is operated.

# WIRING DIAGRAM

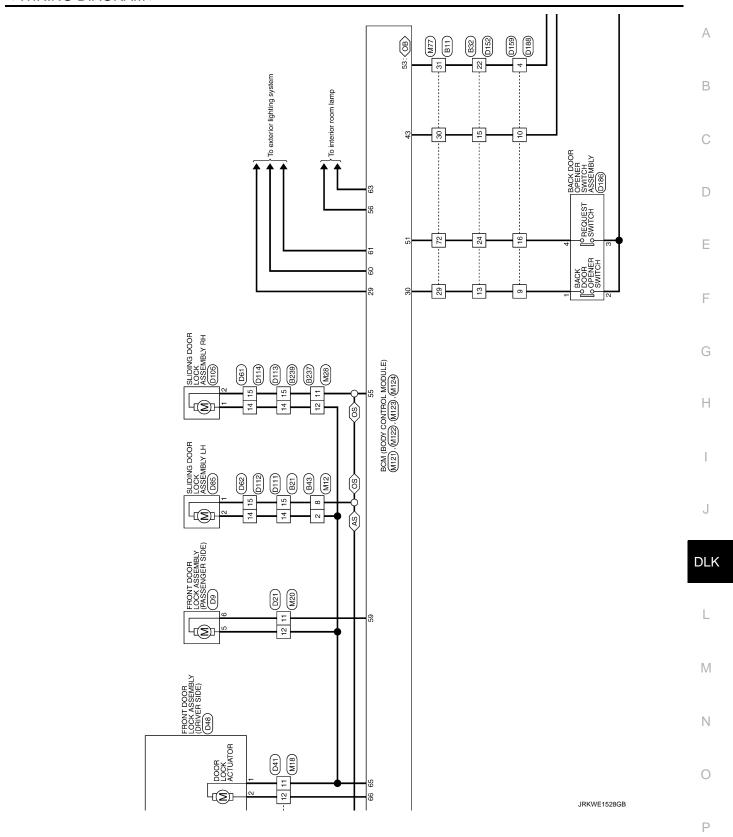
# **DOOR & LOCK SYSTEM**

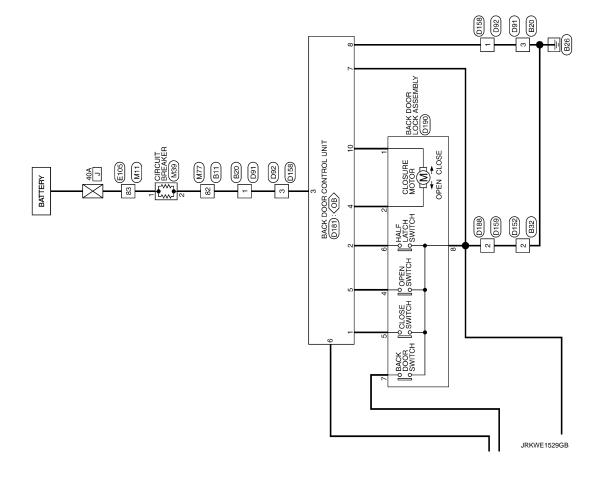






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Connector No.   S21   Connector No.   S22   Connector Name   WRE TO WRE	
10   10   10   10   10   10   10   10	
Connector Name   Bit	
DOOR LOCK SYSTEM   Connector No.   Bis   Connector No.   Bis   Connector Type   Tri20PW-T86   Connector Type   Tri20PW-T86   T	
	JRKWE1530GB

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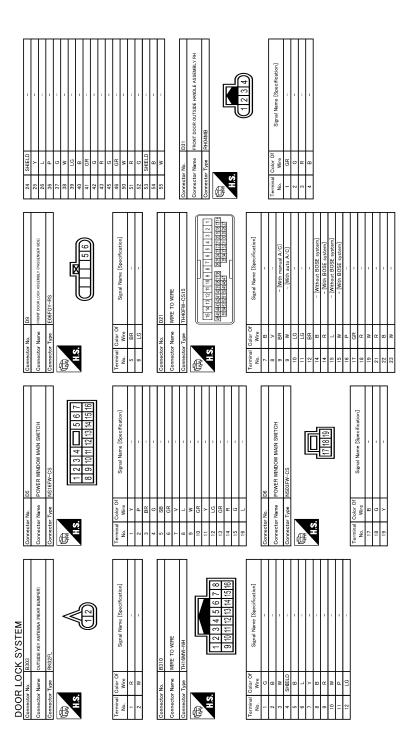
D00	DOOR LOCK SYSTEM				
9	I	Connector No. B35	Connector No.	B45	Connector No. B71
7	Υ -	Connector Name FRONT DOOR SWITCH (DRIVER SIDE)	Connector Name	HI TINIT LONGE CONTROL LINIT IH	Connector Name   SUDING DOOR SWITCH I H
8	B/W -				
6		Connector Type TH04FW-NH	Connector Type	TH32FW-NH	Connector Type TH04FW-NH
10		ſ	(		ú
11	M		E		
12	GR -	K	Ě		K
		-E	ė	1 3 4 5 6 8 9 10 11 12 14 15	
Connector No	No.	3		17 18 19 21 22 23 24 26 27 28	[3]
Collinecto	OF INC.				
Connecto	Connector Name WIRE TO WIRE				
Connecto	Connector Type TH24MW-NH	Terminal Golor Of	Terminal Color Of		Terminal Color Of
		No. Wire Signal Name [Specification]	No. Wire	Signal Name [Specification]	
		3	- 0	MAIN SW	3 GR
(	L		8	KNOB LOCK	
? E	1 2 3 4 5 6 7 8 9 10 11 12		4 GR	A-SIGN	
		Connector No. B43	2 2	HALF LATCH	Connector No. B221
	13/14/15/16/17/18/19/20/21/22/23/24	г	9	IGN	The state of the s
		Connector Name WIRE TO WIRE	8	BUZZER	Connector Name SUDING DOOR SWILCH KH
		Connector Type NS08MW-CS	6	CAN-L	Connector Type TH04FW-NH
Terminal	Terminal Color Of		10 L	CAN-H	
No.	Wire Signal Name [Specification]	4	=	FNCODER POWER	
-			$\frac{1}{1}$	ELEC B	E
٠	1	1 2	ł	OMETOLICH OBEN SW	
7 8		7	╀	NEITBAI SW	
.[		4 2 0 7 0	ł	Wo di Lin	0
,	A .		+	LOEL LID SW	
n	- 1		+	FULL SW	
9	- 8			DRIVER SW	
6	SHIELD -	Terminal Color Of Simul Name [Specification]	21 G	B-SIGN	E O
10	· ·	No. Wire	22 W	HANDLE	No. Wire
11	- 1	- 0	23 B	SW GND	3 GR -
12	- M	2 SB -	24 G	TOUCH SENS	
13		3 FG	26 L	ENCODER GND	
14	-	- A	27 B	GD LOGIC	Connector No. B225
15	- M	- >	F	RR DOOR SW	
16			$\frac{1}{2}$		Connector Name WIRE TO WIRE
2 1	7 0	$^{+}$			Connected Land
	¥	+			٦
18		- 8			ó
19	GR -				
20	- d				
21	M				13.
22	-				
23	9				9 10 11 12 13 14 15 16
24					

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	D
Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)    1   3   4   5   6   8   9   10   11   14   5     10   10   10   10   10     10   10	С
Connector No.   B247	D
	Е
B241  BK02FL  Signal Name [Specification]	F
1 PS24   PS25E KF)   PS   PS25E KF)   PS   PS25E KF)   PS   PS   PS   PS   PS   PS   PS   P	G
Commester Name Commester Type Terminal Color C No. Wire N	Н
- [With manual A C] - [With auto A/C] - [With auto A/C] - [With auto A/C] - [With BOSE system] - [With BOSE system	I
NSI BR39   NSI BR4   NSI B	J
Commetter Name   Color Of Page   Color of Pa	DLK
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-   ╝	M
Terminal   Color Of   Signal Name   Name   Color Of   Signal Name   C	N
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## **DOOR & LOCK SYSTEM**



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Connector Name   Conn	
Connector No.   Dids   Connector No.   Dids   Connector Name   Froyt Door LOCK ASSEMBLY (DRYPER SIDE)	
15   W   — [With BOSE system]   15   R   R   R   R   R   R   R   R   R	
DOOR LOCK SYSTEM   Connector Num   Front Took Outside Asserties ut	
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Revision: 2014 August DLK-131 2015 QUEST

Gonnestor No. D112 Gonnestor Name WIRE TO WIRE	b	S	Terminal Color Of No. 1
- B 9	ν ω σ		Terminal Color Off   New   Signal Mane [Specification]   New   N
Terminal Color Of Signal Name (Specification) No. Wire Wre	Connector No. D91 Connector Name WIRE TO WIRE Connector Type M06FV-LC  TAX	gnal N  With a  With a  With a	Connector Type   M06FV-LC
DOOR LOCK SYSTEM	Connector No. D82 Connector Name WRE TO WRE  Connector Type NS:679-CS  T 6 5 4	Terminal Color Of Nor Color Of Nor Color Of No. Wire Nor Color Of Nor	Connector No. 1085 Connector Nume SLIDING DOOR LOOK ASSEMBLY LH Connector Type SGN02FGY  THS

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H	10 BR OPEN		Connector No. D186	ı	Connector Name BACK DOOR OPENER SWITCH ASSEMBLY	Connector Type TH04MW-NH	1	€.		S	ŀ	1 2 3 4					No. Wire Signal Name [Specification]	α.	2 8 8 2	1				Opposite Na Dates	1	Connector Name WIRE TO WIRE	H	٦.	<b>€</b>	THE THE PARTY NAMED IN COLUMN TO SERVICE AND SERVICE ASSESSMENT OF THE PARTY NAMED IN COLUMN TO SERVICE ASSE		1 2 3 4 5 6 7 8	0 10 11 12 13 14 15 16	7		. 0	Signal Name [Specification]	П		2 > 2	- 0	- a	+	r	<b>1</b>	+	12 W	+	4	15 R -																		
Connector No.   D159	Connector Name WIRE TO WIRE	Connector Lone	and the second s			_	/ 0	16 15 14 13 13 14 10 0	0 1 1 7 0 1 1 0		. 0	ng D		SB	2 B -	- L		× ×	- ac	: 0.	╀		13 CB	5 0		+	A 0-1			ı	Connector Name BACK DOOR CONTROL UNIT	Connector Time NS10FM-08	actor 13be	₫ <u>E</u>		12 13 4	1 0	01 8 7 9 6			Terminal Color Of		2	N CEOSE	5 (	57	>			7 B DR LOCK STATUS																		
Terminal Color Of			1 0		- \	- FG	SHEID		: 0	£ 0	- B ZI	r	o	$\dashv$	- 0 91	L	18 GR	88	50	, =	} >	- M	+	1		03 PG		Connector Name WIRE TO WIRE	F	٦.	<b>4</b>		H.S.		4 5 6				Signal Name [Specification]	П			t	1	+		- B																					
DOOR LOCK SYSTEM	14 GR -	15 GR	-		Connector No. D114		Connector Name WIRE TO WIRE	Commenter Time NC16MM=CC	and the second s	₫.		103 4 5 6 7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	8 9 10 11 12 13 14 15 16	2				No. Wire Signal Name [Specification]	- M	T	- a		+	2 0x	4	4	- >	4	4	4	4		63-74 -W-11-1		Connector Name MIRE TO WIRE		Collifector Type TTZ+FWFTMT	4		H.S.	1	24 23 23 24 20 14 14 14 14 14 14																									

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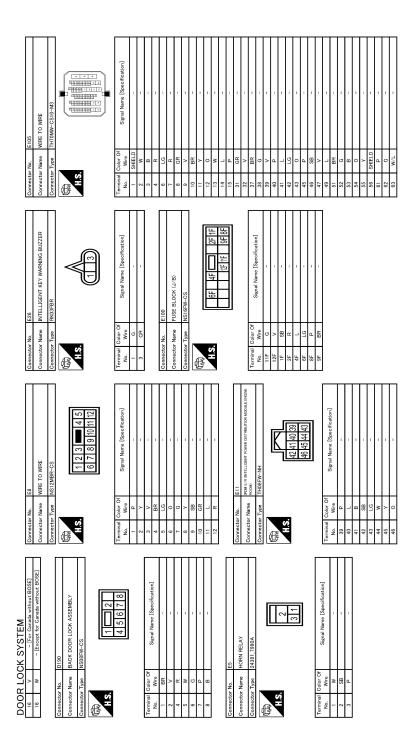
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11 SB		H
No.   Wire   Stippal Name Especification	12   V   O'T FLUID TEMPERATURE SENSOR	6 L -
Connector Name HORN (HIGH) Connector Type PDI FB-A	Terminal Color Of   Signal Name [Specification]   1   0	
N N N N N N N N N N N N N N N N N N N	75   88	

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DOOR	ŏſ	:					:	,	
Connector No.	o. M8	13	-	- [With automatic drive positioner]	Connector No.	M12	12	9	ı
Connector Name	ame FUSE BLOCK (J/B)	4 5	_ a	1 1	Connector Name	ne WIRE TO WIRE	£ 1	o a	- [Without BOSE evertem]
Connector Type	MS12FW-CS	3 2	. «		Connector Type	NS08FW-CS	= =	œ	- [With BOSE system]
	1	32	P	1	֓֞֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	1	15	3	- [With BOSE system]
修		37	BR	- [With automatic drive positioner]	修		15	Υ	- [Without BOSE system]
Ě		37	Α	- [Without automatic drive positioner]	Ę	1010	16	×	1
į	1	38	œ	1	į	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	17	띪	1
	120 110 100 90 80 70 60	39	H	- [Without automatic drive positioner]		8 7 6 5 4	18	۵	1
		39	>	<ul> <li>[With automatic drive positioner]</li> </ul>			19	>	1
		40	۵	1			20	9	1
		41	-	1			21	۵	1
ig O	lor Of Signal Name [Specification]	42	g	1	ig O	r Of Signal Name [Specification]	22	g	ı
+		43	*	1	No. Wi		23	œ	1
4	TG	45	a.	1	-	-	24	ш	1
110		46	>	1	2		25	×	ī
+		47	~	1	3		56	SHIELD	1
$\dashv$	GR -	49	G		e	P - [With automatic drive positioner]	27	>	
-	GR –	21	g		4	B	28	g	
9C	- 5	52	W	-	5	-	29	W	-
90		53	В	-	9		30	œ	_
		54	57	1	7 S	- as	31	м	1
		22	_		8	1	32	g	
Connector No.	o. M11	56	SHELD				33	BE	1
	Γ	61	œ	1			34	۵	1
Connector Name	ame WirkE TO WirkE	62	Α	1	Connector No.	M18	35	×	1
Connector Type	rpe TH70FW-CS10-M3	63	m	1		Γ	36	2	1
ľ		64	۸	1	Connector Name		37	м	ı
		99	М	1	Connector Type	HH40MW-CS15	38	а	ı
É		67	BR	-	4		39	^	-
2		69	Ь	-	追		40	œ	-
	49 : 48 : 2 :	71	œ	1	Ę	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	14	В	1
	23	72	٦		2	Superior in the positional proposition in the participation in the parti	45	*	-
	¢	73	P	1		727 78 79 79 79 71 71 71 71 71 71 71 71 71 71 71 71 71	43	g	1
	3	74	>-	1			44	В	1
al	Color Of Signal Name [Specification]	75	>	1			45	В	- [With around view monitor]
No.		76	>				45	g	- [Without around view monitor]
1	SHIELD -	7.7	۵	1	la C	r Of Signal Name [Specification]	46	œ	<ul> <li>[Without around view monitor]</li> </ul>
2		78	BR	1	No. Wi	Wire	46	>	- [With around view monitor]
က		80	≻	1	-		47	GR	1
4		81	W		2	R -	48	GR	=
9	- <u>5</u>	82	٦	-	3	M	49	Д	- [Without automatic drive positioner]
7		83	œ	-	4		49	œ	<ul> <li>[With automatic drive positioner]</li> </ul>
8	- 5				5 S	SB -	20	GR	<ul> <li>[With automatic drive positioner]</li> </ul>
6					9		20	Α	- [Without automatic drive positioner]
10					7		51	В	- [Without automatic drive positioner]
=					8	-	21	G	<ul> <li>[With automatic drive positioner]</li> </ul>
12	L - [Without automatic drive positioner]				9	GR -	52	æ	- [Without automatic drive positioner]
Н	LG - [With automatic drive positioner]				$\dashv$		25	۵	<ul> <li>[With automatic drive positioner]</li> </ul>
13	G - [Without automatic drive positioner]				11	- ^	23	SHIELD	-

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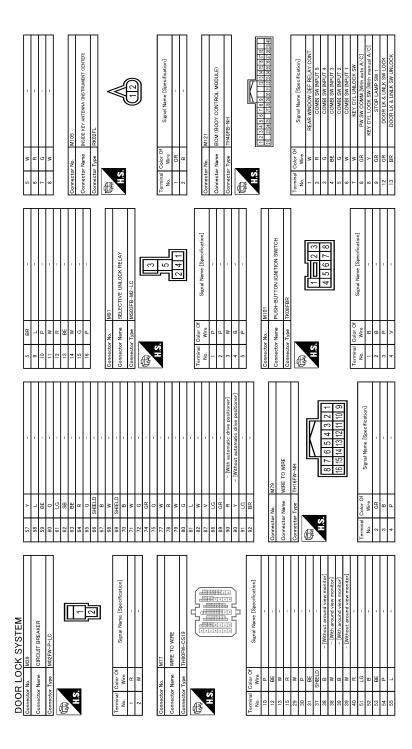
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Connector Name   MRE TO WIPE	
St   B   St   St   St   St   St   St	
DOOR LOCK SYSTEM   155   18   19   10   11   25   18   19   11   25   19   19   19   19   19   19   19   1	
	JRKWE1540GB

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Color Of Signal Name [Specification]			1	P [For Rear Display Unit without auto recirculation]	V - [Except for Rear Display Unit without auto recirculation]						BR		-	_	- 8	SHIELD -			-	. R108	me REMOTE KEYLESS ENTRY RECEIVER	THOUGH	1			1	1 2 4			Color Of	Wire Signal Name [Specification]	BR BAT	L SIGNAL GROUIND																
-8	No. Wi	-	2 S	3	3	4	9	7	8	H	10	╀	12	ŀ		Н	16 \			Connector No.	Connector Name	1	Connector 13th	d d		Ś				Terminal Colc		-	2 4	┨															
Signal Name [Specification]	,	ONI NO	DR DOOR REQ SW	PUSH SW	DR DOOR ANT+	DR DOOR ANT-	PASS DOOR ANT+	PASS DOOR ANT-	REAR BMPR ANT+	REAR BMPR ANT-	ROOM ANT1+	ROOM ANT1-	ROOM ANT2+	ROOM ANT2-	LAGGAGE ROOM ANT+	LAGGAGE ROOM ANT-	PUSH-BTN IGN SW ILL PWR SPLY	LOCK IND	PUSH-BTN IGN SW ILL GND	I-KEY WARN BUZZER	ACC RELAY CONT OUTPUT	JON DELAY (JONE 78) CONT	IGN RELAY (F/B) CONT OUTPUT	PASS DOOR RED SW	IGN PWR SPLY 2	NOITISON NA	CVT SHIFT SELECT PWR SPLY	STOP LAMP SW 2	BLWR RELAY CONT OUTPUT	ACCIND		R106	WIRE TO WIRE	TH16MW-NH				1 2 3 4 5 6 7 8	40 44 40 40 44 45	01									
0	Wire	g	ŋ	>	В	W	GR	BE	O	œ	GR	8	*	BE	GR	В	Ь	Μ	В	œ	# #	≥ 0	ی ا	╀	-		٦	4	4	r		Connector No.	Connector Name	Connector Type		_	Š	3											
Termina	ė.	73	75	16	78	79	8	8	82	83	88	855	98	87	88	88	90	91	92	93	96	6	66	3 2	101	102	104	105	106	109		Conne	Conne	Conne	Q	手	4												
SL DOOR LH UNLK CONT			M123	BCM (BODY CONTROL MODILLE)	DOM (DOD) CONTROL MODOLE)	FEA09FW-FHA6-SA				<b>→</b> 56 57 58 59 60 61 62 63 64	65 65 67 68 60 70	00 01 00 00			3	Signal Name [Specification]	INT ROOM LAMP PWR SPLY	BAT	AIR BAG	PASS DOOR UNLK OUTPUT	TURN SIG LH OUTPUT	STED LAMD CONT	INT ROOM LAMP CONT	CRANK RED	ALL DOOR LOCK OUTPUT	DR DOOR UNLK OUTPUT	GROUND	PWR SPL)	PW PWR SPLY (BAT)	BAT		M124	BCM (BODY CONTROL MODULE)	TH40FW-NH				73 75 76 78 79 80 81 82 83 84 85 88 87 88 89 90	ST   SEC   SEC										
O		1	-	Connector Name		Г				·					I Color Of	Wire	Ь	×	0	88	> <	5 3	e a		: >	g	В	_	۵.	7		Ш	Connector Name	tor Type			72	4											
22			Connector No.	Connect		Connector Type				S.					Terminal	No.	26	27	28	28	9 3	0	63	8 8	92	99	67	89	69	0/		Connector No.	Connect	Connector Type	Q	手	\ \ \ \ \												
	REAR WINDOW DEF SW	DIMMER	SENS PWR SPLY	RECEIV/SENS GND	NATS ANT AMP.	SECURITY IND CONT	DONGLE LINK	NATS ANT AMP.	A/C ON	BLOWER FAN ON	HAZARD SW	BK DOOR OPINE SW	DR DOOR UNLK SENS	COMBI SW OUTPUT 5	COMBI SW OUTPUT 4	COMBI SW OUTPUT 3	COMBI SW OUTPUT 2	COMBI SW OUTPUT 1	DETENT SW	RECEIVER COMM	CAN-H	CAN-L		M122	(1 m 2007) COLLEGE (2007) 1000	BCM (BODY CONTROL MODULE)	FEA09FB-FHA6-SA			43 44 45 46 47 48 49	50 51 53 54 55	100		L	ografikanie [Specification]	BK DOOR SW	REAR WIPER STOP POSITION	PASS DOOR SW	SE DOOR RH SW	DR DOOR SW	SL DOOR LH SW	LUGGAGE LAMP CONT	BACK DOOD DECK	BACK DOOR REGISM	BK DOOK OPEN	REAR WIPER OUTPUT			
	Μ	>	٥	œ	GR	Α	8	۵	0	BR	۵	_	ı o	œ	Μ	۵	GR	œ	g	닒	_ (			Connector No	ı	tor Name	Connector Type			ιά	ı				Wire	; ۵	g:	× (	r	9 1	ä,	m ;	> (	5 6	ž d	~			
3 =	12	16	2	18	21	23	54	22	27	28	58	e	31	32	33	34	35	36	37	88	39	₽		1 security	1	onnect	nnect	1	B	H.S.				Terminal	Š	43	44	42	ş .	4	ε 1	69	2 2	5	22	54			

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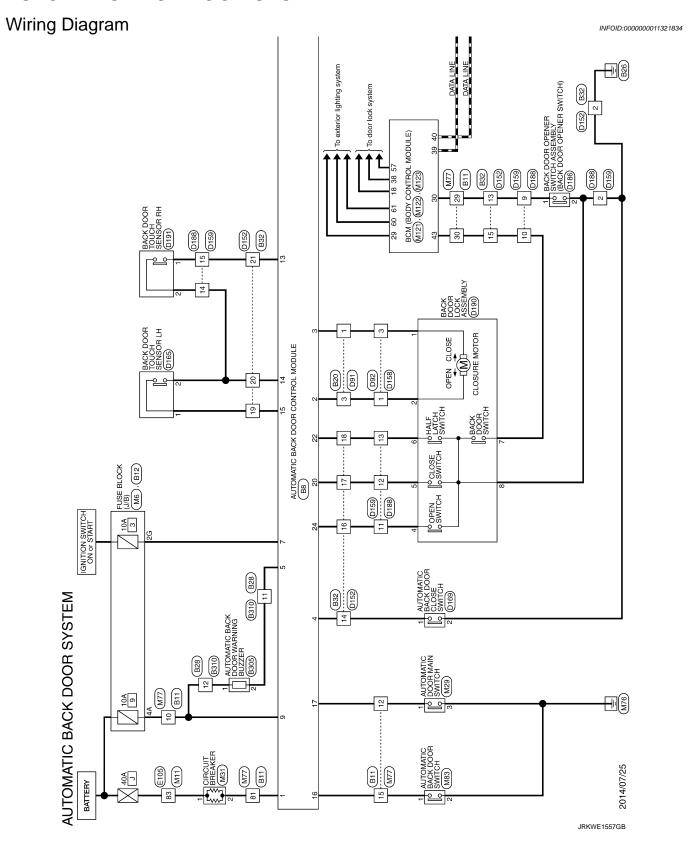
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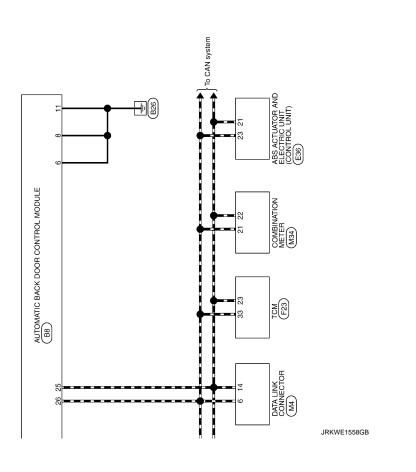
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# **AUTOMATIC BACK DOOR SYSTEM**





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AUTOMAT	AUTOMATIC BACK DOOR SYSTEM	Connector No	No.	18	78	ď		Ē	Tarminal Color Of	č		Γ
		00			0/	3 8	1	Ī		5 ,	Signal Name [Specification]	
Connector Name	AUTOMATIC BACK DOOR CONTROL MODULE	Connec	Connector Name	WIRE TO WIRE	80	B B	1	<u> </u>	+	, .	- [With automatic back door]	I
Connector Type	TH20FW-TB6	Connect	Connector Type	TH80MW-CS19	81	SB	1		-	L	- [Without automatic back door]	
		٥			82	^			2 B	_	-	
_		B			87	g	-		3 BR	æ	- [With automatic back door]	
Ě		Į	,		88	>	1		3 GR	œ	- [Without automatic back door]	
9	11 987654 3 2 1		9		88	g	1	_	γ ,		1	1
	26 25 24 22 20 7				06	>-	1	 	+		1	1
					91	LG L			9			1
		į						<u>ا</u> ا	1	8		Γ
No. Wire	Signal Name [Specification]	No.	Wire	Signal Name [Specification]	Connector No.	- No. B12	.5	Š,	Connector No.	828		T
SB	8+	10	GR	1	Occupation Name		Elist Block (1/b)	3	Connector Name		O WIRE	
BR	LATCH MTR CLOSE	12	g	1		┑	מבר מברסכו (מ' מ')	Š	Connector Type	e TH16FW-NH	W-NH	
٦	LATCH MTR OPEN	13	۵	1	Connector Type	П	NS12FBR-CS	[q				
۵	INSIDE CLOSE SW	15	-		ą			B			[	
>	BUZZER	58	1	-	手			_	Ĕ			
ω (	NAM-FUNC-FLG	30	4	-	S		5646	•	3		8 7 6 5 4 3 2 1	
	## ## ##	5 5	1								44 40 40 44	
n 5	GROUND	3/	SHELD	1			126 106				10 10 14 13 17 11 10 9	
jα	CNIONS	8 8	£ a	,						•		
>	TOUCH SENS RH	9	>	-				ie.	Ferminal Color Of	þ		Γ
۵	TOUCH SENS GND	5	>-	1	Terminal	Color Of	8			e e	Signal Name [Specification]	
GR	TOUCH SENS LH	25	8	-	No.	Wire	ognal Name [Specification]		۱ ۸	_	1	
٦	DRIVER SW	23	9	-	10G	Υ	-		2 W/R	В	-	
5	MAIN SW	24	۵	1	12G	>	1		3 B/R	œ	1	
œ	CLOSE SW	22	_		2G	۵	1		4 SHIELD	an	1	
м	HALF LATCH SW	22	>		46	۵	1		5 B/W	W	1	
g	OPEN SW	28	_	1	50	×	1	_  	9 P		ı	
۵	CAN-L	28	æ	1					+		1	T
٦	CAN-H	9	-	1		ſ			_	W	ı	T
		9	>	1	Connector No.	. No. B20	50		4	~	1	T
		62	æ	1	Connector Name		WIRE TO WIRE		+		1	Т
		63	-	1		Т			+		1	Т
		64	>	1	Connector Type	П	M06MW-LC	_  	12 GR	œ	1	٦
		65	œ		þ							
		99	SHELD	1	手							
		67	ω :	1	<b>S</b> # <b>S</b>		0					
		88	8	1		_	1 2 3					
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## **AUTOMATIC BACK DOOR SYSTEM**

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Connector No.  D152 Connector Type T12 [1] [10 9 8 7 6 5 4 3 2 1  Z4 [23 [22 [21 [20] 19] 18] T16 [15] 4 [15]	Wive   Signal Name [Specification]	B C D
Conne	Temping No. 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Е
LC 3 2 1 6 5 4	Signal Name (Spacefication)  - [With automatic back door] - [Without automatic back door]	F
No. D91 Nume WIRE TO WIRE Type M00FW-LC	NAME T 1	G
Connector No. Connector Type	Terminal Color Of   1   W   W   W   W   W   W   W   W   W	Н
REGISTANTO BACK DOOR WARNING BUZZER RROZEBR	Signal Name (Specification)	I
9 8	1 H H MW F T T T T T T T T T T T T T T T T T T	
Connector No. Connector Name Connector Type	Terminal   Color C   1	DLK
DR SYSTEM	Signal Name (Specification)	L
IC BACK DOC BB2 WIRE TO WIRE TH24ANW-INH	Signal Nama (Signal Nama (Signa) Nama (Signal Nama (Signal Nama (Signal Nama (Signal Nama (Signa	M
ector Name ector Type		Ν
AU.	Terminal No. 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 2 3 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3 2 3	0
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**DLK-143 2015 QUEST** Revision: 2014 August

## **AUTOMATIC BACK DOOR SYSTEM**

Connector No. D190 Connector Name BACK DOOR LOCK ASSEMBLY Connector Type NS08FW-CS	H.S. 11 12 14 5 6 7 8	Terminal   Color Of   Signal Name [Specification]	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Gennector No. D191 Connector Nume BAOK DOOR TOUCH SENSOR RH Connector Type ITAIZMOY	11S	Terminal Color Of No. Wire Signal Name [Specification]	2 GR -				T	SE]	
Connector No. D186 Connector Name BACK DOOR OPENER SWITCH ASSEMBLY Connector Type THO4MW-NH	H.S. 1234	Terminal Color Of   Signal Name (Specification)   No.   Wire	4 W – Connector No. D188 Connector Name WIRE TO WIRE		1 2 3 4 5 6 7 8   1 8   1 2 1 4 5 6 7 8   1 8	2 B B C C C C C C C C C C C C C C C C C	BR R	L α ≥	Н	14 GR -	+	0 - M	
Connector No. D165 Connector Name BACK DOOR TOUCH SENSOR LH Connector Type TR02MM	H.S.	Terminal Color Of Signal Name (Specification) 10. Whe 1 Signal Name (Specification) 2 0 -	Connector No. D189 Connector Nume AutroAx10 BACK DODR DLOSE SWITCH Connector Type PAOSECY	H.S.	Terminal Color Of   Signal Name (Specification)   No. Wire   Signal Name (Specification)   2 B   2 B   3 W	LG LG							
AUTOMATIC BACK DOOR SYSTEM Connector No. D158 Connector Name WIRE TO WIRE Connector Type MOMMW-LC	H.S. 456	Terminal   Color Of   Signal Name   Specification   Nine   Nine	BR -   With automatic back door]	Connector No.         D158           Connector Name         WIRE TO WIRE           Connector Type         TH16FW-NH	H.S. 8 7 6 5 4 3 2 1 16 15 14 13 12 11 10 9	Terminal Golor Of Signal Name [Specification]	₩	A → → □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	H	0	13 GR -	Н	_

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## **AUTOMATIC BACK DOOR SYSTEM**

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Signal Name (Specification)	В
28   W/B   TORROLE CONVENTER CLUID   29   W/B   20   20   20   20   20   20   20   2	D
723   723   723   723   723   724   724   724   724   724   725	E
1	G H
Signal Numer Space (Feetbook)	ı
Connector No. E105 Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Type W W W. Wire 1 SHELD 2 SEA 3 S S S S S S S S S S S S S S S S S S S	J DLK
SYSTEM  Fine (14)  Fin	L
Commercior Num.   E186	M
AUC Commetto	0

**DLK-145** Revision: 2014 August **2015 QUEST** 

# **AUTOMATIC BACK DOOR SYSTEM**

E E 4	- [Without automatic drive positioner]	Connector No. M29		Connector No.	Vo. M34 Anne COMBINATION METER	
> -	- Mith automatic drive positioner	_				
		Connector Name AUTOMATIC DOOR MAIN SWITCH	IN SWITCH	Connector		
15 P	1	Connector Type TK08FW		Connector Type	ype TH40FW-NH	
۳	1	q		q		
9	1	国		医		
₩ ≥	- [With automatic drive positioner]	H.S.	-	H.S.		
38		0 3	E		12345 8 101112	13 14 15 16 18 19 20
F	- [Without automatic drive positioner]	<u> </u>			2122224253273333 313	34 35 36
39 ⊀	- [With automatic drive positioner]					
40 P	1					
41 L	1	Terminal Color Of	[	Terminal C	Color Of	100-11-12
42 G	-	No. Wire	Specifications	No.	Wire Signal Ivalie Caper	omeanony
43 W	1	1 BE		-	BATTERY POWER SUPPLY [With automatic drive positioner]	utomatic drive positioner]
45 P	ı	2 GR		-	P BATTERY POWER SUPPLY [Without automatic drive positions	automatic drive positioner]
^	-	3 B	_	2	G IGNITION SIGNAL [Without auto	omatic drive positioner]
œ	-	4 P		2	Y IGNITION SIGNAL [With autor	natic drive positioner]
49 G	1			3	B GROUND	0
g	1			4	B GROUND	
52 W	1	Connector No. M31		2	B ILLUMINATION CONTROL SIGNAL [Without automatic drive pos	ut automatic drive positioner]
53 B	1			2	B/P ILLUMINATION CONTROL SIGNAL [With automatic drive pos	automatic drive positioner]
54 LG	-			8	G THIP RESET SWITCH SIGNAL [Without automatic drive posit	automatic drive positioner]
25 L	-	Connector Type M02FW-P-LC		8	SB TRIP RESET SWITCH SIGNAL [With automatic drive position of the control of the	automatic drive positioner]
56 SHIELL	1	4		10	P METER CONTROL SWITCH GROUND	ITCH GROUND
œ	1		П	11	G ENTER SWITCH	SIGNAL
62 W	-		_	12	BR SELECT SMTCH SIGNAL [With automatic drive position	stomatic drive positioner]
63 B	1	i i		12	R SELECT SWITCH SIGNAL [Without automatic drive posi	utomatic drive positioner]
Α.	1	냥	7	13	W ALLAMATTON CONTING SHITCH SIZABL (+) (Without automatic	Other automatic dive positioned
$\dashv$			<u></u> 1	13	Y ELLUMINATION CONTROL SMTCH SIGNAL (+) (With successful drive	(With automatic drive positioner)
$\dashv$		1	1	14	G LLUMBATTON CONTROL SHITCH SIGNAL (-) [Milkot sutomatic	Wheat automatic dies positioned
	1			14	V LLUMINATION CONTROL SMITCH SIGNAL (-) (#61- act	(With automatic drive positioner)
œ	-	nal Color Of	Snacification	15	BR AIR BAG SIC	SNAL
72 L	1	Wire	Tipopanio de la companio della compa	16	L ENGINE COOLANT TEMP	ERATURE SIGNAL
73 LG	ı	- 8		18	L AMBIENT SENSOR SIGNAL [Without automatic drive posi-	automatic drive positioner]
74 Y	1	2 L		18	LG AMBIENT SENSOR SIGNAL [With automatic drive positioner	utomatic drive positioner]
75 Y				19	R A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL	RECOGNITION SIGNAL
۸ 92	-			20	G AMBIENT SENSOR GROUND (Without automatic drive positioner	automatic drive positioner]
77 P	1			20	Y AMBIENT SENSOR GROUND (With automatic drive positioner	sutomatic drive positioner]
78 BR	п			21	L CAN-H	
۸ ۸	1			22	P CAN-L	
Μ	1			23	B GROUND	
82 L	1			24	B FUEL LEVEL SENSOR GROUND	OR GROUND
83 R				25	BR ALTERNATOR SIGNAL [With automatic drive positione	omatic drive positioner]
				25	W ALTERNATOR SIGNAL [Without sutomatic drive position	atomatic drive positioner]
				26	BR PARKING BRAKE SWITCH SIGNA	ITCH SIGNAL
				27	BE BRAKE FLUD LEVEL SWITCH SIGNAL [West	reut automatic dive positioner)
				27	Y BRAKE FLUID LEVEL SMITCH SIGNAL (With automatic drive	fith automatic drive positioned
				28	V SECURITY SI	GNAL
				59	G WASHER LEVEL SWI	TCH SIGNAL
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Connector No.   M31	1   2   1   1   1   1   1   1   1   1	Cornector No.   MS1	Connector Name   Cloth of Part

JRKWE1563GB

## **AUTOMATIC BACK DOOR SYSTEM**

Connector Name   BOM (BOY) CONTROL MODULE	
Connector Name   BCM (BODY CONTROL MODULE)	
67   8   68   68   68   68   68   68	
AUTOMATIC BACK DOOR SYSTEM  31	
	JRKWE1564GB

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AUTC	MAT	AUTOMATIC BACK DOOR SYSTEM
64	Μ	CRANK REQ
92	^	ALL DOOR LOCK OUTPUT
99	9	DR DOOR UNLK OUTPUT
67	В	GROUND
68	٦	PW PWR SPLY (IGN)
69	Ь	PW PWR SPLY (BAT)
20	٦	BAT

JRKWE1565GB

## INTEGRATED HOMELINK TRANSMITTER SYSTEM

< WIRING DIAGRAM >

# INTEGRATED HOMELINK TRANSMITTER SYSTEM

Wiring Diagram

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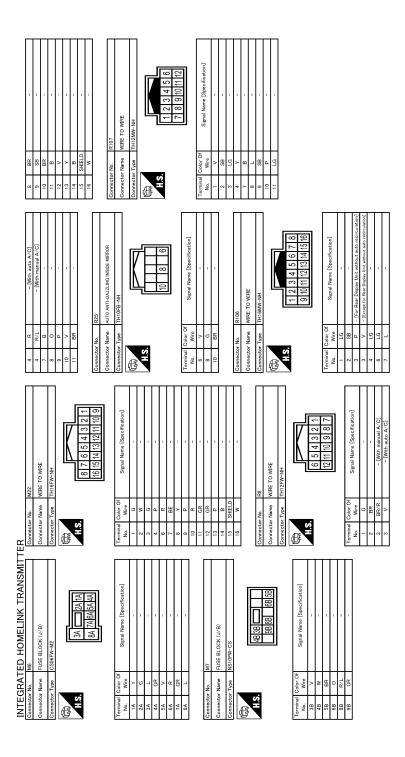
Р

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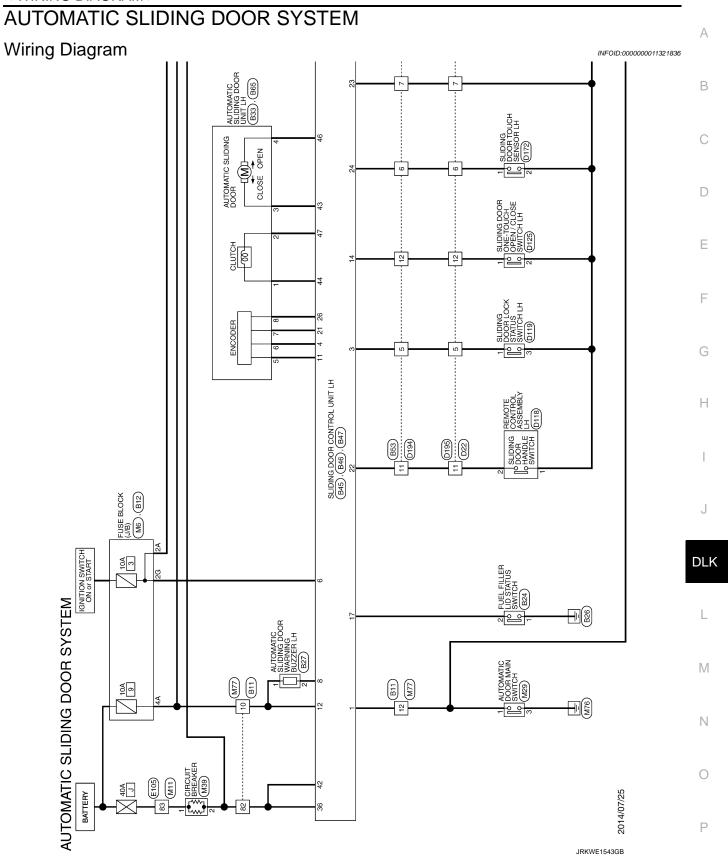
2014/07/25

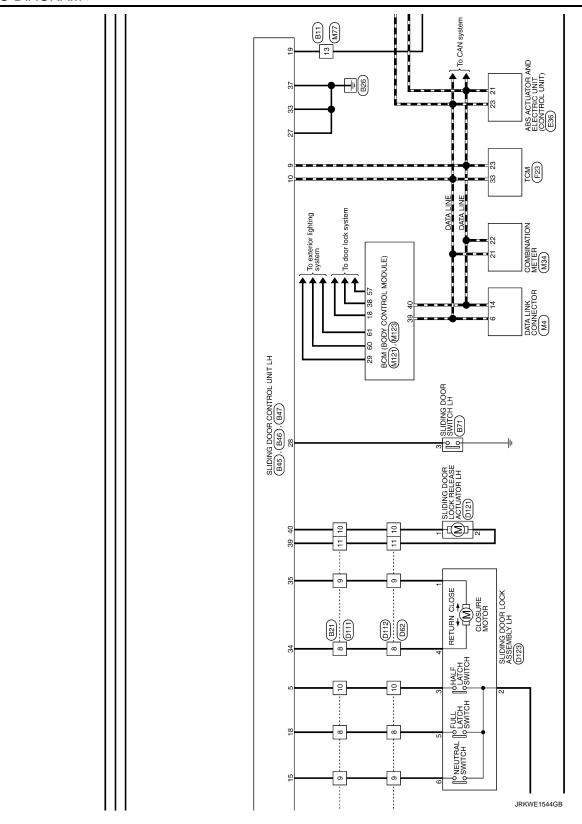
INTEGRATED HOMELINK TRANSMITTER

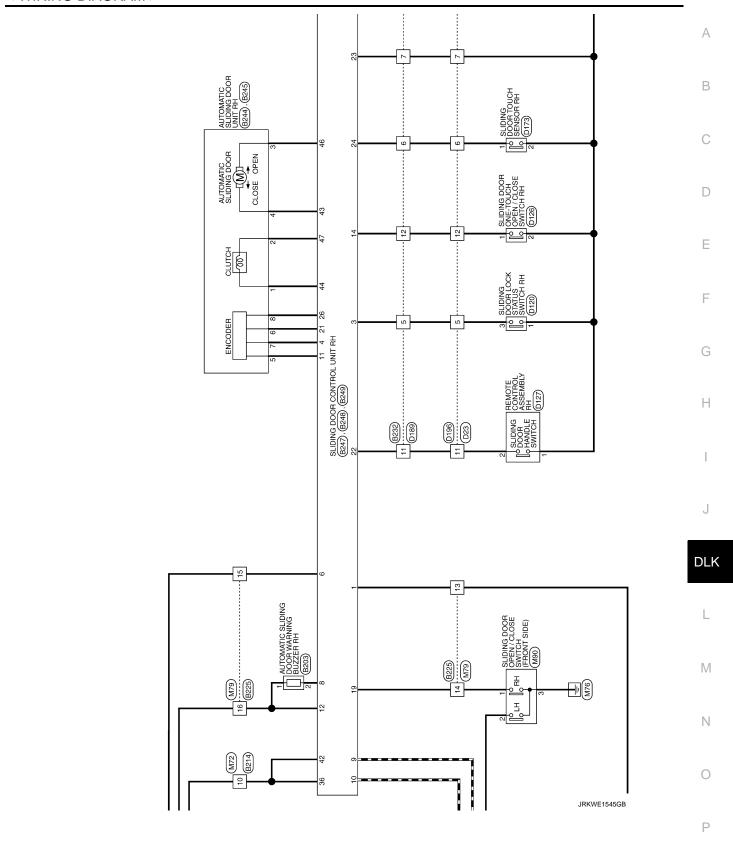
## INTEGRATED HOMELINK TRANSMITTER SYSTEM

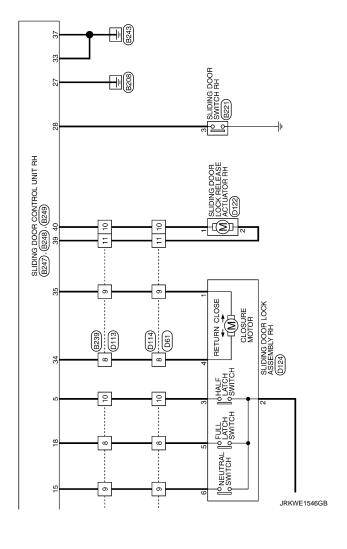


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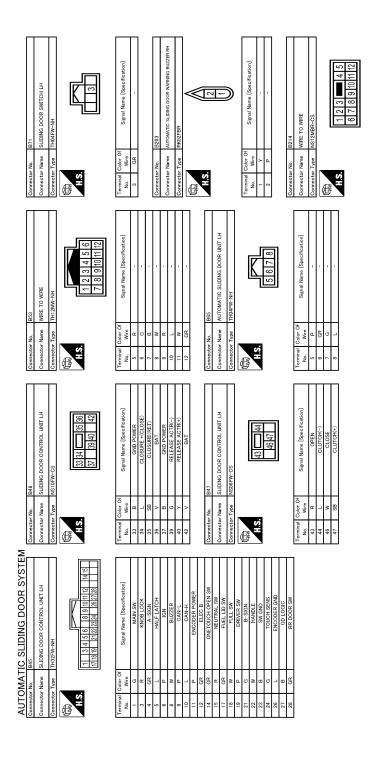


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Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)  Signal Name (Specification)  CULTICH/NET-1  MOTOR/RET-1  MOTOR/RET-1  MOTOR/RET-1  MOTOR/RET-1	В
Connector No. B27 Connector Name AUTOMATIO S RMCATER Terminal Color Of Terminal Color Of Terminal Color Of No. Wire ST. Connector Name AUTOMATIO Color Of Name AUTOMATIC COLOR OF Name AUTOMAT	D
Signal Name (Specification)  - Workboat BOSE system)  - Work BOSE system)  - Thurs I D STATUS SWTCH    Thurs I D STATUS SWTCH   Thurs I D STATUS SWTCH	E F
Color Of   Wire   Wir	G
10   10   10   10   10   10   10   10	J
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Solution of the state of the st	M
AUTOMATIC Connector No.  Connector No.  No.  Connector Name  Night  Connector Name  Connector	Ν
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**DLK-155 2015 QUEST** Revision: 2014 August



JRKWE1548GB

1   2   3   4	В
Connector No.   E245	D
	Е
Signal Name (Specification of Specification of Specificat	F
Terminal Color Of No. 19 Wre No. 19 Wre No. 19 Wre No. 19 Wre S. 2 Y Y S. 5 Y Y S. 5 Y Y S. 6 Wre No. 10 O O O O O O O O O O O O O O O O O O	Н
TO WIRE    1 2 3 4 5 6 7 8 9 10 [1 1 2 ] 3 4 5 6 7 8 9 10 [1 1 2 ] 3 4 5 6 7 8 9 10 [1 1 2 ] 3 4 15 [6 7 8 9 10 [1 1 2 ] 3 4 15 [6 7 8 9 10 [1 1 2 ] 3 4 15 [6 7 8 9 10 [1 1 2 ] 3 4 15 [6 7 8 9 10 [1 1 2 ] 3 4 15 [6 7 8 9 10 [1 1 2 ] 3 4 15 [6 7 8 9 10 [1 1 2 ] 3 4 15 [6 7 8 9 10 [1 1 2 ] 3 4 15 [6 7 8 9 10 [1 1 2 ] 3 4 15 [6 7 8 9 10 [1 1 2 ] 3 4 15 [6 7 8 9 10 [1 1 2 ] 3 4 15 [6 7 8 9 10 [1 1 2 ] 3 4 15 [6 7 8 9 10 [1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1 1 1 2 ] 3 [4 8 9 10 [1 1	I
9   L   11   28   12   13   14   14   15   15   15   15   16   16   16   16	DLK
offication]	L
AUTOMATIC SLIDING DOOR SYSTEM    No.   Window   Signal Name   Specification    1	M
Terminal Color Of No.   Diagram   Mine of Diag	N
	JRKWE1549GB

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000	n age	t	+	╀	- 14	15 ×	. 0	4		1	Connector No. DIII	Connector Name WIRE TO WIRE		Connector Type NS16FW-CS				7 6 5 4 3 2 1	16 15 14 13 12 11 10 9 8				Terminal Color Of	No. Wire Signal Name [Specification]	t	- c		+	- BR -	7 6	- 2	- E	10 Y	II	14 GR –		- d 91														
700 17 . 0	Connector No.	Connector Name WIRE TO WIRE	Connector Type NS16FW-CS				7 6 5 4 3 2 1		16 15 14 13 12 11 10 9 8				ام ام	No. Wire	1 L - [Without BOSE system]	1 W - [With BOSE system]	a [Without BOSE system]		> 1	ı ı	7 SB	- BB	Α 6	- U	╀	+		+	16 GR -			Connector No. D62	Owner Name TO IMPE		Connector Type NS16FW-CS				1 7 6 7 4 6 0 7	18 15 14 13 12 11 10 0 8				Terminal Color Of	No. Wire Signal Name [Specification]	1 - [Without BOSE system]	1 W - [With BOSE system]				- a
E	Connector No. D22	Connector Name WIRE TO WIRE	Connector Type TH12MW=NH	٦.		ALT.		1 2 3 4 5 6	0 0 0	7 1 1 0 8 0 7			Terminal Color Of Science Mana [Secarification]	No. Wire	PT	- 25	1	D ≥	2 1	r 2	- 0	12 W =			Connector No D23	Τ	Connector Name WIRE TO WIRE		Connector Type TH12MW=NH	ģ			1001	0 0 + 0 7	7 8 9 10 11 12			Terminal Color Of Simul Manual Constitution	No. Wire Ogran reme Copermonation	- FIG	- GR	7 B	- M 8	a.	╀	┞	╀	1			
TOMATIC SLIDING	n	26 GR ENCODER GND	; e	+			Population No. Dodgo	Ī	Connector Name SLIDING DOOR CONTROL UNIT RH		Connector Type NSTUFW-CS	ą́		70 00	33 34 30 30	27 30 AN				<u>a</u>	No. Wire	33 B/R GND POWER	a DIO	ď	, >	0/0	2 .		O RELEA	42 Y BAT			Connector No. B249	I I I I I I I I I I I I I I I I I I I		Connector Type NS06FW-CS	(		[	43 64	17 34				Terminal Color Of	No. Wire Signal Name [Specification]	43 B OPEN		W	╀	

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Terminal Color Office Signal Name [Specification]  Terminal Color Office Signal Name [Specification]	B C D
Terminal Color Of Signal Name (Specification)  1 B	E F G
11   Y	J
AUTOMATIC SLIDING DOOR SYSTEM   Connector Nume   WIRE TO WIPE	L M N
	JRKWE1551GB

**2015 QUEST** 

**DLK-159** 

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AUTOMAT	AUTOMATIC SLIDING DOOR SYSTEM	Connector No.		
Connector Name Connector Type	SLIDING DOOR LOCK ASSEMBLY LH RS06FGY-PR	Connector Name SLDNG DOOR ONE-TOUCH OPEN / CLOSE SWITCH LH Connector Type RH02FB	Connector Name REMOTE CONTROL ASSEMBLY RH Connector Type TH04MW-NH	Connector Name SLIDING DOOR TOUCH SENSOR RH Connector Type RH02MB
H.S.	4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	HS.	4.5	HS.
No. Wire 1 W 2 B 3 R A B B A B A B A B A B A B A B A B A B	Signal Name [Specification]	Terminal Color Of   Signal Name [Specification]   Wire   Wire   W	Termina   Color Of   Signal Name [Specification]   No.   Wire	Terminal Color Of   Signal Name [Specification]   No. Wire   T GR   - 2 B   - 2
£0 ≥ 0.		Connector No. D128 Connector Name account one Touch orest Octobs SWITCH B4 Connector Type RHD2FB	Connector No. D172 Connector Name SLDING DOOR TOUCH SENSOR LH Connector Type RH02MB	Connector No. D189 Connector Name WIRE TO WIRE Connector Type TH12FW-NH
Connector No. Connector Type Connector Type	Connector Name SLIDING DOOR LOOK ASSEMBLY RH Connector Type RSOBECY-PR			
		Terminal Color Of Nire Signal Name [Specification] No. Wire 1 W	Terminal Color Of   Signal Name [Specification]   No.   Wire   Signal Name [Specification]   1 GR   -   -   2 R	Terminal Color Of Signal Name [Specification] No. Wire Signal Name [Specification]
Ferminal Color Of No. Wire	Signal Name [Specification]			H
×α	1 1			> > 0°
2	1			11 GR
BR	-			12 GR -
s 0.				

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13   8   MOTOR BIOLNE   14   G   MOTOR BIOLNE   15   SS   STYDP LAMP SMITTLEY   16   SS   C   SENSOR SIGNAL (+)   22   BP   VOC OF SMITCH   22   BP   VOC OF SMITCH   23   L   C   C   C   C   C     24   SS   C   C   C   C   C     25   W   WIRE TO WIFE   Connector Name   WIRE TO WIFE   C   C   C   C   C   C     10   SS   C   C   C     11   SS   C   C   C     12   C   C   C   C     13   C   C   C   C     14   C   C   C   C     15   C   C   C   C     16   C   C   C   C     17   C   C   C   C     18   C   C   C     19   SS   C   C   C     10   SS   C   C   C     11   V   C   C   C     12   C   C   C     13   C   C   C   C     14   C   C   C   C     15   C   C   C   C     16   C   C   C   C     17   C   C   C   C     18   C   C   C   C     19   C   C   C   C     10   C   C   C   C     11   C   C   C   C     12   C   C   C   C     13   C   C   C   C     14   C   C   C   C     15   C   C   C   C     16   C   C   C   C     17   C   C   C   C     18   C   C   C   C     19   C   C   C   C     10   C   C   C   C     11   C   C   C   C     12   C   C   C   C     13   C   C   C   C     14   C   C   C   C     15   C   C   C   C     16   C   C   C   C     17   C   C   C   C     18   C   C   C   C     19   C   C   C   C     10   C   C   C     11   C   C   C   C     12   C   C   C   C     13   C   C   C   C     14   C   C   C   C     15   C   C   C   C     16   C   C   C   C     17   C   C   C   C     18   C   C   C   C     19   C   C   C   C     10   C   C   C   C     11   C   C   C   C     12   C   C   C   C     13   C   C   C   C     14   C   C   C   C     15   C   C   C   C     16   C   C   C   C     17   C   C   C   C     18   C   C   C   C     19   C   C   C   C     10   C   C   C   C     11   C   C   C   C   C     11   C   C   C   C   C     12   C   C   C   C   C     13   C   C   C   C   C     14   C   C   C   C   C     15   C   C   C   C   C     16   C   C   C   C   C     17   C   C   C   C   C     18   C   C   C   C   C   C	
Connector Name   WIRE TO WIRE   Connector Name   WIRE TO WIRE   Connector Name   Connecto	
Connector Name   Conn	
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Connector No. M29 Connector Name AUTOMATIC DOOR MAIN SWITCH	Т	actor 13be		•		2 3				Terminal Color Of	No. Wire Signal Name [Specification]	1 BE	2 GR -		4 b			No.	Connector No. M34	Connector Name   COMBINATION METER		Connector Type TH40FW-NH				1 2 2 4 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	91 01 01 01 01 01 01 01 01 01 01 01 01 01	20100 00100			Terminal Color Of	No. Wire Signal Name [Specification]	1 O BATTERY POWER SUPPLY [With automatic drive positioner]	1 BATTERY POWER SUPPLY (Without automatic drive positioner)	2 G IGNITION SIGNAL [Without automatic drive positioner]	2 Y IGNITION SIGNAL [With automatic drive positioner]	3 B GROUND	4 B GROUND	5 B ILLUMBHATTON CONTROL SIGNAL [Without autematic drive positioned]	ILLUMDIATION CONTROL SIGNAL [With aut	8 G TRIP RESET SMITCH SIGNAL [Without automatic drive positioner]	t	۵	. 0	SELECT SWIT	12 R SELECT SWITCH SIGNAL [Without automatic drive positioner	
- [Without automatic drive positioner] - [With automatic drive positioner]		1	1	- [With automatic drive positioner]	- [Without automatic drive positioner]	_	- [Without automatic drive positioner]	- [With automatic drive positioner]	1	1	1	1	ı	1	1				1	1	_	1	1	1	1	1	1	-		1	1	1	1	1		1	1	1	1	1	1						
σ > .	_ a	. ~	. 9	BR	Μ	œ	BE	Y	۵	_	ø	*	۵	>	œ		, ,	9 3	s (	В	P	٦	SHIELD	œ	Μ	В	М	М	BR	a	α	_	PC	>	>	>	۵	BR	>	*	_	α					
1 1 1	ءا۔	J_	1	ı					ı	ı	۱	١	ı	I	Ι.	J۵	J.	٠l٠	ωΙ.	ا	_	ıc	١,,	ı	١.,	63	64	99	67	69	71	72	73	74	75	9/	I۰	١	l_	ı	١	l.	ı.				
13	4 5	] ]	32	37	37	38	39	39	40	14	42	43	45	446	4	2	2	1	25	23	24	55	26	19	62	9	Ľ		<u></u>	L				Ľ	<u> </u>	_	77	78	8	8	82	83	<u>'</u>	_	_		T
M6 FUSE BLOCK (J/B)	CSOREW-M2	ZW 41 00000		V V V V V V V V V V V V V V V V V V V	JA ZA IA	28 7A 6A 5A 4A		39	40	Color Of	Wire Signal Name [Specification]		0		- 89				- GR		25	25	M11	TOWN OF TOWN	WINE IO WINE	TH70FW-CS10-M3					可当日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	A S		1	Color Of Color Of	Wire Signal Name [Specification]	SHIELD 71	1	- 8	- 8	8			- 8	H	- M	
	CSOREW-M2	ZW 41 00000		, res	A 14	7A 6A 5A 4A		39	40	3 3 3	Signal Name [Specification]	41	0		- 89				- GR	8A L = 53	79	20		TOWN OF TOWN			(				3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	A S		]	2	olgnai ivame [opecification]		1	1		1			- 8	- 10 R		
Connector No. M6 Connector Name FUSE BLOCK (J/B)	CSOREW-M2	CAN-L			-ve	84 74 64 54 44		]		Color Of	Wire Signal Name [Specification]	- Y A1	GROUND		4A GB		- 0	Trowner Street	- A GR			M4 55	Connector No. M11	TOWN OF TOWN	Connector Name Wire: 10 Wire:	TH70FW-CS10-M3	(			0.1		A S			Color Of Color Of	Wire Signal Name [Specification]		1	1					ł	H		
COT FLUID TEMPERATURE SENSOR  G SENSOR  G SENSOR  Connector Name FUSE BLOCK (J/B)	Y PRESSURE SENSOR Connector Type CSDRFW-M2	CAN-L CAN-L COUNTY OF THE COUNTY OF THE COUNTY OF THE CAN-L	INPUT SPEED SENSOR	SENSOR POWER	INSTALLA IN THE SOLENOID VALVE	84 74 64 54 44	100	PRIMARY SPEED SENSOR		TER CLUTCH SOLENOID VALVE Terminal Color Of	No. Wire Signal Name [Specification]	PRIMARY PRESSURE SOLENOID VALVE 1A Y -	GROUND 2A G -	GROUND	BATTERY DOWER SUPPLY 4A GR -	RATTED OWNED SIDDI V 5A V	TOTAL CONTINUE CONTINUE CAN A A CONTINUE CONTINU		- A GR				Connector No. M11	TOWN OF TOWN	WINE IO WINE	TH70FW-CS10-M3	(			0.1		A S			Terminal Color Of	Wire Signal Name [Specification]	- 1 SHELD -	2 W =	8 8		0 9	α	1	- 6	H		

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Connector Name   Wife TO Wife	B
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With automatic dive monitor	F
239 W W 40 W 40 W 40 W 40 W 40 W W 40 W 4	Н
WRE TO WHE    54     3   2   1     12   11   10   9   8   7   6	J
Connector No.  Connector Name Connec	DL
DOR SYSTEM  The control of the contr	L
TICO SILDINGO DOOR SYSTE  Linuarionatoria minimaliani linius automateria responsabilità  ENGINE COCUMIT ERIPERATURE SIGNAL  AMBIENT SIRGOS SIRVAL (International control security in the propertion of the properi	IV
ALTYONA TIC SCLIDING DOOR SYSTEM   ALTYONA   ALTY	N
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AUT	OMAT	AUTOMATIC SLIDING DOOR SYSTEM	Σ				
Connector No.	or No.	M121		Connector No.		M123	_
Connector Name	or Name	BCM (BODY CONTROL MODULE)		Connector Name	Vame	BCM (BODY CONTROL MODULE)	
Connector Type	or Type	TH40FB-NH	_	Connector Type	Lype	FEA09FW-FHA6-SA	_
E				昼			
Ċ.	A	1   2   3   4   5   6   7   8   9     12   13   4   5   6   7   18   9     12   13   4   5   6   7   18   9   40	_	<u>i</u>		02   69   89   29   99   59   60   70   60   60   60   60   60   60	
			_				_
lerminal No.	Color Of Wire	Signal Name [Specification]		e e	Color Of Wire	Signal Name [Specification]	
-	W	REAR WINDOW DEF RELAY CONT		26	۵	INT ROOM LAMP PWR SPLY	_
2	œ	COMBI SW INPUT 5	_	22	>	BAT	_
e •	υ <u>ξ</u>	COMBI SW INPUT 4		28	0 8	AIR BAG	_
,	4	COMBI SW INPOL S	_	a a	9 ;	THE DOOR ONLY	_
o 4	ງ ≥	COMBI SW INPUL 2		90	> 0	THEN SIG LH COLIFOLI	
2		KEY CYLLINI OCK SW	_	69	4	STEP I AMP CONT	_
- @	. B	PW SW COMM [With auto A/C]		63	· œ	INT ROOM LAMP CONT	_
80	≻	KEY CYL LOCK SW [With manual A/C]	_	64	W	CRANK REQ	_
6	GR	STOP LAMP SW 1		65	>	ALL DOOR LOCK OUTPUT	_
12	GR	DOOR LK & UNLK SW LOCK	_	99	ŋ	DR DOOR UNLK OUTPUT	_
13	BR	DOOR LK & UNLK SW UNLOCK	_	67	8	GROUND	_
14	٦	OPTICAL SENS		89	Т	PW PWR SPLY (IGN)	_
15	W	REAR WINDOW DEF SW		69	Ь	PW PWR SPLY (BAT)	_
16	Υ	DIMMER		70	L	BAT	_
17	0	SENS PWR SPLY					
18	œ	RECEIV/SENS GND					
21	g.	NATS ANT AMP.					
2 2	s c	SECURITY IND CONT					
25	۵	NATS ANT AMP					
27	. 0	A/C ON					
28	BR	BLOWER FAN ON					
29	Ь	HAZARD SW					
30	٦	BK DOOR OPNR SW					
31	9	DR DOOR UNLK SENS					
32	œ	COMBI SW OUTPUT 5					
33	М	COMBI SW OUTPUT 4					
34	۵	COMBI SW OUTPUT 3					
35	g	COMBI SW OUTPUT 2					
36	œ	COMBI SW OUTPUT 1					
37	o	DETENT SW					
38	出	RECEIVER COMM					
38	ا ر	CAN-H					
40	Ω	CAN-L					

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# **BASIC INSPECTION**

# DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

**OVERALL SEQUENCE** 

D Inspection start Е 1. Get information for symptom Get the detailed information about symptom from the customer 2. Check DTC Print out DTC and freeze frame data (or, write it down). Check related service bulletines. Symptom is described. Symptom is not described. Symptom is described. DTC is detected. DTC is detected. DTC is not detected. 3. Confirm the symptom 4. Confirm the symptom Try to confirm the symptom described Try to confirm the symptom described by the customer. by the customer. Also study the normal operation and failsafe related to the symptom. DLK 5. Perform DTC CONFIRMATION PROCEDURE 6. Detect malfunctioning system by SYMPTOM DIAGNOSIS 7. Detect malfunctioning part by Diagnosis Procedure Symptom is Symptom is not described. 8. Repair or replace the malfunctioning part Check input/output signal or voltage DTC is 9. Final check Ν Symptom remains. detected. Check that the symptom is not detected. Perform DTC Confirmation Procedure again, and then check that the malfunction is repaired. DTC is not detected. Symptom does not remain. Р INSPECTION END

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## DIAGNOSIS AND REPAIR WORK FLOW

#### < 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 <a href="BCS-62">BCS-62</a>, "DTC Inspection Priority Chart" (BCM), 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 CONFIR-MATION PROCEDURE.

## Is DTC detected?

YES >> GO TO 7.

NO >> Check according to GI-42, "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 CON-SULT.

## 7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

## DIAGNOSIS AND REPAIR WORK FLOW

## < BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

### Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-42, "Intermittent Incident".

# 8.repair or replace the malfunctioning part

- Repair or replace the malfunctioning part.
- Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
- 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.

>> Before returning the vehicle to the customer, always erase DTC.

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## ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

< BASIC INSPECTION >

# ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

AUTOMATIC BACK DOOR SYSTEM

AUTOMATIC BACK DOOR SYSTEM: Description

INFOID:0000000011321838

When the battery is disconnected from the negative terminal, it is necessary to perform initial setting to operate automatic back door system normally.

#### **CAUTION:**

The following specified operations are not performed under the non-initialized condition.

- Automatic back door open/close function
- Anti-pinch function

## AUTOMATIC BACK DOOR SYSTEM: Work Procedure

INFOID:0000000011321839

# 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 that hazard lamp blinks and that warning buzzer operates.

#### **CAUTION:**

Never touch back door, or allow foreign materials to be pinched in 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

## AUTOMATIC SLIDING DOOR SYSTEM

## AUTOMATIC SLIDING DOOR SYSTEM: Description

INFOID:0000000011321840

When the battery is disconnected from the negative terminal, it is necessary to perform initial setting to operate automatic sliding door system normally.

#### **CAUTION:**

Be careful of sliding door that does not operate smoothly in the non-initialized status because door speed is constant during automatic open/close operation. Also, be careful of high reverse load.

## AUTOMATIC SLIDING DOOR SYSTEM: Work Procedure

INFOID:0000000011321841

# 1.INITIALIZATION

- 1. Operate automatic sliding door open/close switch or automatic sliding door one-touch open/close switch, and the automatic open function operates. (Perform open operation first in the non-initialized status regardless of sliding door position)
- 2. After sliding door is stopped in the fully open position, operate automatic sliding door open/close switch or automatic sliding door one-touch open/close switch, and the automatic close function operates.
- 3. Check for noise or malfunctioning during operation.
- 4. Check that automatic sliding door warning buzzer operates.

#### **CAUTION:**

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

>> WORK END

# ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL MODULE

## < BASIC INSPECTION >

# ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL MODULE

Description INFOID:0000000011321842

When replacing control module, or removing connector terminal, it is necessary to perform initial setting to operate automatic back door system normally.

#### **CAUTION:**

The following specified operations are not performed under the non-initialized condition.

- Automatic back door open/close function
- Anti-pinch function

Work Procedure

INFOID:0000000011321843

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# 1.INITIALIZATION

- 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 that hazard lamp blinks and that warning buzzer operates.

#### **CAUTION:**

Never touch back door, or allow foreign materials to be pinched in 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 SLIDING DOOR CONTROL UNIT

< BASIC INSPECTION >

# ADDITIONAL SERVICE WHEN REPLACING SLIDING DOOR CONTROL UNIT

Description INFOID:000000011321844

When replacing control module, or removing connector terminal, it is necessary to perform initial setting to operate automatic sliding door system normally.

#### **CAUTION:**

Be careful of sliding door that does not operate smoothly in the non-initialized status because door speed is constant during automatic open/close operation. Also, be careful of high reverse load.

Work Procedure

## 1.INITIALIZATION

- 1. Operate automatic sliding door open/close switch or automatic sliding door one-touch open/close switch, and the automatic open function operates. (Perform open operation first in the non-initialized status regardless of sliding door position)
- 2. After sliding door is stopped in the fully open position, operate automatic sliding door open/close switch or automatic sliding door one-touch open/close switch, and the automatic close function operates.
- 3. Check for noise or malfunctioning during operation.
- 4. Check that automatic sliding door warning buzzer operates.

#### **CAUTION:**

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

>> WORK END

## **U1000 CAN COMM CIRCUIT**

< DTC/CIRCUIT DIAGNOSIS >

# DTC/CIRCUIT DIAGNOSIS

# U1000 CAN COMM CIRCUIT AUTOMATIC BACK DOOR CONTROL MODULE

# AUTOMATIC BACK DOOR CONTROL MODULE: Description

INFOID:0000000011321846

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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-32, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart".

## AUTOMATIC BACK DOOR CONTROL MODULE: DTC Logic

INFOID:0000000011321847

#### DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC detecting condition	Possible cause
U1000	CAN COMM	When automatic back door control unit cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

## AUTOMATIC BACK DOOR CONTROL MODULE: Diagnosis Procedure

INFOID:0000000011321848

## 1.PERFORM SELF DIAGNOSTIC

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

#### Is "CAN COMM CIRCUIT" displayed?

>> Refer to <u>LAN-17</u>, "<u>Trouble Diagnosis Flow Chart</u>". >> Refer to <u>GI-42</u>, "<u>Intermittent Incident</u>". YES

NO

#### SLIDING DOOR LH

## SLIDING DOOR LH: Description

INFOID:0000000011321849

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-32, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart".

# SLIDING DOOR LH: DTC Logic

INFOID:0000000011321850

#### DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC detecting condition	Possible cause
U1000	CAN COMM	When sliding door control unit cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

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## **U1000 CAN COMM CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

## SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011321851

# 1.PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 seconds or more.
- 2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR" using CONSULT.

## Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-17, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-42, "Intermittent Incident".

SLIDING DOOR RH

## SLIDING DOOR RH: Description

INFOID:0000000011321852

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 <u>LAN-32</u>, "CAN COMMUNICATION SYSTEM: CAN Communication Signal Chart".

## SLIDING DOOR RH : DTC Logic

INFOID:0000000011321853

#### DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC detecting condition	Possible cause
U1000	CAN COMM	When sliding door control unit cannot communicate CAN communication signal continuously for 2 seconds or more.	

## SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011321854

## PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 seconds or more.
- 2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR RIGHT" using CONSULT.

### Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to LAN-17, "Trouble Diagnosis Flow Chart".

NO >> Refer to GI-42, "Intermittent Incident".

## **U1010 CONTROL UNIT (CAN)**

## < DTC/CIRCUIT DIAGNOSIS >

# U1010 CONTROL UNIT (CAN)

## AUTOMATIC BACK DOOR CONTROL MODULE

# AUTOMATIC BACK DOOR CONTROL MODULE: DTC Logic

INFOID:0000000011321855

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#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
U1010	CONTROL UNIT (CAN)	Automatic back door control unit detected internal CAN communication circuit malfunction	Automatic back door control module

# AUTOMATIC BACK DOOR CONTROL MODULE: Diagnosis Procedure

INFOID:0000000011321856

## $1.\mathsf{REPLACE}$ AUTOMATIC BACK DOOR CONTROL MODULE

When DTC [U1010] is detected, replace automatic back door control module.

>> Replace automatic back door control module. Refer to DLK-488, "Removal and Installation".

SLIDING DOOR LH

SLIDING DOOR LH: DTC Logic

INFOID:0000000011321857

### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
U1010	CONTROL UNIT (CAN)	Sliding door control unit LH detected internal CAN communication circuit malfunction	Sliding door control unit LH

# SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011321858

# 1. REPLACE SLIDING DOOR CONTROL UNIT

When DTC [U1010] is detected, replace sliding door control unit LH.

>> Replace sliding door control unit LH. Refer to DLK-493, "LH: Removal and Installation".

SLIDING DOOR RH

SLIDING DOOR RH: DTC Logic

INFOID:0000000011321859

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
U1010	CONTROL UNIT (CAN)	Sliding door control unit RH detected internal CAN communication circuit malfunction	Sliding door control unit RH

# SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011321860

# 1. REPLACE SLIDING DOOR CONTROL UNIT

When DTC [U1010] is detected, replace sliding door control unit RH.

>> Replace sliding door control unit RH. Refer to DLK-493, "RH: Removal and Installation".

**DLK-173** Revision: 2014 August **2015 QUEST** 

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## **B2401 IGNITION POWER SUPPLY CIRCUIT**

## < DTC/CIRCUIT DIAGNOSIS >

# B2401 IGNITION POWER SUPPLY CIRCUIT AUTOMATIC BACK DOOR CONTROL MODULE

## AUTOMATIC BACK DOOR CONTROL MODULE: DTC Logic

INFOID:0000000011321861

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2401	IGN OPEN	When the automatic back door control unit detects the following condition for 0.3 second or more  Power supply condition (OFF) of automatic back door control unit and Ignition position signal (ON) from BCM via CAN	Fuse     Harness or connectors     (Ignition power supply condition circuit is open or shorted)

#### DTC CONFIRMATION PROCEDURE

# 1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON and wait for at least 1 second.
- 2. Check "Self Diagnostic Result" mode of "AUTO BACK DOOR" using CONSULT.

#### Is DTC detected?

YES >> Refer to DLK-174, "AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure".

NO >> INSPECTION END

## AUTOMATIC BACK DOOR CONTROL MODULE: Diagnosis Procedure

INFOID:0000000011321862

## 1.CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check 10 A fuse, [No. 3, located in fuse block (J/B)].

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

## 2. CHECK POWER SUPPLY CIRCUIT

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

(+)					
Automatic back door control module		(–)	Cond	ition	Voltage
Connector	Terminal				
B8	7	Ground	Ignition switch	ON	9 - 16 V

## Is the measurement value normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace harness.

SLIDING DOOR LH

SLIDING DOOR LH: DTC Logic

DTC DETECTION LOGIC

INFOID:0000000011321863

## **B2401 IGNITION POWER SUPPLY CIRCUIT**

### < DTC/CIRCUIT DIAGNOSIS >

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2401	IGN OPEN	When the sliding door control unit detects the following condition for 0.3 second or more  Power supply condition (OFF) of sliding door control unit and ignition position signal (ON) from BCM via CAN	Fuse     Harness or connectors     (Ignition power supply condition circuit is open or shorted)

## DTC CONFIRMATION PROCEDURE

# 1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR" using CONSULT.

#### Is DTC detected?

YES >> Refer to DLK-175, "SLIDING DOOR LH: Diagnosis Procedure".

NO >> INSPECTION END

## SLIDING DOOR LH : Diagnosis Procedure

## 1.CHECK FUSE

- Turn ignition switch OFF.
- Check 10A fuse, [No. 3, located in fuse block (J/B)].

## Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

## 2.CHECK POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect sliding door control unit LH connector.
- Check voltage between sliding door control unit LH harness connector and ground.

	(+) g door control unit LH (–) Condition		ition	Voltage	
Connector	Terminal				
B45	6	Ground	Ignition switch	ON	9 – 16 V

#### Is the measurement value normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace harness.

#### SLIDING DOOR RH

SLIDING DOOR RH: DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2401	IGN OPEN	When the sliding door control unit detects the following condition for 0.3 second or more  Power supply condition (OFF) of sliding door control unit and ignition position signal (ON) from BCM via CAN	Fuse     Harness or connectors     (Ignition power supply condition circuit is open or shorted)

## DTC CONFIRMATION PROCEDURE

# 1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR RIGHT" using CONSULT.

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## **B2401 IGNITION POWER SUPPLY CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

#### Is DTC detected?

YES >> Refer to <u>DLK-176</u>, "<u>SLIDING DOOR RH</u>: <u>Diagnosis Procedure</u>".

NO >> INSPECTION END

## SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011321866

# 1.CHECK FUSE

1. Turn ignition switch OFF.

2. Check 10A fuse, [No. 3, located in fuse block (J/B)].

## Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

# 2. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect sliding door control unit RH connector.

3. Check voltage between sliding door control unit RH harness connector and ground.

(+)			Condition		Voltage	
Sliding door control unit RH		(–)				
Connector	Terminal					
B247	6	Ground	Ignition switch	ON	9 – 16 V	

#### Is the measurement value normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> Repair or replace harness.

## < DTC/CIRCUIT DIAGNOSIS >

# **B2402 TOUCH SENSOR**

SLIDING DOOR LH

SLIDING DOOR LH: DTC Logic

INFOID:0000000011321867

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#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2402	TOUCH SENSOR OPEN	When the sliding door control unit detects the open circuit of the sliding door touch sensor	Sliding door touch sensor     Harness or connector     (Sliding door touch sensor circuit is open)     Sliding door control unit

#### DTC CONFIRMATION PROCEDURE

# 1. PERFORM DTC CONFIRMATION PROCEDURE

Turn ignition switch ON.

2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR" using CONSULT.

## Is DTC detected?

YES >> Refer to DLK-177, "SLIDING DOOR LH: Diagnosis Procedure".

>> INSPECTION END NO

## SLIDING DOOR LH : Diagnosis Procedure

INFOID:0000000011321868

# 1. CHECK SLIDING DOOR TOUCH SENSOR INPUT SIGNAL

Turn ignition switch OFF.

2. Check voltage between sliding door touch sensor LH harness connector and sliding door control unit LH harness connector.

(	+)	(	_)				
•	touch sensor .H	•	r control unit -H	Condition		Voltage	
Connector	Terminal	Connector	Terminal				
D172	1	B45	23	Sliding door touch	Pinching detection	0 – 1.5 V	
		D43	25	sensor LH	Other than above	4 – 8 V	

## Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK SLIDING DOOR TOUCH SENSOR CIRCUIT

Disconnect sliding door control unit LH connector and sliding door touch sensor LH connector.

Check continuity between sliding door control unit LH harness connector and sliding door touch sensor LH harness connector.

Sliding door co	Sliding door control unit LH		Sliding door touch sensor LH		
Connector	Terminal	Connector Termin		Continuity	
B45	24	D172	1	Existed	

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door o	control unit LH		Continuity
Connector	Connector Terminal		Continuity
B45	24		Not existed

#### Is the inspection result normal?

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#### < DTC/CIRCUIT DIAGNOSIS >

YES >> Replace sliding door control unit LH. Refer to DLK-493, "LH: Removal and Installation".

NO >> Repair or replace harness.

# ${f 3.}$ check sliding door touch sensor ground circuit

- 1. Disconnect sliding door control unit LH connector and sliding door touch sensor LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door touch sensor LH harness connector.

Sliding door control unit LH		Sliding door to	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B45	23	D172	2	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door	control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	23		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4.CHECK SLIDING DOOR TOUCH SENSOR CIRCUIT 2

- 1. Connect sliding door control unit LH connector and sliding door touch sensor LH connector.
- 2. Check voltage between sliding door control unit LH harness connector and ground.

(+)				
Sliding door control unit LH		(–)	Voltage	
Connector	Terminal		3.43	
B45	23	Ground	0 V	

## Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-493</u>, "LH: Removal and Installation".

## 5. CHECK SLIDING DOOR TOUCH SENSOR

Refer to DLK-180, "SLIDING DOOR RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door touch sensor LH.

#### 6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# SLIDING DOOR LH: Component Inspection

INFOID:0000000011321869

# 1. CHECK SLIDING DOOR TOUCH SENSOR LH

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

Sliding door touch sensor LH  Terminal		Condition		Resistance (Approx.)
1	2	Sliding door touch sen-	Pinching detection	120 Ω or less
		sor LH	Other than above	1 kΩ ± 10%

### < DTC/CIRCUIT DIAGNOSIS >

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door touch sensor LH.

## SLIDING DOOR RH

## SLIDING DOOR RH: DTC Logic

INFOID:0000000011321870

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#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2402	TOUCH SENSOR OPEN	When the sliding door control unit detects the open circuit of the sliding door touch sensor	Sliding door touch sensor     Harness or connector     (Sliding door touch sensor circuit is open)     Sliding door control unit

### DTC CONFIRMATION PROCEDURE

# 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is DTC detected?

YES >> Refer to <u>DLK-179</u>, "SLIDING DOOR RH : <u>Diagnosis Procedure</u>".

NO >> INSPECTION END

## SLIDING DOOR RH : Diagnosis Procedure

INFOID:0000000011321871

# 1. CHECK SLIDING DOOR TOUCH SENSOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Check voltage between sliding door touch sensor RH harness connector and sliding door control unit RH harness connector.

(-	+)	(	<b>–</b> )						
•	touch sensor RH		r control unit RH	Condition		Voltage			
Connector	Terminal	Connector	Terminal						
D173	1	B247	23	Sliding door touch	Pinching detection	0 – 1.5 V			
D173	73	B247 23		D241	I D247	5247 23 se	sensor RH	Other than above	4 – 8 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2.CHECK SLIDING DOOR TOUCH SENSOR CIRCUIT

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

Sliding door control unit RH		Sliding door touch sensor RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B247	24	D173	1	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

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#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	24		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> Repair or replace harness.

# ${f 3.}$ check sliding door touch sensor ground circuit

- 1. Disconnect sliding door control unit RH connector and sliding door touch sensor RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door touch sensor RH harness connector.

Sliding door control unit RH		Sliding door touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B247	23	D173	2	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity	
Connector	Terminal	Ground	Continuity	
B247	23		Not existed	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK SLIDING DOOR TOUCH SENSOR CIRCUIT 2

- 1. Connect sliding door control unit RH connector and sliding door touch sensor RH connector.
- 2. Check voltage between sliding door control unit RH harness connector and ground.

(+)			
Sliding door	control unit RH	(–)	Voltage
Connector	Terminal		
B247	23	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "LH: Removal and Installation".

## 5. CHECK SLIDING DOOR TOUCH SENSOR

Refer to DLK-180, "SLIDING DOOR RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door touch sensor RH.

## 6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## SLIDING DOOR RH: Component Inspection

INFOID:0000000011321872

# 1. CHECK SLIDING DOOR TOUCH SENSOR RH

- Turn ignition switch OFF.
- 2. Disconnect sliding door touch sensor RH connector.
- Check resistance between sliding door touch sensor RH terminals.

### **B2402 TOUCH SENSOR**

### < DTC/CIRCUIT DIAGNOSIS >

Sliding door touch sensor RH		Condition		Resistance
Terr	ninal	Condition		(Approx.)
1	2	Sliding door touch sen-	Pinching detection	120 Ω or less
ı	1 2	sor RH	Other than above	1 kΩ ± 10%

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door touch sensor RH.

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#### < DTC/CIRCUIT DIAGNOSIS >

### **B2403 ENCODER**

#### AUTOMATIC BACK DOOR CONTROL MODULE

### AUTOMATIC BACK DOOR CONTROL MODULE: DTC Logic

INFOID:0000000011321873

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2403	PULSE ENCODER	When the automatic back door control unit cannot receive the signal from the encoder just after starting the open/close operation	, , , , , , , , , , , , , , , , , , , ,

#### DTC CONFIRMATION PROCEDURE

### ${f 1}$ .PERFORM DTC CONFIRMATION PROCEDURE

- 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 <u>DLK-182</u>, "AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure".

NO >> INSPECTION END

# AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure

# 1. CHECK AUTOMATIC BACK DOOR CONTROL MODULE POWER SUPPLY AND GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- Check automatic back door control module power supply and ground circuit.
   Refer to <u>DLK-238</u>, "<u>AUTOMATIC BACK DOOR CONTROL MODULE</u>: <u>Diagnosis Procedure</u>".

#### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-488</u>, "Removal and Installation".

NO >> Repair or replace the malfunctioning parts.

SLIDING DOOR LH

#### SLIDING DOOR LH: DTC Logic

INFOID:0000000011321875

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2403	PULSE ENCODER	When sliding door control unit cannot receive the signal from the encoder just after starting the open/close operation	<ul><li>Encoder</li><li>Battery voltage (low battery)</li><li>Sliding door control unit</li></ul>

#### DTC CONFIRMATION PROCEDURE

# 1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR" using CONSULT.

#### Is DTC detected?

YES >> Refer to DLK-182, "SLIDING DOOR LH: Diagnosis Procedure".

NO >> INSPECTION END

#### SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011321876

### 1. CHECK ENCODER POWER SUPPLY

1. Turn ignition switch OFF.

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#### < DTC/CIRCUIT DIAGNOSIS >

2	Disconnect	automatic	cliding	door	unit I 📙	connector
۷.	Disconnect	automatic	Silaina	aoor	umil LM	connector.

3	Check voltage	between a	utomatic sliding	door unit I H	l harness	connector :	and a	round
J.	Officer voltage	DCLWCCII a	atomatic silaing		Harricss		and g	i Oui iu

(+)			
Automatic sliding door unit LH		(–)	Voltage
Connector	Terminal		
B65	5	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. CHECK ENCODER CIRCUIT

1. Disconnect sliding door control unit LH connector.

2. Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door control unit LH		Automatic sliding	Continuity	
Connector	Terminal	Connector Terminal		Continuity
B45	11	B65	5	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	11		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> Repair or replace harness.

# 3.CHECK ENCODER CIRCUIT $^{2}$

Disconnect sliding door control unit LH connector.

2. Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door control unit LH		Automatic sliding door unit LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	4	B65 6		Existed
B45	21	B03	7	LXISIEU

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door o	Sliding door control unit LH		Continuity
Connector	Terminal	Ground	Continuity
D45	4	Giodila	Not existed
B45	21		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK ENCODER GROUND CIRCUIT

1. Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

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#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door co	Sliding door control unit LH		Automatic sliding door unit LH		
Connector	Terminal	Connector	Terminal	Continuity	
B45	26	B65	8	Existed	

2. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door co	ontrol unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	26		Not existed

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

### CHECK ENCODER CIRCUIT 3

- Connect sliding door control unit LH connector and automatic sliding door unit LH connector.
- 2. Check voltage between sliding door control unit LH harness connector and ground.

(+)			Voltage
Sliding door control unit LH		(–)	
Connector	Terminal		
B45	26	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

### 6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

# >> INSPECTION END SLIDING DOOR RH

SLIDING DOOR RH: DTC Logic

INFOID:0000000011321877

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2403	PULSE ENCODER	When sliding door control unit cannot receive the signal from the encoder just after starting the open/close operation	<ul><li> Encoder</li><li> Battery voltage (low battery)</li><li> Sliding door control unit</li></ul>

#### DTC CONFIRMATION PROCEDURE

### 1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR RIGHT" using CONSULT.

#### Is DTC detected?

YES >> Refer to <u>DLK-184</u>, "SLIDING DOOR RH: Diagnosis Procedure".

NO >> INSPECTION END

### SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011321878

# 1. CHECK ENCODER POWER SUPPLY

- Turn ignition switch OFF.
- Disconnect automatic sliding door unit RH connector.

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#### < DTC/CIRCUIT DIAGNOSIS >

3. Check voltage between automatic sliding door unit RH harness connector and ground.

(+)			
Automatic sliding door unit RH		(–)	Voltage
Connector	Terminal		
B244	5	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2. CHECK ENCODER CIRCUIT

1. Disconnect sliding door control unit RH connector.

Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door co	ontrol unit RH	Automatic sliding door unit RH		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B247	11	B244	5	Existed	

Check continuity between sliding door control unit RH harness connector and ground.

	Sliding door co	ontrol unit RH		Continuity
_	Connector	Terminal	Ground	Continuity
	B247	11		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493, "RH: Removal and Installation"</u>.

NO >> Repair or replace harness.

### 3.CHECK ENCODER CIRCUIT $^{2}$

1. Disconnect sliding door control unit RH connector.

Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door	control unit RH	Automatic sliding door unit RH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B247	4	B244	7	Existed	
D241	21	DZ44	6	EXISTECT	

Check continuity between sliding door control unit RH harness connector and ground.

Sliding door co	ontrol unit RH		Continuity	
Connector	Terminal	Ground	Continuity	
B247	4 Ground		Not existed	
D241	21		Not existed	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

#### 4. CHECK ENCODER GROUND CIRCUIT

 Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector. DLK

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#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door co	ontrol unit RH	Automatic sliding door unit RH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B247	26	B244	8	Existed	

2. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door co	ontrol unit RH		Continuity
Connector	Terminal	Ground	Continuity
B247	26		Not existed

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

### 5. CHECK ENCODER CIRCUIT 3

- 1. Connect sliding door control unit RH connector and automatic sliding door unit RH connector.
- 2. Check voltage between sliding door control unit RH harness connector and ground.

(+)			
Sliding door co	Sliding door control unit RH		Voltage
Connector	Terminal		
B247	26	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "RH: Removal and Installation".

# 6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

#### **B2405 SLIDING DOOR CONTROL UNIT**

< DTC/CIRCUIT DIAGNOSIS >

# **B2405 SLIDING DOOR CONTROL UNIT**

SLIDING DOOR LH

SLIDING DOOR LH: DTC Logic

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#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2405	ECU FAIL	Sliding door control unit detected CPU malfunction	Sliding door control unit

### SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011321880

1. REPLACE SLIDING DOOR CONTROL UNIT

When DTC [B2405] is detected, replace sliding door control unit LH.

>> Replace sliding door control unit. Refer to <u>DLK-493</u>, "LH: Removal and Installation".

SLIDING DOOR RH

SLIDING DOOR RH: DTC Logic

INFOID:0000000011321881

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2405	ECU FAIL	Sliding door control unit detected CPU malfunction	Sliding door control unit

### SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011321882

### 1. REPLACE SLIDING DOOR CONTROL UNIT

When DTC [B2405] is detected, replace sliding door control unit RH.

>> Replace sliding door control unit. Refer to <u>DLK-493, "RH: Removal and Installation"</u>.

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Revision: 2014 August DLK-187 2015 QUEST

#### < DTC/CIRCUIT DIAGNOSIS >

### B2409 HALF LATCH SWITCH AUTOMATIC BACK DOOR CONTROL MODULE

### AUTOMATIC BACK DOOR CONTROL MODULE: DTC Logic

INFOID:0000000011321883

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2409	HALF LATCH SW	When the automatic back door control unit can not detects the half latch switch ON condition even when the back door is in the open position	Half latch switch     Harness or connectors     (Half latch switch circuit is open)     Automatic back door control module

#### DTC CONFIRMATION PROCEDURE

### 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is DTC detected?

YES >> Refer to <u>DLK-188</u>, "AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure".

NO >> INSPECTION END

### AUTOMATIC BACK DOOR CONTROL MODULE: Diagnosis Procedure

INFOID:0000000011321884

### 1. CHECK HALF LATCH SWITCH SIGNAL

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

Monitor item	Condit	Status	
HALF LATCH SW	Back door	Fully closed/Half latch	OFF
TIALI LATOTTOW	Back door	Open	ON

#### Is the inspection result normal?

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

# 2.CHECK HALF LATCH INPUT SIGNAL

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

(+)	)		
Back door loo	k assembly	(–)	Voltage
Connector	Terminal		
D190	6	Ground	9 - 16 V

#### Is the inspection result normal?

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

### 3. CHECK HALF LATCH SWITCH CIRCUIT

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

#### < DTC/CIRCUIT DIAGNOSIS >

Automatic back de	Automatic back door control module		Back door lock assembly		
Connector	Terminal	Connector Terminal		Continuity	
B8	22	D190	6	Existed	

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

Automatic back d	oor control module		Continuity
Connector	Terminal	Ground	Continuity
B8	22		Not existed

#### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-488, "Removal and Installation".

NO >> Repair or replace harness.

#### 4.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		Continuity
D190	8		Existed

#### Is the inspection result normal?

YES >> GO TO 5.

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

### 5.CHECK HALF LATCH SWITCH

Refer to DLK-189, "AUTOMATIC BACK DOOR CONTROL MODULE: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door lock assembly.

#### 6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### AUTOMATIC BACK DOOR CONTROL MODULE: Component Inspection INFOID:000000011321885

### 1. CHECK HALF LATCH SWITCH

- Turn ignition switch OFF.
- Disconnect back door lock assembly connector. 2.
- Check continuity between back door lock assembly terminals.

Back door loo	k assembly	Condition		Continuity	
Terminal		Condition		Continuity	
6	Q	Back door lock	Open	Existed	
O	6 6 Back door lock		Fully closed/Half latch	Not existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

SLIDING DOOR LH

SLIDING DOOR LH: DTC Logic

DTC DETECTION LOGIC

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#### < DTC/CIRCUIT DIAGNOSIS >

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2409	HALF LATCH SW	When the sliding door control unit cannot detects the half latch switch ON condition even when the sliding door release actuator operate	<ul> <li>Half latch switch</li> <li>Harness or connectors (Half latch switch circuit is open)</li> <li>Sliding door control unit</li> </ul>

#### DTC CONFIRMATION PROCEDURE

### 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is DTC detected?

YES >> Refer to <u>DLK-190</u>, "SLIDING DOOR LH: <u>Diagnosis Procedure</u>".

NO >> INSPECTION END

### SLIDING DOOR LH : Diagnosis Procedure

INFOID:0000000011321887

### 1. CHECK HALF LATCH SWITCH INPUT SIGNAL

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

(+	)		Voltage	
Sliding door lock	assembly LH	(–)		
Connector	Terminal			
D123	3	Ground	8 – 16 V	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2.check half latch switch circuit

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door lock assembly LH harness connector.

Sliding door co	Sliding door control unit LH		assembly LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	5	D123	3	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH  Connector Terminal			Continuity
		Ground	Continuity
B45	5		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> Repair or replace harness.

### 3.check half latch switch ground circuit

- 1. Disconnect sliding door control unit LH connector.
- 2. Check continuity between sliding door control unit LH harness connector and sliding door lock assembly LH harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door control unit LH		Sliding door lock	Continuity	
Connector	Terminal	Connector Terminal		Continuity
B45	23	D123	2	Existed

Check continuity between sliding door control unit LH harness connector and ground.

Sliding door co	ntrol unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	23		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK HALF LATCH SWITCH CIRCUIT 2

- Connect sliding door control unit LH connector and sliding door lock assembly LH connector.
- Check voltage between sliding door control unit LH harness connector and ground.

(+)			
Sliding door control unit LH		(–)	Voltage
Connector	Terminal		
B45	23	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

### 5. CHECK HALF LATCH SWITCH

Refer to DLK-191, "SLIDING DOOR LH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door lock assembly LH.

#### 6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### SLIDING DOOR LH: Component Inspection

### 1. CHECK HALF LATCH SWITCH

- Turn ignition switch OFF.
- Disconnect sliding door lock assembly LH connector.
- Check continuity between sliding door lock assembly LH terminals.

Sliding door lo	ck assembly LH	Condition Continui		Continuity	
Terr	minal			Continuity	
2	2	Sliding door I H	Open	Existed	
3	2	Sliding door LH	Half latch/full closed	Not existed	

#### Is the inspection result normal?

>> INSPECTION END YES

NO >> Replace sliding door lock assembly LH.

### SLIDING DOOR RH

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#### < DTC/CIRCUIT DIAGNOSIS >

### SLIDING DOOR RH: DTC Logic

INFOID:0000000011321889

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2409	HALF LATCH SW	When the sliding door control unit cannot detects the half latch switch ON condition even when the sliding door release actuator operate	<ul> <li>Half latch switch</li> <li>Harness or connectors (Half latch switch circuit is open)</li> <li>Sliding door control unit</li> </ul>

#### DTC CONFIRMATION PROCEDURE

# 1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR RIGHT" using CONSULT.

#### Is DTC detected?

YES >> Refer to <u>DLK-192</u>, "SLIDING DOOR RH: <u>Diagnosis Procedure</u>".

NO >> INSPECTION END

### SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011321890

### 1. CHECK HALF LATCH SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect sliding door lock assembly RH connector.
- 3. Check voltage between sliding door lock assembly RH harness connector and ground.

(+)			
Sliding door lock assembly RH		(–)	Voltage
Connector	Terminal		
D124	3	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK HALF LATCH SWITCH CIRCUIT

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door lock assembly RH harness connector.

Sliding door co	ontrol unit RH	Sliding door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B247	5	D124	3	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity	
Connector	Terminal	Ground		
B247	5		Not existed	

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "RH: Removal and Installation".

NO >> Repair or replace harness.

### 3.CHECK HALF LATCH SWITCH GROUND CIRCUIT

1. Disconnect sliding door control unit RH connector.

#### < DTC/CIRCUIT DIAGNOSIS >

2. Check continuity between sliding door control unit RH harness connector and sliding door lock assembly RH harness connector.

Sliding door co	Sliding door control unit RH		assembly RH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B247	23	D124	2	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door co	ntrol unit RH		Continuity
Connector	Terminal	Ground	Continuity
B247	23		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK HALF LATCH SWITCH CIRCUIT 2

- 1. Connect sliding door control unit RH connector and sliding door lock assembly RH connector.
- 2. Check voltage between sliding door control unit RH harness connector and ground.

(+)			
Sliding door control unit RH		(–)	Voltage
Connector	Terminal		
B247	23	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-493, "RH : Removal and Installation"</u>.

### 5. CHECK HALF LATCH SWITCH

Refer to DLK-193, "SLIDING DOOR RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door lock assembly RH.

#### 6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

### >> INSPECTION END

### SLIDING DOOR RH : Component Inspection

# 1. CHECK HALF LATCH SWITCH

- 1. Turn ignition switch OFF.
- Disconnect sliding door lock assembly RH connector.
- 3. Check continuity between sliding door lock assembly RH terminals.

Sliding door loo	ck assembly RH	Condition		Continuity	
Terr	minal	Condition		Continuity	
2	2	Sliding door RH	Open	Existed	
	2	Silding door INT	Half latch/full closed	Not existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door lock assembly RH.

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#### **B241A ENCODER**

#### < DTC/CIRCUIT DIAGNOSIS >

# B241A ENCODER SLIDING DOOR LH

SLIDING DOOR LH : DTC Logic

INFOID:0000000011321892

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B241A	ENCDR PWR SUPLY	When battery voltage to encoder is 4.5 V or less	Encoder     Harness or connectors     Sliding door control unit

#### DTC CONFIRMATION PROCEDURE

### 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is DTC detected?

YES >> Refer to <u>DLK-194</u>, "SLIDING DOOR LH: <u>Diagnosis Procedure"</u>.

NO >> INSPECTION END

### SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011321893

### 1. CHECK ENCODER POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic sliding door unit LH connector.
- 3. Check voltage between automatic sliding door unit LH harness connector and ground.

(+)			
Automatic sliding door unit LH		(–)	Voltage
Connector	Terminal		
B65	5	Ground	8 – 16 V

#### Is the inspection result normal?

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

### 2. CHECK ENCODER CIRCUIT

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door co	Sliding door control unit LH  Automatic sliding door unit LH  Continuity		Automatic sliding door unit LH	
Connector	Terminal	Connector	Terminal	Continuity
B45	11	B65	5	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	11		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> Repair or replace harness.

#### **B241A ENCODER**

#### < DTC/CIRCUIT DIAGNOSIS >

# 3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

SLIDING DOOR RH

SLIDING DOOR RH: DTC Logic

#### INFOID:0000000011321894

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#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B241A	ENCDR PWR SUPLY	When battery voltage to encoder is 4.5 V or less	Encoder     Harness or connectors     Sliding door control unit

#### DTC CONFIRMATION PROCEDURE

### 1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR RIGHT" using CONSULT.

YES >> Refer to DLK-195, "SLIDING DOOR RH: Diagnosis Procedure".

NO >> INSPECTION END

### SLIDING DOOR RH: Diagnosis Procedure

## INFOID:0000000011321895

### 1. CHECK ENCODER POWER SUPPLY

- Turn ignition switch OFF.
- Disconnect automatic sliding door unit RH connector.
- Check voltage between automatic sliding door unit RH harness connector and ground.

	+) ng door unit RH	(-)	Voltage
Connector	Terminal		voltage
B247	11	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2.check encoder circuit

Disconnect sliding door control unit RH connector.

Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door co	ontrol unit RH	Automatic sliding door unit RH		Automatic sliding door unit RH  Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B247	11	B244	5	Existed	

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	11		Not existed

#### Is the inspection result normal?

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### **B241A ENCODER**

#### < DTC/CIRCUIT DIAGNOSIS >

>> Replace sliding door control unit RH. Refer to <u>DLK-493, "RH: Removal and Installation"</u>. >> Repair or replace harness. YES

NO

# 3.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

< DTC/CIRCUIT DIAGNOSIS >

# B2412 AUTOMATIC SLIDING DOOR MOTOR/ENCODER

SLIDING DOOR LH

SLIDING DOOR LH : DTC Logic

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#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2412	ASD MTR/ENCDR	When sliding door control unit transmits signal to automatic sliding door motor but pulse signal from encoder is not detected for 1 second or more	<ul><li>Sliding door motor</li><li>Encoder</li><li>Harness or connectors</li></ul>

#### DTC CONFIRMATION PROCEDURE

### 1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR" using CONSULT.

#### Is DTC detected?

YES >> Refer to <u>DLK-197</u>, "SLIDING DOOR LH: <u>Diagnosis Procedure"</u>.

NO >> INSPECTION END

### SLIDING DOOR LH : Diagnosis Procedure

INFOID:0000000011321897

### 1. CHECK ENCODER MONITOR ITEM

Select "AUTO SLDE DOOR" using CONSULT.

- 2. Select "ENCODER A LH" and "ENCODER B LH" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
ENCODER A LH	Sliding door LH	Moving (auto or manual)	HI ⇔ LO
ENCODER A LFI	Silding door LH	When stopped	HI or LO
ENCODER B LH Sliding door L	Sliding door I H	Moving (auto or manual)	HI ⇔ LO
	Sliding door LH	When stopped	HI or LO

#### Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 2.

### 2.CHECK ENCODER POWER SUPPLY

Turn ignition switch OFF.

- 2. Disconnect automatic sliding door unit LH connector.
- 3. Check voltage between automatic sliding door unit LH harness connector and ground.

(+)			
Automatic sliding door unit LH		(–)	Voltage
Connector	Terminal		
B65	5	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

### 3.CHECK ENCODER CIRCUIT 1

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

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#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door co	ontrol unit LH	Automatic sliding door unit LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	11	B65	5	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	11		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to DLK-493, "LH: Removal and Installation".

NO >> Repair or replace harness.

### 4. CHECK ENCODER CIRCUIT 2

1. Disconnect sliding door control unit LH connector.

2. Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door o	control unit LH	Automatic sliding	g door unit LH	Continuity
Connector	Terminal	Connector Terminal		Continuity
B45	4 B65		6	Existed
D43	21	B65	7	LAISIEU

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door o	Sliding door control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	4	Ground	Not existed
D40	21		NOT EXISTED

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

### 5. CHECK ENCODER GROUND CIRCUIT

 Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door co	ontrol unit LH	Automatic sliding door unit LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	26	B65	8	Existed

2. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door co	ontrol unit LH		Continuity
Connector Terminal		Ground	Continuity
B45	26		Not existed

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

#### 6. CHECK ENCODER CIRCUIT 3

1. Connect sliding door control unit LH connector and automatic sliding door unit LH connector.

2. Check voltage between sliding door control unit LH harness connector and ground.

#### < DTC/CIRCUIT DIAGNOSIS >

(+)			
Sliding door co	Sliding door control unit LH		Voltage
Connector	Terminal		
B45	26	Ground	0 V

#### Is the inspection result normal?

YES >> Replace automatic sliding door unit LH.

NO >> Replace sliding door control unit LH. Refer to DLK-493, "LH: Removal and Installation".

# 7.check automatic sliding door motor circuit

- Disconnect sliding door control unit LH connector and automatic sliding door unit LH connector.
- Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door o	ontrol unit LH	Automatic sliding door unit LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B47	43	B33	3	Existed
D4 <i>1</i>	46		4	Existed

Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B47	43	Giouria	Not existed
D41	46		Not existed

#### Is the inspection result normal?

YES >> Replace automatic sliding door unit LH.

NO >> Repair or replace harness.

SLIDING DOOR RH

SLIDING DOOR RH: DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2412	ASD MTR/ENCDR	When sliding door control unit transmits signal to automatic sliding door motor but pulse signal from encoder is not detected for 1 second or more	<ul><li>Sliding door motor</li><li>Encoder</li><li>Harness or connectors</li></ul>

#### DTC CONFIRMATION PROCEDURE

# 1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR RIGHT" using CONSULT.

#### Is DTC detected?

YES >> Refer to <u>DLK-199</u>, "SLIDING DOOR RH: Diagnosis Procedure".

NO >> INSPECTION END

#### SLIDING DOOR RH : Diagnosis Procedure

# 1. CHECK ENCODER MONITOR ITEM

- Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- Select "ENCODER A RH" and "ENCODER B RH" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

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#### < DTC/CIRCUIT DIAGNOSIS >

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

#### Is the inspection result normal?

YES >> GO TO 7. NO >> GO TO 2.

# 2.CHECK ENCODER POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic sliding door unit RH connector.
- 3. Check voltage between automatic sliding door unit RH harness connector and ground.

(+)			
Automatic sliding door unit RH		(–)	Voltage
Connector	Terminal		
B244	5	Ground	8 – 16 V

#### Is the inspection result normal?

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

# 3. CHECK ENCODER CIRCUIT 1

- 1. Disconnect sliding door control unit RH connector.
- 2. Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door co	Sliding door control unit RH		Automatic sliding door unit RH	
Connector	Terminal	Connector	Terminal	Continuity
B247	11	B244	5	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	11		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "RH: Removal and Installation".

NO >> Repair or replace harness.

### 4. CHECK ENCODER CIRCUIT 2

- 1. Disconnect sliding door control unit RH connector.
- 2. Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door control unit RH		Automatic sliding door unit RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B247	4	B244	7	Existed
D241	21	D244	6	LXISIEU

3. Check continuity between sliding door control unit RH harness connector and ground.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door control unit RH			Continuity
Connector	Terminal	Cround	
B247	4	Ground	Not existed
D241	21		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

### 5. CHECK ENCODER GROUND CIRCUIT

1. Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door co	ontrol unit RH	Automatic sliding door unit RH		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B247	26	B244	8	Existed	

2. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	26		Not existed

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

### 6. CHECK ENCODER CIRCUIT 3

- 1. Connect sliding door control unit RH connector and automatic sliding door unit RH connector.
- 2. Check voltage between sliding door control unit RH harness connector and ground.

(+)			
Sliding door control unit RH		(–)	Voltage
Connector	Terminal		
B247	26	Ground	0 V

#### Is the inspection result normal?

YES >> Replace automatic sliding door unit RH.

NO >> Replace sliding door control unit RH. Refer to DLK-493, "RH: Removal and Installation".

### 7.CHECK AUTOMATIC SLIDING DOOR MOTOR CIRCUIT

- Disconnect sliding door control unit RH connector and automatic sliding door unit RH connector.
- Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door c	ontrol unit RH	Automatic sliding door unit RH  Connector Terminal Con		Continuity
Connector	Terminal			Continuity
B249	43	B245	4	Existed
D243	46	D243	3	LXISIGU

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground Not existed	Continuity
B249	43		Not existed
	46		NOT EXISTED

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### < DTC/CIRCUIT DIAGNOSIS >

### Is the inspection result normal?

YES >> Replace automatic sliding door unit RH.

NO >> Repair or replace harness.

< DTC/CIRCUIT DIAGNOSIS >

# B2413 AUTOMATIC SLIDING DOOR MOTOR/ENCODER SLIDING DOOR LH

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SLIDING DOOR LH : DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2413	ASD MTR/ENCDR	When sliding door control unit detects pulse signal that is in the reverse direction of sliding door motor operation	Reverse connection of harness between encoder and sliding door control unit     Reverse connection of harness between automatic sliding door motor and sliding door control unit     Encoder     Automatic sliding door motor     Sliding door control unit

#### DTC CONFIRMATION PROCEDURE

### 1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

2. Check "Self Diagnostic Result" mode of "AUTO SLIDE DOOR" using CONSULT.

#### Is DTC detected?

YES >> Refer to <u>DLK-203</u>, "SLIDING DOOR LH: <u>Diagnosis Procedure"</u>.

NO >> INSPECTION END

### SLIDING DOOR LH : Diagnosis Procedure

INFOID:0000000011321901

## 1. CHECK ENCODER CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door control unit LH connector and automatic sliding door unit LH connector.
- 3. Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door c	Sliding door control unit LH A		g door unit LH	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
	4		6	Existed	
B45	21	B65	7	Existed	
	4	B05	7	Not existed	
	21		6	Not existed	

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

### 2.CHECK AUTOMATIC SLIDING DOOR MOTOR CIRCUIT

Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

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#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door co	Sliding door control unit LH		Automatic sliding door unit LH		
Connector	Terminal	Connector	Terminal	Continuity	
	43		3 Evicte	Existed	
B47	46	B33 4	4	Existed	
D4 <i>1</i>	43		4	Not existed	
	46		3	Not existed	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.check automatic sliding door unit LH $\,$

- 1. Replace automatic sliding door unit LH. (New unit or other unit)
- 2. Erase DTC.
- Operate auto open/close function.

#### Is DTC detected?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> INSPECTION END

SLIDING DOOR RH

SLIDING DOOR RH: DTC Logic

INFOID:0000000011321902

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2413	ASD MTR/ENCDR	When sliding door control unit detects pulse signal that is in the reverse direction of sliding door motor operation	Reverse connection of harness between encoder and sliding door control unit     Reverse connection of harness between automatic sliding door motor and sliding door control unit     Encoder     Automatic sliding door motor     Sliding door control unit

#### DTC CONFIRMATION PROCEDURE

### 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is DTC detected?

YES >> Refer to DLK-204, "SLIDING DOOR RH: Diagnosis Procedure".

NO >> INSPECTION END

### SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011321903

### 1. CHECK ENCODER CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect sliding door control unit RH connector and automatic sliding door unit RH connector.
- Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door c	Sliding door control unit RH		Automatic sliding door unit RH		
Connector	Terminal	Connector	Terminal	Continuity	
	4	B244 7 6	7	Existed	
B247	21		6	LAISIEU	
D247	4		6	Not existed	
	21		7 Not exis	Not existed	

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

### 2.CHECK AUTOMATIC SLIDING DOOR MOTOR CIRCUIT

Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door co	ontrol unit RH	Automatic sliding	g door unit RH	Continuity
Connector	Terminal	Connector		
	43		4	Existed
B249	46	B245 -	3	Existed
D249	43		3	Not existed
	46		4	inoi existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3. CHECK AUTOMATIC SLIDING DOOR UNIT RH

- Replace automatic sliding door unit RH. (New unit or other unit)
- 2. Erase DTC.
- 3. Operate auto open/close function.

#### Is DTC detected?

YES >> Replace sliding door control unit RH. Refer to DLK-493, "RH: Removal and Installation".

NO >> INSPECTION END

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**DLK-205** Revision: 2014 August **2015 QUEST** 

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#### < DTC/CIRCUIT DIAGNOSIS >

### B2414 AUTOMATIC SLIDING DOOR MOTOR

### SLIDING DOOR LH

SLIDING DOOR LH: DTC Logic

INFOID:0000000011321904

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2414	ASD MTR TIME OUT	When the sliding door control unit and sliding door motor operate in the same direction for 15 seconds or more continuously	Clutch     Automatic sliding door motor     Sliding door control unit     Battery voltage (low battery)

#### DTC CONFIRMATION PROCEDURE

### 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is DTC detected?

YES >> Refer to <u>DLK-206</u>, "SLIDING DOOR LH: <u>Diagnosis Procedure</u>".

NO >> INSPECTION END

### SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011321905

## 1. CHECK SLIDING DOOR CONTROL UNIT LH POWER SUPPLY

Check sliding door control unit LH power supply.

Refer to DLK-239, "SLIDING DOOR CONTROL UNIT: Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2. CHECK CLUTCH

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- Select "CLUTCH" in "ACTIVE TEST" mode.
- 3. Touch "HOLD" or "RELEASE" to check that it works normally.

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 4.

# 3.check automatic sliding door motor output signal

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic sliding door unit LH connector.
- 3. Check voltage between automatic sliding door unit LH harness connector and ground.

	(+) Automatic sliding door unit LH		Condition		Voltage
Connector	Terminal				
	3			Auto open operation	9 – 16 V
B33		Ground	Sliding door LH	Other than above	0 – 1.5 V
В33	4 Shung do		Silding door Life	Auto close operation	9 – 16 V
				Other than above	0 – 1.5 V

#### Is the inspection result normal?

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH : Removal and Installation"</u>. NO >> GO TO 5.

### 4. CHECK CLUTCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door control unit LH connector and automatic sliding door unit LH connector.
- Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door c	ontrol unit LH	Automatic sliding door unit LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B47	44	B33	1	Existed
D4 <i>1</i>	47	DSS	2	Existed

4. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door co	ontrol unit LH	ol unit LH	
Connector	Terminal	Ground	Continuity
B47	44	Ground	Not existed
547	47		NOT EXISTED

#### Is the inspection result normal?

YES >> Replace automatic sliding door unit LH.

NO >> Repair or replace harness.

### ${f 5.}$ CHECK AUTOMATIC SLIDING DOOR MOTOR CIRCUIT

- 1. Disconnect sliding door control unit LH connector.
- 2. Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door co	ontrol unit LH	Automatic sliding door unit LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B47	43	B33	3	Existed
U+1	46	500	4	LAISIEU

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door co	ontrol unit LH		Continuity
Connector	Terminal	Ground	Continuity
B47	43	Ground	Not existed
741	46	_	Not Calsted

#### Is the inspection result normal?

YES >> Replace automatic sliding door unit LH.

NO >> Repair or replace harness.

SLIDING DOOR RH

SLIDING DOOR RH: DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2414	ASD MTR TIME OUT	When the sliding door control unit and sliding door motor operate in the same direction for 15 seconds or more continuously	Clutch Automatic sliding door motor Sliding door control unit Battery voltage (low battery)

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#### < DTC/CIRCUIT DIAGNOSIS >

#### DTC CONFIRMATION PROCEDURE

### 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is DTC detected?

YES >> Refer to <u>DLK-208</u>, "<u>SLIDING DOOR RH</u>: <u>Diagnosis Procedure</u>".

NO >> INSPECTION END

### SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011321907

### 1. CHECK SLIDING DOOR CONTROL UNIT RH POWER SUPPLY

Check sliding door control unit RH power supply.

Refer to <u>DLK-239</u>, "SLIDING DOOR CONTROL UNIT: Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2. CHECK CLUTCH

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "CLUTCH" in "ACTIVE TEST" mode.
- 3. Touch "HOLD" or "RELEASE" to check that it works normally.

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 4.

# 3.check automatic sliding door motor output signal

- 1. Turn ignition switch OFF.
- Disconnect automatic sliding door unit RH connector.
- 3. Check voltage between automatic sliding door unit RH harness connector and ground.

(+) Automatic sliding door unit RH		(–)	Condition		Voltage
Connector	Terminal				
	3			Auto close operation	9 – 16 V
B245		Ground		Other than above	0 – 1.5 V
D243	4	Giodila	Sliding door RH	Auto open operation	9 – 16 V
				Other than above	0 – 1.5 V

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493, "RH: Removal and Installation"</u>.

NO >> GO TO 5.

### 4. CHECK CLUTCH CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door control unit RH connector and automatic sliding door unit RH connector.
- 3. Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door co	Sliding door control unit RH		Automatic sliding door unit RH			
Connector	Terminal	Connector Terminal		Continuity		
B249	44	B245	1	Existed		
D2+9	47	D243	2	Existed		

4. Check continuity between sliding door control unit RH harness connector and ground.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door	control unit RH		Continuity	
Connector	Terminal	Ground	Continuity	
B249	44		Not existed	
D2+0	47		Not existed	

#### Is the inspection result normal?

YES >> Replace automatic sliding door unit RH.

NO >> Repair or replace harness.

# 5.check automatic sliding door motor circuit

- Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door o	ontrol unit RH	Automatic sliding door unit RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B249	43	B245	4	Existed
D249	46	D245	3	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door o	control unit RH		Continuity	
Connector	Connector Terminal		Continuity	
B249	43	Ground	Not existed	
6249	46			

#### Is the inspection result normal?

YES >> Replace automatic sliding door unit RH.

NO >> Repair or replace harness.

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**DLK-209** Revision: 2014 August **2015 QUEST**  Α

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### **B2416 TOUCH SENSOR RH**

DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2416	TOUCH SEN R OPEN	When the automatic back door control unit detects the open circuit of the back door touch sensor RH	Back door touch sensor RH     Harness or connectors     (Back door touch sensor RH circuit is open)     Automatic back door control module

#### 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 <u>DLK-210</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

### Diagnosis Procedure

INFOID:0000000011321909

### 1. CHECK TOUCH SENSOR INPUT SIGNAL

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

(	(+)	(-	-)			
Back door to	uch sensor RH		door control mod- le	Condition		Voltage
Connector	Terminal	Connector	Terminal			
D191	1	B8	14	Back door touch	Detect obstruc- tion	0 – 1.5 V
0191	I	БО	14	sensor RH	Other than above	5 – 6.7 V

#### Is the inspection result normal?

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

# 2.check back door touch sensor rh circuit

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

Automatic back door control module		Back door touch sensor RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B8	13	D191	1	Existed

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

Automatic back do	or control module		Continuity	
Connector	Connector Terminal		Continuity	
B8	13		Not existed	

#### **B2416 TOUCH SENSOR RH**

#### < DTC/CIRCUIT DIAGNOSIS >

#### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-488, "Removal and Installation".

NO >> Repair or replace harness.

# 3.check back door touch sensor RH ground circuit

1. Disconnect automatic back door control module connector and back door touch sensor RH connector.

Check continuity between automatic back door control module harness connector and back door touch sensor RH harness connector.

Automatic back do	Automatic back door control module		Back door touch sensor RH		
Connector	Terminal	Connector Terminal		Continuity	
B8	14	D191	2	Existed	

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

Automatic back do	or control module		Continuity
Connector	Terminal	Ground	Continuity
B8	14		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK BACK DOOR TOUCH SENSOR RH GROUND CIRCUIT 2

1. Connect automatic back door control module connector and back door touch sensor RH connector.

2. Check voltage between automatic back door control module harness connector and ground.

	(+)		
Automatic back	door control module	(–)	Voltage
Connector	Terminal		
B8	14	Ground	0 – 1.5 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door control module. Refer to <u>DLK-488</u>, "Removal and Installation".

### 5.CHECK BACK DOOR TOUCH SENSOR RH

Refer to DLK-211, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door touch sensor RH.

#### **6.**CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

### Component Inspection

### 1. CHECK TOUCH SENSOR RH

- Turn ignition switch OFF.
- Disconnect back door touch sensor RH connector.
- Check resistance between back door touch sensor RH terminals.

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### **B2416 TOUCH SENSOR RH**

### < DTC/CIRCUIT DIAGNOSIS >

Back door touch sensor RH Terminal		Condition		Resistance
ı	2	Other than above	0.9 - 1.1 kΩ	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door touch sensor RH.

#### **B2417 TOUCH SENSOR LH**

< DTC/CIRCUIT DIAGNOSIS >

### **B2417 TOUCH SENSOR LH**

**DTC** Logic INFOID:0000000011321911

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2417	TOUCH SEN L OPEN	When the automatic back door control unit detects the open circuit of the back door touch sensor LH.	Back door touch sensor LH     Harness or connectors     (Back door touch sensor LH circuit is open)     Automatic back door control module

#### DTC CONFIRMATION PROCEDURE

# 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is DTC detected?

YES >> Refer to DLK-213, "Diagnosis Procedure".

>> INSPECTION END NO

### Diagnosis Procedure

1. CHECK BACK DOOR TOUCH SENSOR INPUT SIGNAL

Turn ignition switch OFF.

Check voltage between back door touch sensor LH harness connector and automatic back door control module harness connector.

(	(+)	(	<b>-</b> )			_
Back door to	uch sensor LH		utomatic back door control mod- ule		Condition	
Connector	Terminal	Connector	Terminal			
D165	1	B8	14	Back door touch	Detect obstruc- tion	0 – 1.5 V
D103	'	Во	14	sensor LH	Other than above	5 – 6.7 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.check back door touch sensor $\,$ Lh circuit

Disconnect automatic back door control module connector and back door touch sensor LH connector.

2. Check continuity between automatic back door control module harness connector and back door touch sensor LH harness connector.

Automatic back do	or control module	Back door touch sensor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B8	15	D165	1	Existed

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

Automatic back door control module			Continuity	
Connector Terminal		Ground	Continuity	
B8	15		Not existed	

**DLK-213** Revision: 2014 August **2015 QUEST** 

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#### **B2417 TOUCH SENSOR LH**

#### < DTC/CIRCUIT DIAGNOSIS >

#### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-488, "Removal and Installation"</u>.

NO >> Repair or replace harness.

# 3.check back door touch sensor $\,$ LH ground circuit

1. Disconnect automatic back door control module connector and back door touch sensor LH connector.

Check continuity between automatic back door control module harness connector and back door touch sensor LH harness connector.

Automatic back door control module		Back door touch sensor LH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B8	14	D165	2	Existed	

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

Automatic back door control module			Continuity	
Connector Terminal		Ground	Continuity	
B8	14		Not existed	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK BACK DOOR TOUCH SENSOR LH GROUND CIRCUIT 2

- 1. Connect automatic back door control module connector and back door touch sensor LH connector.
- 2. Check voltage between automatic back door control module harness connector and ground.

(+)			
Automatic back door control module		(–)	Voltage
Connector	Terminal		
B8	14	Ground	0 – 1.5 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door control module. Refer to <u>DLK-488</u>, "Removal and Installation".

#### 5. CHECK BACK DOOR TOUCH SENSOR LH

Refer to DLK-214, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door touch sensor LH.

#### 6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### Component Inspection

INFOID:0000000011321913

# 1. CHECK BACK DOOR TOUCH SENSOR LH

- 1. Turn ignition switch OFF.
- Disconnect back door touch sensor LH connector.
- Check resistance between back door touch sensor LH terminals.

### **B2417 TOUCH SENSOR LH**

#### < DTC/CIRCUIT DIAGNOSIS >

Back door touch sensor LH		- Condition		Resistance
Terminal				i vesisiance
1	2	Back door touch sensor	Detect obstruction	360 - 440 Ω
ı	2	LH	Other than above	360 - 440 Ω 0.9 - 1.1 kΩ

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#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door touch sensor LH.

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### **B2419 OPEN SWITCH**

DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2419	OPEN SW	When the automatic back door control unit detects any of the following conditions  • The change of open switch cannot be detected for 1 second or more after starting the closure open output for the 3rd time in a row  • The change of open switch cannot be detected for 0.5 second or more after starting the closure close output for the 3rd time in a row  • The condition that the open switch is in the ON position and the close switch is in the OFF position is detected when starting the closure open/close output for the 3rd time in a row	Open switch     Harness or connectors     (Open switch circuit is open or shorted)     Automatic back door control module

#### DTC CONFIRMATION PROCEDURE

# 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is DTC detected?

YES >> Refer to <u>DLK-216</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

### Diagnosis Procedure

INFOID:0000000011321915

# 1. CHECK AUTOMATIC BACK DOOR CONTROL MODULE OUTPUT 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		(–)	Voltage
Connector	Terminal		
D190	4	Ground	9 - 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.check open switch circuit

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

Automatic back door control module		Back door lock assembly		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B8	24	D190	4	Existed	

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

#### **B2419 OPEN SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B8	24		Not existed

#### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-488, "Removal and Installation"</u>.

NO >> Repair or replace harness.

## 3.check open switch ground circuit

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

Back door lock as	sembly		Continuity
Connector	Connector Terminal		Continuity
D190	8		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

#### 4. CHECK OPEN SWITCH

Refer to DLK-217, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

### **5.**CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

#### Component Inspection

COMPONENT INSPECTION

## 1. CHECK OPEN SWITCH

- Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- 3. Check continuity between back door lock assembly terminals.

Back door lock assembly Terminal		Condition		Continuity
4	0	Back door	Fully closed/Half latch	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

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Revision: 2014 August DLK-217 2015 QUEST

## **B2420 CLOSE SWITCH**

DTC Logic INFOID:0000000011321917

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2420	CLOSE SW	When the automatic back door control unit detects any of the following condition  The change of close switch cannot be detected for 3 second or more after starting the closure close output for the 3rd time in a row	Close switch Harness or connectors (Close switch circuit is open or shorted) Automatic back door control module

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is DTC detected?

YES >> Refer to <u>DLK-218</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

### Diagnosis Procedure

INFOID:0000000011321918

## 1.CHECK AUTOMATIC BACK DOOR CONTROL MODULE OUTPUT 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		(–)	Voltage
Connector	Terminal		
D190	5	Ground	9 - 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2. CHECK CLOSE SWITCH CIRCUIT

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

Automatic back door control module		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B8	20	D190	5	Existed

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

Automatic back d	oor control module		Continuity
Connector Terminal		Ground	Continuity
B8	20		Not existed

#### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <a href="DLK-488"><u>DLK-488</a>, "Removal and Installation"</u></a>

#### **B2420 CLOSE SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

## 3.check close switch ground circuit

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

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D190	8		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK CLOSE SWITCH

Refer to DLK-219, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## Component Inspection

## 1. CHECK CLOSE SWITCH

- Turn ignition switch OFF.
- Disconnect back door lock assembly. 2.
- Check continuity between back door lock assembly terminals.

Back door lock assembly		Condition		Continuity	
Terminal					
E 0		Back door	Fully closed	Existed	
	0	Dack door	Open/Half latch	Not existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. DLK

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**DLK-219** Revision: 2014 August **2015 QUEST** 

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#### **B2421 CLUTCH OPERATION TIME**

#### < DTC/CIRCUIT DIAGNOSIS >

## **B2421 CLUTCH OPERATION TIME**

DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2421	CLUTCH TIME OUT	When the automatic back door control unit detects the power distribution to the clutch for 2 minutes or more	Automatic back door control mod- ule     Battery voltage (low voltage)

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is DTC detected?

YES >> Refer to <u>DLK-220, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

### Diagnosis Procedure

INFOID:0000000011321921

## 1.check automatic back door control module power supply and ground circuit

- 1. Turn ignition switch OFF.
- 2. Check automatic back door control module power supply and ground circuit.

  Refer to <a href="DLK-238">DLK-238</a>, "AUTOMATIC BACK DOOR CONTROL MODULE: Diagnosis Procedure".

#### Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to <u>DLK-488, "Removal and Installation"</u>.
- NO >> Repair or replace the malfunctioning parts.

#### **B2422 BACK DOOR STATE**

#### < DTC/CIRCUIT DIAGNOSIS >

### **B2422 BACK DOOR STATE**

**DTC Logic** INFOID:0000000011321922

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2422	BACK DOOR STATE	When the automatic back door control unit detects back door position malfunction according to the pulse signal	Back door mechanism     Automatic back door control module

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is DTC detected?

YES >> Refer to <u>DLK-221, "Diagnosis Procedure"</u>.

>> INSPECTION END NO

### Diagnosis Procedure

1. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

When DTC [B2422] is detected, replace automatic back door control module.

>> Replace automatic back door control module. Refer to DLK-488, "Removal and Installation".

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**DLK-221** Revision: 2014 August **2015 QUEST** 

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#### **B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME**

< DTC/CIRCUIT DIAGNOSIS >

### B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2423	ABD MTR TIME OUT	When the automatic back door control unit and automatic back door motor operate in the same direction for 30 seconds or more continuously	Back door mechanism     Automatic back door control module     Battery voltage (low battery)

#### 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 <u>DLK-222</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

### Diagnosis Procedure

INFOID:0000000011321925

## 1. CHECK AUTOMATIC BACK DOOR CONTROL MODULE POWER SUPPLY AND GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- Check automatic back door control module power supply and ground circuit.
   Refer to <u>DLK-238</u>, "<u>AUTOMATIC BACK DOOR CONTROL MODULE</u>: <u>Diagnosis Procedure</u>".

#### Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to DLK-488, "Removal and Installation".
- NO >> Repair or replace the malfunctioning parts.

#### **B2424 CLOSURE CONDITION**

< DTC/CIRCUIT DIAGNOSIS >

### **B2424 CLOSURE CONDITION**

DTC Logic INFOID:0000000011321926

#### DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC detecting condition	Possible cause
B2424	CLSR CONDITION	When the following condition is detected after OPEN/CLOSE operation of the back door closure motor  • Open switch and close switch are ON	Harness or connector     (Open switch or close switch circuit is open or shorted)     Back door lock assembly

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

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

### Is DTC detected?

YES >> Refer to <u>DLK-223</u>, "<u>Diagnosis Procedure</u>".

>> INSPECTION END NO

## Diagnosis Procedure

1. CHECK AUTOMATIC BACK DOOR CONTROL MODULE OUTPUT

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

(+)			
Back door lock	assembly	(-)	Voltage
Connector	Connector Terminal		
D190	4	Ground	9 - 16 V
0190	5	Giouria	9 - 10 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2.CHECK OPEN/CLOSE SWITCH CIRCUIT

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

Automatic back doc	or control module	Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B8	20	D190	5	Existed
DO	24	190	4	EXISTEC

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

Automatic back de	oor control module		Continuity	
Connector Terminal		Ground	Continuity	
B8	20	Giodila	Not existed	
	24	-	NOT EXISTED	

**DLK-223** Revision: 2014 August **2015 QUEST** 

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#### **B2424 CLOSURE CONDITION**

#### < DTC/CIRCUIT DIAGNOSIS >

#### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-488, "Removal and Installation"</u>.

NO >> Repair or replace harness.

## 3. CHECK GROUND CIRCUIT

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

Back door lock as	ssembly		Continuity
Connector Terminal		Ground	Continuity
D190	8		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK OPEN/CLOSE SWITCH

Refer to DLK-224, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## Component Inspection

INFOID:0000000011321928

## 1. CHECK OPEN/CLOSE SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect back door lock assembly.
- 3. Check continuity between back door lock assembly terminals.

Back door lo	ock assembly	Condition		Continuity	
Terminal		Condition		Continuity	
	0	Back door lock	Fully closed	Existed	
5			Open/half latch	Not existed	
4	0	Back Gool lock	Open	Existed	
			Fully closed/half latch	Not existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

#### **B2425 AUTOMATIC BACK DOOR CONTROL UNIT**

< DTC/CIRCUIT DIAGNOSIS >

## **B2425 AUTOMATIC BACK DOOR CONTROL UNIT**

**DTC** Logic INFOID:0000000011321929

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible cause
B2425	AUTO BCK DR CNT UNIT	Automatic back door control unit detected CPU malfunction	Automatic back door control module

## Diagnosis Procedure

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1. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

When DTC [B2425] is detected, replace automatic back door control module.

>> Replace automatic back door control module. Refer to <u>DLK-488, "Removal and Installation"</u>.

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**DLK-225** Revision: 2014 August **2015 QUEST** 

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### **B2621 INSIDE ANTENNA**

DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2621	INSIDE ANTENNA	An excessive high or low voltage from inside antenna (instrument center) is sent to BCM	Inside key antenna (instrument center)     Harness or connector (Front inside key antenna (instrument center) circuit is open or shorted)

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

- Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
- 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 <u>DLK-226, "Diagnosis Procedure"</u>.

NO >> Inside key antenna (instrument center) is OK.

### Diagnosis Procedure

INFOID:0000000011321932

## 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(–) Condition		Signal (Reference value)
Connector	Terminal			(Iteleferice value)
M124	84, 85	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GE
1VI 1 2 4	04, 03	Giound	When Intelligent Key is not in the antenna detection area	(V) 15 10 15 10 1

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> GO TO 2.

### 2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and inside key antenna (instrument center) connector.

#### **B2621 INSIDE ANTENNA**

#### < DTC/CIRCUIT DIAGNOSIS >

2. Check continuity between BCM harness connector and inside key antenna (instrument center) harness connector.

ВСМ		Inside key antenna (instrument center)		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M124	84	M105	1	Existed	
IVI 124	85	WITOS	2	LAISIEU	

3. Check continuity between BCM harness connector and ground.

В	CM	Ground	Continuity
Connector	Terminal		Continuity
M124	84	Glound	Not existed
101124	85		Not existed

#### 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 using oscilloscope.

	(+) BCM		Condition	Signal (Reference value)
Connector	Terminal			,
M124	84, 85	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB
			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA5951GB

#### Is the inspection result normal?

YES >> Replace inside key antenna (instrument center).

NO >> Replace BCM. Refer to <u>BCS-98</u>. "Removal and Installation".

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### **B2622 INSIDE ANTENNA**

DTC Logic INFOID:0000000011321933

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA	An excessive high or low voltage from inside antenna (console) is sent to BCM	Inside key antenna (console)     Harness or connector     (Front inside key antenna (console) circuit is open or shorted)

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

- Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
- 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 <u>DLK-228</u>, "<u>Diagnosis Procedure</u>".

NO >> Inside key antenna (console) is OK.

### Diagnosis Procedure

INFOID:0000000011321934

## 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M124	86, 87	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB
WIZ-	66, 67	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 1

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> GO TO 2.

### 2. CHECK INSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect BCM connector and inside key antenna (console) connector.
- 2. Check continuity between BCM harness connector and inside key antenna (console) harness connector.

#### **B2622 INSIDE ANTENNA**

#### < DTC/CIRCUIT DIAGNOSIS >

ВСМ		Inside key ant	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M124	86	B242	1	Existed
IVI I <del>2 4</del>	87	D242	2	LXISIEU

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M124	86	Ground	Not existed	
W1124	87		Not existed	

#### 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 (console). (New antenna or other antenna)
- 2. Connect BCM connector and inside key antenna (console) connector.
- 3. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			(itoloronoo valao)
M124	86, 87		When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB
101124	50, 57	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA5951GB

### Is the inspection result normal?

YES >> Replace inside key antenna (console).

NO >> Replace BCM. Refer to <u>BCS-98</u>, "Removal and Installation".

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### **B2623 INSIDE ANTENNA**

DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2623	INSIDE ANTENNA	An excessive high or low voltage from inside antenna (luggage room) is sent to BCM	Inside key antenna (luggage room)     Harness or connector     (Front inside key antenna (luggage room) circuit is open or shorted)

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

- Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "INSIDE ANT DIAGNOSIS" in "WORK SUPPORT" mode.
- 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 <u>DLK-230, "Diagnosis Procedure"</u>.

NO >> Inside key antenna (luggage room) is OK.

## Diagnosis Procedure

INFOID:0000000011321936

## 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			,
M124	88, 89	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB
WIIZ4	00, 69	Giodila	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s  JMKIA5951GB

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> GO TO 2.

### 2. CHECK INSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect BCM connector and inside key antenna (luggage room) connector.
- 2. Check continuity between BCM harness connector and inside key antenna (luggage room) harness connector.

#### **B2623 INSIDE ANTENNA**

#### < DTC/CIRCUIT DIAGNOSIS >

ВСМ		Inside key anteni	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M124	88	B241	1	Existed
IVI 124	89	D241	2	LAISIGU

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M124	88	Ground	Not existed
IVI 124	89		INOL EXISTED

#### 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. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			(Netereffice value)
M124	88, 89	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB
IVI124	oo, o <del>o</del>	Giounu	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s  JMKIA5951GB

#### Is the inspection result normal?

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

NO >> Replace BCM. Refer to <u>BCS-98</u>, "Removal and Installation".

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## **B2626 OUTSIDE ANTENNA**

DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2626	OUTSIDE ANTENNA	An excessive high or low voltage from front door right outside key antenna is sent to BCM	Front door right outside key antenna     Harness or connector     (Front door right outside key antenna circuit is open or shorted)

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" mode of "BCM" using CONSULT.

#### Is DTC detected?

YES >> Refer to <u>DLK-232</u>, "<u>Diagnosis Procedure</u>".

NO >> Outside key antenna (passenger side) is OK.

## Diagnosis Procedure

INFOID:0000000011321938

## 1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition		Signal (Reference value)	
Connector	Terminal				(1.6.6.6.6.6	
M124	80, 81	Ground	When the passenger door request switch is	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 500 ms JMKIA5955GB	
			operated with power switch ON	When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 500 ms  JMKIA5954GB	

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> GO TO 2.

## 2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect BCM connector and front door outside handle assembly RH connector.
- Check continuity between BCM harness connector and front door outside handle assembly RH harness connector.

#### **B2626 OUTSIDE ANTENNA**

#### < DTC/CIRCUIT DIAGNOSIS >

ВСМ		Front door outside handle assembly RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M124	80	D31	1	Existed
IVI 124	81	D31	2	LXISIEU

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M124	80	Ground	Not existed	
	81		NOT EXISTED	

#### 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 (passenger side). (New antenna or other antenna)
- 2. Connect BCM connector and front door outside handle assembly RH connector.
- 3. Turn ignition switch ON.
- 4. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(–)	Con	dition	Signal (Reference value)	
Connector	Terminal				(Note: enec value)	
M124	80, 81	Ground	When the passenger door request switch is	When Intelligent Key is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less)	(V) 15 10 5 0 500 ms JMKIA5955GB	
W1124	60, 61	Glound	operated with power switch ON	When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m)	(V) 15 10 5 0 500 ms JMKIA5954GB	

#### Is the inspection result normal?

YES >> Replace front door outside handle assembly RH (outside key antenna).

NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

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#### **B2627 OUTSIDE ANTENNA**

### **B2627 OUTSIDE ANTENNA**

**DTC** Logic INFOID:0000000011321939

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2627	OUTSIDE ANTENNA	An excessive high or low voltage from front door left outside key antenna is sent to BCM	Front door left outside key antenna     Harness or connector     (Front door left outside key antenna circuit is open or shorted)

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self Diagnostic Result" mode of "BCM" using CONSULT.

#### Is DTC detected?

>> Refer to <u>DLK-234, "Diagnosis Procedure"</u>. >> Outside key antenna (driver side) is OK. YES

NO

## Diagnosis Procedure

INFOID:0000000011321940

## 1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

	+) CM Terminal	(–)	Condition		Signal (Reference value)
M124	78.79	Ground	When the driver door request switch is oper-	When Intelligent Key is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less)	(V) 15 10 5 0  JMKIA5955GB
IVI 124	10,19	Glound	ated with power switch ON	When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m)	(V) 15 10 5 0 500 ms

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> GO TO 2.

## 2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

- Disconnect BCM connector and front door outside handle assembly LH connector.
- 2. Check continuity between BCM harness connector and front door outside handle assembly LH harness connector.

#### **B2627 OUTSIDE ANTENNA**

#### < DTC/CIRCUIT DIAGNOSIS >

ВСМ		Front door outside handle assembly LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M124	78	D32	1	Existed
IVI 124	79	D32	2	LXISIEU

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M124	78	Ground	Not existed
IVI 124	79		Not existed

#### 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 (driver side). (New antenna or other antenna)
- 2. Connect BCM connector and front door outside handle assembly LH connector.
- 3. Turn ignition switch ON.
- 4. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(-)	Con	dition	Signal	
Connector	Terminal	. ,			(Reference value)	
M424	79 70	Cround	When the driver door request switch is oper-	When Intelligent Key is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less)	(V) 15 10 5 0 500 ms	
M124	78,79	Ground	ated with power switch ON	When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m)	(V) 15 10 5 0 500 ms  JMKIA5954GB	

#### Is the inspection result normal?

YES >> Replace front door outside handle assembly LH (outside key antenna).

NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

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### **B2628 OUTSIDE ANTENNA**

DTC Logic

#### DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2628	OUTSIDE ANTENNA	An excessive high or low voltage from outside key antenna (rear bumper) is sent to BCM	Outside key antenna (rear bumper)     Harness or connector (Outside key antenna (rear bumper) circuit is open or shorted)

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self Diagnostic Result" mode of "BCM" using CONSULT.

#### Is DTC detected?

YES >> Refer to <u>DLK-230</u>, "<u>Diagnosis Procedure</u>".

NO >> Outside key antenna (rear bumper) is OK.

## Diagnosis Procedure

INFOID:0000000011321942

## 1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(–)	Condition		Signal (Reference value)	
Connector	Terminal				(Notoronoo value)	
M124	82, 83	Ground	When the back door request switch is oper-	When Intelligent Key is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less)	(V) 15 10 5 0 500 ms  JMKIA5955GB	
W124	62, 65	Ciouna	ated with power switch ON	When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m)	(V) 15 10 5 0 500 ms	

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> GO TO 2.

## 2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect BCM connector and outside key antenna (rear bumper) connector.
- 2. Check continuity between BCM harness connector and outside key antenna (rear bumper) harness connector.

#### **B2628 OUTSIDE ANTENNA**

#### < DTC/CIRCUIT DIAGNOSIS >

ВСМ		Outside key antenna (rear bumper)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M124	82	B303	1	Existed
IVI 1 2 4	83		2	LXISIEU

3. Check continuity between BCM harness connector and ground.

В	CM		
Connector	Terminal	Ground	Continuity
M124	82	Giodila	Not existed
IVI 124	83		INOL GAISTED

#### 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. Turn ignition switch ON.
- 4. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(–)	Condition		Signal (Reference value)	
Connector	Terminal				(Neierence value)	
M124	82, 83	Ground	When the back door request switch is oper-	When Intelligent Key is in the antenna de- tection area (The dis- tance between Intelligent Key and an- tenna: 80 cm or less)	(V) 15 10 5 0 5 0 JMKIA5955GB	
W1124	62, 63	Glound	ated with power switch ON	When Intelligent Key is not in the antenna detection area (The distance between In- telligent Key and an- tenna: Approx. 2 m)	(V) 15 10 5 0 	

#### Is the inspection result normal?

YES >> Replace outside key antenna (rear bumper).

NO >> Replace BCM. Refer to BCS-98. "Removal and Installation".

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#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

# POWER SUPPLY AND GROUND CIRCUIT AUTOMATIC BACK DOOR CONTROL MODULE

## AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure

INFOID:0000000011321943

## 1. CHECK FUSE, FUSIBLE LINK AND CIRCUIT BREAKER

Check that the following fuse, fusible link and circuit breaker are not fusing.

Fuse and fusible link No.	Signal name	
J (40A)	Battery power supply	
9 (10A)	- Battery power suppry	
3 (10A)	Ignition power supply	

#### Is the fuse fusing?

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

NO >> GO TO 2.

## 2. CHECK POWER SUPPLY CIRCUIT

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

(+) Automatic back door control module		(–)	Condition		Voltage
Connector	Terminal				
	1			OFF	
B8	7	Ground	Ignition switch	ON	9 - 16 V
	9			OFF	

#### Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

### 3. CHECK GROUND CIRCUIT

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

Automatic back d	oor control module		Continuity	
Connector Terminal		Ground	Continuity	
B8 11			Existed	

#### Does continuity exist?

YES >> INSPECTION END

NO >> Repair or replace harness.

BACK DOOR CONTROL UNIT

## BACK DOOR CONTROL UNIT: Diagnosis Procedure

INFOID:0000000011321944

### 1.CHECK FUSE

Check that the following fusible link is not fusing.

Fusible link	Signal name
J (40A)	Battery power supply

#### Is the inspection result normal?

YES >> GO TO 2.

#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

NO >> Replace the blown fusible link after repairing the affected circuit if a fuse is blown.

## 2.CHECK POWER SUPPLY CIRCUIT

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

(	+)		
Back door	control unit	(–)	Voltage
Connector	Terminal		
D181	3	Ground	8 - 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3.CHECK GROUND CIRCUIT

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

Back door	control unit		Continuity	
Connector	Terminal	Ground	Continuity	
D101	7		Existed	
D181	8		Existed	

#### Is the inspection result normal?

>> INSPECTION END YES

NO >> Repair or replace harness.

#### SLIDING DOOR CONTROL UNIT

## SLIDING DOOR CONTROL UNIT: Diagnosis Procedure

1. CHECK FUSE, FUSIBLE LINK AND CIRCUIT BREAKER

## Turn ignition switch OFF.

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

Fuse and fusible link No.	Signal name	
3 (10 A)	Ignition power supply	
9 (10 A)	Pottory newer supply	
J(40 A)	Battery power supply	

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

## 2. CHECK POWER SUPPLY CIRCUIT

- Disconnect sliding door control unit connector.
- 2. Check voltage between sliding door control unit harness connector and ground.

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### **POWER SUPPLY AND GROUND CIRCUIT**

### < DTC/CIRCUIT DIAGNOSIS >

Sliding door LH					
(+)					
Sliding door	Sliding door control unit LH		Condition		Voltage
Connector	Terminal				
B45	6			ON	9 – 16 V
D43	12	Ground	Ignition awitch	OFF	8 – 16 V
B46	36	Ground	Ignition switch		9 – 16 V
D40	42			9 – 16 V	
Sliding door RH					
(	+)				
Sliding door	control unit RH	(–)	Condition		Voltage
Connector	Terminal				
B247	6			ON	9 – 16 V
6247	12	Ground	Ignition switch	OFF	8 – 16 V
B248	36	Giouna			9 – 16 V
D240	42				9 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK GROUND CIRCUIT

Check continuity between sliding door control unit harness connector and ground.

Sliding door LH

Sliding door	control unit LH		Continuity
Connector	Terminal		Continuity
B45	27	Ground	
B46	33		Existed
D40	37		
Sliding door RH			

Sliding door o	control unit RH		Continuity
Connector Terminal			Continuity
B247	27	Ground	
B248	33		Existed
D240	37		

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

#### **DOOR SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

### DOOR SWITCH

## Component Function Check

#### INFOID:0000000011321946

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## 1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL", "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
DOOK SW-DK	Driver side door	Closed	Off
DOOR SW-AS	December side door	Open	On
DOOR SW-AS	Passenger side door	Closed	Off
DOOR SW-RL	C	Open	On
DOOR SW-RL	Sliding door LH	Closed	Off
DOOD CW DD	Cliding door DLI	Open	On
DOOR SW-RR	Sliding door RH	Closed	Off

#### Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to <u>DLK-241</u>, "<u>Diagnosis Procedure</u>".

## Diagnosis Procedure

INFOID:0000000011321947

## 1. CHECK DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect malfunctioning door switch connector.
- 3. Check signal between malfunctioning door switch harness connector and ground using oscilloscope.

(+)  Door switch  Connector Terminal				
		(–)	Signal (Reference value)	
		Terminal		(Notoronoe value)
Driver side	B35			
Passenger side	B235			(V) 15
Sliding door LH	B71			10 10 10 10 10 10 10 10 10 10 10 10 10 1
Sliding door RH	B221	3	Ground	0 ++10ms   PKIB4960J   7.0 - 8.0 V

#### Is the inspection result normal?

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

2.check door switch circuit

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

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#### **DOOR SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

	Door switch		В	СМ	Continuity	
Con	nector	Terminal	Connector	Terminal	Continuity	
Driver side	B35			47		
Passenger side	B235	3	3	M122	45	Existed
Sliding LH	B71			IVITZZ	48	Existed
Sliding RH	B221			46		

3. Check continuity between door switch harness connector and ground.

Door switch				Continuity
Connector Terminal			Continuity	
Driver side	B35		Ground	
Passenger side	B235	Ground 3		Not existed
Sliding LH	B71	3		Not existed
Sliding RH	B221			

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> Repair or replace harness.

## 3. CHECK DOOR SWITCH

Refer to DLK-242, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch.

#### 4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## Component Inspection

INFOID:0000000011321948

## 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	Condition		Continuity	
3	Ground part of door switch	Door switch	Pressed	Existed	
	Ground part of door switch	DOOL SWITCH	Released	Not existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

#### **BACK DOOR SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

### **BACK DOOR SWITCH**

## Component Function Check

#### INFOID:0000000011321949

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## 1. CHECK FUNCTION

- Select "DOOR LOCK" of "BCM" using CONSULT.
- Select "DOOR SW-BK" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-BK	Back door	Open	On
DOOK SW-BK	Back door	Closed	Off

#### Is the inspection result normal?

YES >> Back door switch is OK.

NO >> Refer to <u>DLK-243</u>, "<u>Diagnosis Procedure</u>".

### Diagnosis Procedure

#### INFOID:0000000011321950

## 1. CHECK BACK DOOR SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- Check signal between back door lock assembly harness connector and ground using oscilloscope.

	+) ock assembly	(-)	Signal (Reference value)
Connector	Terminal		(
D190	7	Ground	(V) <sub>15</sub> 10 5 0 

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2.CHECK BACK DOOR SWITCH CIRCUIT

- Disconnect BCM connector.
- 2. Check continuity between back door lock assembly harness connector and BCM harness connector.

Back door lo	Back door lock assembly		BCM	
Connector	Terminal	Connector Terminal		Continuity
D190	7	M122	43	Existed

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

Back door lo	ock assembly		Continuity
Connector	Terminal	Ground	Continuity
D190	7		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> Repair or replace harness. DLK

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#### **BACK DOOR SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

## 3.check back door switch ground circuit

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

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D190	8		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BACK DOOR SWITCH

Refer to DLK-244, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

## Component Inspection

INFOID:0000000011321951

## 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
Terr	Terminal		Condition	
7	Q	Back door lock	Lock	Existed
,	0	Back Gool lock	Unlock	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

#### < DTC/CIRCUIT DIAGNOSIS >

## DOOR LOCK AND UNLOCK SWITCH

### WITH AUTOMATIC SLIDING DOOR

## WITH AUTOMATIC SLIDING DOOR: Component Function Check

#### INFOID:0000000011321952

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## 1. CHECK FUNCTION

- Select "DOOR LOCK" of "BCM" using CONSULT.
- Select "CDL LOCK SW", "CDL UNLOCK SW" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CDL LOCK SW		Lock	ON
	Door lock and unlock switch DL UNLOCK SW	Unlock	OFF
CDI TINI OCK SM		Lock	OFF
CDE ONLOCK SW		Unlock	ON

#### Is the inspection result normal?

>> Door lock and unlock switch is OK.

>> Refer to DLK-245, "WITH AUTOMATIC SLIDING DOOR: Diagnosis Procedure". NO

## WITH AUTOMATIC SLIDING DOOR: Diagnosis Procedure

#### INFOID:0000000011321953

### 1. CHECK POWER WINDOW OPERATION

- Turn ignition switch ON.
- Check power window operation.

#### Does power window operate?

YES >> Replace the malfunctioning power window switch.

>> Refer to PWC-52, "POWER WINDOW MAIN SWITCH: Diagnosis Procedure" (power window main switch), PWC-53, "FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Diagnosis Procedure" [front power window switch (passenger side)].

## WITHOUT AUTOMATIC SLIDING DOOR

## WITHOUT AUTOMATIC SLIDING DOOR: Component Function Check

## 1. CHECK FUNCTION

NO

- Select "DOOR LOCK" of "BCM" using CONSULT.
- Select "CDL LOCK SW", "CDL UNLOCK SW" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CDL LOCK SW		Lock	ON
	Door lock and unlock switch	Unlock	OFF
CDL UNLOCK SW	— Door lock and unlock switch	Lock	OFF
CDL UNLOCK SW		Unlock	ON

#### Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

>> Refer to DLK-245, "WITHOUT AUTOMATIC SLIDING DOOR: Diagnosis Procedure". NO

## WITHOUT AUTOMATIC SLIDING DOOR: Diagnosis Procedure

#### INFOID:0000000011321955

#### POWER WINDOW MAIN SWITCH

## 1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

Turn ignition switch OFF.

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#### < DTC/CIRCUIT DIAGNOSIS >

- 2. Disconnect power window main switch connector.
- 3. Check signal between power window main switch harness connector and ground using oscilloscope.

(+) Power window main switch		(-)	Signal (Reference value)	
Connector	Terminal		(	
D6	18			
D5	6	Ground	(V) 15 10 10 ms JPMIA0012GB 1.0 - 1.5 V	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

- 1. Disconnect BCM connector and power window main switch connector.
- 2. Check continuity between BCM harness connector and power window main switch harness connector.

В	CM	Power window main switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
M121	12	D6	18	Existed
IVITZT	13	D5	6	LAISIGU

3. Check continuity between BCM harness connector and ground.

E	BCM		Continuity	
Connector	Terminal	Ground	Continuity	
M121	12	Ground	Not existed	
IVIIZI	13		INOL EXISTED	

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> Repair or replace harness.

### 3.CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between power window main switch harness connector and ground.

Power windo	w main switch		Continuity
Connector	Terminal	Ground	Continuity
D6	17		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK DOOR LOCK AND UNLOCK SWITCH

Refer to DLK-248, "WITHOUT AUTOMATIC SLIDING DOOR: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window main switch. Refer to <a href="PWC-123">PWC-123</a>, "Removal and Installation".

## 5. CHECK INTERMITTENT INCIDENT

#### < DTC/CIRCUIT DIAGNOSIS >

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

#### FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

## 1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- 3. Check signal between front power window switch (passenger side) harness connector and ground using oscilloscope.

(+) front power window swi	(+) front power window switch (passenger side)  Connector Terminal		Signal (Reference value)	
Connector				
	1			
D56	2	Ground	(V) 15 10 10 ms JPMIA0012GB 1.0 - 1.5 V	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

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

В	BCM front power		witch (passenger side)	Continuity
Connector	Terminal	Connector Terminal		Continuity
M121	12	D56	1	Existed
IVI 1 Z 1	13	530	2	LAISIEU

3. Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Terminal	Ground	Continuity	
M121	12	Ground	Not existed	
IVI I Z I	13		inot existed	

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> Repair or replace harness.

### 3.CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between front power window switch (passenger side) harness connector and ground.

front power window s	witch (passenger side)		Continuity
Connector	Terminal	Ground	Continuity
D56	3		Existed

#### Is the inspection result normal?

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#### < DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK DOOR LOCK AND UNLOCK SWITCH

Refer to DLK-248, "WITHOUT AUTOMATIC SLIDING DOOR: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front power window switch (passenger side). Refer to <a href="PWC-123">PWC-123</a>, "Removal and Installation".

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### WITHOUT AUTOMATIC SLIDING DOOR: Component Inspection

INFOID:0000000011321956

#### POWER WINDOW MAIN SWITCH

## 1. CHECK DOOR LOCK AND UNLOCK SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect power window main switch connector.
- 3. Check continuity between power window main switch terminals.

Power window main switch		Condition		Continuity
Terminal				
18		Door lock and unlock switch	LOCK	Existed
10	17		UNLOCK	Not existed
6	17		LOCK	Not existed
			UNLOCK	Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window main switch.

#### FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

## 1. CHECK DOOR LOCK AND UNLOCK SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect front power window switch (passenger side) connector.
- 3. Check continuity between front power window switch (passenger side) terminals.

Front power window switch (passenger side)		Condition		Continuity
Terminal				
1			LOCK	Existed
ı	2	Door lock and unlock switch	UNLOCK	Not existed
2			LOCK	Not existed
			UNLOCK	Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front power window switch (passenger side).

#### DOOR LOCK ACTUATOR

#### < DTC/CIRCUIT DIAGNOSIS >

## DOOR LOCK ACTUATOR

### **DRIVER SIDE**

## DRIVER SIDE: Component Function Check

#### INFOID:0000000011321957

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## 1. CHECK FUNCTION

- Select "DOOR LOCK" of "BCM" using CONSULT.
- Select "DOOR LOCK" in "ACTIVE TEST" mode.
- Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

#### Is the inspection result normal?

YES >> Door lock actuator is OK.

>> Refer to DLK-249, "DRIVER SIDE : Diagnosis Procedure". NO

## DRIVER SIDE: Diagnosis Procedure

#### INFOID:0000000011321958 Е

## 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect front door lock assembly (driver side) connector.
- Check voltage between front door lock assembly (driver side) harness connector and ground.

(	+)					
Front door lock assembly (driver side)		(–)	Condition		Voltage	
Connector	Terminal					
D48	1	Ground	Door lock and unlock switch	Lock	9 - 16 V	
D40	2	Giouria	DOOL TOOK AND UNIOCK SWITCH	Unlock	9 - 10 V	

#### Is the inspection result normal?

YES >> Replace front door lock assembly (driver side).

NO

## >> GO TO 2. 2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- Disconnect BCM, all door lock actuators connector.
- 2. Check continuity between BCM harness connector and front door lock assembly (driver side) harness connector.

ВСМ		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
M123	65	D48	1	Existed
IVI 123	66	D40	2	Existed

Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground		
M123	65	Ground	Not existed	
	66		inot existed	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3.CHECK BCM OUTPUT SIGNAL

- Connect BCM connector.
- Check voltage between BCM harness connector and ground.

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#### DOOR LOCK ACTUATOR

#### < DTC/CIRCUIT DIAGNOSIS >

(	+)		Condition		Voltage
В	СМ	(–)			
Connector	Terminal				
M123	65	Ground	Door lock and unlock switch	Lock	9 - 16 V
101123	66	Giodila	Door lock and unlock switch	Unlock	

#### Is the inspection result normal?

YES >> Check for internal short of door lock actuator.

NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

#### PASSENGER SIDE

### PASSENGER SIDE: Component Function Check

INFOID:0000000011321959

## 1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 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 <u>DLK-250</u>, "<u>PASSENGER SIDE</u>: <u>Diagnosis Procedure</u>".

## PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011321960

## 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- 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.

(	(+)					
Front door lock assembly (passenger side)		(–)	Condition	Voltage		
Connector	Terminal					
D9	5	Ground	Door lock and unlock switch	Lock	9 - 16 V	
D9	6	Giouna	Door lock and unlock switch	Unlock	9 - 10 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, all door lock actuators connector.
- Check continuity between BCM harness connector and front door lock assembly (passenger side) harness connector.

ВСМ		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M123	65	D9	5	Existed
WIZS	59	D9	6	LXISIEU

3. Check continuity between BCM harness connector and ground.

### **DOOR LOCK ACTUATOR**

#### < DTC/CIRCUIT DIAGNOSIS >

E	ВСМ		Continuity
Connector	Terminal	Ground	Continuity
M123	65	Giouna	Not existed
W1123	59		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

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

	+) CM	(–)	Condition		Voltage
Connector	Terminal				
M123	65	Ground	Door lock and unlock switch	Lock	9 - 16 V
IVI 123	59	Giodila	Door lock and unlock switch	Unlock	9-10 V

#### Is the inspection result normal?

YES >> Check for internal short of door lock actuator.

NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

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#### **SLIDING DOOR LOCK ACTUATOR**

#### < DTC/CIRCUIT DIAGNOSIS >

# SLIDING DOOR LOCK ACTUATOR WITH AUTOMATIC SLIDING DOOR

### WITH AUTOMATIC SLIDING DOOR: Component Function Check

INFOID:0000000011321961

## 1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 3. 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 <u>DLK-255</u>, "WITHOUT AUTOMATIC SLIDING DOOR : Diagnosis Procedure".

### WITH AUTOMATIC SLIDING DOOR: Diagnosis Procedure

INFOID:0000000011321962

#### Sliding door lock assembly LH

### 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(-	+)				
Sliding door loo	ck assembly LH	(–)	Condition		Voltage
Connector	Terminal				
D85	2	Ground	Door lock and unlock switch	Lock	9 - 16 V
200	1	Ground	Door look and unlock switch	Unlock	9 - 10 V

#### Is the inspection result normal?

YES >> Replace sliding door lock assembly.

NO >> GO TO 2.

## 2.CHECK DOOR LOCK ACTUATOR CIRCUIT 1 $\,$

- 1. Disconnect BCM, all door lock actuators connector.
- 2. Check continuity between BCM harness connector and sliding door lock assembly LH harness connector.

В	BCM Sliding door lo		ck assembly LH	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M123	65	D85	2	Existed	

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M123	65		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

#### 3.CHECK DOOR LOCK ACTUATOR CIRCUIT 2

- 1. Disconnect selective unlock relay connector.
- Check continuity between selective unlock relay harness connector and sliding door lock assembly LH harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Selective unlock relay		Sliding door lo	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M91	3	D85	1	Existed

3. Check continuity between BCM harness connector and ground.

Selective u	unlock relay		Continuity	
Connector Terminal		Ground	Continuity	
M91	M91 3		Not existed	

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK SELECTIVE UNLOCK RELAY GROUND CIRCUIT

- 1. Disconnect selective unlock relay connector.
- 2. Check continuity between selective unlock relay harness connector and ground.

Selective u	unlock relay		Continuity
Connector	Terminal	Ground	Continuity
M91 4			Existed

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

# 5. CHECK SELECTIVE UNLOCK RELAY

#### Check selective unlock relay.

Refer to DLK-258, "Component Inspection"

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace selective unlock relay.

### 6. CHECK BCM OUTPUT SIGNAL

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

(+)						
BCM		(–) Conditi		dition	Voltage	
Connector	Terminal					
M123	65		Door lock and un-	Lock	9 - 16 V	
M122 50	50	Ground		Unlock	0 V	
	30			Other than above	9 - 16 V	

### Is the inspection result normal?

YES >> Check for internal short of door lock actuator.

NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

### Sliding door lock assembly RH

# 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect sliding door lock assembly RH connector.
- 3. Check voltage between sliding door lock assembly RH harness connector and ground.

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#### < DTC/CIRCUIT DIAGNOSIS >

(+)						
Sliding door lock assembly RH		(–)	Condition		Voltage	
Connector	Terminal					
D105	1	Ground	Door lock and unlock switch	Lock	9 - 16 V	
D105	2	Ground	Door lock and unlock Switch	Unlock	3 - 10 V	

#### Is the inspection result normal?

YES >> Replace sliding door lock assembly.

NO >> GO TO 2.

# 2.check door lock actuator circuit

- 1. Disconnect BCM, all door lock actuators connector.
- 2. Check continuity between BCM harness connector and sliding door lock assembly RH harness connector.

ВСМ		Sliding door loo	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M123	65	D105	1	Existed
M122	55	D103	2	LXISIEU

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Connector Terminal		Continuity	
M123	65	Ground	Not existed	
M122	55		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.

(+)						
ВСМ		(–)	Condition		Voltage	
Connector	Terminal					
M123	65	Ground	Door lock and unlock switch	Lock	9 - 16 V	
M122	55	Giodila	Door lock and unlock Switch	Unlock	9-10 V	

### Is the inspection result normal?

YES >> Check for internal short of door lock actuator.

NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

# WITH AUTOMATIC SLIDING DOOR: Component Inspection

INFOID:0000000011321963

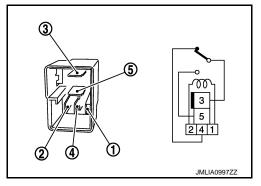
# 1. CHECK SELECTIVE UNLOCK RELAY

- Turn ignition switch OFF.
- 2. Remove selective unlock relay.

#### < DTC/CIRCUIT DIAGNOSIS >

Check the continuity between selective unlock relay terminals under the following conditions.

Terr	minal	Condition	Continuity
		No current supply	Existed
4	3	12 V direct current supply between terminals 1 and 2.	Not existed
5	3	12 V direct current supply between terminals 1 and 2.	Existed
		No current supply	Not existed



### Is the inspection result normal?

>> INSPECTION END. YES

NO >> Replace selective unlock relay.

### WITHOUT AUTOMATIC SLIDING DOOR

### WITHOUT AUTOMATIC SLIDING DOOR: Component Function Check

## 1. CHECK FUNCTION

- Select "DOOR LOCK" of "BCM" using CONSULT. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 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-255, "WITHOUT AUTOMATIC SLIDING DOOR: Diagnosis Procedure".

# WITHOUT AUTOMATIC SLIDING DOOR: Diagnosis Procedure

INFOID:0000000011321965

# 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect sliding door lock assembly LH connector and sliding door lock assembly RH connector. 2.
- Check voltage between sliding door lock assembly LH/RH harness connector and ground.

	(+)					
Sliding door lock assembly		(–) Condition	n	Voltage		
Conr	nector	Terminal				
LH	D85	2	- (∃round	Door lock and unlock switch	Lock	9 - 16 V
LII	D03	1			Unlock	
RH	D105	1			Lock	9 - 10 V
KII DIU:	D 103	2			Unlock	

### Is the inspection result normal?

YES >> Replace sliding door lock assembly.

NO >> GO TO 2.

# 2.check door lock actuator circuit

- Disconnect BCM, all door lock actuators connector.
- Check continuity between BCM harness connector and sliding door lock assembly LH/RH harness connector.

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### < DTC/CIRCUIT DIAGNOSIS >

ВСМ			Sliding door lo	Continuity	
Con	Connector Terminal		Connector	Terminal	Continuity
LH	M123	65	D85	2	Existed
LH	M122	55		1	
DU	M123	65	D105	1	Existed
RH	M122	55	D105	2	

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M123	65		Not existed	
M122	55		INOL 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.

(-	+)				
В	СМ	(–)	Condition		Voltage
Connector	Terminal				
M123	65	Ground	Door lock and unlock switch	Lock	9 - 16 V
M122	55	Glound	Door lock and unlock switch	Unlock	9-10 V

### Is the inspection result normal?

YES >> Check for internal short of each door lock actuator and fuel lid lock actuator.

NO >> Replace BCM. Refer to BCS-98. "Removal and Installation".

### SELECT UNLOCK RELAY

#### < DTC/CIRCUIT DIAGNOSIS >

# SELECT UNLOCK RELAY

# Component Function Check

#### INFOID:0000000011321966

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### 1.CHECK FUNCTION

- Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "DOOR LOCK" in "ACTIVE TEST" mode.
- 3. Touch "ALL UNLK" to check that it works normally of sliding door LH.

#### Is the inspection result normal?

YES >> Selective unlock relay is OK.

>> Refer to DLK-257, "Diagnosis Procedure". NO

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INFOID:0000000011321967

### Diagnosis Procedure

# 1. CHECK SELECTIVE UNLOCK RELAY POWER SUPPLY 1

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

	(+)		
В	CM	(–)	Voltage (V)
Connector Terminal			
M122	50	Ground	9 - 16 V

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 2.

# 2.CHECK SELECTIVE UNLOCK RELAY POWER SUPPLY 2

- Disconnect selective unlock relay connector.
- Check voltage between selective unlock relay and ground.

	+)		Voltage (V)	
Selective	unlock relay	(–)		
Connector	Terminal			
M91	1	Ground	9 - 16 V	
IVIÐ I	5	Giodila	9 - 10 V	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

# 3.DETECT MALFUNCTIONING PART

#### Check the following.

- 10 A fuse (#6)
- Harness for open or short between selective unlock relay harness connector and battery terminal.

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

### 4. CHECK SELECTIVE UNLOCK RELAY CIRCUIT

- Disconnect BCM connector.
- 2. Check continuity between selective unlock relay harness connector and BCM harness connector.

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### **SELECT UNLOCK RELAY**

#### < DTC/CIRCUIT DIAGNOSIS >

Selective u	Selective unlock relay		BCM	
Connector	Terminal	Connector Terminal		Continuity
M91	2	M122	50	Existed

3. Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M122	50		Not existed

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

# 5. CHECK SELECTIVE UNLOCK RELAY

Check selective unlock relay.

Refer to DLK-258, "Component Inspection"

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace selective unlock relay.

## 6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident"

>> INSPECTION END

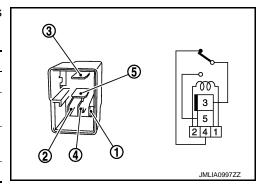
# Component Inspection

INFOID:0000000011321968

# 1. CHECK SELECTIVE UNLOCK RELAY

- 1. Turn ignition switch OFF.
- 2. Remove selective unlock relay.
- 3. Check the continuity between selective unlock relay terminals under the following conditions.

Terr	minal	Condition	Continuity
		No current supply	Existed
4	3	12 V direct current supply between terminals 1 and 2.	Not existed
5	12 V direct current supply between terminals 1 and 2.		Existed
		No current supply	Not existed



### Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace selective unlock relay.

### UNLOCK SENSOR

# Component Function Check

#### INFOID:0000000011321969

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# 1. CHECK FUNCTION

- Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "UNLK SEN-DR" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
UNLK SEN -DR	Driver side door	Lock	OFF
	Driver side door	Unlock	ON

#### Is the inspection result normal?

>> Unlock sensor is OK. YES

NO >> Refer to <u>DLK-259</u>, "<u>Diagnosis Procedure</u>".

# Diagnosis Procedure

#### INFOID:0000000011321970

# 1. CHECK UNLOCK SENSOR INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect front door lock assembly (driver side) connector. 2.
- 3. Check signal between front door lock assembly (driver side) harness connector and ground with oscillo-

Front door lock ass	(+) Front door lock assembly (driver side)		Signal (Reference value)	
Connector	Terminal			
D48	3	Ground	(V) 15 10 5 0 ++10ms PKIB4960J 7.0 - 8.0 V	

#### Is the inspection result normal?

YES >> GO TO 3. NO

>> GO TO 2.

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# 2. CHECK UNLOCK SENSOR CIRCUIT

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

В	BCM		Front door lock assembly (driver side)		
Connector	Terminal	Connector Terminal		Continuity	
M121	31	D48	3	Existed	

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector Terminal		Ground	Continuity
M121	31		Not existed

### Is the inspection result normal?

### **UNLOCK SENSOR**

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> Replace BCM. Refer to BCS-98, "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 as:	sembly (driver side)		Continuity
Connector Terminal		Ground	Continuity
D48	4		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK UNLOCK SENSOR

Refer to DLK-260, "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-42, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000011321971

# 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				
2	3 4 Driver side doo	Driver side deer	Unlock	Existed
		Driver side door	Lock	Not existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side).

#### < DTC/CIRCUIT DIAGNOSIS >

# DOOR KEY CYLINDER SWITCH WITH AUTOMATIC SLIDING DOOR

INFOID:0000000011321972

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WITH AUTOMATIC SLIDING DOOR : Component Function Check

# 1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "KEY CYL LK-SW", "KEY CYL UN-SW" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
KEY CYL LK-SW		Lock	ON
	Driver eide deer key eylinder	Neutral / Unlock	OFF
Driver side door key cylinder KEY CYL UN-SW	Unlock	ON	
		Neutral / Lock	OFF

### Is the inspection result normal?

YES >> Door key cylinder switch is OK.

NO >> Refer to <u>DLK-261</u>, "<u>WITH AUTOMATIC SLIDING DOOR</u>: <u>Diagnosis Procedure</u>".

# WITH AUTOMATIC SLIDING DOOR: Diagnosis Procedure

INFOID:0000000011321973

# 1. CHECK DOOR KEY CYLINDER SWITCH 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.

	(+) Front door lock assembly (driver side)		Signal (Reference value)	
Connector	Terminal		,	
	5		40	
D48	6	Ground	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V	

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK DOOR KEY CYLINDER SWITCH SIGNAL CIRCUIT

- 1. Disconnect power window main switch connector.
- Check continuity between power window main switch harness connector and front door lock assembly (driver side) harness connector.

Power windo	w main switch	Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
	4	D48	6	Existed
53	6	540	5	LAISIEU

3. Check continuity between power window main switch harness connector and ground.

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#### < DTC/CIRCUIT DIAGNOSIS >

Power wind	Power window main switch		Continuity	
Connector	Terminal	Ground	Continuity	
	4	Ground	Not existed	
DJ	6		Not existed	

#### Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-68, "Removal and Installation".

NO >> Repair or replace harness.

# 3. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between front door lock assembly (driver side) harness connector and ground.

Front door lock assembly (driver side)			Continuity
Connector	Terminal	Ground	Continuity
D48	4		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK DOOR KEY CYLINDER SWITCH

Refer to DLK-262, "WITH AUTOMATIC SLIDING DOOR: 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-42, "Intermittent Incident".

#### >> INSPECTION END

# WITH AUTOMATIC SLIDING DOOR : Component Inspection

INFOID:0000000011321974

# 1. CHECK DOOR KEY CYLINDER SWITCH

- 1. Turn ignition switch OFF.
- Disconnect front door lock assembly (driver side) connector.
- 3. Check continuity between front door lock assembly (driver side) terminals.

Front door lock asse	embly (driver side)	Condition	Condition	
Terminal		Condition		Continuity
5	-	Driver aide deer her ordinder	Unlock	Existed
5	4		Neutral / Lock	Not existed
6	Driver side door key cylinder	Lock	Existed	
			Neutral / Unlock	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side).

### WITHOUT AUTOMATIC SLIDING DOOR

# WITHOUT AUTOMATIC SLIDING DOOR : Component Function Check

INFOID:0000000011321975

# 1. CHECK FUNCTION

1. Select "DOOR LOCK" of "BCM" using CONSULT.

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#### < DTC/CIRCUIT DIAGNOSIS >

- Select "KEY CYL LK-SW", "KEY CYL UN-SW" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
KEY CYL LK-SW		Lock	ON
	- Driver side door key cylinder	Neutral / Unlock	OFF
KEY CYL UN-SW		Unlock	ON
		Neutral / Lock	OFF

#### Is the inspection result normal?

YES >> Door key cylinder switch is OK.

>> Refer to DLK-263, "WITHOUT AUTOMATIC SLIDING DOOR : Diagnosis Procedure". NO

# WITHOUT AUTOMATIC SLIDING DOOR: Diagnosis Procedure

INFOID:0000000011321976

# 1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect front door lock assembly (driver side) connector.
- Check voltage between front door lock assembly (driver side) harness connector and ground.

	(+) Front door lock assembly (driver side)		Signal (Reference value)	
Connector	Terminal		,	
	5		40	
D48	6	Ground	(V) 15 10 5 0 + 10ms PKIB4960J 7.0 - 8.0 V	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2.CHECK DOOR KEY CYLINDER SWITCH SIGNAL CIRCUIT

- Disconnect BCM connector.
- 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	Continuity
M121	8	D48	6	Existed
IVITZT	7	D40	5	Existed

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M121	8	Ground	Not existed
IVITZT	7		NOT EXISTED

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> Repair or replace harness. DLK

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### < DTC/CIRCUIT DIAGNOSIS >

# 3. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between front door lock assembly (driver side) harness connector and ground.

Front door lock assembly (driver side)			Continuity
Connector	Terminal	Ground	Continuity
D48	4		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR KEY CYLINDER SWITCH

Refer to DLK-264, "WITHOUT AUTOMATIC SLIDING DOOR: 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-42, "Intermittent Incident".

>> INSPECTION END

# WITHOUT AUTOMATIC SLIDING DOOR: Component Inspection

INFOID:0000000011321977

# 1. CHECK DOOR KEY CYLINDER SWITCH

- 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)  Terminal		Condition		Continuity
5	Neutral / Lock	Not existed		
6	Driver side door key cylinder	Lock	Existed	
0			Neutral / Unlock	Not existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door lock assembly (driver side).

#### REMOTE KEYLESS ENTRY RECEIVER

#### < DTC/CIRCUIT DIAGNOSIS >

### REMOTE KEYLESS ENTRY RECEIVER

# Component Function Check

#### INFOID:0000000011321978

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### 1. CHECK FUNCTION

- Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- Select "RKE OPE COUN1" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition
RKE OPE COUN1	Checks whether value changes when operating Intelligent Key

#### Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.

NO >> Refer to <u>DLK-265</u>, "<u>Diagnosis Procedure</u>".

# Diagnosis Procedure

#### INFOID:0000000011321979

# 1. CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

- Turn ignition switch OFF.
- 2. Disconnect remote keyless entry receiver connector.
- 3. Check voltage between remote keyless entry receiver harness connector and ground.

(+)			
Remote keyless entry receiver		(–)	Voltage
Connector	Terminal		
R108 1		Ground	9 - 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. DETECT MALFUNCTIONING PART

### Check the following.

- 10 A fuse (#10)
- Harness for open or short between selective unlock relay harness connector and battery terminal.

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

# ${f 3.}$ CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT 1

- Disconnect BCM connector.
- 2. Check continuity between BCM harness connector and remote keyless entry receiver harness connector.

В	ВСМ		Remote keyless entry receiver	
Connector	Terminal	Connector Terminal		Continuity
M121	18	R108	4	Existed

3. Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector Terminal		Ground	Continuity	
M121	18		Not existed	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

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### REMOTE KEYLESS ENTRY RECEIVER

### < DTC/CIRCUIT DIAGNOSIS >

# 4. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

- 1. Connect remote keyless entry receiver connector and BCM connector.
- 2. Check signal between remote keyless entry receiver harness connector and ground using oscilloscope.

	(+) Remote keyless entry receiver		Condition	Signal (Reference value)	
Connector	Terminal			(13.51.51.55 3.53.5)	
			Waiting	(Approx.) 12 V	
R108	2	Ground	Press the Intelligent Key lock or unlock button	(V) 15 10 5 0 200 ms	

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace remote keyless entry receiver.

# 5. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

- 1. Disconnect BCM and remote keyless entry receiver connector.
- 2. Check continuity between BCM harness connector and remote keyless entry receiver harness connector.

В	ВСМ		Remote keyless entry receiver	
Connector	Terminal	Connector Terminal		Continuity
M121	38	R108	2	Existed

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Connector Terminal		Continuity
M121	38		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> Repair or replace harness.

### 6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

#### DOOR REQUEST SWITCH

#### < DTC/CIRCUIT DIAGNOSIS >

## DOOR REQUEST SWITCH

# Component Function Check

#### INFOID:0000000011321980

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## 1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "REQ SW-DR", "REQ SW-AS" in "DATA MONITOR" mode.
- 3. 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
REQ SW -DR	Driver side door request switch	Released	OFF
REQ SW -AS Passenger side door request switch		Pressed	ON
NEW OW -AO	Passenger side door request switch	Released	OFF

#### Is the inspection result normal?

YES >> Front door request switch is OK.

NO >> Refer to <u>DLK-267</u>, "<u>Diagnosis Procedure</u>".

# Diagnosis Procedure

#### INFOID:0000000011321981

# 1. CHECK DOOR REQUEST SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect malfunctioning front door outside assembly connector.
- 3. Check voltage between malfunctioning front door outside handle assembly harness connector and ground.

	(+)			
Front door outside handle assembly			(–)	Voltage
Connector Terminal				
LH	D32	2	Ground	9 - 16 V
RH	D31	3	Giouria	3-10 V

#### 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 of	door outside handle as	e assembly		BCM	
Connector		Terminal	Connector	Terminal	Continuity
LH	D32	3	M124	75	Existed
RH	D31	3	IVITZ4	100	LAISIEU

3. Check continuity between malfunctioning front door outside handle assembly harness connector and ground.

Front door outside handle assembly				Continuity	
Connector		Terminal	Crownd	Continuity	
LH	D32	2	Ground	Not existed	
RH	D31	3		inot existed	

#### Is the inspection result normal?

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### DOOR REQUEST SWITCH

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> Replace BCM. Refer to BCS-98, "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				Continuity
Connector Terminal		Ground	Continuity	
LH	D32	4	Giodila	Existed
RH	D31	4		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK DOOR REQUEST SWITCH

Refer to DLK-268, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front door outside handle assembly.

# 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

### >> INSPECTION END

# Component Inspection

INFOID:0000000011321982

# 1. CHECK DOOR REQUEST SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect malfunctioning front door request switch connector.
- 3. Check continuity between malfunctioning front door request switch terminals.

Front door request switch		Condition		Continuity
Terr	minal	Condition		Continuity
2	4	Door request switch	Pressed	Existed
	4	Door request switch	Released	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunctioning front door outside handle assembly.

### **BACK DOOR REQUEST SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

# **BACK DOOR REQUEST SWITCH**

# Component Function Check

#### INFOID:0000000011321983

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### 1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "REQ SW-BD/TR" in "DATA MONITOR" mode.
- 3. 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
ILLQ OW-DD/TI	Back door request switch	Released	Off

#### Is the inspection result normal?

YES >> Back door request switch is OK.

NO >> Refer to <u>DLK-269</u>, "<u>Diagnosis Procedure</u>".

# Diagnosis Procedure

#### INFOID:0000000011321984

# 1. CHECK BACK DOOR REQUEST SWITCH INPUT SIGNAL

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

(+)			
Back door opene	Back door opener switch assembly		Voltage
Connector	Terminal		
D186	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.

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

В	CM	Back door opener switch assembly		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M122	51	D186	4	Existed	

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M122	51		Not existed

#### Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> Repair or replace harness.

## 3.check back door request switch ground circuit

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

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### **BACK DOOR REQUEST SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Back door opener switch assembly			Continuity
Connector	Terminal	Ground	Continuity
D186	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-270, "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-42, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000011321985

# 1. CHECK BACK DOOR REQUEST 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	
Terr	minal	Condition		Continuity	
2	4	Back door request switch	Pressed	Existed	
	4	Back door request switch	Released	Not existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch assembly.

### BACK DOOR OPENER SWITCH

#### < DTC/CIRCUIT DIAGNOSIS >

# BACK DOOR OPENER SWITCH

# Component Function Check

#### INFOID:0000000011321986

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### 1. CHECK FUNCTION

- Select "TRUNK" of "BCM" using CONSULT.
- 2. Select "TR/BD OPEN SW" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TR/BD OPEN SW Back door opener switch	Back door opener switch	Pressed	ON
TIVED OF LIVOW	Back addi opener switch	Released	OFF

#### Is the inspection result normal?

YES >> Back door opener switch is OK.

>> Refer to <u>DLK-271</u>, "<u>Diagnosis Procedure</u>". NO

### Diagnosis Procedure

#### INFOID:0000000011321987

# 1. CHECK BACK DOOR OPEN INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect back door opener switch assembly connector.
- Check signal between back door opener switch assembly harness connector and ground.

	+) r switch assembly	(-)	Signal (Reference value)
Connector	Terminal		, , ,
D186	1	Ground	(V) 15 10 5 0 10 ms JPMIA0012GB 1.0 - 1.5 V

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

- Disconnect BCM connector.
- 2. Check continuity between BCM harness connector and back door opener switch assembly harness connector.

В	BCM Back door opener switch assembly		Back door opener switch assembly	
Connector	Terminal	Connector	Terminal	Continuity
M121	30	D186	1	Existed

Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M121	30		Not existed

#### Is the inspection result normal?

>> Replace BCM. Refer to BCS-98, "Removal and Installation".

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### **BACK DOOR OPENER SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

# ${f 3.}$ CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

Back door opener switch assembly			Continuity
Connector	Terminal	Ground	Continuity
D186	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-272, "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-42, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000011321988

# 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				Continuity
1	1 2	Back door opener	Pressed	Existed
· ·		switch	Released	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch assembly.

### INTELLIGENT KEY WARNING BUZZER

#### < DTC/CIRCUIT DIAGNOSIS >

### INTELLIGENT KEY WARNING BUZZER

# Component Function Check

#### INFOID:0000000011321989

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# 1. CHECK FUNCTION

- Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- Select "OUTSIDE BUZZER" in "ACTIVE TEST" mode.
- Touch "On" or "Off" to check that it works normally.

### Is the inspection result normal?

YES >> Intelligent Key warning buzzer is OK.

>> Refer to DLK-273, "Diagnosis Procedure". NO

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INFOID:0000000011321990

# Diagnosis Procedure

# 1.CHECK FUSE

- Turn ignition switch OFF.
- 2. Check 15 A fuse, [No. 6, located in fuse block (J/B)].

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

# 2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

- Disconnect Intelligent Key warning buzzer connector.
- Check voltage between Intelligent Key warning buzzer harness connector and ground.

(+)			
Intelligent Key warning buzzer		(–)	Voltage
Connector	Terminal		
E26	1	Ground	9 - 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and Intelligent Key warning buzzer harness connector.

В	BCM		warning buzzer	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M124	93	E26	3	Existed

Check continuity between BCM harness connector and ground.

BCM			Continuity	
Connector	Terminal	Ground	Continuity	
M124	93		Not existed	

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4. CHECK INTELLIGENT KEY WARNING BUZZER

### Refer to DLK-274, "Component Inspection".

#### Is the inspection result normal?

>> Replace BCM. Refer to BCS-98, "Removal and Installation". YES

>> Replace Intelligent Key warning buzzer. NO

#### **DLK-273** Revision: 2014 August

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### INTELLIGENT KEY WARNING BUZZER

# < DTC/CIRCUIT DIAGNOSIS >

# Component Inspection

INFOID:0000000011321991

# 1.check intelligent key warning buzzer

- Turn ignition switch OFF.
- Disconnect Intelligent Key warning buzzer connector.
   Connect battery power supply directly to Intelligent Key warning buzzer terminals and check the opera-

Intelligent Key		
Teri	Operation	
(+)	(-)	
1	3	Buzzer sounds

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace Intelligent Key warning buzzer.

### INTELLIGENT KEY

### < DTC/CIRCUIT DIAGNOSIS >

### INTELLIGENT KEY

# Component Function Check

#### INFOID:0000000011321992

# 1. CHECK FUNCTION

- Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- Select "RKE OPE COUN1" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition
RKE OPE COUN1	Check that the numerical value is changing while operating on the Intelligent Key.

#### Is the inspection result normal?

YES >> Intelligent Key is OK.

>> Refer to DLK-275, "Component Inspection". NO

# Component Inspection

#### INFOID:0000000011321993

# 1. CHECK INTELLIGENT KEY BATTERY

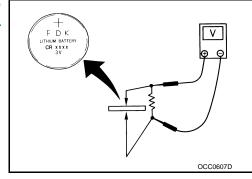
Check by connecting a resistance (approximately  $300\Omega$ ) so that the current value becomes about 10 mA. Refer to DLK-486, "Removal and Installation".

> **Standard** : Approx. 2.5 - 3.0V

Is the measurement value within the specification?

YES >> INSPECTION END

NO >> Replace Intelligent Key battery.



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### **COMBINATION METER BUZZER**

### < DTC/CIRCUIT DIAGNOSIS >

# COMBINATION METER BUZZER

# Component Function Check

#### INFOID:0000000011321994

# 1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "INSIDE BUZZER" in "ACTIVE TEST" mode.
- 3. Touch "Key", "Knob" or "Take Out" to check that it works normally.

#### Is the inspection result normal?

Yes >> Combination meter buzzer is OK.

No >> Refer to <u>DLK-276, "Diagnosis Procedure"</u>.

## Diagnosis Procedure

INFOID:0000000011321995

# 1. CHECK COMBINATION METER BUZZER CIRCUIT

Refer to WCS-40, "Component Function Check".

### Is the inspection result normal?

Yes >> GO TO 2.

No >> Repair or replace the malfunctioning parts.

# 2. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

# **INFORMATION DISPLAY**

INFORMATION DISPLAT	
< DTC/CIRCUIT DIAGNOSIS >	
INFORMATION DISPLAY	А
Component Function Check	
1.CHECK FUNCTION	В
<ol> <li>Select "INTELLIGENT KEY" of "BCM" using CONSULT.</li> <li>Select "LCD" in "ACTIVE TEST" mode.</li> <li>Check each warning display on meter display.</li> </ol>	С
Is the inspection result normal?  YES >> Information display is OK.  NO >> Refer to DLK-277, "Diagnosis Procedure".	D
Diagnosis Procedure	
1. CHECK COMBINATION METER	Е
Refer to MWI-34, "On Board Diagnosis Function".  Is the inspection result normal?  YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.	F
NO >> Repair or replace the malfunctioning parts.  2.CHECK INTERMITTENT INCIDENT	G
Refer to GI-42, "Intermittent Incident".	G
>> INSPECTION END	Н
>> INSPECTION END	
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### **KEY WARNING LAMP**

### < DTC/CIRCUIT DIAGNOSIS >

## **KEY WARNING LAMP**

# Component Function Check

#### INFOID:0000000011321998

# 1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "INDICATOR" in "ACTIVE TEST" mode.
- 3. Touch "KEY IND" or "KEY ON" to check that it works normally.

#### Is the inspection result normal?

YES >> Key warning lamp is OK.

NO >> Refer to <u>DLK-278</u>, "<u>Diagnosis Procedure</u>".

## Diagnosis Procedure

INFOID:0000000011321999

# 1. CHECK KEY WARNING LAMP

Refer to MWI-34, "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-42, "Intermittent Incident".

>> INSPECTION END

### HAZARD FUNCTION

## < DTC/CIRCUIT DIAGNOSIS > HAZARD FUNCTION Α Component Function Check INFOID:0000000011322000 1. CHECK FUNCTION В 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. >> Refer to DLK-279, "Diagnosis Procedure". NO D Diagnosis Procedure INFOID:0000000011322001 Е 1. CHECK HAZARD SWITCH CIRCUIT Refer to EXL-86, "Component Function Check" (xenon type), EXL-196, "Component Function Check" (halogen type). F Is the inspection result normal? >> GO TO 2. YES NO >> Repair or replace the malfunctioning parts. 2.CHECK INTERMITTENT INCIDENT Refer to GI-42, "Intermittent Incident". Н >> INSPECTION END

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### **BACK DOOR OPEN REQUEST SIGNAL CIRCUIT**

### < DTC/CIRCUIT DIAGNOSIS >

## BACK DOOR OPEN REQUEST SIGNAL CIRCUIT

## Diagnosis Procedure

INFOID:0000000011322002

# 1. CHECK BACK DOOR CONTROL UNIT INPUT SIGNAL

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

(-	+)				
Back door control unit		(–)	Condition		Voltage
Connector	Terminal				
D181	6	Ground	Back door opener	Pressed	0 - 1.5 V
	0	Ground	switch	Released	8 - 16 V

#### Is the inspection result normal?

YES >> Replace back door control unit. Refer to <u>DLK-487, "Removal and Installation"</u>.

NO >> GO TO 2.

# 2. CHECK BACK DOOR CONTROL UNIT CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check continuity between back door control unit harness connector and BCM harness connector.

Back door	Back door control unit		BCM	
Connector	Terminal	Connector	Terminal	Continuity
D181	6	M122	53	Existed

3. Check continuity between BCM harness connector and ground.

Back door control unit			Continuity	
Connector	Terminal	Ground	Continuity	
D181	6		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		dition	Voltage
Connector	Terminal				
M122	53	Ground	Back door opener	Pressed	0 V
W122 53	33	Giodila	switch	Released	9 - 16 V

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

### 4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### **AUTOMATIC BACK DOOR CLOSE SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

## AUTOMATIC BACK DOOR CLOSE SWITCH

# Component Function Check

#### INFOID:0000000011322003

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### 1. CHECK FUNCTION

- 1. Select "AUTO BACK DOOR" using CONSULT.
- 2. Select "BK DOOR CL SW" in "DATA MONITOR" mode.
- 3. 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
DICEOUN OF ON	Automatic back door close switch	Released	OFF

#### Is the inspection result normal?

YES >> Automatic back door close switch is OK.

NO >> Refer to <u>DLK-281, "Diagnosis Procedure"</u>.

# Diagnosis Procedure

#### INFOID:0000000011322004

# 1. CHECK AUTOMATIC BACK DOOR CLOSE SWITCH INPUT SIGNAL

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

(+)			
Automatic back door close switch		(–)	Voltage
Connector	Terminal		
D169	1	Ground	9 - 16 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 module connector.
- Check continuity between automatic back door control module harness connector and automatic back door close switch harness connector.

Automatic back de	oor control module	Automatic back door close switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B8	4	D169	1	Existed

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

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B8	4		Not existed

### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-488, "Removal and Installation"</u>.

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 >

Automatic back door close switch			Continuity	
Connector	Terminal	Ground	Continuity	
D169	2		Existed	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Refer to DLK-282, "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-42, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000011322005

# 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	Con	dition	Continuity
Terr	minal	Condition		Continuity
1	1 2		Pressed	Existed
	2	close switch	Released	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door close switch.

#### < DTC/CIRCUIT DIAGNOSIS >

# AUTOMATIC DOOR MAIN SWITCH AUTOMATIC BACK DOOR CONTROL MODULE

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# AUTOMATIC BACK DOOR CONTROL MODULE : Component Function Check

INFOID:0000000011322006

## 1. CHECK FUNCTION

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

Monitor item	Condition	Status	
MAIN SW Automatic door main switch	Automatic door main quitab	ON ON	ON
	OFF	OFF	

#### Is the inspection result normal?

YES >> Automatic door main switch is OK.

NO >> Refer to <u>DLK-283</u>, "AUTOMATIC BACK DOOR CONTROL MODULE : Diagnosis Procedure".

# AUTOMATIC BACK DOOR CONTROL MODULE: Diagnosis Procedure

# 1. CHECK AUTOMATIC DOOR MAIN SWITCH INPUT SIGNAL

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

(+) Automatic door main switch			
		(–)	Voltage
Connector	Terminal		
M29	1	Ground	9 - 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. CHECK AUTOMATIC DOOR MAIN SWITCH CIRCUIT

- 1. Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and automatic door main switch harness connector.

Automatic back door control module		Automatic door main switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B8	17	M29	1	Existed

Check continuity between automatic back door control module connector and ground.

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B8	17		Not existed

### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-488, "Removal and Installation"</u>.

NO >> Repair or replace harness.

# 3.check automatic door main switch ground circuit

Check continuity between automatic door main switch connector and ground.

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#### < DTC/CIRCUIT DIAGNOSIS >

Automatic door main switch			Continuity	
Connector	Terminal	Ground	Continuity	
M29	3		Existed	

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4.CHECK AUTOMATIC DOOR MAIN SWITCH

Refer to DLK-284, "AUTOMATIC BACK DOOR CONTROL MODULE: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic door main switch.

### ${f 5.}$ CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

## AUTOMATIC BACK DOOR CONTROL MODULE: Component Inspection INFOID:000000011322008

# 1. CHECK AUTOMATIC DOOR MAIN SWITCH

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

Automatic door main switch		Condition		Continuity
Terminal				
1	2	Automatic door main	ON	Existed
<u> </u>	3	switch	OFF	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic door main switch.

### SLIDING DOOR CONTROL UNIT

### SLIDING DOOR CONTROL UNIT: Component Function Check

INFOID:0000000011322009

# 1. CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" (LH) or "AUTO SLDE DOOR RIGHT" (RH) using CONSULT.
- 2. Select "MAIN SW" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
MAIN SW Automatic door	Automatic door main switch	ON	ON
	Automatic door main switch	OFF	OFF

#### Is the inspection result normal?

YES >> Automatic door main switch is OK.

NO >> Refer to DLK-284, "SLIDING DOOR CONTROL UNIT: Diagnosis Procedure".

# SLIDING DOOR CONTROL UNIT: Diagnosis Procedure

INFOID:0000000011322010

# 1. CHECK AUTOMATIC DOOR MAIN SWITCH POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic door main switch connector.

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#### < DTC/CIRCUIT DIAGNOSIS >

3. Check voltage between automatic door main switch harness connector and ground.

	(+) Automatic door main switch		Voltage (Approx.)	
Connector	Terminal		(Αρφιολ.)	
M29	1	Ground	8 – 16 V	

Is the inspection result normal?

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

# 2. CHECK AUTOMATIC DOOR MAIN SWITCH CIRCUIT

1. Disconnect sliding door control unit connector.

Check continuity between sliding door control unit harness connector and automatic door main switch harness connector.

Sliding door LH

Sliding door	control unit LH	Automatic door	Automatic door main switch		
Connector	Terminal	Connector	Terminal	Continuity	
B45	1	M29	1	Existed	
Sliding door RH					
Sliding door	Sliding door control unit LH Automatic door main switch		Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
B247	1	M29	1	Existed	

3. Check continuity between sliding door control unit connector and ground.

Sliding door LH

Sliding door control unit LH			Continuity		
Connector	Terminal	Ground	Continuity		
B45	1		Not existed		
Sliding door RH	Sliding door RH				
Sliding door control unit LH			Continuity		
Connector	Terminal	Ground	Continuity		
B247	1		Not existed		

#### Is the inspection result normal?

YES >> Replace sliding door control unit.

NO >> Repair or replace harness.

# 3.check automatic door main switch ground circuit

Check continuity between automatic door main switch connector and ground.

Automatic door main switch			Continuity
Connector	Terminal	Ground	Continuity
M29	3		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK AUTOMATIC DOOR MAIN SWITCH

Refer to DLK-286, "SLIDING DOOR CONTROL UNIT: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic door main switch.

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### < DTC/CIRCUIT DIAGNOSIS >

# 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# SLIDING DOOR CONTROL UNIT : Component Inspection

INFOID:0000000011322011

# 1. CHECK AUTOMATIC DOOR MAIN SWITCH

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

Automatic door main switch		Condition		Continuity
Terminal				
1 3		Automatic door main	ON	Existed
1	3	switch	OFF	Not existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic door main switch.

### **AUTOMATIC BACK DOOR SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

### AUTOMATIC BACK DOOR SWITCH

# Component Function Check

#### INFOID:0000000011322012

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### 1. CHECK FUNCTION

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

Monitor item	Condition	Status	
AUTO BD SW	Automatic back door switch	Pressed	ON
A010 BD 3W		Released	OFF

#### Is the inspection result normal?

YES >> Automatic back door switch is OK.

NO >> Refer to <u>DLK-287, "Diagnosis Procedure"</u>.

# Diagnosis Procedure

#### INFOID:0000000011322013

# 1. CHECK AUTOMATIC BACK DOOR SWITCH INPUT SIGNAL

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

(+)			
Automatic back door switch		(–)	Voltage
Connector	Terminal		
M83	1	Ground	9 - 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. CHECK AUTOMATIC BACK DOOR SWITCH CIRCUIT

- Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and automatic back door switch harness connector.

Automatic back door control module		Automatic back door switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B8	16	M83	1	Existed

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

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B8	16		Not existed

### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-488</u>, "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.

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### **AUTOMATIC BACK DOOR SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Automatic back d	Automatic back door switch		Continuity
Connector	Terminal	Ground	Continuity
M83	2		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4.CHECK AUTOMATIC BACK DOOR SWITCH

Refer to DLK-288, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door switch.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000011322014

# 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				
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.

### **OPEN SWITCH**

# Diagnosis Procedure

INFOID:0000000011322015

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# 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.

(+)			
Back door lock assembly		(–)	Voltage
Connector	Terminal		
D190	4	Ground	8 - 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.check open switch circuit

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

Back door	Back door control unit		Back door lock assembly	
Connector	Terminal	Connector Terminal		Continuity
D181	5	D190	4	Existed

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

Back door control unit			Continuity
Connector	Connector Terminal		Continuity
D181	5		Not existed

#### Is the inspection result normal?

YES >> Replace back door control unit. Refer to <u>DLK-487</u>, "Removal and Installation".

NO >> Repair or replace harness.

# 3.check open switch ground circuit

Check continuity between back door lock assembly connector and ground.

Back door lock assembly			Continuity
Connector Terminal		Ground	Continuity
D190	8		Existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4.CHECK OPEN SWITCH

Refer to DLK-290, "Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

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### **OPEN SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

### >> INSPECTION END

# Component Inspection

#### INFOID:0000000011322016

# 1. CHECK OPEN 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	
Term	inal	Condition		Continuity	
4	0	Back door	Open	Existed	
4	0	Back door	Fully closed/Half latch	Not existed	

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

# **CLOSE SWITCH**

# Diagnosis Procedure

INFOID:0000000011322017

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# 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.

(+)			
Back door lock assembly		(–)	Voltage
Connector	Terminal		
D190	5	Ground	8 - 16

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. CHECK CLOSE SWITCH CIRCUIT

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

Back door co	ontrol unit	Back door lock assembly		Continuity
Connector	Terminal	Connector Terminal		Continuity
D181	1	D190	5	Existed

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

Back door control unit			Continuity
Connector	Connector Terminal		Continuity
D181	1		Not existed

#### Is the inspection result normal?

YES >> Replace back door control unit. Refer to <u>DLK-487</u>, "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.

Back door lock assembly			Continuity
Connector	Connector Terminal		Continuity
D190	8		Existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK CLOSE SWITCH

Refer to DLK-292, "Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

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### **CLOSE SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

### >> INSPECTION END

# Component Inspection

#### INFOID:0000000011322018

# 1. CHECK CLOSE 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
Terr	minal	Con	aition	Continuity
-	0	Back door	Fully closed	Existed
5	0	Back door	Open/Half latch	Not existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

#### < DTC/CIRCUIT DIAGNOSIS >

# HALF LATCH SWITCH

# WITH AUTOMATIC BACK DOOR

# WITH AUTOMATIC BACK DOOR: Component Function Check

#### INFOID:0000000011322019

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# 1. CHECK FUNCTION

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

Monitor item	Condit	Status	
HALF LATCH SW Back door	Back door	Fully closed/Half latch	OFF
	Back door	Open	ON

#### Is the inspection result normal?

YES >> Half latch switch is OK.

NO >> Refer to <u>DLK-293</u>, "<u>WITH AUTOMATIC BACK DOOR</u>: <u>Diagnosis Procedure</u>".

### WITH AUTOMATIC BACK DOOR: Diagnosis Procedure

#### INFOID:0000000011322020

# 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.

(+)			
Back door lock assembly		(–)	Voltage
Connector	Terminal		
D190	6	Ground	9 - 16 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 module connector.

2. Check continuity between automatic back door control module harness connector and back door lock assembly harness connector.

Automatic back d	oor control module	Back door lock assembly		Continuity
Connector	Terminal	Connector Terminal		Continuity
B8	22	D190	6	Existed

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

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B8	22		Not existed

#### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-488. "Removal and Installation"</u>.

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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#### < DTC/CIRCUIT DIAGNOSIS >

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D190	8		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

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

# 4. CHECK HALF LATCH SWITCH

Refer to DLK-294, "WITH AUTOMATIC BACK DOOR: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# WITH AUTOMATIC BACK DOOR: Component Inspection

INFOID:0000000011322021

# 1. CHECK HALF LATCH SWITCH

- 1. Turn ignition switch OFF.
- Disconnect back door lock assembly connector.
- 3. Check continuity between back door lock assembly terminals.

Back door lock assembly		Condition		Continuity
Terminal				Continuity
6	0	Back door lock	Open	Existed
b	8	Dack GOOF IOCK	Fully closed/Half latch	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

### WITHOUT AUTOMATIC BACK DOOR

# WITHOUT AUTOMATIC BACK DOOR : Diagnosis Procedure

INFOID:0000000011322022

# 1. CHECK HALF LATCH SWITCH INPUT SIGNAL

- 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		(–)	Voltage
Connector	Terminal		
D190	6	Ground	3.5 -5.5 V

#### Is the inspection result normal?

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

# 2. CHECK HALF LATCH SWITCH CIRCUIT

- 1. Disconnect back door control unit connector.
- 2. Check continuity between back door control unit harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Back door	Back door control unit		Back door lock assembly	
Connector	Terminal	Connector Terminal		Continuity
D181	2	D190	6	Existed

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

Back door control unit			Continuity
Connector	Connector Terminal		Continuity
D181	2		Not existed

### Is the inspection result normal?

YES >> Replace back door control unit. Refer to <u>DLK-487</u>, "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.

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D190	8		Existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK HALF LATCH SWITCH

Refer to DLK-295, "WITHOUT AUTOMATIC BACK DOOR: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly.

# 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# WITHOUT AUTOMATIC BACK DOOR : Component Inspection

1. CHECK HALF LATCH SWITCH

- 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				
			Open	Existed
6	8	Back door	Fully closed/Half latch	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly.

#### SLIDING DOOR CONTROL UNIT

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INFOID:0000000011322023

#### < DTC/CIRCUIT DIAGNOSIS >

# SLIDING DOOR CONTROL UNIT: Component Function Check

INFOID:0000000011322024

# 1. CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" (LH) or "AUTO SLDE DOOR RIGHT" (RH) using CONSULT.
- 2. Select "HAF LATC SW L" (LH) or "HAF LATC SW R" (RH) in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
HAF LATC SW L	Sliding door LH	Open	ON
HAP LATO SW L	Silding door Li i	Half latch/fully closed	OFF
HAF LATC SW R	Sliding door RH	Open	ON
HAP LATE SW R		Half latch/fully closed	OFF

### Is the inspection result normal?

YES >> Half latch switch is OK.

NO >> Refer to <u>DLK-298</u>, "SLIDING DOOR CONTROL UNIT : Component Inspection".

### SLIDING DOOR CONTROL UNIT: Diagnosis Procedure

INFOID:0000000011322025

# 1. CHECK HALF LATCH SWITCH INPUT SIGNAL

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

Sliding door LH

(+)			Voltage
Sliding door lock	Sliding door lock assembly LH		
Connector	Terminal		
D123	3	Ground	8 – 16 V
liding door RH			
(+)			
Sliding door lock assembly RH		(-)	Voltage
Connector	Terminal		

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. CHECK HALF LATCH SWITCH CIRCUIT

- 1. Disconnect sliding door control unit connector.
- Check continuity between sliding door control unit harness connector and sliding door lock assembly harness connector.

Sliding door LH

Sliding door of	control unit LH	Sliding door lock assembly LH		- Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B45	5	D123	3	Existed	
Sliding door RH					
Sliding door o	ontrol unit RH	Sliding door lock assembly RH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B247	5	D124	3	Existed	

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

Sliding do	or control unit LH			Continuity
Connector	Terminal		Ground	Continuity
B45	5			Not existed
Sliding door RH				
Sliding doo	r control unit RH			Continuity
Connector	Terminal	(	Ground	
B247	5			Not existed
) >> Repair or rep CHECK HALF LATCH	ng door control unit. lace harness. SWITCH GROUND C			
Check continuity between connector.	or control unit connec ween sliding door cont		connector and slic	ling door lock assemb
Sliding door LH Sliding door c	ontrol unit I H	Sliding door le	ock assembly LH	
Connector	Terminal	Connector	Terminal	Continuity
B45	23	D123		
	23	D123	D123 2	
Sliding door RH Sliding door co	ontrol unit RH	Sliding door le	ock assembly RH	
Connector	Terminal	Connector	Terminal	Continuity
B247	23	D124	2	Existed
	veen sliding door cont			
Sliding door LH	voor ondrig door oorit	Tor arm marrieds c	ornicotor and gro	aria.
	door control unit LH			
	door control unit En		Cround	
	Termina	al	Ground	Continuity
Sliding		le	Ground	Continuity  Not existed
Sliding of Connector	Termina	al E	Ground	,
Sliding Connector B45 Sliding door RH	Termina	al	Ground	Not existed
Sliding Connector B45 Sliding door RH	Termina 23		Ground	,
Sliding of Connector  B45  Sliding door RH  Sliding of	Termina 23 door control unit RH			Not existed
Sliding of Connector  B45  Sliding door RH  Sliding of Connector  B247  ne inspection result notes  S >> GO TO 4.  D >> Repair or rep	Termina 23  door control unit RH Termina 23  ormal?			Not existed  Continuity
Connector  B45  Sliding door RH  Sliding of Connector  B247  he inspection result notes >> GO TO 4.  O >> Repair or rep  CHECK HALF LATCH  Connect sliding door	Termina 23  door control unit RH Termina 23  ormal?	al al al and sliding door	Ground lock assembly co	Not existed  Continuity  Not existed

Sliding door LH					
(+	)				
Sliding door control unit LH		(–)	Voltage		
Connector Terminal					
B45	23	Ground	0 V		

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#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door RH				
(4	-)			
Sliding door c	Sliding door control unit RH		Voltage	
Connector	Connector Terminal			
B247	23	Ground	0 V	

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit.

# 5. CHECK HALF LATCH SWITCH

Refer to DLK-298, "SLIDING DOOR CONTROL UNIT: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door lock assembly

#### 6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# SLIDING DOOR CONTROL UNIT: Component Inspection

INFOID:0000000011322026

# 1. CHECK HALF LATCH SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door lock assembly connector.
- 3. Check continuity between sliding door lock assembly terminals.

Sliding door lock assembly  Terminal		Condition		Continuity
				Continuity
2	2	Sliding door	Open	Existed
	2	Silding door	Half latch/fully closed	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door lock assembly.

#### < DTC/CIRCUIT DIAGNOSIS >

# **BACK DOOR TOUCH SENSOR**

LH

# LH: Component Function Check

INFOID:0000000011322027

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# 1. CHECK FUNCTION

- 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		Condition		Status
TOUCH SEN LH	Back door touch sensor LH	Other than below	OFF		
1000H SEN EH	Back door touch sensor En	Detect obstruction	ON		

#### Is the inspection result normal?

YES >> Back door touch sensor LH is OK.

NO >> Refer to <u>DLK-299</u>, "LH: <u>Diagnosis Procedure"</u>.

### LH: Diagnosis Procedure

INFOID:0000000011322028

# 1. CHECK BACK DOOR TOUCH SENSOR INPUT SIGNAL

Turn ignition switch OFF.

Check voltage between back door touch sensor LH harness connector and automatic back door control module harness connector.

(	(+)	(-)		(-)				
Back door to	uch sensor LH	Automatic back door control mod- ule		Condition		Voltage		
Connector	Terminal	Connector	Terminal	•				
D165	1	B8	1.4	Back door touch	Detect obstruc- tion	0 – 1.5 V		
D103	'	50	14	sensor LH	Other than above	5 – 6.7 V		

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK BACK DOOR TOUCH SENSOR LH CIRCUIT

- Disconnect automatic back door control module connector and back door touch sensor LH connector.
- Check continuity between automatic back door control module harness connector and back door touch sensor LH harness connector.

Automatic back door control module		Back door touch sensor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B8	15	D165	1	Existed

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

Automatic back door control module			Continuity
Connector	Connector Terminal		Continuity
B8	15		Not existed

#### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-488, "Removal and Installation".

NO >> Repair or replace harness.

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#### < DTC/CIRCUIT DIAGNOSIS >

# 3.check back door touch sensor $\,$ LH ground circuit

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

Automatic back door control module		Back door touch sensor LH		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B8	14	D165	2	Existed	

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

Automatic back door control module			Continuity
Connector	Connector Terminal		Continuity
B8	14		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4.CHECK BACK DOOR TOUCH SENSOR LH GROUND CIRCUIT 2

- 1. Connect automatic back door control module connector and back door touch sensor LH connector.
- 2. Check voltage between automatic back door control module harness connector and ground.

	(+)		
Automatic back	door control module	(–)	Voltage
Connector	Terminal		
B8	14	Ground	0 – 1.5 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door control module. Refer to <u>DLK-488</u>, "Removal and Installation".

#### 5. CHECK BACK DOOR TOUCH SENSOR LH

Refer to DLK-300, "LH: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door touch sensor LH.

### 6.check intermittent incident

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# LH: Component Inspection

INFOID:0000000011322029

# 1. CHECK BACK DOOR TOUCH SENSOR LH

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

Back door touch sensor LH Terminal		Condition		Resistance
	LH LH	LH	Other than above	0.9 - 1.1 kΩ

#### Is the inspection result normal?

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> INSPECTION END

NO >> Replace back door touch sensor LH.

RH

# RH: Component Function Check

#### INFOID:0000000011322030

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# 1. CHECK FUNCTION

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

Monitor item	C	Status	
TOUCH SEN RH Back door touch	Rack door touch concor PH	Other than below	OFF
	Dack door touch sensor Kill	Detect obstruction	ON

#### Is the inspection result normal?

YES >> Back door touch sensor RH is OK.

NO >> Refer to <u>DLK-301</u>, "RH: <u>Diagnosis Procedure</u>".

# RH: Diagnosis Procedure

#### INFOID:0000000011322031

# 1. CHECK TOUCH SENSOR INPUT SIGNAL

Turn ignition switch OFF.

Check voltage between back door touch sensor RH harness connector and automatic back door control module harness connector.

(	+)	(-	<del>-</del> )					
Back door touch sensor RH		Automatic back door control mod- ule		Condition		Voltage		
Connector	Terminal	Connector	Terminal					
D191	1	B8	14	Back door touch	Detect obstruc- tion	0 – 1.5 V		
D191	'	Во	14	sensor RH	Other than above	5 – 6.7 V		

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK BACK DOOR TOUCH SENSOR RH CIRCUIT

- Disconnect automatic back door control module connector and back door touch sensor RH connector.
- Check continuity between automatic back door control module harness connector and back door touch sensor RH harness connector.

Automatic back do	Automatic back door control module		ich sensor RH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B8	13	D191	1	Existed

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

Automatic back do	or control module		Continuity
Connector	Terminal	Ground	Continuity
B8	13		Not existed

#### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-488. "Removal and Installation"</u>.

NO >> Repair or replace harness.

#### < DTC/CIRCUIT DIAGNOSIS >

# 3.check back door touch sensor RH ground circuit

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

Automatic back do	Automatic back door control module		Back door touch sensor RH	
Connector	Terminal	Connector	Terminal	Continuity
B8	14	D191	2	Existed

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

Automatic back do	or control module		Continuity
Connector	Terminal	Ground	Continuity
B8	14		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4. CHECK BACK DOOR TOUCH SENSOR RH GROUND CIRCUIT 2

- 1. Connect automatic back door control module connector and back door touch sensor RH connector.
- 2. Check voltage between automatic back door control module harness connector and ground.

	(+)		
Automatic back	door control module	(–)	Voltage
Connector	Terminal		
B8	14	Ground	0 – 1.5 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door control module. Refer to <u>DLK-488</u>, "Removal and Installation".

#### 5. CHECK BACK DOOR TOUCH SENSOR RH

Refer to DLK-302, "RH: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door touch sensor RH.

#### 6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# **RH**: Component Inspection

INFOID:0000000011322032

### 1. CHECK TOUCH SENSOR RH

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

Back door touch sensor RH		Condition		Resistance	
Terminal				Nesisiance	
1	2	Back door touch sensor	Detect obstruction	360 - 440 Ω	
1 2	RH	Other than above	0.9 - 1.1 kΩ		

#### Is the inspection result normal?

BACK DOOK TOUCH SENSOR						
< DTC/CIRCUIT DIAGNOSIS >						
YES >> INSPECTION END NO >> Replace back door touch sensor RH.						

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### **BACK DOOR CLOSURE MOTOR**

#### < DTC/CIRCUIT DIAGNOSIS >

# BACK DOOR CLOSURE MOTOR WITH AUTOMATIC BACK DOOR

# WITH AUTOMATIC BACK DOOR: Diagnosis Procedure

INFOID:0000000011322033

# 1. CHECK BACK DOOR CLOSURE MOTOR 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 lo	Back door lock assembly					
Connector	Terminal					
	D190 2	Ground	Back door	Open	9 - 16 V	
D100				Ohter than above	0 - 1.5 V	
ופוט			Back door	Close	9 - 16 V	
				Ohter than above	0 - 1.5 V	

#### Is the inspection result normal?

YES >> Replace back door lock assembly.

NO >> GO TO 2.

# 2. CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

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

Automatic back doo	or control module	Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B8	3	D190	1	Existed
Во	2	D190	2	LXISIGU

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

Automatic back door control module			Continuity	
Connector	Terminal	Ground	Continuity	
B8	3	Giodila	Not existed	
DO	2		inot existed	

#### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-488, "Removal and Installation"</u>.

NO >> Repair or replace harness.

### WITHOUT AUTOMATIC BACK DOOR

# WITHOUT AUTOMATIC BACK DOOR: Diagnosis Procedure

INFOID:0000000011322034

# 1. CHECK BACK DOOR CLOSURE MOTOR INPUT SIGNAL

- 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 CLOSURE MOTOR**

### < DTC/CIRCUIT DIAGNOSIS >

(+) Back door lock assembly					
		(-)		Condition	
Connector	Terminal				
	,	0	Ground Back door	Open	5 - 16 V
D190	'			Ohter than above	0 - 1.5 V
D190	2	Ground	Dack door	Close	5 - 16 V
				Ohter than above	0 - 1.5 V

### Is the inspection result normal?

YES >> Replace back door lock assembly.

NO >> GO TO 2.

# 2. CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

1. Disconnect back door control unit connector.

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

Back door control unit		Back door loo	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
D181	10	D190	1	Existed
DIOI	4	D190	2	Existed

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

Back door	control unit		Continuity
Connector	Terminal	Ground	Continuity
D181	10	Ground	Not existed
DIOI	4		Not existed

### Is the inspection result normal?

YES >> Replace back door control unit.

NO >> Repair or replace harness.

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### **AUTOMATIC BACK DOOR WARNING BUZZER**

#### < DTC/CIRCUIT DIAGNOSIS >

### AUTOMATIC BACK DOOR WARNING BUZZER

### Diagnosis Procedure

INFOID:0000000011322035

# 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.

(+)			
Automatic back door	warning buzzer	(–)	Voltage
Connector	Terminal		
B305	1	Ground	9 - 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK FUSE

#### Check the following.

- 10 A fuse, [No.9, located in fuse block (J/B)].
- Harness for open or short between automatic back door warning buzzer harness connector and battery terminal.

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.CHECK AUTOMATIC BACK DOOR WARNING BUZZER OUTPUT SIGNAL CIRCUIT

- 1. Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and automatic back door warning buzzer harness connector.

Automatic back d	Automatic back door control module		or warning buzzer	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B8	5	B305	2	Existed

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

Automatic back do	or control module		Continuity
Connector Terminal		Ground	Continuity
B8	5		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### f 4.CHECK AUTOMATIC BACK DOOR WARNING BUZZER

### Refer to DLK-306, "Component Inspection"

#### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-488, "Removal and Installation".

NO >> Replace automatic back door warning buzzer.

# Component Inspection

INFOID:0000000011322036

# 1. CHECK AUTOMATIC BACK DOOR WARNING BUZZER

- Turn ignition switch OFF.
- Disconnect automatic back door warning buzzer connector.

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### **AUTOMATIC BACK DOOR WARNING BUZZER**

# < DTC/CIRCUIT DIAGNOSIS >

3. Check battery power supply directly to automatic back door warning buzzer terminals and check the operation.

Automatic back d	oor warning buzzer	
Teri	minal	Operation
(+)	(-)	
1	2	Buzzer sounds

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door warning buzzer.

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### **GROUND CIRCUIT**

### < DTC/CIRCUIT DIAGNOSIS >

# **GROUND CIRCUIT**

# Component Function Check

#### INFOID:0000000011322037

# 1. CHECK FUNCTION

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

Monitor item	Con	Status	
DESTINATION back door of	Circuit between automatic	Normal	NAM
	back door control module terminal 6 and ground	Open or short	JPN
	Circuit between automatic	Normal	ON
HAZARD	RD back door control module terminal 8 and ground	Open or short	OFF

### Is the inspection result normal?

YES >> Automatic back door ground circuit is OK.

NO >> Refer to <u>DLK-308</u>, "<u>Diagnosis Procedure</u>".

# Diagnosis Procedure

INFOID:0000000011322038

# 1. CHECK GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic back door control module connector.
- 3. Check continuity between automatic back door control module harness connector and ground.

Automatic back	door control module		Continuity	
Connector	Terminal	Ground	Continuity	
B8	6	Ground	Existed	
Во	8		Existed	

#### Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-488, "Removal and Installation"</u>.

NO >> Repair or replace harness.

### INTEGRATED HOMELINK TRANSMITTER

#### < DTC/CIRCUIT DIAGNOSIS >

### INTEGRATED HOMELINK TRANSMITTER

# Component Function Check

INFOID:0000000011322039

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### 1. CHECK FUNCTION

Check that system receiver (garage door opener, etc.) operates with original hand-held transmitter.

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Receiver or hand-held transmitter is malfunctioning.

# 2. CHECK ILLUMINATE

- Turn ignition switch OFF.
- Does red light of transmitter illuminate when any transmitter button is pressed?

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to DLK-309, "Diagnosis Procedure".

# 3.CHECK TRANSMITTER

Check transmitter with Tool\*.

\*: For details, refer to Technical Service Bulletin.

#### Is the inspection result normal?

YES >> Receiver or hand-held transmitter malfunction, not vehicle related.

NO >> Replace auto anti-dazzling inside mirror (integrated homelink transmitter).

# Diagnosis Procedure

INFOID:0000000011322040

### 1. CHECK POWER SUPPLY

- Turn ignition switch OFF.
- Disconnect auto anti-dazzling inside mirror (integrated homelink transmitter) connector. 2.
- Check voltage between auto anti-dazzling inside mirror (integrated homelink transmitter) harness connector and ground.

(+) Auto anti-dazzling inside mirror (Integrated homelink transmitter)		(-)	Condition		Voltage (Approx.)	
Connector	Terminal					
R25	6	Ground	Ignition switch	ON	Battery voltage	
	10	Ground	ignition switch	OFF	Dattery Voltage	

#### Is the inspection result normal?

YES >> GO TO 2.

NO-1 >> Check 10 A fuse [No. 6 and No 3 located in the fuse block (J/B)].

NO-2 >> Harness for open or short between fuse and auto anti-dazzling inside mirror (integrated homelink transmitter).

# 2.CHECK GROUND CIRCUIT

Check continuity between auto anti-dazzling inside mirror (integrated homelink transmitter) harness connector and ground.

	ing inside mirror elink transmitter)		Continuity
Connector	Terminal	Ground	
R25	8		Existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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# INTEGRATED HOMELINK TRANSMITTER

# < DTC/CIRCUIT DIAGNOSIS >

# 3. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

### < DTC/CIRCUIT DIAGNOSIS >

### **ENCODER**

### SLIDING DOOR LH

# SLIDING DOOR LH: Component Function Check

#### INFOID:0000000011322041

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# 1. CHECK FUNCTION

- Select "AUTO SLDE DOOR" using CONSULT.
- Select "ENCODER A LH" and "ENCODER B LH" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

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

#### Is the inspection result normal?

YES >> Encoder is OK.

>> Refer to DLK-311, "SLIDING DOOR LH: Diagnosis Procedure". NO

# SLIDING DOOR LH: Diagnosis Procedure

#### INFOID:0000000011322042

# 1. CHECK ENCODER POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic sliding door unit LH connector.
- Check voltage between automatic sliding door unit LH harness connector and ground.

(+)			
Automatic sliding door unit LH		(–)	Voltage
Connector	Terminal		
B65	5	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK ENCODER CIRCUIT 1

- Disconnect sliding door control unit LH connector.
- 2. Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door co	ontrol unit LH	Automatic sliding door unit LH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B45	11	B65	5	Existed	

Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	11		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to DLK-493, "LH: Removal and Installation".

NO >> Repair or replace harness.

### 3.CHECK ENCODER CIRCUIT $\scriptscriptstyle 2$

Disconnect sliding door control unit LH connector.

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### **ENCODER**

#### < DTC/CIRCUIT DIAGNOSIS >

Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door co	ontrol unit LH	Automatic sliding door unit LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	4	B65	6	Existed
D43	21	B03	7	LAISIEU

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	4	Ground	Not existed
040	21		INOT EXISTED

#### Is the inspection result normal?

YES >> GO TO 4.

>> Repair or replace harness.

# 4. CHECK ENCODER GROUND CIRCUIT

Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door co	ontrol unit LH	Automatic sliding door unit LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	26	B65	8	Existed

2. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door co	ontrol unit LH		Continuity
Connector	Terminal	Ground	Continuity
B45	26		Not existed

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

### 5. CHECK ENCODER CIRCUIT 3

- Connect sliding door control unit LH connector and automatic sliding door unit LH connector.
- 2. Check voltage between sliding door control unit LH harness connector and ground.

(+)			
Sliding door control unit LH		(-)	Voltage
Connector	Terminal		
B45	26	Ground	0 V

### Is the inspection result normal?

>> Replace automatic sliding door unit LH.

>> Replace sliding door control unit LH. Refer to DLK-493, "LH: Removal and Installation".

### SLIDING DOOR RH

# SLIDING DOOR RH: Component Function Check

# INFOID:0000000011322043

# 1. CHECK FUNCTION

- Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- Select "ENCODER A RH" and "ENCODER B RH" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

### **ENCODER**

#### < DTC/CIRCUIT DIAGNOSIS >

Monitor item	Condition		Status
ENCODER A RH	Sliding door RH	Moving (auto or manual)	HI ⇔ LO
LINCODER A RIT	ER A KH Silding door KH	When stopped	HI or LO
ENCODER B RH	Sliding door RH	Moving (auto or manual)	HI ⇔ LO
ENCODER B RH Sliding do	Silding door KH	When stopped	HI or LO

#### Is the inspection result normal?

YES >> Encoder is OK.

NO >> Refer to <u>DLK-313</u>, "SLIDING DOOR RH : <u>Diagnosis Procedure"</u>.

### SLIDING DOOR RH: Diagnosis Procedure

# 1. CHECK ENCODER POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic sliding door unit RH connector.
- 3. Check voltage between automatic sliding door unit RH harness connector and ground.

(+)			
Automatic sliding door unit RH		(–)	Voltage
Connector	Terminal		
B244	5	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2. CHECK ENCODER CIRCUIT 1

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door co	ontrol unit RH	Automatic sliding door unit RH		- Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B247	11	B244	5	Existed	

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door co	ontrol unit RH		Continuity	
Connector	Terminal	Ground	Continuity	
B247	11		Not existed	

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493, "RH: Removal and Installation"</u>.

NO >> Repair or replace harness.

# 3.CHECK ENCODER CIRCUIT $^{2}$

1. Disconnect sliding door control unit RH connector.

2. Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door c	Sliding door control unit RH		Automatic sliding door unit RH	
Connector	Terminal	Connector	Terminal	Continuity
B247	4	B244	7	Existed
D241	21	D244	6	LXISIGU

3. Check continuity between sliding door control unit RH harness connector and ground.

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### **ENCODER**

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	4		Not existed
D241	21		NOT EXISTED

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4. CHECK ENCODER GROUND CIRCUIT

 Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door co	Sliding door control unit RH		Automatic sliding door unit RH	
Connector	Terminal	Connector	Terminal	Continuity
B247	26	B244	8	Existed

2. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	26		Not existed

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

# 5. CHECK ENCODER CIRCUIT 3

- 1. Connect sliding door control unit RH connector and automatic sliding door unit RH connector.
- 2. Check voltage between sliding door control unit RH harness connector and ground.

(+)			
Sliding door control unit RH		(–)	Voltage
Connector	Terminal		
B247	26	Ground	0 V

### Is the inspection result normal?

YES >> Replace automatic sliding door unit RH.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "RH: Removal and Installation".

#### SLIDING DOOR SWITCH

### < DTC/CIRCUIT DIAGNOSIS >

# SLIDING DOOR SWITCH

### SLIDING DOOR LH

# SLIDING DOOR LH: Component Function Check

#### INFOID:0000000011322045

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# 1. CHECK FUNCTION

- Select "AUTO SLDE DOOR" using CONSULT.
- Select "RR-LH DOOR SW" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
RR-LH DOOR SW	Sliding door LH	Open	ON
KK-EH DOOK OW	Silding door Err	Closed	OFF

#### Is the inspection result normal?

YES >> Sliding door switch is OK

>> Refer to DLK-315, "SLIDING DOOR LH: Diagnosis Procedure". NO

### SLIDING DOOR LH : Diagnosis Procedure

#### INFOID:0000000011322046

# 1. SLIDING DOOR SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect sliding door switch LH connector.
- Check voltage between sliding door switch LH harness connector and ground.

(	+)		
Sliding dod	Sliding door switch LH		Voltage
Connector	Terminal		
B71	3	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK SLIDING DOOR SWITCH CIRCUIT

- Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door switch LH harness connector.

Sliding door	control unit LH	Sliding dod	or switch LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	28	B71	3	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	28		Not existed

#### Is the inspection result normal?

>> Replace sliding door control unit LH. Refer to DLK-493, "LH: Removal and Installation".

NO >> Repair or replace harness.

# 3.check sliding door switch

#### Refer to DLK-316, "SLIDING DOOR LH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

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#### SLIDING DOOR SWITCH

#### < DTC/CIRCUIT DIAGNOSIS >

NO >> Replace sliding door switch LH.

# 4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### SLIDING DOOR LH: Component Inspection

INFOID:0000000011322047

# 1. CHECK SLIDING DOOR SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door switch LH connector.
- 3. Check continuity between sliding door switch LH terminals.

Sliding door switch LH		Condition		Continuity
Terminal				Continuity
2	Ground part of door	Sliding door switch LH	Pressed	Existed
3	switch	Silding door switch Err	Released	Not existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door switch LH.

#### SLIDING DOOR RH

# SLIDING DOOR RH: Component Function Check

INFOID:0000000011322048

# 1. CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "RR-RH DOOR SW" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
RR-RH DOOR SW	Sliding door RH	Open	ON
KK-KII DOOK SW	Silding door Kn	Closed	OFF

#### Is the inspection result normal?

YES >> Sliding door switch is OK

NO >> Refer to <u>DLK-316</u>, "SLIDING DOOR RH : <u>Diagnosis Procedure</u>".

# SLIDING DOOR RH : Diagnosis Procedure

INFOID:0000000011322049

# 1. SLIDING DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door switch RH connector.
- 3. Check voltage between sliding door switch RH harness connector and ground.

(+) Sliding door switch RH			Voltage
		(–)	
Connector	Terminal		
B221	3	Ground	8 – 16 V

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. CHECK SLIDING DOOR SWITCH CIRCUIT

1. Disconnect sliding door control unit RH connector.

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### **SLIDING DOOR SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

Check continuity between sliding door control unit RH harness connector and sliding door switch RH harness connector.

Sliding door o	control unit RH	Sliding door switch RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B247	28	B221	3	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	28		Not existed

### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493, "RH: Removal and Installation"</u>.

NO >> Repair or replace harness.

# 3.CHECK SLIDING DOOR SWITCH

Refer to DLK-317, "SLIDING DOOR RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace sliding door switch RH.

# 4. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

# SLIDING DOOR RH: Component Inspection

1. CHECK SLIDING DOOR SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door switch RH connector.
- 3. Check continuity between sliding door switch RH terminals.

Sliding door switch RH		Condition		Continuity	
Terr	minal	Con	ullion	Continuity	
3	Ground part of door	Sliding door switch RH	Pressed	Existed	
	switch	Oliding door switch it i	Released	Not existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door switch RH.

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Revision: 2014 August DLK-317 2015 QUEST

#### < DTC/CIRCUIT DIAGNOSIS >

# FULL LATCH SWITCH SLIDING DOOR LH

# SLIDING DOOR LH: Component Function Check

INFOID:0000000011322051

# 1. CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- Select "FULL LATC SW L" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
FULL LATC SW L	Sliding door LH	Full close	OFF
	Oliding door El I	Other than above	ON

#### Is the inspection result normal?

YES >> Full latch switch is OK.

NO >> Refer to <u>DLK-318</u>, "<u>SLIDING DOOR LH</u>: <u>Diagnosis Procedure</u>".

### SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011322052

# 1. CHECK FULL LATCH SWITCH INPUT SIGNAL

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

(+)			
Sliding door lock assembly LH		(–)	Voltage
Connector	Terminal		
D123	5	Ground	8 – 16 V

#### Is the inspection result normal?

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

# 2.check full latch switch circuit

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door lock assembly LH harness connector.

Sliding door	control unit LH	Sliding door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	18	D123	5	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

•	Sliding door control unit LH			Continuity
_	Connector	Terminal	Ground	Continuity
-	B45	18		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> Repair or replace harness.

# 3.check full latch switch ground circuit

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door lock assembly LH harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door control unit LH		Sliding door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	23	D123	2	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	23		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4. CHECK FULL LATCH SWITCH CIRCUIT 2

- Connect sliding door control unit LH connector and sliding door lock assembly LH connector.
- Check voltage between sliding door control unit LH harness connector and ground.

(+)			
Sliding door co	Sliding door control unit LH		Voltage
Connector	Terminal		
B45	23	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit LH. Refer to DLK-493, "LH: Removal and Installation".

# 5. CHECK FULL LATCH SWITCH

Refer to DLK-319, "SLIDING DOOR LH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door lock assembly LH.

### 6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

# >> INSPECTION END

### SLIDING DOOR LH: Component Inspection

# 1. CHECK FULL LATCH SWITCH

Turn ignition switch OFF.

- Disconnect sliding door lock assembly LH connector.
- 3. Check continuity between sliding door lock assembly LH terminals.

Sliding door lock assembly LH		Condition		Continuity	
Term	inal	00	idition	Continuity	
<u> </u>	5 2	Sliding door LH	Full close	Not existed	
5	2		Other than above	Existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door lock assembly LH.

### SLIDING DOOR RH

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#### < DTC/CIRCUIT DIAGNOSIS >

# SLIDING DOOR RH: Component Function Check

INFOID:0000000011322054

# 1. CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "FUL LATC SW R" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
FUL LATC SW R	Sliding door RH	Full close	OFF
TOE LATO SW K	Sharing door it.	Other than above	ON

#### Is the inspection result normal?

YES >> Full latch switch is OK.

NO >> Refer to <u>DLK-320</u>, "SLIDING DOOR RH : <u>Diagnosis Procedure</u>".

# SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011322055

# 1. CHECK FULL LATCH SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect sliding door lock assembly RH connector.
- 3. Check voltage between sliding door lock assembly RH harness connector and ground.

(+)			
Sliding door lock assembly RH		(–)	Voltage
Connector	Terminal		
D124	5	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. CHECK FULL LATCH SWITCH CIRCUIT

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door lock assembly RH harness connector.

Sliding door of	iding door control unit RH Sli		Sliding door lock assembly RH	
Connector	Terminal	Connector Terminal		Continuity
B247	18	D124	5	Existed

Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	18		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "RH: Removal and Installation".

NO >> Repair or replace harness.

# ${f 3.}$ CHECK FULL LATCH SWITCH GROUND CIRCUIT

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door lock assembly RH harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door o	Sliding door control unit RH		Sliding door lock assembly RH	
Connector	Terminal	Connector Terminal		Continuity
B247	23	D124	2	Existed

Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	23		Not existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4. CHECK FULL LATCH SWITCH CIRCUIT 2

- Connect sliding door control unit RH connector and sliding door lock assembly RH connector.
- Check voltage between sliding door control unit RH harness connector and ground.

(+)				
Sliding door control unit RH		(–)	Voltage	
Connector	Terminal			
B247	23	Ground	0 V	

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit RH. Refer to DLK-493, "RH: Removal and Installation".

# 5. CHECK FULL LATCH SWITCH

Refer to <u>DLK-321</u>, "SLIDING DOOR RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door lock assembly RH.

### 6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# SLIDING DOOR RH: Component Inspection

# 1. CHECK FULL LATCH SWITCH

- Turn ignition switch OFF.
- Disconnect sliding door lock assembly RH connector.
- 3. Check continuity between sliding door lock assembly RH terminals.

Sliding door lock assembly RH		Condition		Continuity
Term	inal	Condition		Continuity
	2	Sliding door RH	Full close	Not existed
3	2	Silding door Kiri	Other than above	Existed

#### Is the inspection result normal?

>> INSPECTION END YES

NO >> Replace sliding door lock assembly RH. DLK

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### **NEUTRAL SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

# NEUTRAL SWITCH SLIDING DOOR LH

# SLIDING DOOR LH: Component Function Check

INFOID:0000000011322057

# 1. CHECK FUNCTION

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

Monitor item	Condition		Status
	Sliding door closure mo-	Neutral position	OFF
NEUTRAL SW	tor LH	Other than above	ON

#### Is the inspection result normal?

YES >> Neutral switch is OK.

NO >> Refer to <u>DLK-322</u>, "<u>SLIDING DOOR LH</u>: <u>Diagnosis Procedure</u>".

# SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011322058

# 1. CHECK NEUTRAL SWITCH INPUT SIGNAL

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

(+)				
Sliding door lock assembly LH		(–)	Voltage	
Connector	Terminal			
D123	6	Ground	8 – 16 V	

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. CHECK NEUTRAL SWITCH CIRCUIT

- Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door lock assembly LH harness connector.

Sliding door	Sliding door control unit LH		Sliding door lock assembly LH	
Connector	Terminal	Connector Terminal		Continuity
B45	15	D123	6	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	15		Not existed

### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> Repair or replace harness.

# 3.CHECK NEUTRAL SWITCH GROUND CIRCUIT

1. Disconnect sliding door control unit LH connector.

### **NEUTRAL SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

2. Check continuity between sliding door control unit LH harness connector and sliding door lock assembly LH harness connector.

Sliding door	Sliding door control unit LH		Sliding door lock assembly LH	
Connector	Terminal	Connector	Terminal	Continuity
B45	23	D123	2	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	23		Not existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4. CHECK NEUTRAL SWITCH CIRCUIT 2

- 1. Connect sliding door control unit LH connector and sliding door lock assembly LH connector.
- Check voltage between sliding door control unit LH harness connector and ground.

(+)			
Sliding door control unit LH		(–)	Voltage
Connector	Terminal		
B45	23	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

### 5. CHECK NEUTRAL SWITCH

Refer to DLK-323, "SLIDING DOOR LH: Component Inspection".

### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door lock assembly LH.

### 6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### SLIDING DOOR LH: Component Inspection

# 1. CHECK NEUTRAL SWITCH

- 1. Turn ignition switch OFF.
- Disconnect sliding door lock assembly LH connector.
- 3. Check continuity between sliding door lock assembly LH terminals.

Sliding door lock assembly LH		Condition		Continuity	
Terminal				Continuity	
6 2	Sliding door closure motor LH	Neutral position	Not existed		
	2	Silding door closure motor Err	Other than above	Existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door lock assembly LH.

#### SLIDING DOOR RH

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### **NEUTRAL SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

# SLIDING DOOR RH: Component Function Check

INFOID:0000000011322060

# 1. CHECK FUNCTION

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

Monitor item	Condition		Status
NEUTRAL SW	Sliding door closure motor RH	Neutral position	OFF
		Other than above	ON

#### Is the inspection result normal?

YES >> Neutral switch is OK.

NO >> Refer to <u>DLK-324</u>, "SLIDING DOOR RH: Diagnosis Procedure".

### SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011322061

# 1. CHECK NEUTRAL SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect sliding door lock assembly RH connector.
- 3. Check voltage between sliding door lock assembly RH harness connector and ground.

(+)			
Sliding door lock assembly RH		(–)	Voltage
Connector	Terminal		
D124	6	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK NEUTRAL SWITCH CIRCUIT

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door lock assembly RH harness connector.

Sliding door	control unit RH	Sliding door loo	ck assembly RH	Continuity
Connector	Terminal	Connector	Terminal	
B247	15	D124	6	Existed

Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	15		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "RH: Removal and Installation".

NO >> Repair or replace harness.

# 3.check neutral switch ground circuit

- Disconnect sliding door control unit RH connector.
- 2. Check continuity between sliding door control unit RH harness connector and sliding door lock assembly RH harness connector.

### **NEUTRAL SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door o	ng door control unit RH Sliding door lock assembly RH		Sliding door lock assembly RH	
Connector	Terminal	Connector Terminal		Continuity
B247	23	D124	2	Existed

Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	23		Not existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK NEUTRAL SWITCH CIRCUIT 2

- Connect sliding door control unit RH connector and sliding door lock assembly RH connector.
- Check voltage between sliding door control unit RH harness connector and ground.

(+)			
Sliding door co	Sliding door control unit RH		Voltage
Connector	Terminal		
B247	23	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit RH. Refer to DLK-493, "RH: Removal and Installation".

### 5. CHECK NEUTRAL SWITCH

Refer to DLK-325, "SLIDING DOOR RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door lock assembly RH.

### 6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

# SLIDING DOOR RH: Component Inspection

# 1. CHECK NEUTRAL SWITCH

- Turn ignition switch OFF.
- Disconnect sliding door lock assembly RH connector.
- Check continuity between sliding door lock assembly RH terminals.

Sliding door lock assembly RH		Condition		Continuity
Term	inal	Condition		Continuity
6	2	Sliding door closure motor RH	Neutral position	Not existed
O	2	Silding door closure motor ixi i	Other than above	Existed

#### Is the inspection result normal?

>> INSPECTION END YES

NO >> Replace sliding door lock assembly RH. DLK

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**DLK-325** Revision: 2014 August **2015 QUEST** 

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#### < DTC/CIRCUIT DIAGNOSIS >

# SLIDING DOOR HANDLE SWITCH

### SLIDING DOOR LH

### SLIDING DOOR LH: Component Function Check

INFOID:0000000011322063

### 1. CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- 2. Select "DOR HAND SW L" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status	
DOR HAND SW L	Sliding door handle LH	Pull	ON	
BOK TIXIND OW E	Chang door Handie Err	Release	OFF	

#### Is the inspection result normal?

YES >> Sliding door handle switch is OK.

NO >> Refer to <u>DLK-326</u>, "<u>SLIDING DOOR LH</u>: <u>Diagnosis Procedure</u>".

### SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011322064

# 1. CHECK SLIDING DOOR HANDLE SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect remote control assembly LH connector.
- 3. Check voltage between remote control assembly LH harness connector and ground.

(+)			
Remote control	Remote control assembly LH		Voltage
Connector	Terminal		
D118	2	Ground	8 – 16 V

#### Is the inspection result normal?

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

# 2.check sliding door handle switch circuit

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and remote control assembly LH harness connector.

Sliding door	control unit LH	Remote control assembly LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B45	22	D118	2	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door	control unit LH		Continuity
Connector	Connector Terminal		Continuity
B45	22		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> Repair or replace harness.

### 3.check sliding door handle switch ground circuit

- Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and remote control assembly LH harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door o	Sliding door control unit LH Remote control assembly LH		Remote control assembly LH	
Connector	Terminal	Connector Terminal		Continuity
B45	23	D118	1	Existed

Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	23		Not existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4.CHECK SLIDING DOOR HANDLE SWITCH CIRCUIT 2

- Connect sliding door control unit LH connector and remote control assembly LH connector.
- Check voltage between sliding door control unit LH harness connector and ground.

(+)			
Sliding door co	Sliding door control unit LH		Voltage
Connector	Terminal		
B45	23	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-493</u>, "LH: Removal and Installation".

# 5. CHECK SLIDING DOOR HANDLE SWITCH

Refer to DLK-327, "SLIDING DOOR LH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace remote control assembly LH.

### 6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

# SLIDING DOOR LH: Component Inspection

# 1. CHECK SLIDING DOOR HANDLE SWITCH

- Turn ignition switch OFF.
- 2. Disconnect remote control assembly LH connector.
- 3. Check continuity between remote control assembly LH terminals.

Remote control assembly LH		Condition		Continuity
Terminal				
2	1 Sliding door handle LH		Pull	Existed
2	2	Silding door namine Lin	Release	Not existed

#### Is the inspection result normal?

>> INSPECTION END YES

NO >> Replace remote control assembly LH.

### SLIDING DOOR RH

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**DLK-327** Revision: 2014 August **2015 QUEST** 

#### < DTC/CIRCUIT DIAGNOSIS >

### SLIDING DOOR RH: Component Function Check

INFOID:0000000011322066

### 1. CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "DOR HAND SW R" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOR HAND SW R	Sliding door handle RH	Pull	ON
DOK II/MD OW K		Release	OFF

### Is the inspection result normal?

YES >> Sliding door handle switch is OK.

NO >> Refer to <u>DLK-328</u>, "SLIDING DOOR RH: <u>Diagnosis Procedure"</u>.

### SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011322067

# 1. CHECK SLIDING DOOR HANDLE SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect remote control assembly RH connector.
- 3. Check voltage between remote control assembly RH harness connector and ground.

(+)			
Remote control	Remote control assembly RH		Voltage
Connector	Terminal		
D127	2	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.check sliding door handle switch circuit

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and remote control assembly RH harness connector.

Sliding door of	control unit RH	Remote control assembly RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B247	22	D127	2	Existed

Check continuity between sliding door control unit RH harness connector and ground.

	Sliding door control unit RH			Continuity
	Connector	Terminal	Ground	Continuity
_	B247	22		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493, "RH: Removal and Installation"</u>.

NO >> Repair or replace harness.

# 3.check sliding door handle switch ground circuit

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and remote control assembly RH harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door o	control unit RH	Remote control assembly RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B247	23	D127	1	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	23		Not existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4.CHECK SLIDING DOOR HANDLE SWITCH CIRCUIT 2

- Connect sliding door control unit RH connector and remote control assembly RH connector.
- 2. Check voltage between sliding door control unit RH harness connector and ground.

(+)			
Sliding door control unit RH		(–)	Voltage
Connector	Terminal		
B247	23	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "RH: Removal and Installation".

### 5. CHECK SLIDING DOOR HANDLE SWITCH

Refer to DLK-329, "SLIDING DOOR RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace remote control assembly RH.

### 6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### SLIDING DOOR RH: Component Inspection

# 1. CHECK SLIDING DOOR HANDLE SWITCH

- Turn ignition switch OFF.
- 2. Disconnect remote control assembly RH connector.
- 3. Check continuity between remote control assembly RH terminals.

Remote control assembly RH		Condition		Continuity
Term	inal	Condition		Continuity
2	1	Sliding door handle RH	Pull	Existed
2	<b>"</b>	Silding door rialidie IXI I	Release	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

Revision: 2014 August

NO >> Replace remote control assembly RH.

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DLK-329

#### < DTC/CIRCUIT DIAGNOSIS >

# SLIDING DOOR LOCK STATUS SWITCH

### SLIDING DOOR LH

### SLIDING DOOR LH: Component Function Check

INFOID:0000000011322075

### 1. CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- 2. Select "KNOB LCK SW L" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
KNOB LCK SW L	Sliding door LH	LOCK	OFF
	Silding door LH	UNLOCK	ON

#### Is the inspection result normal?

YES >> Sliding door lock status switch is OK.

NO >> Refer to <u>DLK-330</u>, "SLIDING DOOR LH : <u>Diagnosis Procedure</u>".

### SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011322076

# ${\sf 1.}$ CHECK SLIDING DOOR LOCK STATUS SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect sliding door lock status switch LH connector.
- 3. Check voltage between sliding door lock status switch LH harness connector and ground.

(+)			
Sliding door lock s	Sliding door lock status switch LH		Voltage
Connector	Terminal		
D119	1	Ground	8 – 16 V

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.check sliding door lock status switch circuit

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door lock status switch LH harness connector.

Sliding door	control unit LH	Sliding door lock status switch LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B45	3	D119	1	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	3		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> Repair or replace harness.

### 3.check sliding door lock status switch ground circuit

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door lock status switch LH harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door control unit LH		Sliding door lock status switch LH		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B45	23	D119	3	Existed	

Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector Terminal		Ground	Continuity
B45	23		Not existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4.CHECK SLIDING DOOR LOCK STATUS SWITCH CIRCUIT $_{ m 2}$

- Connect sliding door control unit LH connector and sliding door lock status switch LH connector.
- Check voltage between sliding door control unit LH harness connector and ground.

(+)			
Sliding door control unit LH		(–)	Voltage
Connector	Terminal		
B45	23	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-493</u>, "LH: Removal and Installation".

### 5. CHECK SLIDING DOOR LOCK STATUS SWITCH

Refer to DLK-331, "SLIDING DOOR LH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door lock actuator LH.

### 6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

### >> INSPECTION END

### SLIDING DOOR LH: Component Inspection

# 1. CHECK SLIDING DOOR LOCK STATUS SWITCH

Turn ignition switch OFF.

- Disconnect sliding door lock status switch LH connector.
- Check continuity between sliding door lock status switch LH terminals.

Sliding door lock status switch LH		Condition		Continuity	(
Term	inal	Con	aition	Continuity	
3 1		Sliding door LH	LOCK	Not existed	
3	I	Silding door LH	UNLOCK	Existed	F

#### Is the inspection result normal?

>> INSPECTION END YES

NO >> Replace sliding door lock status switch LH.

### SLIDING DOOR RH

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**DLK-331** Revision: 2014 August **2015 QUEST** 

#### < DTC/CIRCUIT DIAGNOSIS >

### SLIDING DOOR RH: Component Function Check

INFOID:0000000011322078

### 1. CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "KNOB LCK SW R" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
KNOB LCK SW R	Sliding door RH	LOCK	OFF
	Sharing door Terr	UNLOCK	ON

### Is the inspection result normal?

YES >> Sliding door lock status switch is OK.

NO >> Refer to <u>DLK-332</u>. "SLIDING DOOR RH: <u>Diagnosis Procedure"</u>.

### SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011322079

### 1. CHECK SLIDING DOOR LOCK STATUS SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect sliding door lock status switch RH connector.
- 3. Check voltage between sliding door lock status switch RH harness connector and ground.

(+)			
Sliding door lock status switch RH		(–)	Voltage
Connector	Terminal		
D120	3	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.check sliding door lock status switch circuit

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door lock status switch RH harness connector.

Sliding door of	Sliding door control unit RH		Sliding door lock status switch RH	
Connector	Terminal	Connector	Terminal	Continuity
B247	3	D120	3	Existed

Check continuity between sliding door control unit RH harness connector and ground.

Sliding door o	control unit RH		Continuity
Connector Terminal		Ground	Continuity
 B247	3		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "RH: Removal and Installation".

NO >> Repair or replace harness.

# 3.check sliding door lock status switch ground circuit

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door lock status switch RH harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door control unit RH		Sliding door lock status switch RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B247	23	D120	1	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector Terminal		Ground	Continuity
B247	23		Not existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4.CHECK SLIDING DOOR LOCK STATUS SWITCH CIRCUIT $_{ m 2}$

- 1. Connect sliding door control unit RH connector and sliding door lock status switch RH connector.
- 2. Check voltage between sliding door control unit RH harness connector and ground.

(+)			
Sliding door control unit RH		(–)	Voltage
Connector	Terminal		
B247	23	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "RH: Removal and Installation".

### 5. CHECK SLIDING DOOR LOCK STATUS SWITCH

Refer to DLK-333, "SLIDING DOOR RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door lock actuator RH.

### 6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

### >> INSPECTION END

### SLIDING DOOR RH: Component Inspection

# 1. CHECK SLIDING DOOR LOCK STATUS SWITCH

- Turn ignition switch OFF.
- Disconnect sliding door lock status switch RH connector.
- 3. Check continuity between sliding door lock status switch RH terminals.

Sliding door lock status switch RH		Condition		Continuity	0
Term	inal	Condition		Continuity	
2	1	Sliding door RH	LOCK	Not existed	
3	ı	Silding door KH	UNLOCK	Existed	Р

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#### Is the inspection result normal?

YES >> INSPECTION END

Revision: 2014 August

NO >> Replace sliding door lock actuator RH.

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### **FUEL LID STATUS SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

### **FUEL LID STATUS SWITCH**

### Component Function Check

INFOID:0000000011322081

### 1. CHECK FUNCTION

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

Monitor item	Condition		Status
F LID SW	Fuel filler lid status switch	ON	ON
1 LID OW		OFF	OFF

#### Is the inspection result normal?

YES >> Fuel filler lid status switch is OK.

NO >> Refer to <u>DLK-334</u>, "<u>Diagnosis Procedure</u>".

### Diagnosis Procedure

INFOID:0000000011322082

# 1. CHECK FUEL FILLER LID STATUS SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect fuel filler lid status switch connector.
- 3. Check voltage between fuel filler lid status switch harness connector and ground.

(+)			
Fuel filler lid s	Fuel filler lid status switch		Voltage
Connector	Connector Terminal		
B24	B24 2		8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2. CHECK FUEL FILLER LID STATUS SWITCH CIRCUIT

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and fuel filler lid status switch harness connector.

Sliding door	control unit LH	Fuel filler lid status switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
B45	17	B24	2	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door	control unit LH		Continuity	
Connector Terminal		Ground	Continuity	
B45	17		Not existed	

#### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <a href="DLK-493">DLK-493</a>, "LH: Removal and Installation".

NO >> Repair or replace harness.

### 3.CHECK FUEL FILLER LID STATUS SWITCH GROUND CIRCUIT

Check continuity between fuel filler lid status switch LH harness connector and ground.

### **FUEL LID STATUS SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Fuel filler lid status switch			Continuity	
Connector	Terminal	Ground	Continuity	
B24	1		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK FUEL FILLER LID STATUS SWITCH

Refer to DLK-335, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace fuel filler interlock assembly.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

# Component Inspection

1. CHECK FUEL FILLER LID STATUS SWITCH

- 1. Turn ignition switch OFF.
- Disconnect fuel filler lid status switch connector.
- 3. Check continuity between fuel filler lid status switch terminals.

Fuel filler lid status switch		Condition		Continuity
Term	ninal	Condition		Continuity
2	1	Fuel filler lid status switch	ON	Existed
2	1	i dei illei ild status switch	OFF	Not existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace fuel filler lid interlock assembly.

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#### < DTC/CIRCUIT DIAGNOSIS >

# SLIDING DOOR OPEN/CLOSE SWITCH

### FRONT LH

### FRONT LH: Component Function Check

INFOID:0000000011322084

### 1. CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- 2. Select "DRIVER SW" in "DATA MÖNITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DRIVER SW	Sliding door open/close switch	Pressed	ON
	(front LH)	Released	OFF

#### Is the inspection result normal?

YES >> Sliding door open/close switch (front LH) is OK.

NO >> Refer to <u>DLK-336</u>, "FRONT LH: <u>Diagnosis Procedure"</u>.

### FRONT LH: Diagnosis Procedure

INFOID:0000000011322085

### ${f 1}.$ check sliding door open/close switch input signal

- Turn ignition switch OFF.
- 2. Disconnect sliding door open/close switch (front side) connector.
- 3. Check voltage between sliding door open/close switch (front side) harness connector and ground.

(+)			
Sliding door open/clos	Sliding door open/close switch (front side)		Voltage
Connector	Terminal		
M90	M90 2		8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK SLIDING DOOR OPEN/CLOSE SWITCH CIRCUIT

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door open/close switch (front side) harness connector.

Sliding door	Sliding door control unit LH Sliding door open/close switch (front side)		Continuity	
Connector	Terminal	Connector Terminal		Continuity
B45	19	M90	2	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door	control unit LH		Continuity	
Connector Terminal		Ground	Continuity	
B45	B45 19		Not existed	

#### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> Repair or replace harness.

### 3.check sliding door open/close switch ground circuit

Check continuity between sliding door open/close switch (front side) harness connector and ground.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door open/clo	ose switch (front side)		Continuity
Connector	Terminal	Ground	Continuity
M90	3		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK SLIDING DOOR OPEN/CLOSE SWITCH

Refer to DLK-337, "FRONT LH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door open/close switch (front side).

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

### >> INSPECTION END

### FRONT LH: Component Inspection

# 1. CHECK SLIDING DOOR OPEN/CLOSE SWITCH

- 1. Turn ignition switch OFF.
- Disconnect sliding door open/close switch (front side) connector.
- 3. Check continuity between sliding door open/close switch (front side) terminals.

Sliding door open/close switch (front side)		Condition		Continuity
Terminal				
2	2	Sliding door open/close switch	Pressed	Existed
۷	2 (front LH)	(front LH)	Released	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door open/close switch (front side).

### FRONT RH

### FRONT RH: Component Function Check

# 1.check function

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

Monitor item	Condition		Status
DRIVER SW	Sliding door open/close switch		ON
DIVIVEIX OVV	(front RH)	Released	OFF

#### Is the inspection result normal?

YES >> Sliding door open/close switch (front RH) is OK.

NO >> Refer to <u>DLK-337</u>, "FRONT RH: <u>Diagnosis Procedure"</u>.

### FRONT RH: Diagnosis Procedure

# 1. CHECK SLIDING DOOR OPEN/CLOSE SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.

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Disconnect sliding door open/close switch (front side) connector.

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3. Check voltage between sliding door open/close switch (front side) harness connector and ground.

(+)			
Sliding door open/close switch (front side)		(–)	Voltage
Connector	Terminal		
M90	1	Ground	8 – 16 V

### Is the inspection result normal?

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

### 2.check sliding door open/close switch circuit

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door open/close switch (front side) harness connector.

Sliding door	Sliding door control unit RH		Sliding door open/close switch (front side)	
Connector	Terminal	Connector Terminal		Continuity
B247	19	M90	1	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	19		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493, "RH: Removal and Installation"</u>.

NO >> Repair or replace harness.

### 3.check sliding door open/close switch ground circuit

Check continuity between sliding door open/close switch (front side) harness connector and ground.

Sliding door open/close switch (front side)			Continuity
Connector	Terminal	Ground	Continuity
M90	3		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK SLIDING DOOR OPEN/CLOSE SWITCH

Refer to DLK-338, "FRONT RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door open/close switch (front side).

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### FRONT RH: Component Inspection

INFOID:0000000011322089

### 1. CHECK SLIDING DOOR OPEN/CLOSE SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door open/close switch (front side) connector.
- 3. Check continuity between sliding door open/close switch (front side) terminals.

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### < DTC/CIRCUIT DIAGNOSIS >

Sliding door open/close switch (front side)		Condition		Continuity
Term	ninal	Condition		Continuity
1	2	Sliding door open/close switch	Pressed	Existed
ı	3	(front RH)	Released	Not existed

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### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door open/close switch (front side).

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### < DTC/CIRCUIT DIAGNOSIS >

# SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH SLIDING DOOR LH

### SLIDING DOOR LH: Component Function Check

INFOID:0000000011322096

### 1. CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR" using CONSULT.
- 2. Select "ONE-TOUCH SW" in "DATA MONITOR" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
ONE-TOUCH SW	Sliding door one-touch open/	Pressed	ON
ONE-TOOCH SW	close switch LH	Released	OFF

#### Is the inspection result normal?

YES >> Sliding door one-touch open/close switch is OK.

NO >> Refer to <u>DLK-340</u>, "SLIDING DOOR LH : <u>Diagnosis Procedure</u>".

### SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011322097

# 1. CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect sliding door one-touch open/close switch LH connector.
- 3. Check voltage between sliding door one-touch open/close switch LH harness connector and ground.

(+)			
Sliding door one-touch	Sliding door one-touch open/close switch LH		Voltage
Connector	Terminal		
D125	1	Ground	8 – 16 V

### Is the inspection result normal?

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

# 2.check sliding door one-touch open/close switch circuit

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door one-touch open/ close switch LH harness connector.

Sliding door	r control unit LH Sliding door one-touch open/close switch LH		Sliding door one-touch open/close switch LH	
Connector	Terminal	Connector Terminal		Continuity
B45	14	D125	1	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	14		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> Repair or replace harness.

# 3.CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH GROUND CIRCUIT

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door one-touch open/ close switch LH harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door	control unit LH	Sliding door one-touch open/close switch LH		Continuity
Connector	Terminal	Connector		
B45	23	D125	2	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	23		Not existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH CIRCUIT 2

- Connect sliding door control unit LH connector and sliding door one-touch open/close switch LH connector.
- 2. Check voltage between sliding door one-touch open/close switch LH harness connector and ground.

(+)				
Sliding door control unit LH		(–)	Voltage	
Connector	Terminal			
B45	23	Ground	0 V	

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-493</u>, "LH: Removal and Installation".

### 5.CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

Refer to DLK-341, "SLIDING DOOR LH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door one-touch open/close switch LH.

### 6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### SLIDING DOOR LH : Component Inspection

1. CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door one-touch open/close switch LH connector.
- 3. Check continuity between sliding door one-touch open/close switch LH terminals.

Sliding door one-touch open/close switch LH		Condition		Continuity
Terminal				
1	2	Sliding door one-touch open/	Pressed	Existed
	2	close switch LH	Released	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door one-touch open/close switch LH.

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#### < DTC/CIRCUIT DIAGNOSIS >

### SLIDING DOOR RH: Component Function Check

INFOID:0000000011322099

### 1. CHECK FUNCTION

- 1. Select "AUTO SLDE DOOR RIGHT" using CONSULT.
- 2. Select "ONE-TOUCH SW" in "DATA MONITOR" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
ONE-TOUCH SW	Sliding door one-touch open/	Pressed	ON
CIVE TOOCH OW	close switch RH	Released	OFF

### Is the inspection result normal?

YES >> Sliding door one-touch open/close switch is OK.

NO >> Refer to <u>DLK-340</u>, "SLIDING DOOR LH: <u>Diagnosis Procedure</u>".

### SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011322100

# 1. CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect sliding door one-touch open/close switch RH connector.
- 3. Check voltage between sliding door one-touch open/close switch RH harness connector and ground.

(+)			
Sliding door one-touch	Sliding door one-touch open/close switch RH		Voltage
Connector	Connector Terminal		
D126	1	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH CIRCUIT

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door one-touch open/close switch RH harness connector.

Sliding door control unit RH		Sliding door one-touch open/close switch RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B247	14	D126	1	Existed

Check continuity between sliding door control unit RH harness connector and ground.

Sliding door o	control unit RH		Continuity
Connector	Terminal	Ground	Continuity
B247	14		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "RH: Removal and Installation".

NO >> Repair or replace harness.

# 3.check sliding door one-touch open/close switch ground circuit

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door one-touch open/close switch RH harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door control unit RH		Sliding door one-touch open/close switch RH		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B247	23	D126	2	Existed	

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door o	control unit RH		Continuity
Connector	Connector Terminal		Continuity
B247	23		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH CIRCUIT 2

- Connect sliding door control unit RH connector and sliding door one-touch open/close switch RH connector.
- 2. Check voltage between sliding door one-touch open/close switch RH harness connector and ground.

(+)			
Sliding door control unit RH		(–)	Voltage
Connector	Terminal		
B247	23	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-493, "RH : Removal and Installation"</u>.

### 5.CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

Refer to DLK-343, "SLIDING DOOR RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door one-touch open/close switch RH.

### 6.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### SLIDING DOOR RH: Component Inspection

1. CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door one-touch open/close switch RH connector.
- 3. Check continuity between sliding door one-touch open/close switch RH terminals.

Sliding door one-touch open/close switch RH		Condition		Continuity
Terminal				
1	2	Sliding door one-touch open/	Pressed	Existed
ı	2	close switch RH	Released	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door one-touch open/close switch RH.

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#### < DTC/CIRCUIT DIAGNOSIS >

# SLIDING DOOR TOUCH SENSOR

### SLIDING DOOR LH

### SLIDING DOOR LH: Component Function Check

INFOID:0000000011322102

### 1. CHECK FUNCTION

- 1. Select "AUTO SLIDE 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	Sliding door touch sensor LH	Other than below	OFF
	Silding door toddir serisor En	Detect obstruction	ON

#### Is the inspection result normal?

YES >> Sliding door touch sensor is OK.

NO >> Refer to DLK-344, "SLIDING DOOR LH: Diagnosis Procedure".

### SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011322103

### ${f 1}.$ check sliding door touch sensor input signal

- Turn ignition switch OFF.
- Check voltage between sliding door touch sensor LH harness connector and sliding door control unit LH harness connector.

(	+)	(-	<b>-</b> )	Condition				
•	touch sensor .H	•	r control unit H			Condition		Voltage
Connector	Terminal	Connector	Terminal					
D172	1	B45	23	Sliding door touch	Detect obstruction	0 – 1.5 V		
D172	1	D40	23	sensor LH	Other than above	4 – 8 V		

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2.CHECK SLIDING DOOR TOUCH SENSOR CIRCUIT

- Disconnect sliding door control unit LH and sliding door touch sensor LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door touch sensor LH harness connector.

Sliding door c	Sliding door control unit LH		Sliding door touch sensor LH	
Connector	Terminal	Connector	Terminal	Continuity
B45	24	D172	1	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door	control unit LH		Continuity
Connector	Connector Terminal		Continuity
B45	24		Not existed

### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to DLK-493, "LH: Removal and Installation".

NO >> Repair or replace harness.

### 3.check sliding door touch sensor ground circuit

1. Disconnect sliding door control unit LH and sliding door touch sensor LH connectors.

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#### < DTC/CIRCUIT DIAGNOSIS >

Check continuity between sliding door control unit LH harness connector and sliding door touch sensor LH harness connector.

Sliding door control unit LH Sliding door touch sensor LH

Connector Terminal Connector Terminal

B45 23 D172 2 Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

_	Sliding door o	control unit LH		Continuity
	Connector Terminal		Ground	Continuity
_	B45	23		Not existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4.CHECK SLIDING DOOR TOUCH SENSOR GROUND CIRCUIT 2

- 1. Connect sliding door control unit LH connector and sliding door touch sensor LH connector.
- Check voltage between sliding door control unit LH harness connector and ground.

	(+)		
Sliding door	control unit LH	(–)	Voltage
Connector	Terminal		3
B45	23	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

### ${f 5}$ .CHECK SLIDING DOOR TOUCH SENSOR

Refer to DLK-345, "SLIDING DOOR LH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door touch sensor LH.

### $\mathsf{6}.$ CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

#### >> INSPECTION END

### SLIDING DOOR LH: Component Inspection

# 1. CHECK SLIDING DOOR TOUCH SENSOR LH

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

Sliding door touch sensor LH  Terminal		Condition		Resistance
	2	Other than above	1 kΩ ± 10%	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door touch sensor LH.

#### SLIDING DOOR RH

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#### < DTC/CIRCUIT DIAGNOSIS >

### SLIDING DOOR RH: Component Function Check

INFOID:0000000011322105

### 1. CHECK FUNCTION

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

Monitor item	Condition		Status
TOUCH SEN RH	Sliding door touch sensor RH	Other than below	OFF
	Sliding door touch sensor Rh	Detect obstruction	ON

### Is the inspection result normal?

YES >> Sliding door touch sensor is OK.

NO >> Refer to <u>DLK-346</u>, "SLIDING DOOR RH: Diagnosis Procedure".

### SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011322106

### 1. CHECK SLIDING DOOR TOUCH SENSOR INPUT SIGNAL

- Turn ignition switch OFF.
- Check voltage between sliding door touch sensor RH harness connector and sliding door control unit RH harness connector.

(	+)	(	_)					
ŭ	touch sensor RH	•	r control unit RH	Condition		Condition Volta		Voltage
Connector	Terminal	Connector	Terminal					
D173	1	B247	23	Sliding door touch	Detect obstruction	0 – 1.5 V		
D173		D241	sensor RH		Other than above	4 – 8 V		

### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.check sliding door touch sensor circuit

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

Sliding door control unit RH		Sliding door touch sensor RH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B247	24	D173	1	Existed	

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door o	control unit RH		Continuity
Connector	Connector Terminal		Continuity
B247	24		Not existed

### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> Repair or replace harness.

# ${f 3.}$ CHECK SLIDING DOOR TOUCH SENSOR GROUND CIRCUIT

- 1. Disconnect sliding door control unit RH connector and sliding door touch sensor RH connectors.
- Check continuity between sliding door control unit RH harness connector and sliding door touch sensor RH harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door control unit RH		Sliding door to	uch sensor RH	Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B247	23	D173	2	Existed	

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door o	control unit RH		Continuity	
Connector Terminal		Ground	Continuity	
B247	23		Not existed	

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK SLIDING DOOR TOUCH SENSOR GROUND CIRCUIT 2

- 1. Connect sliding door control unit RH connector and sliding door touch sensor RH connector.
- 2. Check voltage between sliding door control unit RH harness connector and ground.

	(+)		
Sliding door	control unit RH	(–)	Voltage
Connector	Terminal		
B247	23	Ground	0 V

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "LH: Removal and Installation".

### 5. CHECK SLIDING DOOR TOUCH SENSOR

Refer to DLK-347, "SLIDING DOOR RH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace sliding door touch sensor RH.

### 6. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

### >> INSPECTION END

### SLIDING DOOR RH : Component Inspection

# 1. CHECK SLIDING DOOR TOUCH SENSOR RH

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

Sliding door to	Sliding door touch sensor RH		Condition	
Terr	ninal	Condi	uon	Resistance
1	2	Sliding door touch sen-	Detect obstruction	120 Ω or less
I	2	sor RH	Other than above	1 kΩ ± 10%

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace sliding door touch sensor RH.

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### **CLUTCH**

#### < DTC/CIRCUIT DIAGNOSIS >

### CLUTCH

### SLIDING DOOR LH

### SLIDING DOOR LH: Component Function Check

INFOID:0000000011322108

### 1. CHECK FUNCTION

- 1. Select "AUTO SLIDE DOOR" using CONSULT.
- 2. Select "CLUTCH" in "ACTIVE TEST" mode.
- Touch "HOLD" and "RELEASE" to check that it works normally.

### Is the inspection result normal?

YES >> Clutch is OK.

NO >> Refer to <u>DLK-348</u>, "SLIDING DOOR LH: <u>Diagnosis Procedure"</u>.

### SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011322109

## 1. CHECK CLUTCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic sliding door unit LH connector.
- 3. Check voltage between automatic sliding door unit LH harness connector and ground.

(+	,	( )	0	. Pet	Valla	
Automatic slidin	ig door unit LH	(-)	Condition		(–) Condition Voltage	voitage
Connector	Terminal					
B33	2	Ground	Clutch	ON	9 – 16 V	
В33	2	Giodila	Clutch	OFF	0 V	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2. CHECK CLUTCH CIRCUIT

- 1. Disconnect sliding door control unit LH connector.
- 2. Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door	Sliding door control unit LH		Automatic sliding door unit LH	
Connector	Terminal	Connector	Terminal	Continuity
B47	47	B33	2	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door	control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B47	47		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> Repair or replace harness.

# 3.CHECK CLUTCH GROUND CIRCUIT

- Disconnect sliding door control unit LH connector.
- 2. Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door	control unit LH	Automatic sliding door unit LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B47	44	B33	1	Existed

Check continuity between sliding door control unit LH harness connector and ground.

Sliding door of	control unit LH		Continuity
Connector	Terminal	Ground	Continuity
B47	44		Not existed

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK CLUTCH CIRCUIT 2

- 1. Connect sliding door control unit LH connector and automatic sliding door unit LH connector.
- Check voltage between sliding door control unit LH harness connector and ground.

(+)			
Sliding door co	ntrol unit LH	(–)	Voltage
Connector	Terminal		
B47	44	Ground	0 V

#### Is the inspection result normal?

YES >> Replace automatic sliding door unit LH.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

### SLIDING DOOR RH

### SLIDING DOOR RH: Component Function Check

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### 1. CHECK FUNCTION

- 1. Select "AUTO SLIDE DOOR RIGHT" using CONSULT.
- Select "CLUTCH" in "ACTIVE TEST" mode.
- 3. Touch "HOLD" and "RELEASE" to check that it works normally.

#### Is the inspection result normal?

YES >> Clutch is OK.

NO >> Refer to <u>DLK-348</u>, "SLIDING DOOR LH: <u>Diagnosis Procedure"</u>.

### SLIDING DOOR RH : Diagnosis Procedure

# 1. CHECK CLUTCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect automatic sliding door unit RH connector.
- Check voltage between automatic sliding door unit RH harness connector and ground.

(+	·)				
Automatic sliding door unit RH		(–)	Condition		Voltage
Connector	Terminal				
B245	2	Ground	Clutch	ON	9 – 16 V
D243	2	Giodila	Ciutori	OFF	0 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2. CHECK CLUTCH CIRCUIT

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#### CLUTCH

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- 1. Disconnect sliding door control unit RH connector.
- 2. Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door	Sliding door control unit RH		Automatic sliding door unit RH	
Connector	Terminal	Connector	Terminal	Continuity
B249	47	B245	2	Existed

Check continuity between sliding door control unit RH harness connector and ground.

Sliding door o	control unit RH		Continuity
Connector	Terminal	Ground	Continuity
B249	47		Not existed

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493, "RH: Removal and Installation"</u>.

NO >> Repair or replace harness.

# 3.check clutch ground circuit

- Disconnect sliding door control unit RH connector.
- 2. Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door o	control unit RH	Automatic slidi	ng door unit RH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B249	44	B245	1	Existed

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door o	control unit RH		Continuity
Connector	Terminal	Ground	Continuity
B249	44		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK CLUTCH CIRCUIT 2

- 1. Connect sliding door control unit RH connector and automatic sliding door unit RH connector.
- 2. Check voltage between sliding door control unit RH harness connector and ground.

(+)				
Sliding door control unit RH		(–)	Voltage	
Connector	Terminal			
B249	44	Ground	0 V	

#### Is the inspection result normal?

YES >> Replace automatic sliding door unit RH.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "RH: Removal and Installation".

### **AUTOMATIC SLIDING DOOR MOTOR**

#### < DTC/CIRCUIT DIAGNOSIS >

# **AUTOMATIC SLIDING DOOR MOTOR** SLIDING DOOR LH

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### SLIDING DOOR LH: Diagnosis Procedure

### 1. CHECK AUTOMATIC SLIDING DOOR MOTOR INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect sliding door control unit LH connector.
- Check voltage between sliding door control unit LH harness connector and ground.

	+) control unit LH	(–)	(–) Condition		Condition		Voltage
Connector	Terminal						
B47	43	Ground Sliding door LH		Open operate	9 – 16 V		
D4 <i>1</i>	46	Ground	Silding door LH	Close operate	9 – 10 V		

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace sliding door control unit LH. Refer to DLK-493, "LH: Removal and Installation".

### 2.CHECK AUTOMATIC SLIDING DOOR MOTOR CIRCUIT

- Disconnect automatic sliding door unit LH connector.
- Check continuity between sliding door control unit LH harness connector and automatic sliding door unit LH harness connector.

Sliding door	control unit LH	Automatic sliding door unit LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B47	43	B33	3	Existed
D41	46	500	4	LAISIGU

Check continuity between sliding door control unit LH harness connector and ground.

Sliding door o	control unit LH		Continuity	
Connector	Terminal	Ground	Continuity	
B47	43	- Ground	Not existed	
D41	46	46		Not existed

#### Is the inspection result normal?

YES >> Replace automatic sliding door unit LH.

NO >> Repair or replace harness.

### SLIDING DOOR RH

### SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011322113

### 1. CHECK AUTOMATIC SLIDING DOOR MOTOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect sliding door control unit RH connector. 2.
- Check voltage between sliding door control unit RH harness connector and ground.

(	+)				
Sliding door control unit RH		(–)	Condition		Voltage
Connector	Terminal				
B249	43	Ground	Sliding door PH	Open operate	9 – 16 V
B249	46	Ground Sliding door RH		Close operate	9-16 V

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### **AUTOMATIC SLIDING DOOR MOTOR**

### < DTC/CIRCUIT DIAGNOSIS >

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-493</u>, "LH: Removal and Installation".

# 2. CHECK AUTOMATIC SLIDING DOOR MOTOR CIRCUIT

1. Disconnect automatic sliding door unit RH connector.

2. Check continuity between sliding door control unit RH harness connector and automatic sliding door unit RH harness connector.

Sliding door o	control unit RH	Automatic sliding door unit RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B249	43	B245	4	Existed
D249	46	D243	3	LXISIEU

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door	control unit RH		Continuity
Connector	Terminal	Ground Not existed	Continuity
B249	43		Not existed
D249	46		Not existed

### Is the inspection result normal?

YES >> Replace automatic sliding door unit RH.

NO >> Repair or replace harness.

### SLIDING DOOR LOCK RELEASE ACTUATOR

### < DTC/CIRCUIT DIAGNOSIS >

# SLIDING DOOR LOCK RELEASE ACTUATOR SLIDING DOOR LH

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### SLIDING DOOR LH: Diagnosis Procedure

# 1. CHECK SLIDING DOOR LOCK RELEASE ACTUATOR INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect sliding door lock release actuator LH connector.
- Check voltage between sliding door lock release actuator LH harness connector and ground.

(+)			
Sliding door lock r	Sliding door lock release actuator LH		Voltage
Connector	Terminal		
D121	1	Ground	9 – 16 V

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 4.

# 2.CHECK SLIDING DOOR LOCK RELEASE ACTUATOR CIRCUIT

Disconnect sliding door control unit LH connector.

2. Check continuity between sliding door control unit LH harness connector and sliding door lock release actuator LH harness connector.

Sliding door	Sliding door control unit LH		Sliding door lock release actuator LH	
Connector	Terminal	Connector	Terminal	Continuity
B46	39	D121	2	Existed

Check continuity between sliding door control unit LH harness connector and ground.

Sliding door	control unit LH	Continuity	
Connector	Terminal	Ground	Continuity
B46	39		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

### 3.CHECK SLIDING DOOR LOCK RELEASE ACTUATOR CIRCUIT 2

- Connect sliding door control unit LH connector and sliding door lock release actuator LH connector.
- Check voltage between sliding door control unit LH harness connector and ground. 2.

(+)				
Sliding door control unit LH		(–)	Voltage	
Connector	Terminal			
B46	39	Ground	0 V	

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit LH. Refer to DLK-493, "LH: Removal and Installation".

# f 4.CHECK SLIDING DOOR LOCK RELEASE ACTUATOR GROUND CIRCUIT

- Disconnect sliding door control unit LH connector.
- 2. Check continuity between sliding door control unit LH harness connector and sliding door lock release actuator LH harness connector.

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### SLIDING DOOR LOCK RELEASE ACTUATOR

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding door	Sliding door control unit LH Slidi		Sliding door lock release actuator LH	
Connector	Terminal	Connector Terminal		Continuity
B46	40	D121	1	Existed

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door	Sliding door control unit LH		Continuity	
Connector	Terminal	Ground	Continuity	
B46	40		Not existed	

#### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to DLK-493, "LH: Removal and Installation".

NO >> Repair or replace harness.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

### SLIDING DOOR RH

SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011322115

### 1. CHECK SLIDING DOOR LOCK RELEASE ACTUATOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door lock release actuator RH connector.
- 3. Check voltage between sliding door lock release actuator RH harness connector and ground.

(-	+)		
Sliding door lock re	elease actuator RH	(–)	Voltage
Connector Terminal			
D122	1	Ground	9 – 16 V

### Is the inspection result normal?

YES >> GO TO 2.

NO >> GO TO 4.

# 2. CHECK SLIDING DOOR LOCK RELEASE ACTUATOR CIRCUIT

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door lock release actuator RH harness connector.

Sliding door of	Sliding door control unit RH		Sliding door lock release actuator RH	
Connector	Terminal	Connector Terminal		Continuity
B248	39	D122	2	Existed

Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity	
Connector	Terminal	Ground	Continuity	
B248	39		Not existed	

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

### 3.CHECK SLIDING DOOR LOCK RELEASE ACTUATOR CIRCUIT 2

1. Connect sliding door control unit RH connector and sliding door lock release actuator RH connector.

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### SLIDING DOOR LOCK RELEASE ACTUATOR

#### < DTC/CIRCUIT DIAGNOSIS >

2. Check voltage between sliding door control unit RH harness connector and ground.

(	+)		
Sliding door o	Sliding door control unit RH		Voltage
Connector	Connector Terminal		
B248	39	Ground	0 V

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace sliding door control unit RH. Refer to <u>DLK-493, "RH: Removal and Installation"</u>.

### f 4.CHECK SLIDING DOOR LOCK RELEASE ACTUATOR GROUND CIRCUIT

. Disconnect sliding door control unit RH connector.

2. Check continuity between sliding door control unit RH harness connector and sliding door lock release actuator RH harness connector.

Sliding door control unit RH		Sliding door lock release actuator RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B248	40	D122	1	Existed

Check continuity between sliding door control unit RH harness connector and ground.

Sliding door o	control unit RH		Continuity	
Connector	Terminal	Ground	Continuity	
B248	40		Not existed	

#### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493, "RH: Removal and Installation"</u>.

NO >> Repair or replace harness.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

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### **SLIDING DOOR CLOSURE MOTOR**

### < DTC/CIRCUIT DIAGNOSIS >

# SLIDING DOOR CLOSURE MOTOR SLIDING DOOR LH

### SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011322116

### 1. CHECK SLIDING DOOR CLOSURE MOTOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door control unit LH connector.
- 3. Check voltage between sliding door control unit LH harness connector and ground.

(	+)				
Sliding door control unit LH		(–)	Condition		Voltage
Connector	Terminal				
B46	34	Ground	Sliding door clo-	Closure operation	9 – 16 V
D40	35	Giodila	sure motor LH	Return operation	9-10 V

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace sliding door control unit LH. Refer to <u>DLK-493</u>, "LH: Removal and Installation".

### 2.CHECK SLIDING DOOR CLOSURE MOTOR CIRCUIT

- 1. Disconnect sliding door lock assembly LH connector.
- Check continuity between sliding door control unit LH harness connector and sliding door lock assembly LH harness connector.

Sliding door	control unit LH	Sliding door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B46	34	D123	4	Existed
D40	35	D123	1	LAISIGU

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity	
Connector	Terminal	Ground	Continuity	
B46	34	Crodina	Not existed	
	35		Not existed	

#### Is the inspection result normal?

YES >> Replace sliding door lock assembly LH.

NO >> Repair or replace harness.

### SLIDING DOOR RH

### SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011322117

### 1. CHECK SLIDING DOOR CLOSURE MOTOR INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding door control unit RH connector.
- Check voltage between sliding door control unit RH harness connector and ground.

(-	+)				
Sliding door control unit RH		(–)	Condition		Voltage
Connector	Terminal				
B248	34	Ground	Sliding door clo-	Closure operation	9 – 16 V
D240	35	Ground	sure motor RH	Return operation	9-10 V

### **SLIDING DOOR CLOSURE MOTOR**

#### < DTC/CIRCUIT DIAGNOSIS >

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace sliding door control unit RH. Refer to DLK-493, "RH: Removal and Installation".

# 2.check sliding door closure motor circuit

- Disconnect sliding door lock assembly RH connector.
- Check continuity between sliding door control unit RH harness connector and sliding door lock assembly RH harness connector.

Sliding door	control unit RH	Sliding door lock assembly RH		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B248	34	D124	4	Existed	
D240	35	D124	1	LVISIGO	

3. Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B248	34	Glound	Not existed
	35		

### Is the inspection result normal?

YES >> Replace sliding door lock assembly RH.

NO >> Repair or replace harness.

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### **AUTOMATIC SLIDING DOOR WARNING BUZZER**

#### < DTC/CIRCUIT DIAGNOSIS >

# AUTOMATIC SLIDING DOOR WARNING BUZZER SLIDING DOOR LH

### SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011322118

### 1.CHECK FUSE

- 1. Turn ignition switch OFF.
- Check 10 A fuse, [No.9, located in fuse block (J/B)]

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

# 2.CHECK AUTOMATIC SLIDING DOOR WARNING BUZZER INPUT SIGNAL

- 1. Disconnect automatic sliding door warning buzzer LH connector.
- 2. Check voltage between automatic sliding door warning buzzer LH harness connector and ground.

(+)			
Automatic sliding door warning buzzer LH		(–)	Voltage
Connector	Terminal		
B27	1	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.check automatic sliding door warning buzzer circuit

- 1. Disconnect sliding door control unit LH connector.
- Check continuity between sliding door control unit LH harness connector and automatic sliding door warning buzzer LH harness connector.

Sliding door control unit LH		Automatic sliding door warning buzzer LH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B45	8	B27	2	Existed	

3. Check continuity between sliding door control unit LH harness connector and ground.

Sliding door control unit LH			Continuity
Connector	Terminal	Ground	Continuity
B45	8		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK AUTOMATIC SLIDING DOOR WARNING BUZZER

### Refer to DLK-358, "SLIDING DOOR LH: Component Inspection"

### Is the inspection result normal?

YES >> Replace sliding door control unit LH. Refer to <u>DLK-493, "LH: Removal and Installation"</u>.

NO >> Repair or replace harness.

### SLIDING DOOR LH: Component Inspection

#### INFOID:0000000011322119

# 1. CHECK AUTOMATIC SLIDING DOOR WARNING BUZZER

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic sliding door warning buzzer LH connector.
- Check battery power supply directly to automatic sliding door warning buzzer LH terminals and check the operation.

### **AUTOMATIC SLIDING DOOR WARNING BUZZER**

#### < DTC/CIRCUIT DIAGNOSIS >

Automatic sliding door warning buzzer LH		
Teri	Operation	
(+)	(-)	
1	2	Buzzer sounds

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic sliding door warning buzzer LH.

### SLIDING DOOR RH

### SLIDING DOOR RH: Diagnosis Procedure

INFOID:0000000011322120

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### 1.CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check 10 A fuse, [No.9, located in fuse block (J/B)]

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

# 2.CHECK AUTOMATIC SLIDING DOOR WARNING BUZZER INPUT SIGNAL

- 1. Disconnect automatic sliding door warning buzzer RH connector.
- Check voltage between automatic sliding door warning buzzer RH harness connector and ground.

(+)			
Automatic sliding door warning buzzer RH		(–)	Voltage
Connector	Terminal		
B203	1	Ground	8 – 16 V

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.check automatic sliding door warning buzzer circuit

- 1. Disconnect sliding door control unit RH connector.
- Check continuity between sliding door control unit RH harness connector and automatic sliding door warning buzzer RH harness connector.

Sliding door	control unit RH	Automatic sliding do	or warning buzzer RH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B247	8	B203	2	Existed

Check continuity between sliding door control unit RH harness connector and ground.

Sliding door control unit RH			Continuity
Connector	Terminal	Ground	Continuity
B247	8		Not existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK AUTOMATIC SLIDING DOOR WARNING BUZZER

### Refer to DLK-360, "SLIDING DOOR RH: Component Inspection"

### Is the inspection result normal?

YES >> Replace sliding door control unit RH. Refer to <u>DLK-493, "RH : Removal and Installation"</u>.

NO >> Repair or replace harness.

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### **AUTOMATIC SLIDING DOOR WARNING BUZZER**

### < DTC/CIRCUIT DIAGNOSIS >

### SLIDING DOOR RH: Component Inspection

INFOID:0000000011322121

# 1.CHECK AUTOMATIC SLIDING DOOR WARNING BUZZER

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic sliding door warning buzzer RH connector.
- 3. Check battery power supply directly to automatic sliding door warning buzzer RH terminals and check the operation.

Automatic sliding do		
Teri	Operation	
(+)	(-)	
1	2	Buzzer sounds

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic sliding door warning buzzer RH.

### DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

### < SYMPTOM DIAGNOSIS > SYMPTOM DIAGNOSIS Α DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK **SWITCH** В ALL DOOR ALL DOOR: Description INFOID:0000000011322122 All doors do not lock/unlock using door lock and unlock switch. ALL DOOR: Diagnosis Procedure INFOID:0000000011322123 CHECK DOOR LOCK AND UNLOCK SWITCH Check door lock and unlock switch. With automatic sliding door system: Refer to <u>DLK-245</u>, "WITH AUTOMATIC SLIDING DOOR Component Function Check". Without automatic sliding door system: Refer to DLK-245, "WITHOUT AUTOMATIC SLIDING DOOR : Component Function Check". 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 assembly (driver side). Н Refer to DLK-249, "DRIVER SIDE: Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.REPLACE BCM Replace BCM. Refer to BCS-98. "Removal and Installation". Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

DRIVER SIDE

**DRIVER SIDE**: Description

Driver side door does not lock/unlock using door lock and unlock switch.

DRIVER SIDE : Diagnosis Procedure

1. CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (driver side).

Refer to DLK-249, "DRIVER SIDE: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.replace  $_{
m BCM}$ 

- Replace BCM. Refer to BCS-98, "Removal and Installation".
- Confirm the operation after replacement.

Is the result normal?

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YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". DLK

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INFOID:0000000011322124

INFOID:0000000011322125

#### DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

### PASSENGER SIDE

PASSENGER SIDE: Description

INFOID:0000000011322126

Passenger side door does not lock/unlock using door lock and unlock switch.

PASSENGER SIDE: Diagnosis Procedure

INFOID:0000000011322127

### 1. CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (passenger side).

Refer to DLK-250, "PASSENGER SIDE: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2.REPLACE BCM

- Replace BCM. Refer to <u>BCS-98</u>, "Removal and Installation".
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

#### SLIDING DOOR LH

### SLIDING DOOR LH: Description

INFOID:0000000011322128

Rear LH side door does not lock/unlock using door lock and unlock switch.

### SLIDING DOOR LH: Diagnosis Procedure

INFOID:0000000011322129

## 1. CHECK DOOR LOCK ACTUATOR

Check sliding door lock assembly LH.

Refer to <u>DLK-252</u>, "<u>WITH AUTOMATIC SLIDING DOOR</u>: <u>Component Function Check</u>" (with automatic sliding door system), <u>DLK-255</u>, "<u>WITHOUT AUTOMATIC SLIDING DOOR</u>: <u>Component Function Check</u>" (without automatic sliding door system).

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2.CHECK SELECTIVE UNLOCK RELAY

Check selective unlock relay.

Refer to DLK-257, "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-98, "Removal and Installation".
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

#### SLIDING DOOR RH

### SLIDING DOOR RH: Description

INFOID:0000000011322130

Rear RH side 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 >

## SLIDING DOOR RH : Diagnosis Procedure

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### 1. CHECK DOOR LOCK ACTUATOR

Check sliding door lock assembly RH.

Refer to <u>DLK-252</u>, "<u>WITH AUTOMATIC SLIDING DOOR</u>: <u>Component Function Check"</u> (with automatic sliding door system), <u>DLK-255</u>, "<u>WITHOUT AUTOMATIC SLIDING DOOR</u>: <u>Component Function Check"</u> (without automatic sliding door system).

#### 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-98, "Removal and Installation".
- 2. Confirm the operation after replacement.

### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

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#### DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION

< SYMPTOM DIAGNOSIS >

# DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION

### Diagnosis Procedure

INFOID:0000000011322132

## 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-361, "ALL DOOR : Diagnosis Procedure".

## 2. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to <u>DLK-261</u>, "<u>WITH AUTOMATIC SLIDING DOOR</u>: <u>Component Function Check"</u> (with automatic sliding door), <u>DLK-262</u>, "<u>WITHOUT AUTOMATIC SLIDING DOOR</u>: <u>Component Function Check"</u> (without automatic sliding 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-98, "Removal and Installation".
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

### DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWI	TCH
ALL DOOR REQUEST SWITCHES : Description	INEO/D-0000000011222122
·	INFOID:0000000011322133
All doors do not lock/unlock using all door request switches.  ALL DOOR REQUEST SWITCHES: Diagnosis Procedure	
	INFOID:0000000011322134
1.CHECK REMOTE KEYLESS ENTRY FUNCTION	
Check remote keyless entry function. <u>Does door lock/unlock with Intelligent Key button?</u>	
YES >> GO TO 2.	
NO >> Refer to DLK-265, "Component Function Check".	
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.	
<ol> <li>Check "LOCK/UNLOCK BY I-KEY" setting in "WORK SUPPORT".</li> <li>Refer to <u>DLK-95</u>, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".</li> </ol>	
s the inspection result normal?	
YES >> GO TO 3. NO >> Set "ON" in "LOCK/UNLOCK BY I-KEY".	
3. CHECK INSIDE KEY ANTENNA	
Check inside key antenna.	
<ul> <li>Instrument center: Refer to <u>DLK-226, "DTC Logic"</u>.</li> <li>Console: Refer to <u>DLK-228, "DTC Logic"</u>.</li> </ul>	
Luggage room: Refer to <u>DLK-230, "DTC Logic"</u> .	
Is the inspection result normal? YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	•
4.CHECK OUTSIDE KEY ANTENNA	
Check outside key antenna.  • Driver side: Refer to <u>DLK-234, "DTC Logic"</u> .	
Passenger side: Refer to <u>DLK-232, "DTC Logic"</u> .	
• Rear bumper: Refer to <u>DLK-236, "DTC Logic"</u> .  Is the inspection result normal?	
YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.  5. REPLACE BCM	
<ol> <li>Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.</li> <li>Confirm the operation after replacement.</li> </ol>	
s the result normal?	
YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	
DRIVER SIDE DOOR REQUEST SWITCH	
	INFOID:0000000011322135
DRIVER SIDE DOOR REQUEST SWITCH : Description	IIVI OID.0000000011322133
DRIVER SIDE DOOR REQUEST SWITCH: Description  All doors do not lock/unlock using driver side door request switch.	IIVI GID.00000000 11322 133
·	INFOID:000000011322136

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#### DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

#### < SYMPTOM DIAGNOSIS >

Check front door request switch (driver side).

Refer to DLK-267, "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 side).

Refer to DLK-234, "DTC Logic".

#### 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-98, "Removal and Installation".
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

#### PASSENGER SIDE DOOR REQUEST SWITCH

### PASSENGER SIDE DOOR REQUEST SWITCH: Description

INFOID:0000000011322137

All doors do not lock/unlock using passenger side door request switch.

### PASSENGER SIDE DOOR REQUEST SWITCH: Diagnosis Procedure

INFOID:0000000011322138

### 1. CHECK DOOR REQUEST SWITCH

Check front door request switch (passenger side).

Refer to DLK-267, "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 side).

Refer to DLK-232, "DTC Logic".

#### 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-98, "Removal and Installation".
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

### BACK DOOR REQUEST SWITCH

### **BACK DOOR REQUEST SWITCH: Description**

INFOID:0000000011322139

All doors do not lock/unlock using back door request switch.

#### BACK DOOR REQUEST SWITCH: Diagnosis Procedure

#### INFOID:0000000011322140

## 1. CHECK BACK DOOR REQUEST SWITCH

Check back door request switch.

### DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

### < SYMPTOM DIAGNOSIS >

< SYMPTOM DIAGNOSIS >	
Refer to DLK-269, "Component Function Check".	
Is the inspection result normal?	А
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	В
2.CHECK OUTSIDE KEY ANTENNA	
Check outside key antenna (rear bumper).	
Rear bumper: Refer to <u>DLK-236, "DTC Logic"</u> . <u>Is the inspection result normal?</u>	С
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	D
3.REPLACE BCM	
<ol> <li>Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.</li> <li>Confirm the operation after replacement.</li> </ol>	E
Is the result normal?	
YES >> INSPECTION END	_
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	F
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#### DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

### DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

### Diagnosis Procedure

INFOID:0000000011322141

### 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-275, "Component Function Check".

#### 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 <u>DLK-361</u>, "ALL <u>DOOR</u>: <u>Diagnosis Procedure"</u>.

### 8. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to DLK-265, "Component Function Check".

### DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

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< SYMPTOM DIAGNOSIS >	
Is the inspection result normal?  YES >> GO TO 9.	
NO >> Repair or replace the malfunctioning parts.	
9.check door switch	
Check door switch.	
Refer to DLK-241, "Component Function Check".	
Is the inspection result normal?  YES >> GO TO 10.	
NO >> Repair or replace the malfunctioning parts.	
10. REPLACE INTELLIGENT KEY	
Replace Intelligent Key.	
2. Confirm the operation after replacement.	
Is the result normal?  YES >> INSPECTION END	
NO >> Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u> .	
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#### **IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE**

#### < SYMPTOM DIAGNOSIS >

### IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

### Diagnosis Procedure

INFOID:0000000011322142

### 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-63, "DTC Index".

## 2.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

#### Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 3.

NO >> Refer to <u>DLK-361</u>, "ALL <u>DOOR</u>: <u>Diagnosis Procedure"</u>.

## 3. CHECK DOOR SWITCH

#### Check door switch

Refer to DLK-241, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

### 4. CHECK BACK DOOR SWITCH

#### Check door switch

Refer to DLK-243, "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-98, "Removal and Installation".
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

### SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE

## < SYMPTOM DIAGNOSIS > SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE Α **Diagnosis Procedure** INFOID:0000000011322143 ${\bf 1.} {\sf check "Door lock-unlock set" setting in "work support"}$ В Select "DOOR LOCK" of "BCM" using CONSULT. Select "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT" mode. Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT". Refer to DLK-94, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)". Is the inspection result normal? YES >> GO TO 2. D NO >> Set "On" in "DOOR LOCK-UNLOCK SET". 2.REPLACE BCM Е Replace BCM. Refer to BCS-98, "Removal and Installation". 2. Confirm the operation after replacement. Is the result normal? F >> INSPECTION END YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO Н J DLK M Ν

**DLK-371** Revision: 2014 August **2015 QUEST**  Р

### **AUTO DOOR LOCK OPERATION DOES NOT OPERATE**

### < SYMPTOM DIAGNOSIS >

### AUTO DOOR LOCK OPERATION DOES NOT OPERATE

### Diagnosis Procedure

INFOID:0000000011322144

## 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.
- Check "AUTO LOCK SET" setting in "WORK SUPPORT".
   Refer to <u>DLK-95, "INTELLIGENT KEY: CONSULT Function (BCM INTELLIGENT KEY)"</u>.

#### 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-98, "Removal and Installation".
- 2. Confirm the operation after replacement.

### Is the result normal?

YES >> INSPECTION END

### VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

# VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

INFOID:0000000011322145

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## Diagnosis Procedure

## ${\bf 1.} {\sf check "automatic lock/unlock select" setting in "work support"}$

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-94</u>, "<u>DOOR LOCK</u>: <u>CONSULT Function</u> (<u>BCM - DOOR LOCK</u>)".

## Is the inspection result normal?

#### s the inspection result normal:

YES >> GO TO 2.

NO >> Set "Lock Only" or "Lock/Unlock" in "WORK SUPPORT".

### 2. CHECK "AUTOMATIC DOOR LOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode.
- 3. Check "AUTOMATIC DOOR LOCK SELECT" setting in "WORK SUPPORT".

  Refer to DLK-94, "DOOR LOCK: CONSULT Function (BCM DOOR LOCK)".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "VH SPD" in "AUTOMATIC DOOR LOCK SELECT".

### 3. REPLACE BCM

- Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

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Revision: 2014 August DLK-373 2015 QUEST

### IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

### IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

### Diagnosis Procedure

INFOID:0000000011322146

## 1. CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC LOCK/UNLOCK SELECT" setting in "WORK SUPPORT". Refer to DLK-94, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Set "Unlock Only" or "Lock/Unlock" in "AUTOMATIC LOCK/UNLOCK SELECT".

## 2. CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING IN "WORK SUPPORT"

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode.
- Check "AUTOMATIC DOOR UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-94</u>, "<u>DOOR LOCK</u>: <u>CONSULT Function</u> (<u>BCM - DOOR LOCK</u>)".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "MODE 1" or "MODE 3" in "AUTOMATIC DOOR UNLOCK SELECT".

## 3. REPLACE BCM

- 1. Replace BCM. Refer to BCS-98, "Removal and Installation".
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

# P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	_
P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OP-	
ERATE	А
Diagnosis Procedure	В
1. CHECK "AUTOMATIC LOCK/UNLOCK SELECT" SETTING IN "WORK SUPPORT"	
<ol> <li>Select "DOOR LOCK" of "BCM" using CONSULT.</li> <li>Select "AUTOMATIC LOCK/UNLOCK SELECT" in "WORK SUPPORT" mode.</li> <li>Check "AUTOMATIC LOCK/UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-94, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)"</u>.</li> </ol>	С
Is the inspection result normal?	D
YES >> GO TO 2.  NO >> Set "Unlock Only", "Lock Only" or "Lock/Unlock" in "AUTOMATIC LOCK/UNLOCK SELECT".	_
2.CHECK "AUTOMATIC DOOR LOCK SELECT" SETTING IN "WORK SUPPORT"	Е
<ol> <li>Select "DOOR LOCK" of "BCM" using CONSULT.</li> <li>Select "AUTOMATIC DOOR LOCK SELECT" in "WORK SUPPORT" mode.</li> <li>Check "AUTOMATIC DOOR LOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-94, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)"</u>.</li> </ol>	F
Is the inspection result normal?	G
YES >> GO TO 3.  NO >> Set "P RANGE" in "AUTOMATIC DOOR LOCK SELECT".	
3. CHECK "AUTOMATIC DOOR UNLOCK SELECT" SETTING IN "WORK SUPPORT"	Н
<ol> <li>Select "DOOR LOCK" of "BCM" using CONSULT.</li> <li>Select "AUTOMATIC DOOR UNLOCK SELECT" in "WORK SUPPORT" mode.</li> <li>Check "AUTOMATIC DOOR UNLOCK SELECT" setting in "WORK SUPPORT". Refer to <u>DLK-94</u>, "<u>DOOR LOCK</u>: <u>CONSULT Function</u> (<u>BCM - DOOR LOCK</u>)".</li> </ol>	1
Is the inspection result normal?	
YES >> GO TO 4. NO >> Set "MODE 2" or "MODE 4" in "AUTOMATIC DOOR UNLOCK SELECT".	J
4.REPLACE BCM	
<ol> <li>Replace BCM. Refer to <u>BCS-98</u>, "<u>Removal and Installation</u>".</li> <li>Confirm the operation after replacement.</li> </ol>	DLK
Is the result normal?  YES >> INSPECTION END  NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	L
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#### HAZARD AND HORN REMINDER DOES NOT OPERATE

#### < SYMPTOM DIAGNOSIS >

### HAZARD AND HORN REMINDER DOES NOT OPERATE

### Diagnosis Procedure

INFOID:0000000011322148

### 1. CHECK "HAZARD ANSWER BACK" SETTING IN "WORK SUPPORT"

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- Select "HAZARD ANSWER BACK" in "WORK SUPPORT" mode.
- Check the "HAZARD ANSWER BACK" setting in "WORK SUPPORT".
   Refer to <u>DLK-95</u>, "INTELLIGENT KEY: CONSULT Function (BCM INTELLIGENT KEY)".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Set the "Lock Only", "Unlock Only" or "Lock/Unlock" in "HAZARD ANSWER BACK".

## 2.CHECK "HORN WITH KEYLESS LOCK" SETTING IN "WORK SUPPORT"

- Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "HORN WITH KEYLESS LOCK" in "WORK SUPPORT" mode.
- Check the "HORN WITH KEYLESS LOCK" in "WORK SUPPORT".
   Refer to <u>DLK-95</u>, "INTELLIGENT KEY: CONSULT Function (BCM INTELLIGENT KEY)".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Set the "On" in "HORN WITH KEYLESS LOCK".

## 3. CHECK HAZARD FUNCTION

#### Check hazard function.

Refer to DLK-279, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

### 4. CHECK HORN FUNCTION

#### Check horn function.

Refer to SEC-121, "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-98, "Removal and Installation".
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

### HAZARD AND BUZZER REMINDER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

HAZARD AND BUZZER REMINDER DOES NOT OPERATE	
Diagnosis Procedure	INFOID:0000000011322149
1. CHECK "HAZARD ANSWER BACK" SETTING IN "WORK SUPPORT"	
<ol> <li>Select "INTELLIGENT KEY" of "BCM" using CONSULT.</li> <li>Select "HAZARD ANSWER BACK" in "WORK SUPPORT" mode.</li> <li>Check the "HAZARD ANSWER BACK" setting in "WORK SUPPORT". Refer to <u>DLK-95</u>, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".</li> </ol>	(
Is the inspection result normal?  YES >> GO TO 2.  NO >> Set the "Lock Only", "Unlock Only" or "Lock/Unlock" in "HAZARD ANSWER BACK"	
2.CHECK "ANS BACK I-KEY LOCK" SETTING IN "WORK SUPPORT"	
<ol> <li>Select "INTELLIGENT KEY" of "BCM" using CONSULT.</li> <li>Select "ANS BACK I-KEY LOCK" in "WORK SUPPORT" mode.</li> <li>Check the "ANS BACK I-KEY LOCK"setting in "WORK SUPPORT". Refer to <u>DLK-95</u>. "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".</li> </ol>	ı
Is the inspection result normal? YES >> GO TO 3.	
NO >> Set the "Horn Chirp" or "Buzzer" in "ANS BACK I-KEY LOCK".	(
3.CHECK "ANS BACK I-KEY UNLOCK" SETTING IN "WORK SUPPORT"	
<ol> <li>Select "INTELLIGENT KEY" of "BCM" using CONSULT.</li> <li>Select "ANS BACK I-KEY UNLOCK" in "WORK SUPPORT" mode.</li> <li>Check the "ANS BACK I-KEY UNLOCK" setting in "WORK SUPPORT".</li> <li>Refer to <u>DLK-95</u>, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".</li> </ol>	I
Is the inspection result normal?	
YES >> GO TO 4.  NO >> Set the "On" in "ANS BACK I-KEY UNLOCK".	
4.CHECK HAZARD FUNCTION	
Check hazard function. Refer to DLK-279, "Component Function Check".  Is the inspection result normal?	D
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-273, "Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.	1
6.REPLACE BCM	
<ol> <li>Replace BCM. Refer to <u>BCS-98. "Removal and Installation"</u>.</li> <li>Confirm the operation after replacement.</li> </ol>	(
Is the result normal?	
YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	I

### **KEY REMINDER FUNCTION DOES NOT OPERATE**

#### < SYMPTOM DIAGNOSIS >

### KEY REMINDER FUNCTION DOES NOT OPERATE

### Diagnosis Procedure

INFOID:0000000011322150

### 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-63, "DTC Index".

## 2.CHECK "ANTI KEY LOCK IN FUNCTI" SETTING IN "WORK SUPPORT"

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "ANTI KEY LOCK IN FUNCTI" in "WORK SUPPORT" mode.
- Check "ANTI KEY LOCK IN FUNCTI" setting in "WORK SUPPORT".
   Refer to <u>DLK-95</u>, "INTELLIGENT KEY: CONSULT Function (BCM INTELLIGENT KEY)".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "On" in "ANTI KEY LOCK IN FUNCTI".

### 3.check door switch

Check door switch

Refer to DLK-241, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

### CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to <u>DLK-226, "DTC Logic"</u>.
- Console: Refer to DLK-228, "DTC Logic".
- Luggage room: Refer to DLK-230, "DTC Logic".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

### 5. CHECK UNLOCK SENSOR

Check unlock sensor.

Refer to DLK-259, "Component Function Check".

#### 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-98, "Removal and Installation".
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

### **OFF POSITION WARNING DOES NOT OPERATE**

### < SYMPTOM DIAGNOSIS >

OFF POSITION WARNING DOES NOT OPERATE	_
Diagnosis Procedure	A 151
1. CHECK DTC WITH BCM AND COMBINATION METER	В
Check that DTC is not detected with BCM and combination meter.	_
Is the inspection result normal?  YES >> GO TO 2.	С
NO-1 >> Refer to <u>BCS-63, "DTC Index"</u> (BCM). NO-2 >> Refer to <u>MWI-48, "DTC Index"</u> (combination meter).	
2. CHECK COMBINATION METER BUZZER	D
Check combination meter buzzer. Refer to DLK-276, "Component Function Check".	<u> </u>
Is the inspection result normal?	_
YES >> GO TO 3.  NO >> Repair or replace the malfunctioning parts.	F
3. CHECK INTELLIGENT KEY WARNING BUZZER	1
Check Intelligent Key warning buzzer. Refer to DLK-273, "Component Function Check".	G
Is the inspection result normal?  YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	Н
4.CHECK DOOR SWITCH	
Check front door switch (driver side).  Refer to DLK-241, "Component Function Check".	I
Is the inspection result normal?	
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	J
5.REPLACE BCM	
Replace BCM. Refer to BCS-98, "Removal and Installation".	DLK
<ol> <li>Confirm the operation after replacement.</li> <li>Is the result normal?</li> </ol>	
YES >> INSPECTION END	L
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	
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#### P POSITION WARNING DOES NOT OPERATE

#### < SYMPTOM DIAGNOSIS >

### P POSITION WARNING DOES NOT OPERATE

### Diagnosis Procedure

INFOID:0000000011322152

## 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 <u>BCS-63, "DTC Index"</u> (BCM).

NO-2 >> Refer to TM-58, "DTC Index" (TCM).

NO-3 >> Refer to MWI-48, "DTC Index" (Combination meter).

### 2.check combination meter buzzer

Check combination meter buzzer.

Refer to DLK-276, "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-273, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

### CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to DLK-241, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

### CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to <u>DLK-226, "DTC Logic"</u>.
  Console: Refer to <u>DLK-228, "DTC Logic"</u>.
- Luggage room: Refer to <u>DLK-230, "DTC Logic"</u>.

#### 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-277, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 7.

>> Repair or replace the malfunctioning parts. NO

### 7.REPLACE BCM

- Replace BCM. Refer to BCS-98, "Removal and Installation".
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

### **ACC WARNING DOES NOT OPERATE**

## < SYMPTOM DIAGNOSIS > **ACC WARNING DOES NOT OPERATE** Α Diagnosis Procedure INFOID:0000000011322153 1. CHECK P POSITION WARNING FUNCTION В Check P position warning function. Is the inspection result normal? C YES >> GO TO 2. NO >> Refer to <u>DLK-380, "Diagnosis Procedure"</u>. 2.REPLACE BCM D 1. Replace BCM. Refer to BCS-98, "Removal and Installation". 2. Confirm the operation after replacement. Is the result normal? Е >> INSPECTION END YES NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". F Н J DLK L M Ν

Revision: 2014 August DLK-381 2015 QUEST

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#### TAKE AWAY WARNING DOES NOT OPERATE

#### < SYMPTOM DIAGNOSIS >

### TAKE AWAY WARNING DOES NOT OPERATE

### Diagnosis Procedure

INFOID:0000000011322154

### 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 <u>BCS-63, "DTC\_Index"</u> (BCM).

NO-2 >> Refer to MWI-48, "DTC Index" (Combination meter).

### 2. CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to DLK-276, "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-277, "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-241, "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-273, "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-226, "DTC Logic".
- Console: Refer to <u>DLK-228</u>, "<u>DTC Logic</u>".
- Luggage room: Refer to <a href="DLK-230">DLK-230</a>, "DTC Logic".

#### 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-98, "Removal and Installation".
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

### **KEY ID WARNING DOES NOT OPERATE**

### < SYMPTOM DIAGNOSIS >

KEY ID WARNING DOES NOT OPERATE	<del></del>
Diagnosis Procedure	A 322155
1. CHECK DTC WITH BCM AND COMBINATION METER	В
Check that DTC is not detected with BCM and combination meter.	
Is the inspection result normal?	С
YES >> GO TO 2. NO-1 >> Refer to <u>BCS-63, "DTC_Index"</u> (BCM).	
NO-2 >> Refer to MWI-48, "DTC Index" (Combination meter).	D
2.CHECK INTELLIGENT KEY BATTERY	<u> </u>
Check Intelligent Key battery.  Refer to DLK-275, "Component Function Check".	_
Is the inspection result normal?	Е
YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.  3. CHECK INSIDE KEY ANTENNA	F
Check inside key antenna.	
Instrument center: Refer to <u>DLK-226, "DTC Logic"</u> .	G
<ul> <li>Console: Refer to <u>DLK-228, "DTC Logic"</u>.</li> <li>Luggage room: Refer to <u>DLK-230, "DTC Logic"</u>.</li> </ul>	
Is the inspection result normal?	Н
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4. CHECK INFORMATION DISPLAY	1
Check information display.	
Refer to DLK-277, "Component Function Check".	J
Is the inspection result normal? YES >> GO TO 5.	
NO >> Repair or replace the malfunctioning parts.	DL
5.REPLACE BCM	
<ol> <li>Replace BCM. Refer to <u>BCS-98, "Removal and Installation"</u>.</li> <li>Confirm the operation after replacement.</li> </ol>	
Is the result normal?	L
YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	M
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#### INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

### INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

### Diagnosis Procedure

INFOID:0000000011322156

### 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 <u>BCS-63, "DTC\_Index"</u> (BCM).

NO-2 >> Refer to MWI-48, "DTC Index" (Combination meter).

### 2.CHECK "LO- BATT OF KEY FOB WARN" SETTING IN "WORK SUPPORT"

- Select "INTELLIGENT KEY" of "BCM".
- 2. Select "LO- BATT OF KEY FOB WARN" in "WORK SUPPORT" mode.
- Check "LO- BATT OF KEY FOB WARN" setting in "WORK SUPPORT".
   Refer to <u>DLK-95</u>, "INTELLIGENT KEY: CONSULT Function (BCM INTELLIGENT KEY)".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "ON" in "LO- BATT OF KEY FOB WARN".

#### CHECK INTELLIGENT KEY BATTERY

#### Check Intelligent Key battery.

Refer to DLK-275, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

### 4. CHECK INFORMATION DISPLAY

#### Check information display.

Refer to DLK-277, "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 <u>DLK-226, "DTC Logic"</u>.
- Console: Refer to DLK-228, "DTC Logic".
- Luggage room: Refer to <u>DLK-230, "DTC Logic"</u>.

#### 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-98, "Removal and Installation".
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

### DOOR LOCK OPERATION WARNING DOES NOT OPERATE

### < SYMPTOM DIAGNOSIS > DOOR LOCK OPERATION WARNING DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000011322157 1. CHECK DOOR LOCK FUNCTION В Check door lock function. Does door lock/unlock using door request switch? C YES >> GO TO 2. NO >> Refer to DLK-365, "ALL DOOR REQUEST SWITCHES: Diagnosis Procedure". 2.CHECK INTELLIGENT KEY WARNING BUZZER D Check Intelligent Key warning buzzer. Refer to DLK-273, "Component Function Check". Is the inspection result normal? Е YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. REPLACE BCM F Replace BCM. Refer to BCS-98, "Removal and Installation". 2. Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". Н DLK

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#### **BACK DOOR AUTO CLOSURE FUNCTION DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >

# BACK DOOR AUTO CLOSURE FUNCTION DOES NOT OPERATE OPEN/CLOSURE FUNCTION

OPEN/CLOSURE FUNCTION: Description

INFOID:0000000011322158

Back door auto closure does not operate when back door opening and closing operations are performed.

### OPEN/CLOSURE FUNCTION: Diagnosis Procedure

INFOID:0000000011322159

### 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-63, "DTC Index".

## 2.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check back door control unit power supply and ground circuit.

Refer to DLK-238, "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 CLOSURE MOTOR

Check back door closure motor.

Refer to DLK-304, "WITHOUT AUTOMATIC BACK DOOR: Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

### 4.REPLACE BACK DOOR CONTROL UNIT

- 1. Replace back door control unit.
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

#### OPEN FUNCTION

### **OPEN FUNCTION: Description**

INFOID:0000000011322160

Back door auto closure does not operate when back door opening operation is performed.

### OPEN FUNCTION: Diagnosis Procedure

INFOID:0000000011322161

## 1. CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to <u>DLK-271</u>, "Component Function Check".

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

### 2.CHECK BACK DOOR OPEN REQUEST SIGNAL CIRCUIT

Check back door open request signal circuit.

Refer to DLK-280, "Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

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### **BACK DOOR AUTO CLOSURE FUNCTION DOES NOT OPERATE**

### < SYMPTOM DIAGNOSIS >

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3. REPLACE BACK DOOR CONTROL UNIT	Δ
<ol> <li>Replace back door control unit.</li> <li>Confirm the operation after replacement.</li> </ol>	
Is the result normal?	В
YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".  CLOSURE FUNCTION	
CLOSURE FUNCTION: Description	
Back door auto closure does not operate when back door closing operation is performed.	D
CLOSURE FUNCTION : Diagnosis Procedure	ı
1. CHECK HALF LATCH SWITCH	Е
Check half latch switch.	
Refer to <u>DLK-294, "WITHOUT AUTOMATIC BACK DOOR: Diagnosis Procedure"</u> . <u>Is the inspection result normal?</u>	F
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	G
2.CHECK OPEN SWITCH	
Check open switch. Refer to DLK-289, "Diagnosis Procedure".	Н
Is the inspection result normal?	
YES >> GO TO 3.	I
NO >> Repair or replace the malfunctioning parts.  3.CHECK CLOSE SWITCH	
Check close switch.	
Refer to DLK-291, "Diagnosis Procedure".	J
Is the inspection result normal?	
YES >> GO TO 4.  NO >> Repair or replace the malfunctioning parts.	DLK
4. REPLACE BACK DOOR CONTROL UNIT	
Replace back door control unit.     Confirm the operation after replacement.	L
Is the result normal?	M
YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	IVI
NO >> Check intermittent incluent. Refer to G1-42, intermittent incluent.	
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#### < SYMPTOM DIAGNOSIS >

# AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE ALL SWITCHES

### ALL SWITCHES: Description

INFOID:0000000011322164

Automatic back door open/close function does not operate using all switches.

#### NOTE:

Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to <u>DLK-52</u>, "System <u>Description"</u>.

### **ALL SWITCHES: Diagnosis Procedure**

INFOID:0000000011322165

## 1. CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL MODULE

Check that DTC is not detected with automatic back door control module.

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

### 2.CHECK BACK DOOR AUTO CLOSURE FUNCTION

Check back door auto closure function.

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to <u>DLK-391</u>, "OPEN/CLOSURE FUNCTION: Diagnosis Procedure".

### 3.CHECK GROUND CIRCUIT

Check automatic back door control module ground circuit.

Refer to DLK-308, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

### 4. CHECK TOUCH SENSOR LH

Check touch sensor LH.

Refer to DLK-299, "LH: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

### 5.CHECK TOUCH SENSOR RH

Check touch sensor RH.

Refer to DLK-301, "RH: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

### 6.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

- 1. Replace automatic back door control module.
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

#### AUTOMATIC BACK DOOR SWITCH

## AUTOMATIC BACK DOOR SWITCH : Description

INFOID:0000000011322166

Automatic back door open/close function does not operate using automatic back door switch. **NOTE**:

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#### < SYMPTOM DIAGNOSIS >

NO

INTELLIGENT KEY

Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-52, "System Description". Α AUTOMATIC BACK DOOR SWITCH: Diagnosis Procedure INFOID:0000000011322167 CHECK AUTOMATIC BACK DOOR SWITCH В Check automatic back door switch. Refer to DLK-287, "Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. D 2.replace automatic back door control module Replace automatic back door control module. Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". AUTOMATIC BACK DOOR CLOSE SWITCH AUTOMATIC BACK DOOR CLOSE SWITCH: Description INFOID:0000000011322168 Automatic back door open/close function does not operate using automatic back door close switch. NOTE: Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-52. "System Description". AUTOMATIC BACK DOOR CLOSE SWITCH: Diagnosis Procedure INFOID:0000000011322169 1.CONFIRM THE OPERATION Turn ON automatic door main switch. Confirm the operation. Is the result normal? YES >> Automatic back door system is normal. DLK NO >> GO TO 2. 2.check automatic back door close switch Check automatic back door close switch. Refer to DLK-281, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.CHECK AUTOMATIC DOOR MAIN SWITCH N Check automatic door main switch. Refer to DLK-283, "AUTOMATIC BACK DOOR CONTROL MODULE: Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. f 4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE Replace automatic back door control module. Confirm the operation after replacement. Is the result normal? >> INSPECTION END YES

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#### < SYMPTOM DIAGNOSIS >

### **INTELLIGENT KEY: Description**

INFOID:0000000011322170

Automatic back door open/close function does not operate using Intelligent Key.

#### NOTE:

Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-52, "System Description".

### **INTELLIGENT KEY: Diagnosis Procedure**

## ${f 1}$ .CHECK DTC WITH BCM AND AUTOMATIC BACK DOOR CONTROL MODULE

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 <u>BCS-63, "DTC\_Index"</u> (BCM).
NO-2 >> Refer to <u>DLK-109, "DTC\_Index"</u> (automatic back door control module).

### 2.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 3.

NO >> Refer to DLK-368, "Diagnosis Procedure".

## 3.replace automatic back door control module

- Replace automatic back door control module.
- Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

>> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

#### BACK DOOR OPENER SWITCH

### **BACK DOOR OPENER SWITCH: Description**

INFOID:0000000011322172

Automatic back door open/close function does not operate using back door opener switch.

#### NOTE:

Automatic back door open/close operation condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-52, "System Description".

## BACK DOOR OPENER SWITCH: Diagnosis Procedure

INFOID:0000000011322173

## 1.CONFIRM THE OPERATION

- Turn ON automatic door main switch.
- 2. Confirm the operation.

#### Is the result normal?

YES >> Automatic door system is normal.

NO >> GO TO 2.

### 2.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to DLK-271, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

## 3.CHECK AUTOMATIC DOOR MAIN SWITCH

Check automatic door main switch.

Refer to DLK-283, "AUTOMATIC BACK DOOR CONTROL MODULE: Component Function Check".

#### Is the inspection result normal?

< SYMPTOM DIAGNOSIS >	_
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	А
4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE	
<ol> <li>Replace automatic back door control module.</li> <li>Confirm the operation after replacement.</li> </ol>	В
Is the result normal?	
YES >> INSPECTION END	С
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".  OPEN/CLOSURE FUNCTION	
OPEN/CLOSURE FUNCTION : Description	INFOID:0000000011322174
Back door auto closure function does not operate when back door opening and closing operatormed.	•
	Е
OPEN/CLOSURE FUNCTION : Diagnosis Procedure	INFOID:0000000011322175
1. CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL MODULE	F
Check that DTC is not detected with automatic back door control module.	_
Is the inspection result normal? YES >> GO TO 2.	G
NO >> Perform trouble diagnosis relevant to DTC indicated.	
2. CHECK POWER SUPPLY AND GROUND CIRCUIT	Н
Check automatic back door control module power supply and ground circuit.  Refer to DLK-238, "AUTOMATIC BACK DOOR CONTROL MODULE: Diagnosis Procedure".	
Is the inspection result normal?	1
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3. CHECK BACK DOOR CLOSURE MOTOR	J
Check back door closure motor.	
Refer to <u>DLK-304</u> , "WITH AUTOMATIC BACK DOOR : Diagnosis Procedure".	DL
Is the inspection result normal?	
YES >> GO TO 4.  NO >> Repair or replace the malfunctioning parts.	1
4. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE	L
Replace automatic back door control module.	
<ol><li>Confirm the operation after replacement.</li><li>Is the result normal?</li></ol>	M
YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	N
OPEN FUNCTION	
OPEN FUNCTION : Description	INFOID:0000000011322176
Back door auto closure function does not operate when back door opening operations are perfo	ormed.
OPEN FUNCTION : Diagnosis Procedure	INFOID:000000011322177 P
1. CHECK BACK DOOR OPENER SWITCH	
Check back door opener switch.	
Refer to DLK-271, "Component Function Check".	
Is the inspection result normal?	

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YES >> GO TO 2.

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NO >> Repair or replace the malfunctioning parts.

## 2.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

- 1. Replace automatic back door control module.
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

### **CLOSURE FUNCTION**

**CLOSURE FUNCTION: Description** 

INFOID:0000000011322178

Back door auto closure function does not operate when back door closing operations are performed.

### **CLOSURE FUNCTION**: Diagnosis Procedure

INFOID:0000000011322179

### 1. CHECK HALF LATCH SWITCH

Check half latch switch.

Refer to DLK-293, "WITH AUTOMATIC BACK DOOR: 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 module

- 1. Replace automatic back door control module.
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

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AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE < SYMPTOM DIAGNOSIS > AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE Α BUZZER **BUZZER**: Description INFOID:0000000011322180 В Automatic back door warning buzzer does not operate when automatic back door warning function are performed. BUZZER: Diagnosis Procedure INFOID:0000000011322181 1. CHECK DTC WITCH AUTOMATIC BACK DOOR CONTROL MODULE D Check that DTC is not detected with automatic back door control module. Is the inspection result normal? YES >> GO TO 2. Е NO >> Perform trouble diagnosis relevant to DTC indicated. 2.CHECK AUTOMATIC BACK DOOR WARNING BUZZER Check automatic back door warning buzzer. Refer to <u>DLK-306</u>, "Diagnosis Procedure". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.replace automatic back door control module Replace automatic back door control module. Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". HAZARD WARNING LAMP HAZARD WARNING LAMP: Description INFOID:0000000011322182 DLK Hazard warning lamp does not operate when automatic back door warning function are performed. HAZARD WARNING LAMP: Diagnosis Procedure INFOID:0000000011322183 L  ${\sf 1}$  .CHECK DTC WITH BCM AND AUTOMATIC BACK DOOR CONTROL MODULE Check that DTC is not detected with BCM, TCM and combination meter. Is the inspection result normal? >> GO TO 2. NO-1 >> Refer to BCS-63, "DTC Index" (BCM). NO-2 >> Refer to DLK-109, "DTC Index" (automatic back door control module). N 2 .CHECK GROUND CIRCUIT Check automatic back door control module ground circuit. Refer to <u>DLK-308</u>, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. Р

Check hazard and horn reminder function.

#### Is the inspection result normal?

YES >> GO TO 4.

NO

>> Refer to <u>DLK-376</u>, "<u>Diagnosis Procedure</u>". NO

>> Repair or replace the malfunctioning parts 3.CHECK HAZARD AND HORN REMINDER FUNCTION

### **AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE**

### < SYMPTOM DIAGNOSIS >

## 4. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

- 1. Replace automatic back door control module.
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

### **AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL**

#### < SYMPTOM DIAGNOSIS > AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL Α Diagnosis Procedure INFOID:0000000011322184 1. CHECK THE OPERATION В Check automatic door main switch function. NOTE: When the main switch is OFF, the automatic back door operation is not available by back door opener switch and automatic back door close switch. Is the inspection result normal? YES >> Automatic back door system is normal. D NO >> GO TO 2. 2.CHECK AUTOMATIC DOOR MAIN SWITCH Е Check automatic door main switch. Refer to DLK-283, "AUTOMATIC BACK DOOR CONTROL MODULE: Component Function Check". Is the inspection result normal? F YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE Replace automatic back door control module. Confirm the operation after replacement. Is the result normal? Н YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

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### **AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE**

#### < SYMPTOM DIAGNOSIS >

### AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE

### Diagnosis Procedure

INFOID:0000000011322185

## 1. CHECK TOUCH SENSOR LH

Check touch sensor LH.

Refer to DLK-299, "LH: Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK TOUCH SENSOR RH

Check touch sensor RH.

Refer to DLK-301, "RH: 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 module

- 1. Replace automatic back door control module.
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

# INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATED.	
Diagnosis Procedure	INFOID:000000011322186
1. CHECK INTEGRATED HOMELINK TRANSMITTER	IIVF-01D.00000000 11322 160
Check integrated homelink transmitter.	
Refer to DLK-309, "Component Function Check".	
Is the inspection result normal?  YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.  2.REPLACE AUTO ANTI-DAZZLING INSIDE MIRROR	
Replace auto anti-dazzling inside mirror.	
Refer to MIR-29, "Removal and Installation".	
Is the result normal?  YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	

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# < SYMPTOM DIAGNOSIS >

# AUTOMATIC SLIDING DOOR SYSTEM DOES NOT OPERATE ALL FUNCTIONS

ALL FUNCTIONS : Description

INFOID:0000000011322187

Automatic sliding door system all functions does not operate.

**ALL FUNCTIONS: Diagnosis Procedure** 

INFOID:0000000011322188

# 1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT

Check that DTC is not detected with sliding door control unit.

# Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

# 2.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check sliding door control unit power supply and ground circuit.

Refer to DLK-239, "SLIDING DOOR CONTROL UNIT: Diagnosis Procedure".

# Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.REPLACE SLIDING DOOR CONTROL UNIT

- Replace sliding door control unit. Refer to <u>DLK-493, "RH : Removal and Installation"</u> (RH) or <u>DLK-493, "LH : Removal and Installation"</u> (LH).
- 2. Confirm the operation after replacement.

#### Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

# ONE-TOUCH UNLOCK FUNCTION

# ONE-TOUCH UNLOCK FUNCTION: Description

INFOID:0000000011322189

Automatic sliding door system one-touch unlock function does not operate.

# ONE-TOUCH UNLOCK FUNCTION: Diagnosis Procedure

INFOID:0000000011322190

# 1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT

Check that DTC is not detected with sliding door control unit.

# Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

# 2.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

#### Does door lock/unlock with Intelligent Key button?

YES >> GO TO 3.

NO >> Refer to <u>DLK-368</u>, "<u>Diagnosis Procedure</u>".

# 3.CHECK AUTO OPEN/CLOSE FUNCTION

Check automatic sliding door system auto open/close function.

#### Does sliding door auto open/close with switches?

YES >> GO TO 4.

NO >> Refer to <u>DLK-405</u>, "ALL <u>SWITCHES</u>: <u>Diagnosis Procedure"</u>.

# 4. CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

Check sliding door one-touch open/close switch.

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< SYMPTOM DIAGNOSIS >
<ul> <li>Sliding door LH: Refer to <u>DLK-340</u>, "<u>SLIDING DOOR LH</u>: <u>Component Function Check</u>".</li> <li>Sliding door RH: Refer to <u>DLK-342</u>, "<u>SLIDING DOOR RH</u>: <u>Component Function Check</u>".</li> </ul>
Is the inspection result normal?
YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.
5. CHECK SLIDING DOOR LOCK STATUS SWITCH
Check sliding door lock status switch.
• Sliding door LH: Refer to <u>DLK-330</u> , " <u>SLIDING DOOR LH</u> : Component Function Check".
Sliding door RH: Refer to <u>DLK-332, "SLIDING DOOR RH : Component Function Check"</u> .
Is the inspection result normal?
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.
6. REPLACE SLIDING DOOR CONTROL UNIT
1. Replace sliding door control unit. Refer to <u>DLK-493</u> , "RH: Removal and Installation" (RH) or <u>DLK-493</u> , "LH: Removal and Installation" (LH).
2. Confirm the operation after replacement.
Is the result normal?
YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
POWER ASSIST FUNCTION
POWER ASSIST FUNCTION: Description INFOID.0000000011322191
·
Automatic sliding door system power assist function does not operate.
POWER ASSIST FUNCTION: Diagnosis Procedure
1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT
Check that DTC is not detected with sliding door control unit.
Is the inspection result normal?
YES >> GO TO 2.
NO >> Perform trouble diagnosis relevant to DTC indicated.
2.CHECK AUTO OPEN/CLOSE FUNCTION
Check automatic sliding door system auto open/close function.
Does sliding door auto open/close with switches?
YES >> GO TO 3.
NO >> Refer to DLK-405, "ALL SWITCHES : Diagnosis Procedure".
3. REPLACE SLIDING DOOR CONTROL UNIT
1. Replace sliding door control unit. Refer to <u>DLK-493</u> , "RH : <u>Removal and Installation</u> " (RH) or <u>DLK-493</u> .
"LH: Removal and Installation" (LH).
2. Confirm the operation after replacement.
Is the result normal?
YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".  UNLOCK-LINKED OPENING FUNCTION
UNLOCK-LINKED OPENING FUNCTION: Description INFOID:0000000113222193
Automatic sliding door unlock-linked opening function does not operate.
UNLOCK-LINKED OPENING FUNCTION : Diagnosis Procedure
1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT

#### < SYMPTOM DIAGNOSIS >

Check that DTC is not detected with sliding door control unit.

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

# 2.CHECK ONE-TOUCH UNLOCK FUNCTION

Check automatic sliding door one-touch unlock function.

# Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to <u>DLK-398</u>, "<u>ONE-TOUCH UNLOCK FUNCTION</u>: <u>Diagnosis Procedure</u>".

# 3.replace sliding door control unit

- Replace sliding door control unit. Refer to DLK-493, "RH: Removal and Installation" (RH) or DLK-493, "LH: Removal and Installation" (LH).
- Confirm the operation after replacement.

# Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

# HOLD FUNCTION

# **HOLD FUNCTION**: Description

INFOID:0000000011322195

Automatic sliding door system hold function does not operate.

# **HOLD FUNCTION**: Diagnosis Procedure

INFOID:0000000011322196

# ${f 1}.$ CHECK DTC WITH SLIDING DOOR CONTROL UNIT

Check that DTC is not detected with sliding door control unit.

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

# 2.CHECK SLIDING DOOR HANDLE SWITCH

Check sliding door handle switch.

- Sliding door LH: Refer to DLK-326, "SLIDING DOOR LH: Component Function Check".
- Sliding door RH: Refer to DLK-328, "SLIDING DOOR RH: Component Function Check".

# Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.CHECK CLUTCH

Check clutch.

- Sliding door LH: Refer to DLK-348, "SLIDING DOOR LH: Component Function Check".
- Sliding door RH: Refer to DLK-349, "SLIDING DOOR RH: Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

# 4. CHECK FULL LATCH SWITCH

Check full latch switch.

- Sliding door LH: Refer to <u>DLK-318</u>, "<u>SLIDING DOOR LH</u>: <u>Component Function Check</u>".
  Sliding door RH: Refer to <u>DLK-320</u>, "<u>SLIDING DOOR RH</u>: <u>Component Function Check</u>".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

# 5 . CHECK HALF LATCH SWITCH

### < SYMPTOM DIAGNOSIS > Check half latch switch. Refer to DLK-296, "SLIDING DOOR CONTROL UNIT: Component Function Check". Α Is the inspection result normal? YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts. 6. REPLACE SLIDING DOOR CONTROL UNIT Replace sliding door control unit. Refer to DLK-493, "RH: Removal and Installation" (RH) or DLK-493, "LH: Removal and Installation" (LH). Confirm the operation after replacement. Is the result normal? D YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". ANTI-PINCH FUNCTION Е ANTI-PINCH FUNCTION: Description INFOID:0000000011322197 Automatic sliding door system anti-pinch function does not operate. ANTI-PINCH FUNCTION: Diagnosis Procedure INFOID:0000000011322198 ${f 1}$ .CHECK DTC WITH SLIDING DOOR CONTROL UNIT Check that DTC is not detected with sliding door control unit. Is the inspection result normal? Н YES >> GO TO 2. NO >> Perform trouble diagnosis relevant to DTC indicated. 2.CHECK SLIDING DOOR TOUCH SENSOR Check sliding door touch sensor. Sliding door LH: Refer to <u>DLK-344</u>, "SLIDING DOOR LH: Component Function Check". • Sliding door RH: Refer to DLK-346, "SLIDING DOOR RH: Component Function Check" Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. DLK 3.CHECK ENCODER Check encoder. Sliding door LH: Refer to <u>DLK-311</u>, "SLIDING DOOR LH: Component Function Check". Sliding door RH: Refer to <u>DLK-312</u>, "SLIDING DOOR RH: Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. 4. CHECK FULL LATCH SWITCH N Check full latch switch. Sliding door LH: Refer to <u>DLK-318</u>, "SLIDING DOOR LH: Component Function Check". • Sliding door RH: Refer to DLK-320, "SLIDING DOOR RH: Component Function Check". Is the inspection result normal? YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts. $oldsymbol{5}$ .CHECK SLIDING DOOR LOCK STATUS SWITCH Check sliding door lock status switch. • Sliding door LH: Refer to DLK-330, "SLIDING DOOR LH: Component Function Check". • Sliding door RH: Refer to DLK-332, "SLIDING DOOR RH: Component Function Check" Is the inspection result normal?

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YES

>> GO TO 6.

# < SYMPTOM DIAGNOSIS >

NO >> Repair or replace the malfunctioning parts.

# 6.CHECK SLIDING DOOR SWITCH

Check sliding door switch.

- Sliding door LH: Refer to <u>DLK-315</u>, "SLIDING DOOR LH: Component Function Check".
- Sliding door RH: Refer to DLK-316, "SLIDING DOOR RH: Component Function Check".

# Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

# .REPLACE SLIDING DOOR CONTROL UNIT

- Replace sliding door control unit. Refer to DLK-493, "RH: Removal and Installation" (RH) or DLK-493, "LH: Removal and Installation" (LH).
- Confirm the operation after replacement.

# Is the result normal?

YES >> INSPECTION END

>> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

# INTERMITTENT CLUTCH FUNCTION

# INTERMITTENT CLUTCH FUNCTION: Description

INFOID:0000000011322199

Automatic sliding door system intermittent clutch function does not operate.

# INTERMITTENT CLUTCH FUNCTION: Diagnosis Procedure

INFOID:0000000011322200

# 1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT

Check that DTC is not detected with sliding door control unit.

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

# 2.CHECK CLUTCH

#### Check clutch.

- Sliding door LH: Refer to <u>DLK-348</u>, "<u>SLIDING DOOR LH</u>: <u>Component Function Check</u>".
   Sliding door RH: Refer to <u>DLK-349</u>, "<u>SLIDING DOOR RH</u>: <u>Component Function Check</u>"

# Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.replace sliding door control unit

- Replace sliding door control unit. Refer to <u>DLK-493</u>, "RH: Removal and Installation" (RH) or <u>DLK-493</u>, "LH: Removal and Installation" (LH).
- Confirm the operation after replacement.

# Is the result normal?

YES >> INSPECTION END

>> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

#### HAZARD AND BUZZER REMINDER FUNCTION

# HAZARD AND BUZZER REMINDER FUNCTION: Description

INFOID:0000000011322201

Automatic sliding door system hazard and buzzer reminder function does not operate.

#### HAZARD AND BUZZER REMINDER FUNCTION: Diagnosis Procedure INFOID:0000000011322202

# ${f 1}$ .CHECK DTC WITH SLIDING DOOR CONTROL UNIT

Check that DTC is not detected with sliding door control unit.

#### Is the inspection result normal?

< SYMPTOM DIAGNOSIS >	
YES >> GO TO 2. NO >> Perform trouble diagnosis relevant to DTC indicated.	
2.CHECK AUTOMATIC SLIDING DOOR WARNING BUZZER	
Check automatic sliding door warning buzzer.	_
<ul> <li>Sliding door LH: Refer to <u>DLK-358</u>, "<u>SLIDING DOOR LH</u>: <u>Diagnosis Procedure</u>".</li> <li>Sliding door RH: Refer to <u>DLK-359</u>, "<u>SLIDING DOOR RH</u>: <u>Diagnosis Procedure</u>".</li> </ul>	
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or rereplace the malfunctioning parts.	
3. REPLACE SLIDING DOOR CONTROL UNIT	
1. Replace sliding door control unit. Refer to DLK-493, "RH: Removal and Installation" (RH) or DLK-49	3.
"LH: Removal and Installation" (LH).  2. Confirm the operation after replacement.	
Is the result normal?	
YES >> INSPECTION END NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	
SLIDING DOOR AUTO CLOSURE FUNCTION	
SLIDING DOOR AUTO CLOSURE FUNCTION: Description (NFOID-000000011322	2203
Automatic sliding door system sliding door auto closure function does not operate.	
SLIDING DOOR AUTO CLOSURE FUNCTION: Diagnosis Procedure NAFOID.000000011322	2204
1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT	
Check that DTC is not detected with sliding door control unit.	_
Is the inspection result normal?	
YES >> GO TO 2. NO >> Perform trouble diagnosis relevant to DTC indicated.	
2.check sliding door handle switch	_
Check sliding door handle switch.  Sliding door LH: Refer to <a href="DLK-326">DLK-326</a> , "SLIDING DOOR LH: Component Function Check".  Sliding door RH: Refer to <a href="DLK-328">DLK-328</a> , "SLIDING DOOR RH: Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	
3. CHECK FULL LATCH SWITCH	
Check full latch switch.	_
<ul> <li>Sliding door LH: Refer to <u>DLK-318</u>, "<u>SLIDING DOOR LH</u>: <u>Component Function Check</u>".</li> <li>Sliding door RH: Refer to <u>DLK-320</u>, "<u>SLIDING DOOR RH</u>: <u>Component Function Check</u>".</li> </ul>	
Is the inspection result normal?	
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts. $4.$ CHECK NEUTRAL SWITCH	
Check neutral switch.	_
<ul> <li>Sliding door LH: Refer to <u>DLK-322</u>, "<u>SLIDING DOOR LH</u>: <u>Component Function Check</u>".</li> <li>Sliding door RH: Refer to <u>DLK-324</u>, "<u>SLIDING DOOR RH</u>: <u>Component Function Check</u>".</li> </ul>	
Is the inspection result normal?	
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	
5.CHECK HALF LATCH SWITCH	
Check half latch switch.	—

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# < SYMPTOM DIAGNOSIS >

Refer to DLK-296, "SLIDING DOOR CONTROL UNIT: Component Function Check".

# Is the inspection result normal?

YES >> GO TO 6

NO >> Repair or replace the malfunctioning parts.

# 6. CHECK SLIDING DOOR CLOSURE MOTOR

# Check sliding door closure motor.

- Sliding door LH: Refer to DLK-356, "SLIDING DOOR LH: Diagnosis Procedure".
- Sliding door RH: Refer to DLK-356, "SLIDING DOOR RH: Diagnosis Procedure".

# Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

# 7.REPLACE SLIDING DOOR CONTROL UNIT

- 1. Replace sliding door control unit. Refer to <u>DLK-493, "RH: Removal and Installation"</u> (RH) or <u>DLK-493, "LH: Removal and Installation"</u> (LH).
- 2. Confirm the operation after replacement.

# Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

# AUTOMATIC SLIDING DOOR OPEN/CLOSE FUNCTION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > AUTOMATIC SLIDING DOOR OPEN/CLOSE FUNCTION DOES NOT OP-Α **ERATE ALL SWITCHES** В **ALL SWITCHES: Description** INFOID:0000000011322205 Automatic sliding door system auto open/close function does not operate using all switches. ALL SWITCHES: Diagnosis Procedure INFOID:0000000011322206 CHECK AUTOMATIC DOOR MAIN SWITCH POSITION D Check automatic door main switch is in the ON position. Is the inspection result normal? Е YES >> GO TO 2 NO >> Press automatic door main switch to ON position. 2.CHECK DTC WITH SLIDING DOOR MAIN SWITCH Check that DTC is not detected with sliding door control unit. Is the inspection result normal? YES >> GO TO 3. NO >> Perform trouble diagnosis relevant to DTC indicated. 3.CHECK AUTOMATIC DOOR MAIN SWITCH

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Check automatic door main switch.

Refer to <a href="DLK-284">DLK-284</a>, "SLIDING DOOR CONTROL UNIT: Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK FUEL FILLER LID STATUS SWITCH

Check fuel filler lid status switch.

Refer to <u>DLK-334</u>, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

 ${f 5.}$ CHECK POWER SUPPLY AND GROUND CIRCUIT

Check sliding door control unit power supply and ground circuit.

Refer to <u>DLK-239</u>, "SLIDING DOOR CONTROL UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

**6.**CHECK SLIDING DOOR LOCK RELEASE ACTUATOR

Check sliding door lock release actuator.

- Sliding door LH: Refer to DLK-353, "SLIDING DOOR LH: Diagnosis Procedure".
- Sliding door RH: Refer to DLK-354, "SLIDING DOOR RH: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

.CHECK CLUTCH

Check clutch.

- Sliding door LH: Refer to DLK-348, "SLIDING DOOR LH: Component Function Check".
- Sliding door RH: Refer to <u>DLK-349, "SLIDING DOOR RH: Component Function Check"</u>.

Is the inspection result normal?

# **AUTOMATIC SLIDING DOOR OPEN/CLOSE FUNCTION DOES NOT OPERATE**

# < SYMPTOM DIAGNOSIS >

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

# 8.CHECK AUTOMATIC SLIDING DOOR MOTOR

Check automatic sliding door motor.

- Sliding door LH: Refer to <u>DLK-351</u>, "<u>SLIDING DOOR LH</u>: <u>Diagnosis Procedure</u>".
  Sliding door RH: Refer to .<u>DLK-351</u>, "<u>SLIDING DOOR RH</u>: <u>Diagnosis Procedure</u>"

# Is the inspection result normal?

YES >> GO TO 9.

NO >> Repair or replace the malfunctioning parts.

# 9. CHECK HALF LATCH SWITCH

Check half latch switch.

Refer to DLK-296, "SLIDING DOOR CONTROL UNIT: Component Function Check".

# Is the inspection result normal?

YES >> GO TO 10.

>> Repair or replace the malfunctioning parts.

# 10.CHECK FULL LATCH SWITCH

Check full latch switch.

- Sliding door LH: Refer to <u>DLK-318</u>, "SLIDING DOOR LH: Component Function Check".
- Sliding door RH: Refer to <u>DLK-320</u>, "SLIDING DOOR RH: Component Function Check".

# Is the inspection result normal?

YES >> GO TO 11.

NO >> Repair or replace the malfunctioning parts.

# 11. CHECK SLIDING DOOR SWITCH

Check sliding door switch.

- Sliding door LH: Refer to <u>DLK-315</u>, "SLIDING DOOR LH: Component Function Check".
- Sliding door RH: Refer to DLK-316, "SLIDING DOOR RH: Component Function Check"

#### Is the inspection result normal?

YES >> GO TO 12.

>> Repair or replace the malfunctioning parts. NO

# 12. REPLACE SLIDING DOOR CONTROL UNIT

- Replace sliding door control unit. Refer to DLK-493, "RH: Removal and Installation" (RH) or DLK-493, "LH: Removal and Installation" (LH).
- Confirm the operation after replacement.

# Is the result normal?

YES >> INSPECTION END

>> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

# OUTSIDE HANDLE

# **OUTSIDE HANDLE: Description**

Automatic sliding door system auto open/close function does not operate using sliding door outside handle.

INFOID:0000000011322207

INFOID:0000000011322208

# OUTSIDE HANDLE: Diagnosis Procedure

# ${f 1}$ .CHECK DTC WITH SLIDING DOOR CONTROL UNIT

Check that DTC is not detected with sliding door control unit.

# Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

# 2.CHECK AUTO OPEN/CLOSE FUNCTION

Check automatic sliding door system auto open/close function.

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# AUTOMATIC SLIDING DOOR OPEN/CLOSE FUNCTION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > Does sliding door auto open/close with switches? Α YES >> GO TO 3. NO >> Refer to DLK-405, "ALL SWITCHES: Diagnosis Procedure". 3.check sliding door handle switch Check sliding door handle switch. Sliding door LH: Refer to <u>DLK-326</u>, "SLIDING DOOR LH: Component Function Check". Sliding door RH: Refer to <u>DLK-328</u>, "SLIDING DOOR RH: Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. D 4. REPLACE SLIDING DOOR CONTROL UNIT Replace sliding door control unit. Refer to DLK-493, "RH: Removal and Installation" (RH) or DLK-493, "LH: Removal and Installation" (LH). Е Confirm the operation after replacement. Is the result normal? YES >> INSPECTION END F NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident". INSIDE HANDLE **INSIDE HANDLE: Description** INFOID:0000000011322209 Automatic sliding door system auto open/close function does not operate using sliding door inside handle. Н

# **INSIDE HANDLE**: Diagnosis Procedure

# 1. CHECK CHILD LOCK STATUS

Check child lock is unlock.

# Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2 .CHECK DTC WITH SLIDING DOOR CONTROL UNIT

Check that DTC is not detected with sliding door control unit.

#### <u>Is the inspection result normal?</u>

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

# 3.CHECK AUTO OPEN/CLOSE FUNCTION

Check automatic sliding door system auto open/close function.

# Does sliding door auto open/close with switches?

YES >> GO TO 4.

NO >> Refer to DLK-405, "ALL SWITCHES: Diagnosis Procedure".

# 4. REPLACE SLIDING DOOR CONTROL UNIT

- Replace sliding door control unit. Refer to DLK-493, "RH: Removal and Installation" (RH) or DLK-493, "LH: Removal and Installation" (LH).
- Confirm the operation after replacement.

#### Is the result normal?

YFS >> INSPECTION END

>> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

# INTELLIGENT KEY

# **INTELLIGENT KEY: Description**

Automatic sliding door system auto open/close function does not operate using Intelligent Key.

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INFOID:0000000011322211

# **AUTOMATIC SLIDING DOOR OPEN/CLOSE FUNCTION DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >

# **INTELLIGENT KEY: Diagnosis Procedure**

INFOID:0000000011322212

# ${f 1}$ .CHECK DTC WITH SLIDING DOOR CONTROL UNIT

Check that DTC is not detected with sliding door control unit.

# Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

# 2.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

>> GO TO 3. YES

NO >> Refer to DLK-368, "Diagnosis Procedure".

# 3.CHECK AUTO OPEN/CLOSE FUNCTION

Check automatic sliding door system auto open/close function.

Does sliding door auto open/close with sliding door outside handle?

YFS >> GO TO 4

NO >> Refer to DLK-406, "OUTSIDE HANDLE: Diagnosis Procedure".

# f 4.REPLACE SLIDING DOOR CONTROL UNIT

- Replace sliding door control unit. Refer to <u>DLK-493</u>, "RH: Removal and Installation" (RH) or <u>DLK-493</u>, "LH: Removal and Installation" (LH).
- 2. Confirm the operation after replacement.

# Is the result normal?

YES >> INSPECTION END

>> Check intermittent incident. Refer to GI-42, "Intermittent Incident". NO

# SLIDING DOOR OPEN/CLOSE SWITCH

# SLIDING DOOR OPEN/CLOSE SWITCH: Description

INFOID:0000000011322213

Automatic sliding door system auto open/close function does not operate using sliding door open/close switch.

# SLIDING DOOR OPEN/CLOSE SWITCH: Diagnosis Procedure

INFOID:0000000011322214

# ${f 1}$ .CHECK DTC WITH SLIDING DOOR CONTROL UNIT

Check that DTC is not detected with sliding door control unit.

# Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

# 2.CHECK AUTO OPEN/CLOSE FUNCTION

Check automatic sliding door system auto open/close function.

#### Does sliding door auto open/close with switches?

YES >> GO TO 3.

NO >> Refer to DLK-405, "ALL SWITCHES: Diagnosis Procedure".

# 3.check sliding door open/close switch

#### Check sliding door open/close switch.

- Front LH: Refer to <u>DLK-336</u>, "<u>FRONT LH</u>: <u>Component Function Check</u>".
   Front RH: Refer to <u>DLK-337</u>, "<u>FRONT RH</u>: <u>Component Function Check</u>".

# Is the inspection result normal?

YES >> GO TO 4.

>> Repair or replace the malfunctioning parts. NO

# f 4 . REPLACE SLIDING DOOR CONTROL UNIT

# **AUTOMATIC SLIDING DOOR OPEN/CLOSE FUNCTION DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >	
<ol> <li>Replace sliding door control unit. Refer to <u>DLK-493</u>, "RH : Removal and Installation" (RH) or <u>DLK-493</u>, "<u>LH : Removal and Installation</u>" (LH).</li> <li>Confirm the operation after replacement.</li> </ol> Is the result normal?	А
YES >> INSPECTION END  NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".  SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH	В
SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH: Description INFOID.000000011322215	С
Automatic sliding door system auto open/close function does not operate using sliding door one-touch open close switch.	D
SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH: Diagnosis Procedure	
1. CHECK DTC WITH SLIDING DOOR CONTROL UNIT	Е
Check that DTC is not detected with sliding door control unit.	F
Is the inspection result normal? YES >> GO TO 2.	
NO $>>$ Perform trouble diagnosis relevant to DTC indicated. 2.CHECK AUTO OPEN/CLOSE FUNCTION	G
Check automatic sliding door system auto open/close function.	Н
Does sliding door auto open/close with switches?  YES >> GO TO 3.	11
NO >> Refer to <u>DLK-388, "ALL SWITCHES: Diagnosis Procedure"</u> .  3.CHECK SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH	I
Check sliding door one-touch open/close switch.	
<ul> <li>Sliding door LH: Refer to <u>DLK-340</u>, "<u>SLIDING DOOR LH</u>: <u>Component Function Check</u>".</li> <li>Sliding door RH: Refer to <u>DLK-342</u>, "<u>SLIDING DOOR RH</u>: <u>Component Function Check</u>".</li> </ul>	J
Is the inspection result normal? YES >> GO TO 4.	DLK
NO >> Repair or replace the malfunctioning parts. f 4. REPLACE SLIDING DOOR CONTROL UNIT	
Replace sliding door control unit. Refer to <u>DLK-493</u> , "RH : Removal and Installation" (RH) or <u>DLK-493</u> , "LH : Removal and Installation" (LH).	L
2. Confirm the operation after replacement.  Is the result normal?	M
YES >> INSPECTION END	
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".	Ν
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# **AUTOMATIC SLIDING DOOR FUNCTIONS DO NOT CANCEL**

# < SYMPTOM DIAGNOSIS >

# AUTOMATIC SLIDING DOOR FUNCTIONS DO NOT CANCEL

# Diagnosis Procedure

INFOID:0000000011322217

# 1. CHECK AUTOMATIC DOOR MAIN SWITCH

Check automatic door main switch.

Refer to <u>DLK-284</u>, "SLIDING DOOR CONTROL UNIT: Component Function Check".

# Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2.REPLACE SLIDING DOOR CONTROL UNIT

- Replace sliding door control unit. Refer to <u>DLK-493, "RH: Removal and Installation"</u> (RH) or <u>DLK-493, "LH: Removal and Installation"</u> (LH).
- 2. Confirm the operation after replacement.

# Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

< SYMPTOM DIAGNOSIS >

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow INFOID:0000000011322218 Customer Interview Duplicate the Noise and Test Drive. Check Related Service Bulletins. Locate the Noise and Identify the Root Cause. Repair the Cause. NG

Confirm Repair. OK Inspection End

# **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 customer's comments; refer to DLK-415, "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, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle 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 depen-
- dent 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 bumblebee) Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician 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 the repair is reconfirmed.

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#### < SYMPTOM DIAGNOSIS >

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 models, drive position on A/T models).
- 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.

# CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

# 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 (Chassis ear: J-39570, Engine ear and 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 is are suspected to be the cause of the noise.
   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 is are suspected to be the cause of 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 by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks.
   Refer to <u>DLK-413</u>, "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. A Nissan Squeak and Rattle Kit (J-50397) is available through the authorized Nissan Parts Department.

#### **CAUTION:**

# Never use excessive force as many components are constructed of plastic and may be damaged.

Always check with the Parts Department for the latest parts information.

The following materials are contained in the Nissan Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.

URETHANE PADS [1.5 mm (0.059 in) thick]

Insulates connectors, harness, etc.

76268-9E005:  $100 \times 135$  mm  $(3.94 \times 5.31$  in)/76884-71L01:  $60 \times 85$  mm  $(2.36 \times 3.35$  in)/76884-

71L02:15  $\times$  25 mm (0.59  $\times$  0.98 in)

INSULATOR (Foam blocks)

Insulates components from contact. Can be used to fill space behind a panel.

73982-9E000: 45 mm (1.77 in) thick,  $50 \times 50$  mm (1.97  $\times$  1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick,  $50 \times 50$  mm (1.97  $\times$  1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30  $\times$  50 mm (1.18  $\times$  1.97 in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.

 $68370-4B000: 15 \times 25 \text{ mm} (0.59 \times 0.98 \text{ in}) \text{ pad/}68239-13E00: 5 \text{ mm} (0.20 \text{ in}) \text{ wide tape roll}$ 

The following materials, not found in the kit, can also be used to repair squeaks and rattles.

UHMW (TEFLON) TAPE

#### < SYMPTOM DIAGNOSIS >

Insulates where slight movement is present. Ideal for instrument panel applications.

SILICONE GREASE

Used in place of UHMW tape that is be visible or does not fit. Will only last a few months.

SILICONE SPRAY

Used when grease cannot be applied.

**DUCT TAPE** 

Used 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.

# 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. The cluster lid A and instrument panel
- Acrylic lens and combination meter housing
- Instrument panel to front pillar garnish
- Instrument panel to windshield
- Instrument panel mounting pins
- 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:

Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

### CENTER CONSOLE

Components to pay attention to include:

- 1. Shifter assembly cover to finisher
- A/C control unit and cluster lid C
- 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 following:

- Finisher and inner panel making a slapping noise
- Inside handle escutcheon to door finisher
- 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. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-50397) to repair the noise.

#### TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer. In addition look for the following:

- 1. Trunk lid dumpers out of adjustment
- Trunk lid striker out of adjustment
- The trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

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#### < SYMPTOM DIAGNOSIS >

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
- Sunvisor shaft shaking in the holder
- 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.

#### **SEATS**

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise. Cause of seat noise include:

- Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- 3. The 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
- Engine wall mounts and connectors
- 4. Loose radiator mounting pins
- 5. Hood bumpers out of adjustment
- 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.

< SYMPTOM DIAGNOSIS >

# Diagnostic Worksheet

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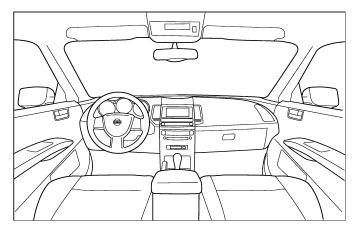


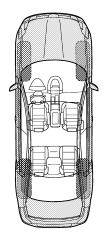
# SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

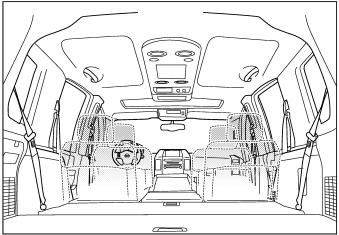
#### Dear Nissan Customer:

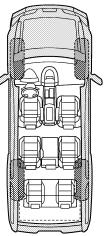
We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be 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.

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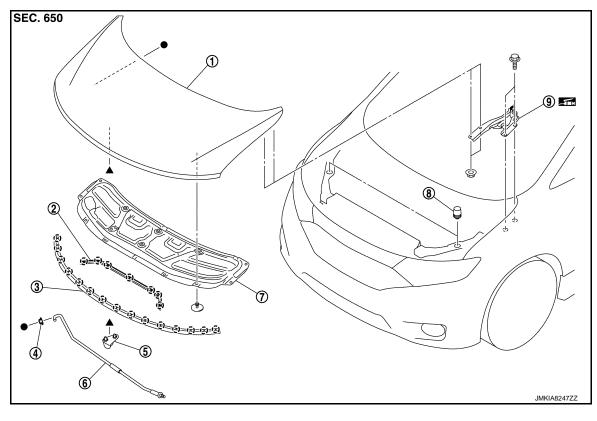
Briefly describe the location where the nois	e occurs:				
II. WHEN DOES IT OCCUR? (please chec	k the box	es that ap	ply)		
<ul><li>□ anytime</li><li>□ 1st time in the morning</li><li>□ only when it is cold outside</li><li>□ only when it is hot outside</li></ul>	☐ whei	n it is rain or dusty co	it in the ra ing or wet onditions		
III. WHEN DRIVING:	IV. WHA	AT TYPE	OF NOIS	E	
<ul> <li>□ through driveways</li> <li>□ over rough roads</li> <li>□ over speed bumps</li> <li>□ only about mph</li> <li>□ on acceleration</li> <li>□ coming to a stop</li> <li>□ on turns: left, right or either (circle)</li> <li>□ with passengers or cargo</li> <li>□ other:</li> <li>□ after driving miles or minu</li> </ul>	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 P	ERSON	IEL			
Test Drive Notes:					
		YES	NO	Initials of person performing	
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired	repair				
- Follow up test drive performed to confirm		ш			
- Follow up test drive performed to confirm  VIN:	Cust	omer Nar	me:		

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# REMOVAL AND INSTALLATION

# HOOD

**Exploded View** 



- 1. Hood assembly
- Grommet
- Hood insulator 7.
- ( ) : Clip

- 2. Radiator core seal
- Clamp 5.
- Bumper rubber

- Hood seal
- Hood support rod
- Hood hinge

: Body grease

●, ▲: Indicates that the part is connected at points with same symbol in actual vehicle.

# **HOOD ASSEMBLY**

# **HOOD ASSEMBLY: Removal and Installation**

### **CAUTION:**

- Operate with two 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.

Remove hood hinge mounting nuts on the hood to remove the hood assembly.

### INSTALLATION

Note the following items, and then install in the reverse order of removal. **CAUTION:** 

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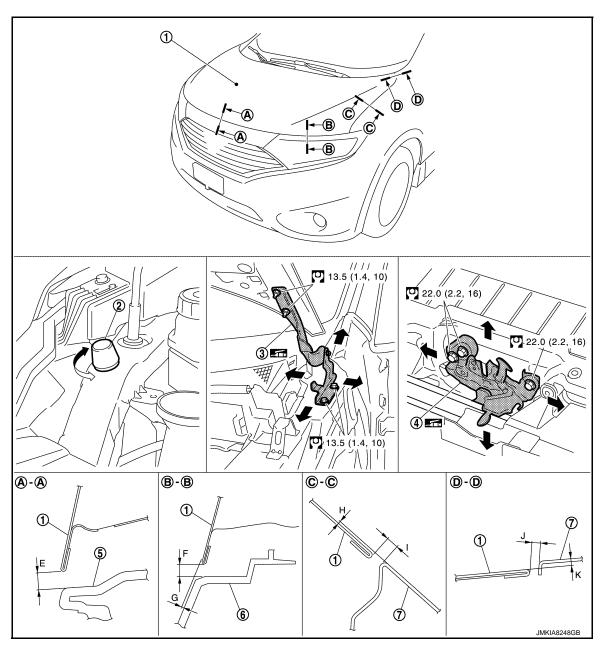
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- Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installing, perform hood fitting adjustment. Refer to <u>DLK-418, "HOOD ASSEMBLY: Adjustment"</u>.

**HOOD ASSEMBLY: Adjustment** 

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- 1. Hood assembly
- 4. Hood lock assembly
- 7. Front fender

: N·m (kg-m, ft-lb)

: Body grease

- 2. Bumper rubber
- 5. Front grille

- 3. Hood hinge
- 6. Front combination lamp

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.

Portion				Standard	Difference (RH/LH, MAX)	
Hood – Front grille	<b>A</b> – <b>A</b>	Е	Clearance	4.0 – 8.5 mm (0.157 – 0.335 in)	_	
Hood – Front combination lamp	D D	F	Clearance	3.7 – 8.3 mm (0.146 – 0.327 in)	3.0 mm (0.118 in)	
	B-B	G	Surface height	(-1.7) -(+3.7) mm [(-0.067) - (+0.146) in]	3.0 mm (0.118 in)	
Hood – Front fender C – C		Н	Surface height	(–1.0) – (+1.0) mm [(–0.039) – (+0.039) in]	1.5 mm (0.059 in)	
	0-0	-	Clearance	2.7 – 4.7 mm (0.106 – 0.185 in)	1.5 mm (0.059 in)	
Hood – Front fender		J	Clearance	3.1 – 5.1 mm (0.122 – 0.201 in)	1.5 mm (0.059 in)	
	D – D	K	Surface height	(-1.0) - (+1.0) mm [(-0.039) - (+0.039) in]	_	

#### FITTING ADJUSTMENT PROCEDURE

- Remove front grille. Refer to EXT-18, "Removal and Installation".
- Remove hood lock assembly.
- Temporarily install front grille, and then adjust the surface height of hood assembly, front fender assembly, and front combination lamp according to the specified value, by rotating hood bumper rubber.
- Remove front grille.
- Position hood lock assembly and engage hood striker. Check hood lock assembly and hood striker for
- 6. Move hood lock assembly laterally until the center of hood striker and hood lock assembly are vertical when viewed from the front.
- 7. After adjustment, tighten lock bolts to the specified torque.
- 8. Check that secondary latch is securely engaged with secondary striker from the dead load of the hood assembly.
- Check that primary latch is securely engaged with primary striker when hood assembly is closed [free-fall from approximately 200 mm (7.874 in) height]. **CAUTION:**

Never free-fall hood assembly from a height of 300 (11.811 in) mm or more.

10. Install front grille. Refer to EXT-18, "Removal and Installation".

# HOOD HINGE

# **HOOD HINGE**: Removal and Installation

# REMOVAL

- Remove hood assembly. Refer to DLK-417, "HOOD ASSEMBLY: Removal and Installation".
- Remove front fender. Refer to <u>DLK-423</u>, "FRONT FENDER: Removal and Installation".
- 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:**

- After installation, perform hood fitting adjustment. Refer to <u>DLK-418, "HOOD ASSEMBLY: Adjust-</u>
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.

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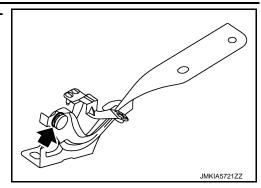
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# **HOOD**

# < REMOVAL AND INSTALLATION >

• Check hood hinge rotating part for poor lubrication. If necessary, apply grease.

: Grease up point



**HOOD SUPPORT ROD** 

**HOOD SUPPORT ROD:** Removal and Installation

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# **REMOVAL**

# **CAUTION:**

Two workers are required to support the hood.

1. Support hood assembly with a appropriate material to prevent it from falling.

#### **WARNING:**

Injury may occur if hood assembly is not supported with appropriate material when removing hood assembly.

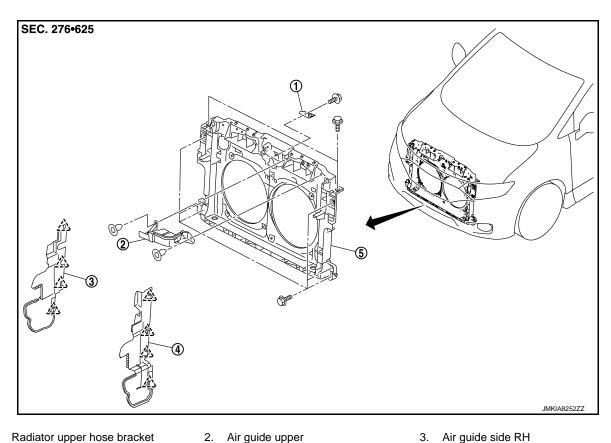
2. Pull hood support rod from grommet and remove.

# **INSTALLATION**

Install in the reverse order of removal.

# RADIATOR CORE SUPPORT

**Exploded View** INFOID:0000000011322226



- Radiator upper hose bracket
- Air guide side LH
- - Radiator core support

3. Air guide side RH

^ : Pawl

# Removal and Installation

INFOID:0000000011322227

# **REMOVAL**

- Use a refrigerant collecting equipment to discharge the refrigerant. Refer to <u>HA-20</u>, "Recycle Refrigerant".
- Remove engine under cover. Refer to EXT-28, "Removal and Installation". 2.
- 3. Drain engine coolant from radiator. Refer to CO-8, "Draining".
- 4. Remove front grille. Refer to EXT-18, "Removal and Installation".
- Remove front bumper fascia, energy absorber, bumper reinforcement. Refer to EXT-12, "Removal and Installation".
- 6. Remove front combination lamp LH and RH. Refer to EXL-104, "Removal and Installation" (XENON TYPE) or EXL-214, "Removal and Installation" (HALOGEN TYPE).
- 7. Remove air duct (inlet). Refer to <a>EM-27</a>, "Removal and Installation"</a>.
- Remove air guide upper.
- Remove exhaust gas/outside odor sensor. Refer to HAC-149, "Removal and Installation" (AUTOMATIC AIR CONDITIONING).

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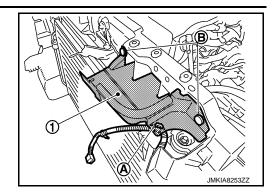
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**DLK-421** Revision: 2014 August **2015 QUEST** 

# RADIATOR CORE SUPPORT

# < REMOVAL AND INSTALLATION >

- b. Remove harness fixing clip (A).
- c. Remove fixing clips (B), and then remove air guide upper (1).



- 9. Remove hood lock assembly. Refer to <u>DLK-452</u>, "HOOD LOCK: Removal and Installation".
- 10. Disengage pawls, and then remove air guide side LH and RH.
- 11. Remove condenser. Refer to HA-43, "CONDENSER: Removal and Installation".
- Remove ambient sensor. Refer to <u>HAC-145</u>, "Removal and Installation" (AUTOMATIC AIR CONDITION-ING).
- 13. Remove reservoir tank, radiator hose (upper) and radiator pipe (upper). Refer to CO-13, "Removal and Installation".
- 14. Remove crash zone sensor. Refer to <a href="SR-23">SR-23</a>, "Removal and Installation".
- 15. Remove cooling fan assembly. Refer to CO-17, "Removal and Installation".
- 16. Remove radiator hose (lower), radiator pipe (lower) and radiator. Refer to CO-13, "Removal and Installation".
- 17. Remove all harness clips from radiator core support.
- 18. Remove mounting bolts, and then remove radiator core support.

# INSTALLATION

Note the following items, and then install in the reverse order of removal.

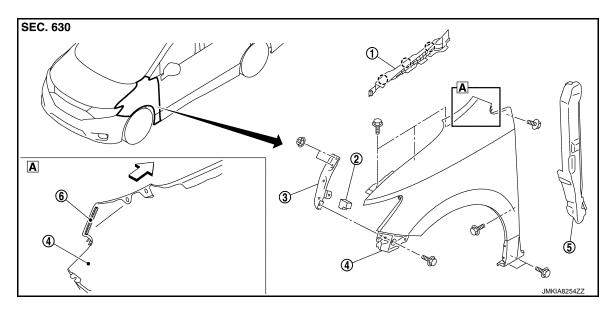
#### **CAUTION:**

After installation, inspection and replenish the following.

- Refrigerant: Refer to HA-20, "Charge Refrigerant".
- Engine coolant: Refer to <u>CO-9</u>, "<u>Refilling</u>".

# **FRONT FENDER**

Exploded View



- 1. Hood side cover
- 4. Front fender assembly
- ( ) : Clip

- 2. Front fender spacer
- 5. Front fender baffle
- 3. Front fender stay
- 6. Front fender stiffener

# FRONT FENDER

FRONT FENDER: Removal and Installation

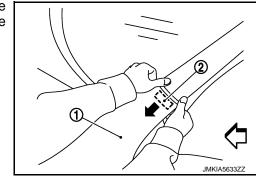
# **CAUTION:**

Use a shop cloth to protect the body from being damaged during removal and installation.

#### REMOVAL

- Remove front fender cover. Refer to <u>EXT-21</u>, "<u>Exploded View</u>".
- 2. Remove hood side cover. Refer to DLK-424, "HOOD SIDE COVER: Removal and Installation".
- 3. Remove front bumper fascia and bumper side bracket. Refer to EXT-12, "Removal and Installation".
- 4. Remove front combination lamp. Refer to <u>EXL-104</u>, "<u>Removal and Installation</u>" (XENON TYPE) or <u>EXL-214</u>, "<u>Removal and Installation</u>" (HALOGEN TYPE).
- 5. Remove fender protect molding. Refer to <a href="EXT-24">EXT-24</a>, "FENDER PROTECT MOLDING: Removal and Installation".
- 6. Remove fender protector (front and rear). Refer to EXT-23, "Removal and Installation".
- 7. Remove front fender spacer and front fender baffle.
- Remove mounting bolts of front fender assembly.
- 9. Remove front fender stiffener (2) from the vehicle body while carefully pulling upper portion of front fender (1) toward vehicle outside.

: Vehicle front



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# **FRONT FENDER**

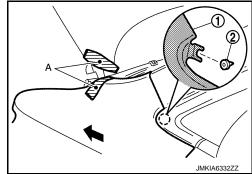
# < REMOVAL AND INSTALLATION >

10. Move front fender (1) toward vehicle front, and then disengage clip (2).

# **CAUTION:**

Apply protective tape (A) on the hood and front fender to protect the painted surface from damage.





11. Remove front fender 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 front fender mounting bolts.
- · After installation, adjust the following part.
- Hood assembly: Refer to <u>DLK-418</u>, "HOOD ASSEMBLY: Adjustment".
- Front door: Refer to <u>DLK-427</u>, "<u>DOOR ASSEMBLY</u>: <u>Adjustment</u>".

HOOD SIDE COVER

**HOOD SIDE COVER:** Removal and Installation

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#### **REMOVAL**

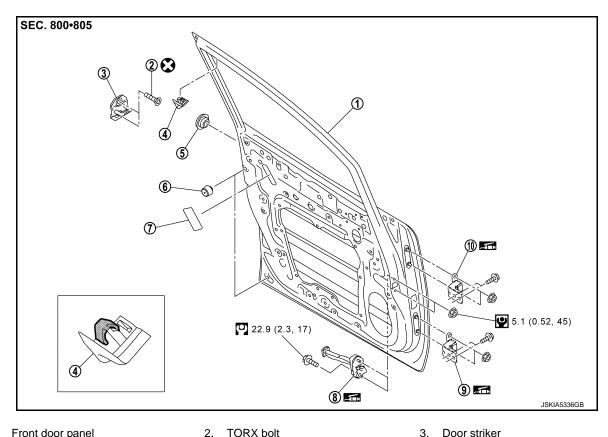
- 1. Disconnect end of hood side cover from front combination lamp.
- 2. Remove fixing clips, and then remove hood side cover.

# **INSTALLATION**

Install in the reverse order of removal.

# FRONT DOOR

**Exploded View** INFOID:0000000011322231



Grommet

Door check link

- Front door panel
- Front door sash inner cover
- Hole cover
- 10. Door hinge (upper)
- : Always replace after every disassembly.
- : N·m (kg-m, ft-lb)
- : Body grease

# DOOR ASSEMBLY

DOOR ASSEMBLY: Removal and Installation

Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.

# **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 front door protect molding. Refer to EXT-25, "FRONT DOOR PROTECT MOLDING: Removal and Installation".

3. Door striker

6. Bumper rubber

Door hinge (lower)

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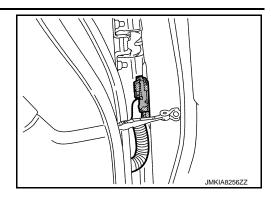
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**DLK-425** Revision: 2014 August **2015 QUEST** 

# **FRONT DOOR**

#### < REMOVAL AND INSTALLATION >

Disconnect front door harness connector.



- 3. Remove mounting bolt of door check link on the vehicle.
- 4. Remove door hinge mounting nuts (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.
- Check front door open/close, lock/unlock operation after installation.
- After installation, perform the fitting adjustment. Refer to <u>DLK-427</u>, "<u>DOOR ASSEMBLY</u>: <u>Adjustment</u>".
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to <a href="SRC-15">SRC-15</a>, "On Board Diagnosis Function" or <a href="SRC-19">SRC-19</a>, "CONSULT Function".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.

# **DOOR ASSEMBLY: Adjustment**

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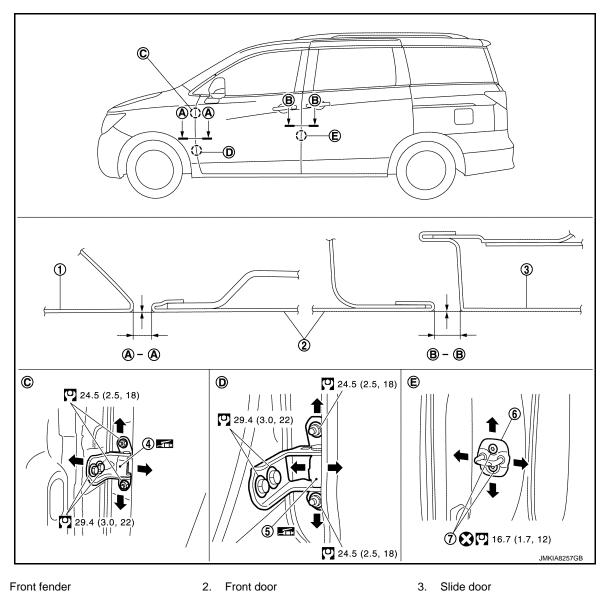
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- Front fender
- Front door hinge (upper)
- TORX bolt
- : Always replace after every disassembly.
- : N-m (kg-m, ft-lb)
- : Body grease

shown below.

Check the clearance and the 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

Front door hinge (lower)

Door striker

Portion			Standard
Front fender – Front door		Clearance	3.5 – 5.5 mm (0.138 – 0.217 in)
	<b>A</b> – <b>A</b>	Surface height	(-1.0) - (+1.0) mm [(-0.039) - (+0.039) in]

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# **FRONT DOOR**

#### < REMOVAL AND INSTALLATION >

Portion			Standard
Front door – Slide door B		Clearance	3.5 – 6.5 mm (0.138 – 0.256 in)
	B – B	Surface height	(-1.0) - (+1.0) mm [(-0.039) - (+0.039) in]

#### FITTING ADJUSTMENT PROCEDURE

- Remove front fender. Refer to DLK-423, "FRONT FENDER: Removal and Installation".
- 2. Loosen door hinge mounting nuts on 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 on body side.
- 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.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- 8. Install front fender. Refer to refer to DLK-423, "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:0000000011322234

#### REMOVAL

Remove TORX bolts, and then remove door striker.

# **INSTALLATION**

Note the following items, and then install in the reverse order of removal.

#### **CAUTION:**

- Check front door open/close, operation after installation.
- After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-427, "DOOR ASSEMBLY:</u> <u>Adjustment"</u>.

#### DOOR HINGE

# DOOR HINGE: Removal and Installation

INFOID:0000000011322235

#### REMOVAL

# **WARNING:**

Before servicing, turn ignition switch OFF, disconnect battery negative terminal and wait 3 minutes or more.

# **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 fender. Refer to <u>DLK-423</u>, "FRONT FENDER: Removal and Installation".
- 2. Remove front door assembly. Refer to DLK-425, "DOOR ASSEMBLY: Removal and Installation".
- 3. Remove front door hinge mounting bolts (body side), and then remove front door hinge.

#### INSTALLATION

Note the following items, and then install in the reverse order of removal.

#### **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- Check front door open/close, lock/unlock operation after installation.

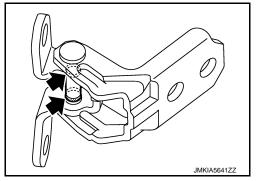
Revision: 2014 August DLK-428 2015 QUEST

# FRONT DOOR

#### < REMOVAL AND INSTALLATION >

- After installation, perform the fitting adjustment. Refer to <a href="DLK-427">DLK-427</a>, "DOOR ASSEMBLY: Adjustment".
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.

: Grease up point



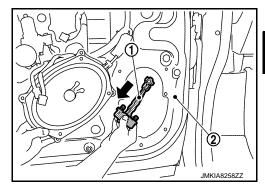
- If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to <a href="SRC-15">SRC-15</a>, "On Board Diagnosis Function" or <a href="SRC-19">SRC-19</a>, "CONSULT Function".
- After the work is completed, check that no system malfunction is detected by air bag warning lamp.
   DOOR CHECK LINK

# DOOR CHECK LINK: Removal and Installation

INFOID:0000000011322236

#### **REMOVAL**

- 1. Fully close the front door window.
- Remove front door finisher. Refer to <u>INT-14, "Removal and Installation"</u>.
- 3. Remove bracket mounting bolts of front door speaker.
- 4. Remove front door speaker and bracket as a set, and move them aside.
- 5. Remove mounting bolt of door check link on the vehicle.
- 6. Remove mounting nuts of door check link on door panel.
- 7. Take door check link (1) out from the hole of door panel (2).

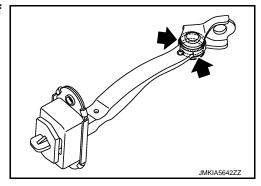


# **INSTALLATION**

Note the following items, and install in the reverse order of removal.

#### CAUTION:

- Check front door open/close operation after installation.
- Check door check link rotating part for poor lubrication. If necessary, apply grease.
  - : Grease up point



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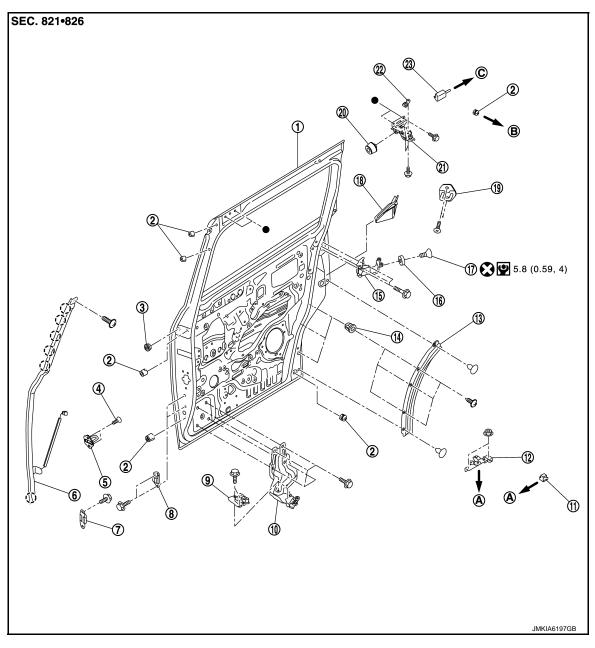
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Revision: 2014 August DLK-429 2015 QUEST

# SLIDE DOOR

Exploded View



- 1. Slide door panel
- 4. TORX bolt
- 7. Dovetail (female)
- 10. Lower roller
- 13. Slide door lower weather-strip
- 16. Roller
- 19. Door striker (rear)
- 22. Sub roller
- A : To slide door lower railB : To body outer panelC : Slide door upper rail

- 2. Bumper rubber
- 5. Door striker (front)
- 8. Dovetail (male)
- 11. Slide door lower stopper
- 14. Screw grommet
- 17. TORX bolt
- 20. Stopper rubber
- 23. Slide door upper stopper

- 3. Grommet
- Touch sensor (automatic sliding door models)
- 9. Lower latch
- 12. Slide door lower striker
- 15. Rear roller
- 18. Slide door outside protector
- 21. Upper roller assembly

# SLIDE DOOR

# < REMOVAL AND INSTALLATION >

( ) : Clip

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

•: Indicates that the part is connected at points with same symbol in actual vehicle.

# DOOR ASSEMBLY

# DOOR ASSEMBLY: Removal and Installation

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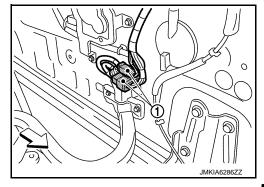
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#### **CAUTION:**

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing slide door assembly, support door with a jack and shop cloth to protect door and body.

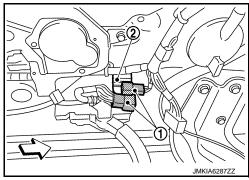
# **REMOVAL**

- 1. Remove slide door protect molding. Refer to <u>EXT-26</u>, "SLIDE DOOR PROTECT MOLDING : Removal and Installation".
- 2. Remove slide door finisher. Refer to <a href="INT-17">INT-17</a>, "Removal and Installation".
- 3. Remove lower latch. Refer to <a href="DLK-436">DLK-436</a>, "LOWER LATCH: Removal and Installation".
- 4. Disconnect uninterruptible power supply harness from slide door panel.
- a. Disconnect harness connector (1).



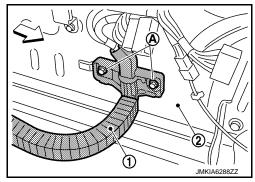
b. Remove harness connectors (1) from harness connector bracket (2).

: Vehicle front



c. Remove mounting bolts (A), and then remove uninterruptible power supply harness (1) from slide door panel (2).

⟨⇒ : Vehicle front



5. Remove upper roller assembly mounting bolts. Refer to <u>DLK-434, "UPPER ROLLER: Removal and Installation"</u>.

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# **SLIDE DOOR**

# < REMOVAL AND INSTALLATION >

- 6. Remove rear roller mounting bolts. Refer to <u>DLK-435</u>, "<u>REAR ROLLER</u>: Removal and Installation".
- 7. Remove lower roller mounting bolts. Refer to <u>DLK-435</u>, "LOWER ROLLER: Removal and Installation".
- 8. Remove slide door assembly.

# **INSTALLATION**

Note the following items, and then install in the reverse order of removal.

#### **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- Check slide door open/close, lock/unlock operation after installation.
- After installation, perform the fitting adjustment. Refer to <a href="DLK-433">DLK-433</a>, "DOOR ASSEMBLY: Adjustment".
- After installation, apply touch-up paint (the body color) onto the head of slide door roller mounting bolts.

# **DOOR ASSEMBLY: Adjustment**

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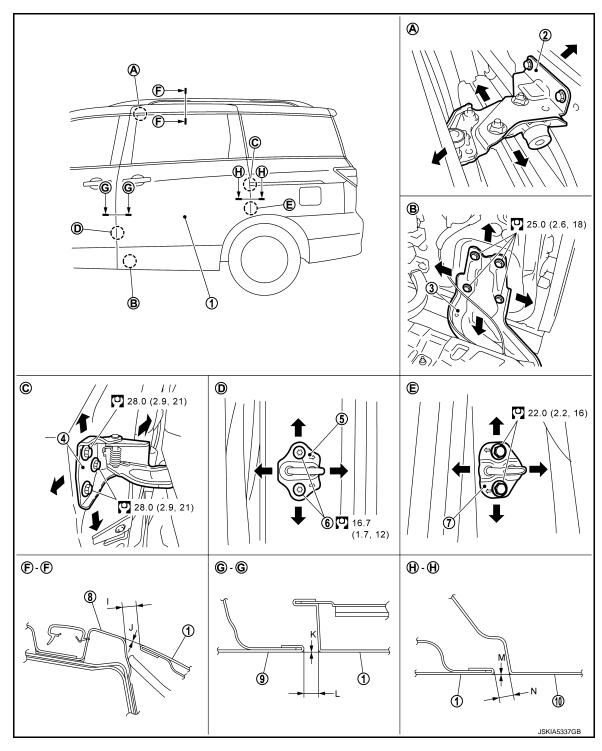
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- 1. Slide door
- Rear roller
- Door striker (rear)
- 10. Body side outer
- : N·m (kg-m, ft-lb)

- 2. Upper roller assembly
- Door striker (front)
- 8. Body side outer

- 3. Lower roller
- 6. TORX bolt
- 9. Front door

Check the clearance and the surface height between slide door 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.

Por	Standard				
Slide door – Body side outer	F-F	I	Clearance	5.1 – 7.1 mm (0.201 – 0.280 in)	
		J	Surface height	(–1.0) – (+1.0) mm [(–0.039) – (+0.039) in]	
Front door – Slide door	G – G	K	Surface height	(–1.0) – (+1.0) mm [(–0.039) – (+0.039) in]	
		L	Clearance	3.5 – 6.5 mm (0.138 – 0.256 in)	
Slide door – Body side outer	H-H	M	Surface height	(-1.0) - (+1.0) mm [(-0.039) - (+0.039) in]	
		N	Clearance	3.3 – 6.3 mm (0.130 – 0.248 in)	

#### FITTING ADJUSTMENT PROCEDURE

Loosen the upper roller assembly, lower roller and rear roller mounting bolts, adjust the surface of slide door according to the fitting standard dimension.

#### DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

#### **CAUTION:**

After installation, apply touch-up paint (the body color) onto the head of slide door roller mounting bolts.

# DOOR STRIKER

DOOR STRIKER: Removal and Installation

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#### **REMOVAL**

Door striker (front)

Remove mounting TORX bolts, and then remove door striker (front).

Door striker (rear)

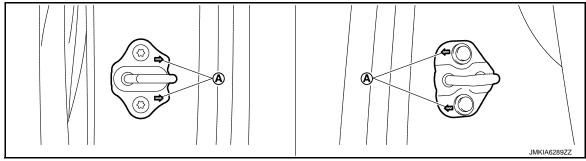
Remove mounting bolts, and then remove door striker (rear).

#### INSTALLATION

Note the following items, and then install in the reverse order of removal.

# **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- After installation, be sure to perform the fitting adjustment. Refer to <u>DLK-433, "DOOR ASSEMBLY:</u> <u>Adjustment".</u>
- After installation, check that the direction of arrows (A), as shown in the figure, faces toward passenger room.



Door striker (front)

Door striker (rear)

# UPPER ROLLER

UPPER ROLLER: Removal and Installation

INFOID:0000000011322241

#### < REMOVAL AND INSTALLATION >

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing slide door assembly, support door with a jack and shop cloth to protect door and body.

#### REMOVAL

- Remove slide door upper stopper. Refer to DLK-440, "SLIDE DOOR UPPER STOPPER: Removal and Installation".
- Support the front of slide door with the proper material to prevent it from falling.

Bodily injury may occur if no supporting jack is holding slide door open when removing upper roller assembly.

- 3. Remove upper roller assembly mounting bolts.
- 4. Remove upper roller assembly and sub roller as a set.

#### INSTALLATION

Note the following items, and then install in the reverse order of removal.

### **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- Check slide door open/close operation after installation.
- When removing and installing slide door assembly, perform the fitting adjustment. Refer to <u>DLK-433</u>, "DOOR ASSEMBLY : Adjustment".
- After installing, apply the touch-up paint (the body color) onto the head of upper roller mounting bolts.

# REAR ROLLER

# REAR ROLLER: Removal and Installation

#### **CAUTION:**

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing slide door assembly, support door with a jack and shop cloth to protect door and body.

# REMOVAL

- Remove slide door rail cover. Refer to EXT-43. "Removal and Installation".
- Support the end of slide door with the proper material to prevent it from falling.

Bodily injury may occur if no supporting jack is holding slide door open when removing rear roller.

- Remove rear roller mounting bolts.
- Disconnect cable holder of automatic sliding door unit (automatic sliding door models). Refer to <u>DLK-467</u>. "AUTOMATIC SLIDING DOOR UNIT: Removal and Installation".
- Remove rear roller.

#### INSTALLATION

Note the following items, and then install in the reverse order of removal.

#### **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- Check slide door open/close operation after installation.
- When removing and installing slide door assembly, perform the fitting adjustment. Refer to <u>DLK-433</u>, "DOOR ASSEMBLY : Adjustment".
- After installing, apply the touch-up paint (the body color) onto the head of rear roller mounting bolts. LOWER ROLLER

# LOWER ROLLER: Removal and Installation

#### CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing slide door assembly, support door with a jack and shop cloth to protect door and body.

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#### < REMOVAL AND INSTALLATION >

#### **REMOVAL**

- 1. Remove slide door finisher. Refer to <a href="INT-17">INT-17</a>, "Removal and Installation".
- 2. Remove lower latch. Refer to DLK-436, "LOWER LATCH: Removal and Installation".
- 3. Remove slide door lower striker. Refer to <a href="DLK-439">DLK-439</a>, "SLIDE DOOR LOWER STRIKER: Removal and Installation".
- 4. Support the front of slide door with the proper material to prevent it from falling.

#### **WARNING:**

Bodily injury may occur if no supporting jack is holding slide door open when removing lower roller.

5. Remove the mounting bolts, and then remove the lower roller.

#### INSTALLATION

Note the following items, and then install in the reverse order of removal.

### **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- Check slide door open/close operation after installation.
- When removing and installing slide door assembly, perform the fitting adjustment. Refer to <u>DLK-433</u>, <u>"DOOR ASSEMBLY : Adjustment"</u>.
- After installing, apply the touch-up paint (the body color) onto the head of lower roller mounting bolts.

# LOWER LATCH

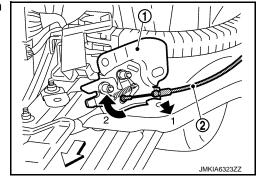
# LOWER LATCH: Removal and Installation

INFOID:0000000011322244

# **REMOVAL**

- 1. Remove rear kicking plate. Refer to INT-22, "KICKING PLATE: Removal and Installation".
- 2. Remove lower latch mounting bolts.
- Disconnect remote control door lock cable (2) from lower latch (1).

: Vehicle front



#### INSTALLATION

Note the following item, and then install in the reverse order of removal.

### **CAUTION:**

After installation, check door open/close, lock/unlock operation.

# DOVETAIL

# DOVETAIL: Removal and Installation

INFOID:0000000011322245

### **REMOVAL**

Remove the mounting bolts, and then remove the dovetail (male/female).

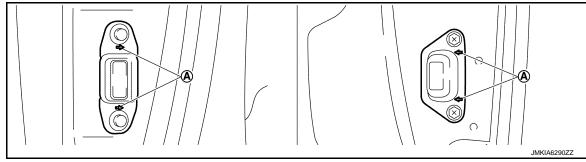
### **INSTALLATION**

Install in the reverse order of removal.

- Install dovetail (male).
- 2. Temporarily tighten dovetail (female) mounting bolts.
- 3. Perform the fitting adjustment.
- a. Open and close two or three times slide doors.
- b. Open the slide door, and then tighten the dovetail (female) mounting bolts.

#### **CAUTION:**

After installation, check that the direction of arrows (A), as shown in the figure, faces toward passenger room.



Dovetail (female)

Dovetail (male)

# **BUMPER RUBBER**

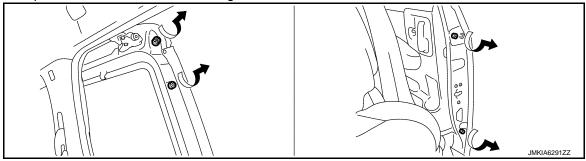
BUMPER RUBBER: Removal and Installation

INFOID:0000000011322246

# **BUMPER RUBBER**

Removal

Pull out bumper rubber forward while rotating it counterclockwise to remove.



Installation

Install in the reverse order of removal.

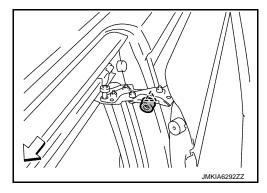
# STOPPER RUBBER

Removal

Disengage pawl of stopper rubber to remove.

\_\_\_` : Pawl

: Vehicle front



Installation

Install in the reverse order of removal.

BUMPER RUBBER (BODY UPPER PORTION AND SLIDE DOOR REAR LOWER PORTION)

Removal

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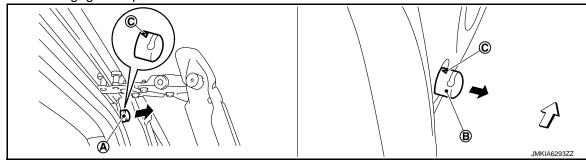
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**DLK-437** Revision: 2014 August **2015 QUEST** 

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Pull out and disengage bumper rubber to remove.



: Vehicle front

### **CAUTION:**

When installing, check that △ mark (C) on bumper rubber of body upper portion (A) and slide door rear lower portion (B) are visible to vehicle upper side.

Installation

Install in the reverse order of removal.

SLIDE DOOR LOWER WEATHER-STRIP

SLIDE DOOR LOWER WEATHER-STRIP: Removal and Installation

INFOID:0000000011322247

#### REMOVAL

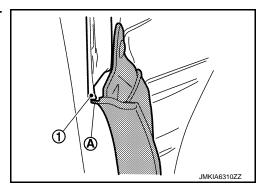
Remove fixing screws and clips, and then remove slide door lower weather-strip.

# **INSTALLATION**

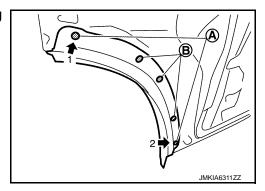
Note the following items, and then install in the reverse order of removal.

#### **CAUTION:**

• When installing, check that lip portion (A) of slide door lower weather-strip overlaps end of slide door panel (1).



• When installing, install mounting clips (A) and mounting screws (B) in numerical order as shown in the figure.



# SLIDE DOOR OUTSIDE PROTECTOR

SLIDE DOOR OUTSIDE PROTECTOR: Removal and Installation

INFOID:0000000011322248

#### REMOVAL

Remove slide door outside protector while peeling double-sided adhesive tape.

#### < REMOVAL AND INSTALLATION >

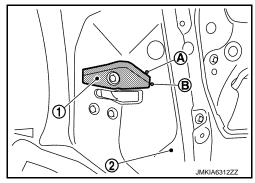
#### **INSTALLATION**

Install slide door panel (2) while checking the installation position of slide door outside protector (1).

- Align to vehicle vertical position mark (A).
- Align to vehicle longitudinal position mark (B).
- Align lower end of slide door outside protector to be parallel to lock opening portion.

#### NOTE:

When reusing slide door outside protector, remove double-sided adhesive tape from protector and slide door panel sides, clean the applied area of double-sided adhesive tape, and then install slide door outside protector to slide door panel using new double-sided adhesive tape.



Double-sided tape t: 1.2 mm (0.047 in)

# SLIDE DOOR LOWER STRIKER

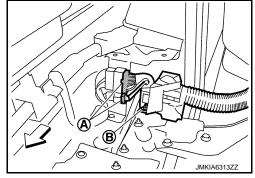
# SLIDE DOOR LOWER STRIKER: Removal and Installation

INFOID:0000000011322249

#### **REMOVAL**

- 1. Remove rear kicking plate and rear floor step assembly. Refer to <a href="INT-22">INT-22</a>, "KICKING PLATE: Removal and <a href="Installation">INT-20</a>, "Exploded View".
- Disconnect uninterruptible power supply harness from slide door lower striker.
- a. Disconnect harness connector (A).
- b. Remove uninterruptible power supply harness mounting nut (B).

⟨□ : Vehicle front



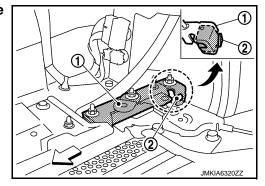
3. Remove mounting nuts, and then remove slide door lower striker.

#### INSTALLATION

Note the following item, and then install in the reverse order of removal. **CAUTION:** 

Fix rear end of slide door lower striker (1) to rear portion of slide door lower stopper (2).

<□ : Vehicle front



# SLIDE DOOR LOWER STOPPER

# SLIDE DOOR LOWER STOPPER: Removal and Installation

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# REMOVAL

Remove slide door lower striker. Refer to <u>DLK-439</u>, "<u>SLIDE DOOR LOWER STRIKER</u>: Removal and <u>Installation</u>".

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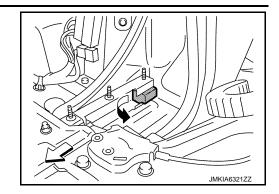
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# < REMOVAL AND INSTALLATION >

2. Remove slide door lower stopper.



# **INSTALLATION**

Install in the reverse order of removal.

# SLIDE DOOR UPPER STOPPER

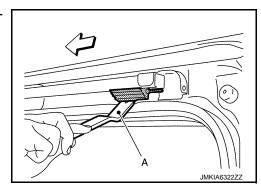
# SLIDE DOOR UPPER STOPPER: Removal and Installation

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# **REMOVAL**

- 1. Slide the slide door upper stopper toward vehicle front.
- 2. Use a remover tool (A), and then remove slide door upper stopper.

: Vehicle front



#### INSTALLATION

Install in the reverse order of removal.

# TOUCH SENSOR

# **TOUCH SENSOR**: Removal and Installation

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### **REMOVAL**

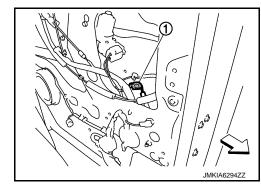
- 1. Remove remote control assembly. Refer to <u>DLK-466, "REMOTE CONTROL ASSEMBLY: Removal and Installation".</u>
- 2. Remove front side of sealing screen.

#### NOTE:

Cut the butyl-tape so that some parts of the butyl-tape do not remain on the sealing screen, if the sealing screen is reused.

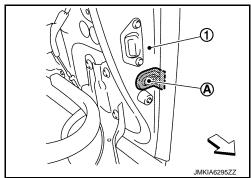
3. Disconnect touch sensor harness connector (1).

: Vehicle front



# < REMOVAL AND INSTALLATION >

4. Remove grommet (A), and then pull out harness from slide door panel (1).



5. Remove mounting screws and mounting clips, and then pull touch sensor toward vehicle front to remove.

Never hit or bend touch sensor strongly.

# **INSTALLATION**

Note the following item, and install in the reverse order of removal.

# **CAUTION:**

After installation, check that slide door is reversed normally.

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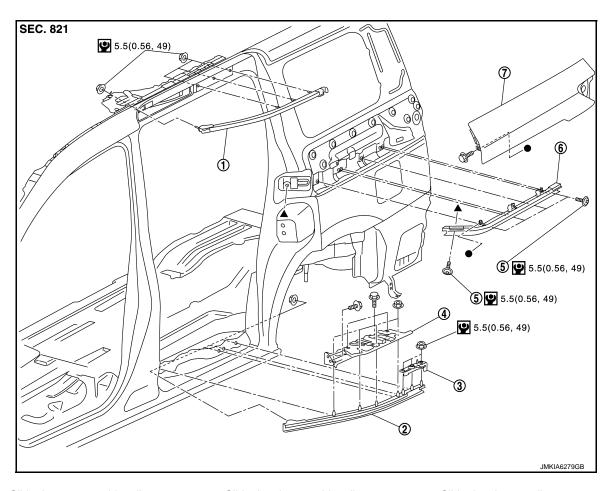
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# SLIDE DOOR GUIDE RAIL

Exploded View



- 1. Slide door upper guide rail
- 4. Rear floor step assembly
- 7. Slide door rail cover
- : N·m (kg-m, in-lb)

- 2. Slide door lower guide rail
- 5. TORX bolt

- 3. Slide door lower striker
- 6. Slide door rear guide rail

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●: ▲: Indicates that the part is connected at points with same symbol in actual vehicle.

# SLIDE DOOR UPPER GUIDE RAIL

# SLIDE DOOR UPPER GUIDE RAIL: Removal and Installation

**CAUTION:** 

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing slide door assembly, support door with a jack and shop cloth to protect door and body.
- Perform the following procedures after replacing guide rail.
- Paint rail the same color as the vehicle body.
- Apply grease to the roller rotating portion.
- Apply anti-corrosion treatment to installation surface between body panel and rail.
- Adjust fitting of slide door after installation. Refer to <u>DLK-433, "DOOR ASSEMBLY: Adjustment"</u>.

#### **REMOVAL**

- 1. Remove headlining. Refer to <a href="INT-35">INT-35</a>, "Removal and Installation".
- Remove slide door assembly. Refer to <u>DLK-431</u>, "<u>DOOR ASSEMBLY</u>: <u>Removal and Installation</u>".

# SLIDE DOOR GUIDE RAIL

# < REMOVAL AND INSTALLATION >

- 3. Remove slide door upper stopper. Refer to <u>DLK-440</u>, "<u>SLIDE DOOR UPPER STOPPER</u>: Removal and Installation".
- 4. Remove upper roller assembly and sub roller as a set. Refer to <u>DLK-434, "UPPER ROLLER: Removal</u> and Installation".
- 5. Remove mounting nuts, and then remove slide door upper guide rail.

#### INSTALLATION

Install in the reverse order of removal.

SLIDE DOOR REAR GUIDE RAIL

# SLIDE DOOR REAR GUIDE RAIL: Removal and Installation

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#### **CAUTION:**

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing slide door assembly, support door with a jack and shop cloth to protect door and body.
- Perform the following procedures after replacing guide rail.
- Paint rail the same color as the vehicle body.
- Apply anti-corrosion treatment to installation surface between body panel and rail.
- Adjust fitting of slide door after installation. Refer to <u>DLK-433</u>, "<u>DOOR ASSEMBLY</u>: <u>Adjustment</u>".

#### REMOVAL

- 1. Remove slide door assembly. Refer to <a href="DLK-431">DLK-431</a>, "DOOR ASSEMBLY: Removal and Installation".
- Remove slide door rail cover. Refer to <u>EXT-43</u>, "Removal and Installation".
- Remove rear roller. Refer to DLK-435, "REAR ROLLER: Removal and Installation".
- 4. Remove luggage side lower finisher. Refer to <a href="INT-43">INT-43</a>, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation".
- Remove mounting TORX bolts and nuts, and then remove slide door rear guide rail.

#### INSTALLATION

Install in the reverse order of removal.

SLIDE DOOR LOWER GUIDE RAIL

# SLIDE DOOR LOWER GUIDE RAIL: Removal and Installation

INFOID:0000000011322256

# **CAUTION:**

- · Perform work with 2 workers, because of its heavy weight.
- When removing and installing slide door assembly, support door with a jack and shop cloth to protect door and body.
- · Perform the following procedures after replacing guide rail.
- Paint rail the same color as the vehicle body.
- Apply anti-corrosion treatment to installation surface between body panel and rail.
- Apply anti-corrosion treatment to each end of mounting nuts and stud bolts of rail.
- Adjust fitting of slide door after installation. Refer to <u>DLK-433, "DOOR ASSEMBLY: Adjustment"</u>.

#### REMOVAL

- 1. Remove slide door assembly. Refer to <u>DLK-431</u>, "DOOR ASSEMBLY: Removal and Installation".
- Remove rear kicking plate. Refer to INT-22, "KICKING PLATE: Removal and Installation".
- 3. Remove mounting bolts, and then remove rear floor step assembly.
- 4. Remove slide door lower striker. Refer to <u>DLK-439</u>, "SLIDE DOOR LOWER STRIKER: Removal and Installation".
- 5. Remove slide door lower stopper. Refer to <u>DLK-439</u>, "SLIDE DOOR LOWER STOPPER: Removal and <u>Installation"</u>.
- Remove lower roller. Refer to DLK-435, "LOWER ROLLER: Removal and Installation".
- 7. Remove mounting nuts, and then remove slide door lower guide rail.

### INSTALLATION

Install in the reverse order of removal.

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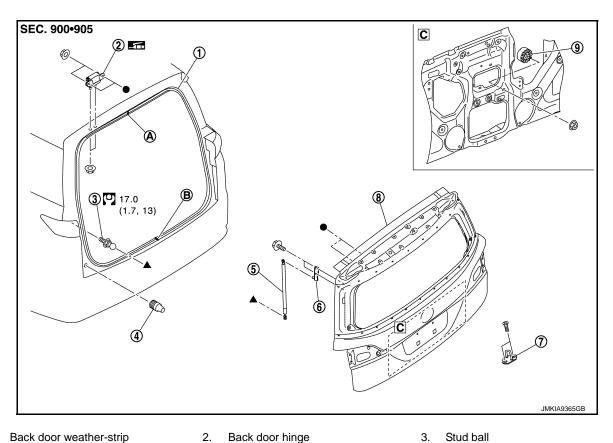
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**Exploded View** INFOID:0000000011322257



- 1. Back door weather-strip
- 4. Bumper rubber
- Back door striker 7.
- Center mark A.
- Seam
- : N-m (kg-m, ft-lb)
- : Body grease
- ♠, ♠: Indicates that the part is connected at points with same symbol in actual vehicle.

5.

8.

Back door stay

Back door panel

6.

Back door stay bracket

Back door damper

# **BACK DOOR ASSEMBLY**

# BACK DOOR ASSEMBLY: Removal and Installation

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# **CAUTION:**

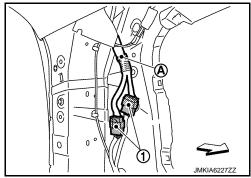
- Operate with two workers, because of its heavy weight.
- Use protective tape or cloth to protect from damage during remove and installation.

# **REMOVAL**

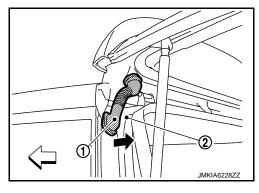
- Remove back door support rod (back door side). Refer to DLK-470, "BACK DOOR SUPPORT ROD : Removal and Installation" (automatic back door models).
- Remove back pillar garnish LH and RH. Refer to INT-27, "BACK PILLAR GARNISH: Removal and Installation".

# < REMOVAL AND INSTALLATION >

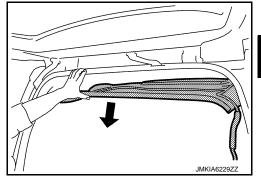
3. Disconnect harness connectors (1) and remove harness fixing clip (A).



4. Remove grommet (1), and then pull out harness from back main pillar (2).



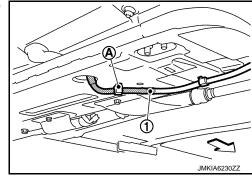
- 5. Lower rear portion of headlining and secure work space.
- a. Remove rear pillar garnish LH and RH. Refer to <a href="INT-27">INT-27</a>, "REAR PILLAR GARNISH: Removal and Installation".
- b. Remove roof side garnish LH and RH. Refer to <a href="INT-28">INT-28</a>, "ROOF SIDE GARNISH: Removal and Installation".
- c. Remove upper side of back door weather-strip. Refer to <u>DLK-450, "BACK DOOR WEATHER-STRIP: Removal and Installation"</u>.
- d. Remove second assist grips LH and RH, third assist grips LH and RH and third seat belt finisher LH and RH, and then remove rear portion of headlining. Refer to <u>INT-35</u>, "Removal and Installation".



6. Remove fixing clip (A), and then disconnect rear washer tube (1).

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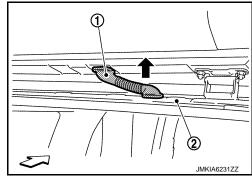
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# < REMOVAL AND INSTALLATION >

7. Remove grommet (1), and then pull out washer tube from roof panel (2).



8. Support back door lock with the proper material to prevent it from falling.

### **WARNING:**

Body injury may occur if no supporting rod is holding the back door open when removing the back door stay.

- 9. Remove back door stay (back door side). Refer to <u>DLK-449</u>, "BACK DOOR STAY: Removal and Installation".
- 10. Remove back door hinge mounting nuts on back door and remove back door assembly.

# **INSTALLATION**

Note the following items, and then install in the reverse order of removal.

#### **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- Check back door open/close, lock/unlock operation after installation.
- After installation, perform fitting adjustment. Refer to <u>DLK-447</u>, "<u>BACK DOOR ASSEMBLY</u>: <u>Adjustment</u>".

# **BACK DOOR ASSEMBLY: Adjustment**

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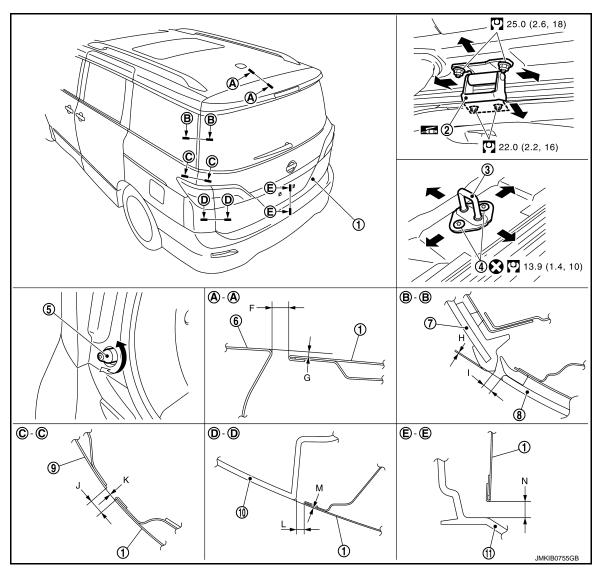
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- 1. Back door
- 4. TORX bolt
- 7. Side window glass
- 10. Sight shield

- 2. Back door hinge
- 5. Bumper rubber
- 8. Back door glass
- 1. Rear bumper fascia
- 3. Back door striker
- 6. Roof panel
- 9. Slide door rail cover

: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

: Body grease

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.

Portion				Standard	Difference (RH/LH)
Back door – Roof panel	<b>A</b> – <b>A</b>	F	Clearance	5.5 – 8.5 mm (0.217 – 0.335 in)	_
		G	Surface height	0.0 – 2.0 mm (0.000 – 0.079 in)	_

Revision: 2014 August DLK-447 2015 QUEST

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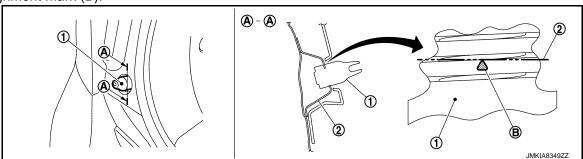
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Portion				Standard	Difference (RH/LH)
Back door glass – Side window glass	B – B	Н	Surface height	(-1.6) - (+2.4) mm [(-0.063) - (+0.094) in]	1.5 mm (0.059 in)
			Clearance	3.0 – 7.0 mm (0.118 – 0.276 in)	_
Back door – Slide door rail cover	C – C	J	Clearance	4.0 – 8.0 mm (0.157 – 0.315 in)	_
		K	Surface height	(-1.5) - (+1.5) mm [(-0.059) - (+0.059) in]	_
Back door – Sight shield	D – D	L	Clearance	3.3 – 6.7 mm (0.130 – 0.264 in)	_
		M	Surface height	(-1.7) - (+1.7) mm [(-0.067) - (+0.067) in]	_
Back door – Rear bumper fascia	E-E	N	Clearance	6.0 – 10.0 mm (0.236 – 0.394 in)	_

#### FITTING ADJUSTMENT PROCEDURE

- 1. Loosen back door striker mounting bolts.
- 2. Loosen back door hinge mounting nuts (back door side).
- Adjust back door using back door striker and back door hinge to the specified value, as shown in the following table.
- 4. After adjustment tighten back door striker mounting bolts and back door hinge mounting nuts (back door side) to the specified torque.
- 5. Viewing from vehicle upper, insert bumper rubber (1) into bumper rubber bracket (2) to the position of alignment mark (B).



# **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- After installation, apply touch-up paint (the body color) onto the head of back door hinge mounting nuts.
- Adjust the following parts.
- Rear view camera.
- DISPLAY AUDIO: Refer to <u>AV-106</u>, "<u>Adjustment</u>".
- BASE AUDIO WITH SEPARATE DISPLAY: Refer to <u>AV-255, "Adjustment"</u>.
- BOSE AUDIO WITHOUT NAVIGATION: Refer to <u>AV-413, "Adjustment"</u>.
- BOSE AUDIO WITH NAVIGATION: Refer to <u>AV-516</u>, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR): Work <u>Procedure</u>".

# 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:0000000011322260

#### REMOVAL

- Remove tailgate kicking plate. Refer to <u>INT-40, "TAILGATE KICKING PLATE: Removal and Installation"</u>.
- Remove mounting TORX bolts, and then remove back door striker.

#### < REMOVAL AND INSTALLATION >

#### **INSTALLATION**

Note the following items, and then install in the reverse order of removal.

#### **CAUTION:**

- Check back door open/close operation after installation.
- When removing and installing back door striker, check to perform the fitting adjustment. Refer to DLK-447, "BACK DOOR ASSEMBLY: Adjustment".

# BACK DOOR HINGE

# BACK DOOR HINGE: Removal and Installation

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#### **CAUTION:**

- Operate with two workers, because of its heavy weight.
- Use protective tape or cloth to protect from damage during remove and installation.

#### REMOVAL

- 1. Remove back door assembly. Refer to DLK-444, "BACK DOOR ASSEMBLY: Removal and Installation".
- Remove back door hinge mounting nuts (body side), and then remove back door hinge.

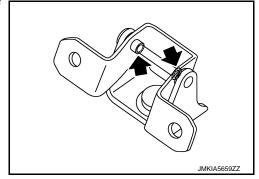
# INSTALLATION

Note the following items, and then install in the reverse order of removal.

#### **CAUTION:**

- Apply anticorrosive agent onto the mounting surface.
- Check back door open/close operation after installation.
- When removing and installing back door assembly, perform the fitting adjustment. Refer to DLK-447. "BACK DOOR ASSEMBLY : Adjustment".
- After installation, apply touch-up paint (the body color) onto the head of back door hinge mounting nuts.
- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.

: Grease up point



**BACK DOOR STAY** 

BACK DOOR STAY: Removal and Installation

INFOID:0000000011322262

### REMOVAL

Support back door lock with the proper material to prevent it from falling.

# **WARNING:**

Body injury may occur if no supporting rod is holding the back door open when removing the back door stay.

Remove back door stay mounting bolts.

# **CAUTION:**

Be careful not to damage painted surface.

**DLK-449** Revision: 2014 August **2015 QUEST** 

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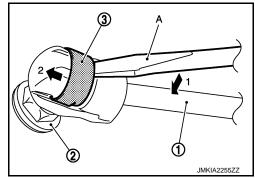
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#### < REMOVAL AND INSTALLATION >

3. Remove the metal clip (3) located on the connection between the back door stay (1) and the stud ball (2) (body side) by using a flat-bladed screwdriver (A).

#### **CAUTION:**

Be careful not to damage painted surface.



4. Remove back door stay.

#### INSTALLATION

Note the following item, and then install in the reverse order of removal.

### **CAUTION:**

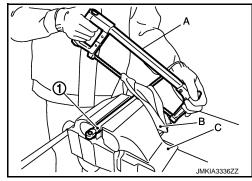
Check back door open/close operation after installation.

# **BACK DOOR STAY: Disposal**

- 1. Fix back door stay (1) using a vise (C).
- 2. Using hacksaw (A) slowly make 2 holes in the back door stay, in numerical order as shown in the figure.

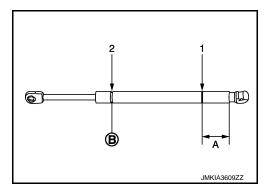
#### **CAUTION:**

- When cutting a hole on back door stay, always cover a hacksaw using a shop cloth (B) to avoid scattering metal fragments or oil.
- · Wear eye protection (safety glasses).
- · Wear gloves.



A: 20 mm (0.787 in)

B: Cut at the groove.



# BACK DOOR WEATHER-STRIP

# BACK DOOR WEATHER-STRIP: Removal and Installation

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#### **REMOVAL**

- Remove back door support rod (back door side). Refer to <u>DLK-470, "BACK DOOR SUPPORT ROD:</u> Removal and Installation".
- 2. Pull up and remove engagement with body from weather-strip joint.

Never pull strongly on weather-strip.

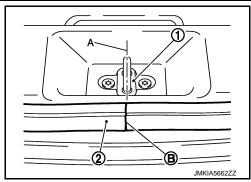
#### INSTALLATION

1. Working from the upper section, align weather-strip center mark with vehicle center position mark and install weather-strip onto the vehicle.

Revision: 2014 August DLK-450 2015 QUEST

# < REMOVAL AND INSTALLATION >

2. Align the connecting point (B) of weather-strip (2) to the center (A) of striker (1), and then install as shown in the figure.



3. Pull weather-strip gently to ensure that there is no loose section. **NOTE:** 

Check that weather-strip is fit tightly at each corner and tailgate kicking plate.

4. Install back door support rod (back door side). Refer to <u>DLK-470, "BACK DOOR SUPPORT ROD:</u> Removal and Installation".

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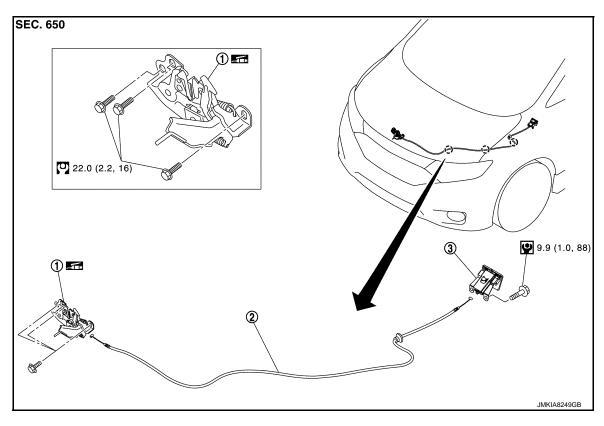
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# **HOOD LOCK**

Exploded View



- 1. Hood lock assembly
- 2. Hood lock control cable
- 3. Hood lock control handle

( ) : Clip

: N·m (kg-m, in-lb)

: N·m (kg-m, ft-lb)

: Body grease

# HOOD LOCK

# **HOOD LOCK**: Removal and Installation

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# **REMOVAL**

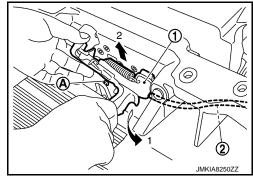
- 1. Remove front grille. Refer to EXT-18, "Removal and Installation".
- Remove mounting bolts, and then remove hood lock assembly (1).

# NOTE:

Press the lever downward to avoid pin (A), then pull out hood lock assembly upward.

### **CAUTION:**

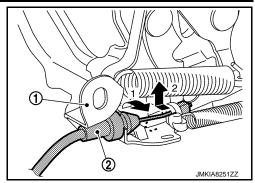
Never bend hood lock control cable (2) strongly.



# **HOOD LOCK**

#### < REMOVAL AND INSTALLATION >

 Disconnect hood lock control cable (2) from hood lock assembly (1).



#### INSTALLATION

Note the following items, and then install in the reverse order of removal. **CAUTION:** 

- After installation, perform hood fitting adjustment. Refer to <u>DLK-418</u>, "HOOD ASSEMBLY: Adjustment".
- After installation, perform hood lock control inspection. Refer to <u>DLK-454, "Inspection"</u>. HOOD LOCK CONTROL CABLE

# HOOD LOCK CONTROL CABLE: Removal and Installation

INFOID:0000000011322267

#### **REMOVAL**

- 1. Disconnect hood lock control cable from hood lock assembly. Refer to <a href="DLK-452">DLK-452</a>, "HOOD LOCK: Removal and Installation".
- Remove fender protector LH (front and rear). Refer to EXT-23, "Removal and Installation".
- 3. Remove hood lock cable fixing clips.
- 4. Disconnect hood lock control cable from hood lock control handle. Refer to <a href="DLK-454">DLK-454</a>, "HOOD LOCK CONTROL HANDLE: Removal and Installation".
- Remove grommet on the lower dash, and pull the hood lock control cable toward the passenger compartment.

# **CAUTION:**

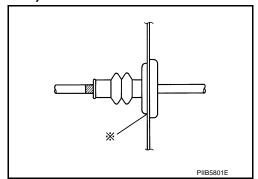
While pulling, never to damage (peeling) the outside of hood lock control cable.

#### INSTALLATION

Note the following items, and install in the reverse order of removal.

#### **CAUTION:**

- Never to bend cable too much, keeping the radius 100 mm (3.937 in) or more.
- Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (at \* mark) properly.



- Check that hood lock control cable is properly engaged with hood lock.
- After installation, perform hood fitting adjustment. Refer to <u>DLK-418, "HOOD ASSEMBLY: Adjust-ment"</u>.
- After installation, perform hood lock control inspection. Refer to <u>DLK-454, "Inspection"</u>.
   HOOD LOCK CONTROL HANDLE

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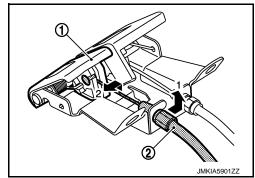
Revision: 2014 August DLK-453 2015 QUEST

# HOOD LOCK CONTROL HANDLE: Removal and Installation

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# **REMOVAL**

- 1. Remove mounting bolts, and then hood lock control handle.
- Remove fuel filler lid opener cable. Refer to <u>DLK-473</u>, "<u>FUEL FILLER OPENER CABLE</u>: <u>Removal and Installation</u>".
- 3. Remove hood lock control cable (2) from hood lock opener lever (1).



#### INSTALLATION

Note the following item, and install in the reverse order of removal.

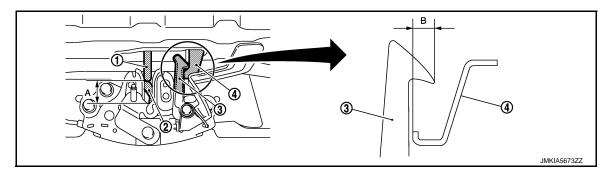
#### **CAUTION:**

After installation, perform hood lock control inspection. Refer to <u>DLK-454</u>, "Inspection".

Inspection INFOID:0000000011322269

### NOTE:

If the hood lock cable is bent or deformed, replace it.



1. Primary striker

2. Primary latch

3. Secondary latch

- 4. Secondary striker
- 1. Check that secondary latch (3) is securely engaged with securely secondary striker (4) from the dead load of the hood assembly.
- 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].
   CAUTION:

Never free-fall hood assembly from a height of 300 (11.811 in) mm or more.

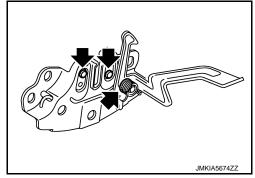
- 3. While operating the hood opener carefully, check that the front end of the hood is lifted by approximately 20 mm (0.787 in) (A). Also, check that the hood opener returns to the original position.
- Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] (B).

# **HOOD LOCK**

# < REMOVAL AND INSTALLATION >

5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.

: Grease up point



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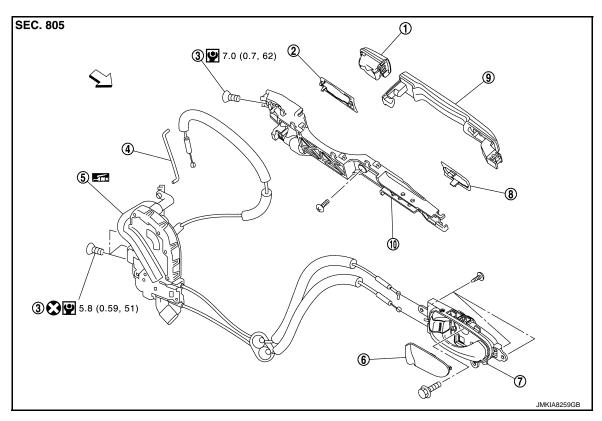
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# FRONT DOOR LOCK

**Exploded View** INFOID:0000000011322270



- 1. Door key cylinder assembly (driver
  - Outside handle escutcheon (passenger side)
- 4. Key rod (driver side)
- 7. Inside handle
- 10. Outside handle bracket
- : Always replace after every disassembly.
- : N·m (kg-m, in-lb)
- : Body grease

# DOOR LOCK

# DOOR LOCK: Removal and Installation

**REMOVAL** 

- Remove outside handle and outside handle bracket. Refer to <u>DLK-457</u>, "OUTSIDE HANDLE: Removal and Installation".
- 2. Disconnect door lock actuator connector.
- Remove door lock assembly TORX bolts, and then remove door lock assembly.

2. Rear gasket

8. Front gasket

5. Door lock assembly

#### INSTALLATION

Revision: 2014 August

Note the following items, and install in the reverse order of removal. **CAUTION:** 

Never reuse TORX bolt. Always replace it with a new one when it is removed.

3. TORX bolt

- 6. Inside handle cap
- 9. Outside handle

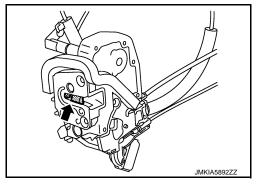
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# FRONT DOOR LOCK

#### < REMOVAL AND INSTALLATION >

- Check door open/close, lock/unlock operation after installation.
- Check door lock cable is properly engaged with outside handle bracket.
- Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

= : Grease up point



# **INSIDE HANDLE**

**INSIDE HANDLE:** Removal and Installation

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#### **REMOVAL**

- 1. Remove front door finisher. Refer to <a href="INT-14">INT-14</a>, "Removal and Installation".
- 2. Remove inside handle mounting screws, and then remove the inside handle.

# **INSTALLATION**

Note the following items, and then install in the reverse order of removal.

#### **CAUTION:**

- Check door lock cables are properly engaged with inside handle.
- After installation, check door open/close, lock/unlock operation.

### OUTSIDE HANDLE

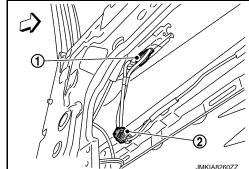
**OUTSIDE HANDLE: Removal and Installation** 

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# REMOVAL

- 1. Remove module base. Refer to GW-29, "Removal and Installation".
- 2. Disconnect key rod from door lock assembly (driver side).
- 3. Remove door antenna harness connector fixing clip (1), and then disconnect harness connector (2).

<□ : Vehicle front



4. Remove grommet (1) of door side. Loosen, through grommet hole, TORX bolt (2) that fixes door lock cylinder. (For passenger side, TORX bolt fixes outside handle escutcheon.)

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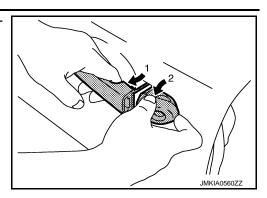
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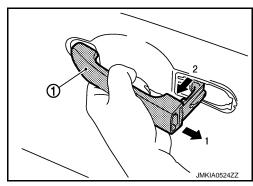
# FRONT DOOR LOCK

# < REMOVAL AND INSTALLATION >

While pulling outside handle, remove door key cylinder assembly (driver side) or outside handle escutcheon (passenger side).

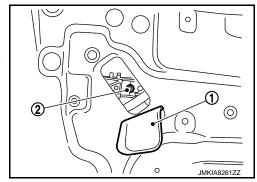


While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.

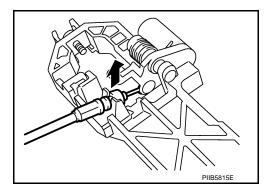


- 7. Remove front gasket and rear gasket.
- Peel hole cover (1) carefully, and then remove TORX bolt (2), which is fixing outside handle bracket, through hole.
   CAUTION:

When affixing hole cover, if affixing force is insufficient, replace hole cover.



- 9. Slide outside handle bracket toward front of vehicle to remove.
- 10. Disconnect outside handle cable from outside handle bracket.

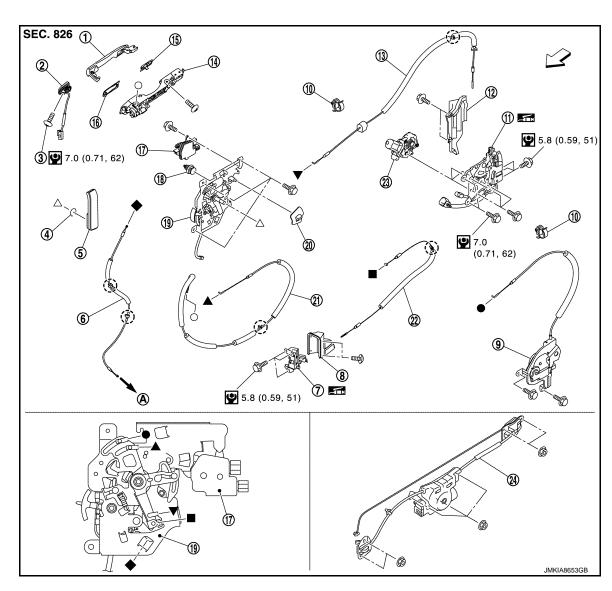


# **INSTALLATION**

Note the following items, and then install in the reverse order of removal. **CAUTION:** 

- When installing key rod, rotate key rod holder until a click is felt.
- Check door lock cable is properly engaged with outside handle bracket.
- After installation, check door open/close, lock/unlock operation.

Exploded View



- Outside handle assembly
- 4. Snap pin
- 7. Slide door lock assembly (front)
- 10. Cable clip
- 13. Slide door lock cable (rear)
- 16. Front gasket
- 19. Remote control assembly
- 22. Slide door lock cable (front)
- A : To lower latch
- ( ) : Clip
- ⟨⇒ : Vehicle front
- : N·m (kg-m, in-lb)
- : Body grease

- 2. Outside handle escutcheon
- 5. Inside handle
- 8. Slide door lock cover (front)
- 11. Slide door lock assembly (rear)
- 14. Outside handle bracket
- 17. Slide door lock actuator
- 20. Lock knob
- 23. Slide door closure motor

- 3. TORX bolt
- 6. Remote control door lock cable
- 9. Slide door lock release actuator
- 12. Slide door lock cover (rear)
- 15. Rear gasket
- 18. Clip
- 21 Outside handle cable
- 24. Automatic sliding door unit

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●, ▲, ■: Indicates that the part is connected at points with same symbol in actual vehicle.

# **CAUTION:**

# < REMOVAL AND INSTALLATION >

- Apply anticorrosive agent onto the mounting surface.
- During removal and installation, work so as not to bend the ends of the cable.
- After installation, check door open/close, lock/unlock operation.
- Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

# DOOR LOCK

DOOR LOCK: Removal and Installation

INFOID:0000000011322275

# SLIDE DOOR LOCK ASSEMBLY (FRONT)

#### Removal

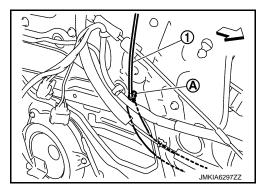
- 1. Fully close the slide door glass.
- 2. Remove remote control assembly. Refer to <a href="DLK-466">DLK-466</a>, "REMOTE CONTROL ASSEMBLY: Removal and Installation".
- Remove lock release actuator. Refer to <u>DLK-467</u>, "LOCK <u>RELEASE ACTUATOR</u>: Removal and <u>Installation</u>".
- 4. Remove sealing screen.

#### NOTE:

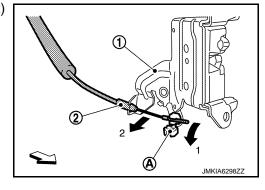
Cut the butyl-tape so that some parts of the butyl-tape do not remain on the sealing screen, if the sealing screen is reused.

5. Remove cable fixing clip (A) of slide door lock cable (1).

: Vehicle front



- Remove mounting bolt, and then remove slide door lock assembly (front) and slide door lock cable (front) as a set.
- 7. Disconnect slide door lock cable (front) from slide door lock assembly (front).
- Remove fixing screw, and then remove slide door lock cover (front)
- b. Open cable mounting clip (A) of slide door lock assembly (front) (1).
- Disconnect slide door lock cable (front) (2).



### Installation

Note the following items, and then install in the reverse order of removal.

# CAUTION:

- Always adjust cable when assembling slide door lock cable (front) to slide door lock assembly (front). Refer to <u>DLK-462</u>, "<u>DOOR LOCK</u>: <u>Inspection and Adjustment</u>".
- After installation, check door open/close, lock/unlock operation.

### SLIDE DOOR LOCK ASSEMBLY (REAR)

#### Removal

Fully close the slide door glass.

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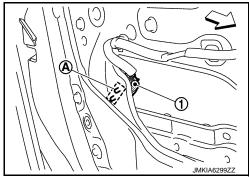
# < REMOVAL AND INSTALLATION >

- 2. Remove remote control assembly. Refer to <u>DLK-466, "REMOTE CONTROL ASSEMBLY: Removal and Installation".</u>
- 3. Remove lock release actuator. Refer to <a href="DLK-467">DLK-467</a>, "LOCK RELEASE ACTUATOR: Removal and Installation".
- 4. Remove sealing screen.

#### NOTE:

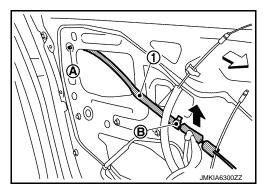
Cut the butyl-tape so that some parts of the butyl-tape do not remain on the sealing screen, if the sealing screen is reused.

5. Remove harness connector fixing clip (A), and then disconnect slide door lock assembly harness connector (1).

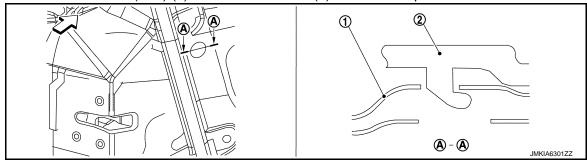


- Remove cable fixing clip (A)
- 7. Disengage slide door lock cable (rear) (1) from cable clip (B).

⟨⇒ : Vehicle front



- 8. Remove door lower sash (rear) of slide door glass. Refer to GW-32, "Exploded View".
- 9. Remove mounting bolt, and then remove slide door lock assembly (rear) and slide door lock cable (rear) as a set.
- a. Remove slide door lock (rear) mounting bolts.
- b. Remove slide door lock (rear) (2) from reinforcement (1) of slide door panel



- : Vehicle front
- 10. Disconnect slide door lock cable (rear) from slide door lock assembly (rear).
- a. Remove fixing screw, and then remove slide door lock cover (rear)

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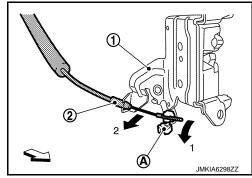
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# < REMOVAL AND INSTALLATION >

- b. Open cable mounting clip (A) of slide door lock assembly (rear) (1).
- c. Disconnect slide door lock cable (rear) (2).

: Vehicle front



- 11. Remove slide door closure motor from slide door lock assembly (rear).
- Disconnect harness connector of slide door closure motor.
- b. Remove mounting molts, and then slide door closure motor.

#### Installation

Note the following items, and then install in the reverse order of removal.

#### **CAUTION:**

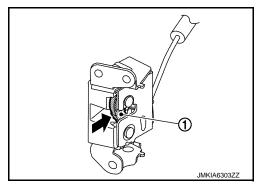
- Always adjust cable when assembling slide door lock cable (rear) to slide door lock assembly (rear).
   Refer to <u>DLK-462</u>, "<u>DOOR LOCK</u>: <u>Inspection and Adjustment</u>".
- After installation, check door open/close, lock/unlock operation.

# DOOR LOCK: Inspection and Adjustment

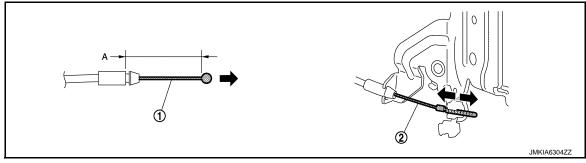
INFOID:0000000011322276

# ADJUSTMENT OF SLIDE DOOR LOCK CABLE (FRONT)

- Temporarily install slide door lock cable (front) to slide door lock assembly (front).
- 2. Set claw (1) of slide door lock assembly (front) to full latch status. (Press until it clicks.)



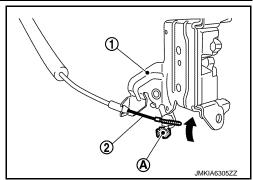
3. Pull lightly inner cable (1) of remote control assembly side in the direction indicated by arrow as shown in the figure so that play is eliminated. With play eliminated, adjust projection (A) by moving inner cable (2) of slide door lock assembly (front) side.



A : 45.8 – 47.2 mm (1.803 – 1.852 in)

# < REMOVAL AND INSTALLATION >

4. After the adjustment, close cable mounting clip (A) of slide door lock assembly (front) (1) and fix inner cable (2).



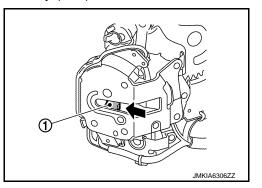
#### **CAUTION:**

Check the following items after assembling slide door lock assembly (front) to slide door panel.

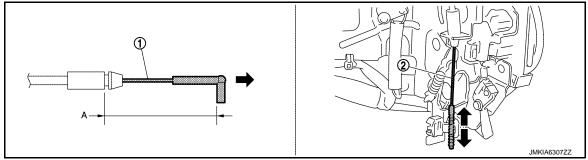
- Check that there is no slack in remote control assembly and inner cable.
- Check that no pulling tension by inner cable is applied to lever of remote control assembly.

# ADJUSTMENT OF SLIDE DOOR LOCK CABLE (REAR)

- 1. Temporarily install slide door lock cable (rear) to slide door lock assembly (rear).
- 2. Set claw (1) of slide door lock assembly (front) to full latch status. (Press until it clicks.)

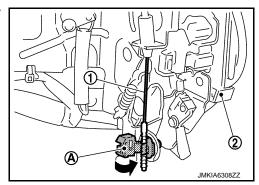


 Pull lightly inner cable (1) of remote control assembly side in the direction indicated by arrow as shown in the figure so that play is eliminated. With play eliminated, adjust projection (A) by moving inner cable (2) of slide door lock assembly (rear) side.



A : 49.5 – 50.9 mm (1.949 – 2.004 in)

 After the adjustment, close cable mounting clip (A) of slide door lock assembly (front) (2) and fix inner cable (1).



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#### < REMOVAL AND INSTALLATION >

Check the following items after assembling slide door lock assembly (rear) to slide door panel.

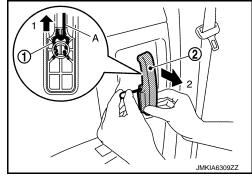
- Check that there is no slack in remote control assembly and inner cable.
- Check that no pulling tension by inner cable is applied to lever of remote control assembly.
   INSIDE HANDLE

# **INSIDE HANDLE:** Removal and Installation

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#### REMOVAL

- 1. Hang snap pin (1) on hook and pick tool (A) and pull it up to remove.
- 2. Remove inside handle (2)



#### INSTALLATION

Note the following item, and then install in the reverse order of removal.

#### **CAUTION:**

After installation, check door open/close, lock/unlock operation.

### OUTSIDE HANDLE

# **OUTSIDE HANDLE: Removal and Installation**

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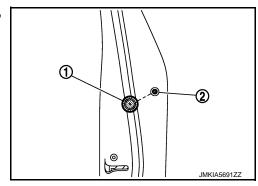
### **REMOVAL**

- Fully close slide door glass.
- 2. Remove remote control assembly. Refer to <u>DLK-466, "REMOTE CONTROL ASSEMBLY: Removal and Installation".</u>
- 3. Remove upper side of sealing screen.

# NOTE:

Cut the butyl-tape so that some parts of the butyl-tape do not remain on the sealing screen, if the sealing screen is reused.

- 4. Remove fixing clip of sliding door one-touch open/close switch harness connector, and then disconnect sliding door one-touch open/close switch harness connector.
- 5. Remove grommet (1) door side. Loosen, through grommet hole, TORX bolt (2) that fixes outside handle escutcheon.

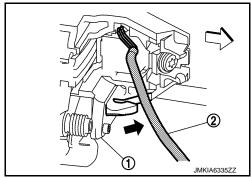


6. Remove outside handle escutcheon.

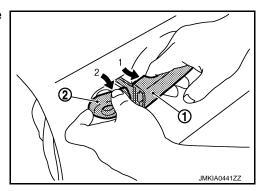
# < REMOVAL AND INSTALLATION >

a. Disconnect sliding door one-touch open/close switch harness connector (2) from outside handle bracket (1).

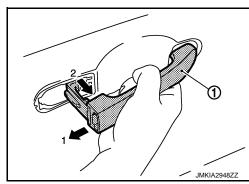
⟨⇒ : Vehicle front



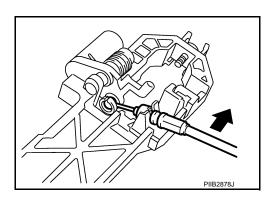
b. While pulling outside handle (1), remove outside handle escutcheon (2).



7. While pulling outside handle (1), slide toward front of vehicle to remove outside handle.



- 8. Remove front gasket and rear gasket.
- 9. Through the hole, remove TORX bolt that is fixing outside handle bracket.
- 10. Slide outside handle bracket toward rear of vehicle to remove.
- 11. Disconnect outside handle cable from outside handle bracket.



**INSTALLATION** 

Note the following item, and then install in the reverse order of removal.

After installation, check door open/close, lock/unlock operation. REMOTE CONTROL ASSEMBLY

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# REMOTE CONTROL ASSEMBLY: Removal and Installation

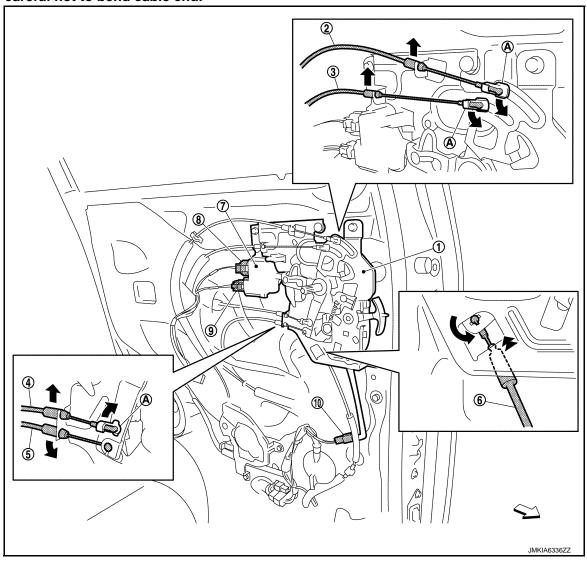
INFOID:0000000011322279

# **REMOVAL**

- 1. Remove slide door finisher. Refer to INT-17, "Removal and Installation".
- 2. Pull lock knob toward passenger room side and remove.
- Disengage cable holder (A), and then separate lock release actuator cable (2), outside handle cable (3), slide door lock cable (rear) (4), slide door lock cable (front) (5) and lower latch cable (6) from remote control assembly (1).

# **CAUTION:**

Be careful not to bend cable end.



- 4. Disconnect harness connector (8) and (9) (automatic sliding door models) of slide door lock actuator (7).
- 5. Disconnect remote control assembly harness connector (10) (automatic sliding door models).
- Remove mounting bolts and mounting clips. Remove remote control assembly and slide door lock actuator as a set.

#### INSTALLATION

Note the following item, and then install in the reverse order of removal.

**CAUTION:** 

After installation, check door open/close, lock/unlock operation. LOCK RELEASE ACTUATOR

# < REMOVAL AND INSTALLATION >

# LOCK RELEASE ACTUATOR: Removal and Installation

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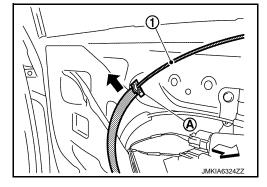
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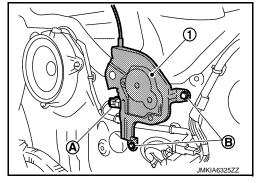
# **REMOVAL**

- 1. Remove slide door finisher. Refer to INT-17, "Removal and Installation".
- Disconnect cable of lock release actuator from remote control assembly. Refer to <u>DLK-466</u>, "<u>REMOTE</u> CONTROL ASSEMBLY: Removal and Installation".
- 3. Disengage lock release actuator cable (1) from cable clip (A).

⟨⇒ : Vehicle front



- Disconnect harness connector (A) from lock release actuator (1).
- Remove mounting bolts (B), and then remove lock release actuator



#### INSTALLATION

Note the following item, and then install in the reverse order of removal.

#### **CAUTION:**

After installation, check door open/close, lock/unlock operation.

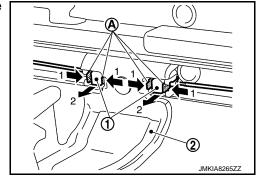
# AUTOMATIC SLIDING DOOR UNIT

# AUTOMATIC SLIDING DOOR UNIT: Removal and Installation

INFOID:0000000011322281

#### **REMOVAL**

- 1. Remove luggage side lower finisher. Refer to <a href="INT-43">INT-43</a>, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation".
- 2. Remove rear ventilator pillar duct. Refer to VTL-8, "Exploded View". (automatic sliding door unit RH only)
- 3. Separate rear roller from slide door assembly. Refer to <u>DLK-435, "REAR ROLLER: Removal and Installation".</u>
- 4. Disconnect cable holder of automatic sliding door unit from rear roller.
- a. Disengage pawl (A) of cable holder (1), and then remove cable holder from rear roller (2).



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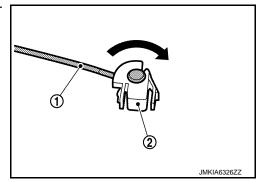
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Revision: 2014 August DLK-467 2015 QUEST

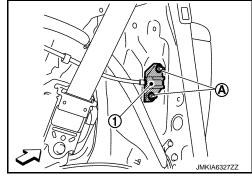
# < REMOVAL AND INSTALLATION >

b. Remove cable holder (2) from cable (1) of automatic sliding door



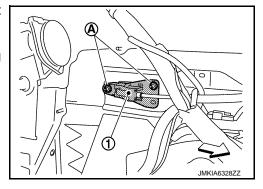
 Remove mounting nut (A) of front pulley (1), and then pull front side cable of automatic sliding door unit into the vehicle.
 CAUTION:

Be careful not to damage body paint surface when pulling cable into the vehicle.



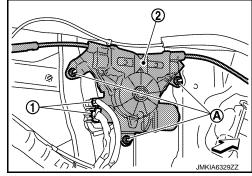
Remove mounting nut (A) of rear pulley (1), and then pull front side cable of automatic sliding door unit into the vehicle. CAUTION:

Be careful not to damage body paint surface when pulling cable into the vehicle.



- 7. Disconnect harness connector (1) from automatic sliding door unit (2).
- 8. Remove mounting nuts (A), and then remove automatic sliding door unit.

: Vehicle front



#### INSTALLATION

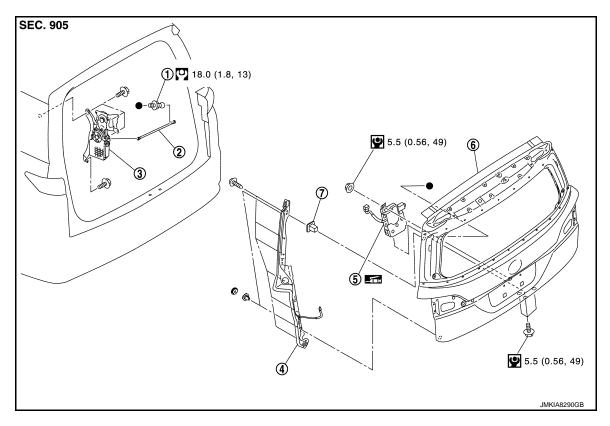
Note the following item, and then install in the reverse order of removal.

# **CAUTION:**

After installation, check door open/close, lock/unlock operation.

# **BACK DOOR LOCK**

**Exploded View** INFOID:0000000011322282



2. Back door support rod

Back door lock assembly

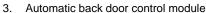
- Stud ball
- 4. Touch sensor
- Screw grommet
- : N·m (kg-m, in-lb)
- : N·m (kg-m, ft-lb)
- : Body grease
- Indicates that the part is connected at points with same symbol in actual vehicle.

# DOOR LOCK

# DOOR LOCK: Removal and Installation

### **REMOVAL**

- Remove back door lower finisher. Refer to INT-48, "BACK DOOR LOWER FINISHER: Removal and Installation".
- 2. Disconnect harness connector (1), and then remove harness fixing clip (A) and harness connector fixing clip.
  - : Vehicle front



6. Back door assembly

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#### **BACK DOOR LOCK**

#### < REMOVAL AND INSTALLATION >

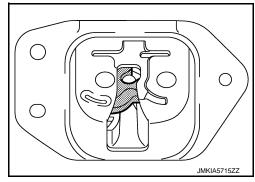
Remove back door lock mounting bolts and nut, and then remove back door lock assembly.

#### INSTALLATION

Note the following items, and then install in the reverse order of removal.

#### **CAUTION:**

- Check back door open/close, lock/unlock operation after installation.
- Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.



### BACK DOOR SUPPORT ROD

# BACK DOOR SUPPORT ROD: Removal and Installation

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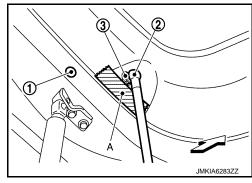
#### **REMOVAL**

1. Remove stud ball (3) of back door support rod (2) from back door assembly (1).

#### **CAUTION:**

Apply protective tape (A) on the door panel to protect the painted surface from damage.





Remove automatic back door control module. Refer to <u>DLK-488, "Removal and Installation"</u>.

When replacing back door support rod, replace stud ball and automatic back door control module as a set, since back door support rod is engaged and connected to stud ball and automatic back door control module.

#### INSTALLATION

Note the following items, and then install in the reverse order of removal.

#### **CAUTION:**

- When reusing stud ball, always apply locking sealant before installing stud ball to back door.
- Check back door open/close operation after installation.

#### TOUCH SENSOR

# **TOUCH SENSOR: Removal and Installation**

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#### **CAUTION:**

Take care not to bend touch sensor.

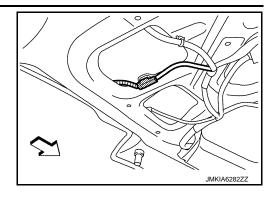
#### REMOVAL

- 1. Remove back door lower finisher. Refer to <a href="INT-48">INT-48</a>, "BACK DOOR LOWER FINISHER: Removal and Installation".
- Disconnect touch sensor harness connector.

#### **BACK DOOR LOCK**

#### < REMOVAL AND INSTALLATION >

: Vehicle front



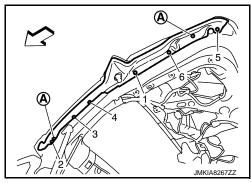
- 3. Remove fixing clips and screws of touch sensor.
- 4. Pull harness of touch sensor out of back door and remove touch sensor.

#### INSTALLATION

Note the following items, and then install in the reverse order of removal. **CAUTION:** 

• After installing touch sensor using fixing clips (A), tighten fixing screws in numerical order as shown in the figure.

⟨□ : Vehicle front



• Check back door open/close operation after installation. EMERGENCY LEVER

**EMERGENCY LEVER: Unlock procedures** 

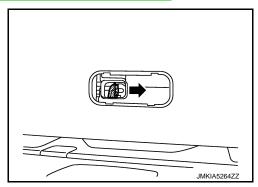
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#### **UNLOCK PROCEDURES**

#### NOTE:

If back door lock cannot be unlocked due to a malfunction or battery discharge, follow the procedures to unlock back door.

- Remove the emergency lid. Refer to <u>INT-50, "EMERGENCY LID: Removal and Installation"</u>.
- 2. From inside the vehicle, rotate emergency lever toward lower direction and unlock.



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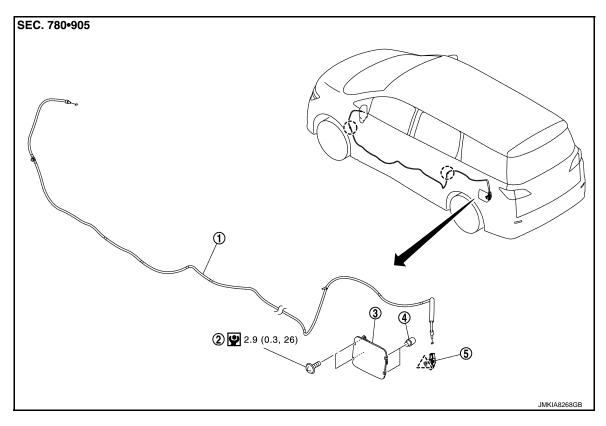
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Revision: 2014 August DLK-471 2015 QUEST

# **FUEL FILLER LID OPENER**

Exploded View



- 1. Fuel filler lid opener cable
- 4. Bumper rubber
- (\_) : Clip
- ∠^`\_ : Pawl
- : N·m (kg-m, in-lb)

- 2. TORX bolt
- 5. Fuel filler lid lock assembly
- 3. Fuel filler lid assembly

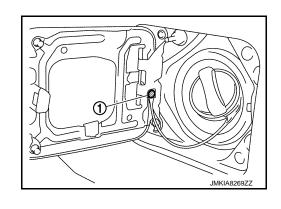
### **CAUTION:**

After installation, check fuel filler lid assembly open/close, lock/unlock operation. FUEL FILLER LID

FUEL FILLER LID: Removal and Installation

#### **REMOVAL**

- 1. Fully open fuel filler lid.
- 2. Remove fuel mounting pin (1).



INFOID:0000000011322288

#### **FUEL FILLER LID OPENER**

#### < REMOVAL AND INSTALLATION >

Remove mounting screws, and then remove fuel filler lid.

#### INSTALLATION

Note the following item, and install in the reverse order of removal.

#### **CAUTION:**

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.

	Clearance	Evenness
Fuel filler lid – Body side outer	2.0 – 4.0 mm (0.079 – 0.157 in)	(-1.0) - (+1.0) mm [(-0.039) - (+0.039) in]

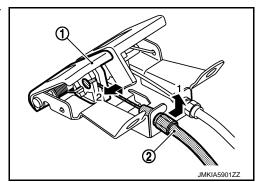
### FUEL FILLER OPENER CABLE

#### FUEL FILLER OPENER CABLE: Removal and Installation

INFOID:0000000011322289

REMOVAL

- Remove hood lock control handle from instrument lower panel LH. Refer to <u>DLK-454</u>, "HOOD LOCK **CONTROL HANDLE: Removal and Installation".**
- Remove fuel filler lid opener cable (2) from fuel filler lid opener lever (1).



- 3. Remove front kicking plate LH and rear kicking plate LH. Refer to INT-22, "KICKING PLATE: Removal and Installation".
- Remove dash side finisher LH. Refer to INT-24, "DASH SIDE FINISHER: Removal and Installation".
- Remove center pillar lower garnish LH. Refer to INT-25, "CENTER PILLAR LOWER GARNISH: Removal and Installation".
- Remove luggage side lower finisher LH. 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-473, "FUEL FILLER LID LOCK: Removal and Installation".
- Remove fuel filler lid opener cable from each harness clamp of body harness.
- 9. Remove fuel filler lid opener cable fixing clips, and then remove fuel filler lid opener cable.

#### INSTALLATION

Note the following item, and install in the reverse order of removal.

#### **CAUTION:**

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

#### FUEL FILLER LID LOCK

#### FUEL FILLER LID LOCK: Removal and Installation

INFOID:0000000011322290

#### **REMOVAL**

- 1. Fully open fuel filler lid.
- Remove luggage side lower finisher LH. Refer to <a href="INT-43">INT-43</a>, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation".

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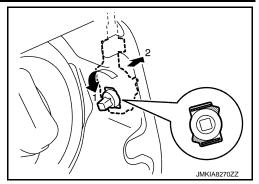
# **FUEL FILLER LID OPENER**

# < REMOVAL AND INSTALLATION >

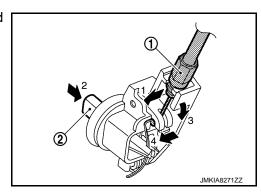
 Rotate and disengage fuel filler lid lock assembly, and then remove fuel filler lid lock assembly.

#### NOTE:

Operation is performed easily when rotating fuel filler lid lock from passenger room side.



4. Disengage fuel filler lid opener cable (1). Remove fuel filler lid opener cable while pressing stopper pin (2).



#### **INSTALLATION**

Note the following item, and install in the reverse order of removal.

#### **CAUTION:**

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

# **INTERLOCK**

# **Exploded View**

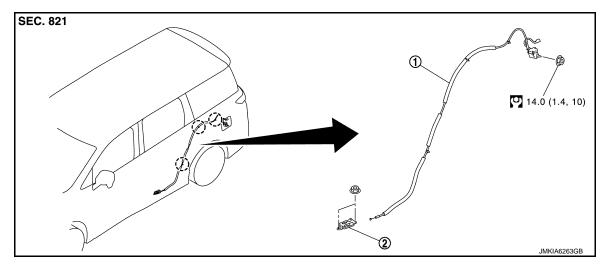
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- 1. Fuel filler inter lock assembly
- 2. Slide door inter lock

- ( ) : Clip
- : N·m (kg-m, ft-lb)

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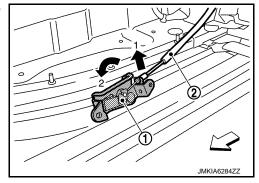
# SLIDE DOOR INTERLOCK

# SLIDE DOOR INTERLOCK: Removal and Installation

INFOID:0000000011322292

#### **REMOVAL**

- 1. Remove rear floor step assembly. Refer to <a href="INT-20">INT-20</a>, "Exploded View".
- 2. Remove slide door interlock mounting nuts.
- Disconnect cable (2) of fuel filler interlock assembly from slide door interlock (1).



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#### INSTALLATION

Note the following items, and install in the reverse order of removal.

#### **CAUTION:**

- After installation, check slide door open/close operation.
- After installation, check fuel filler lid lock/unlock operation.

#### FUEL FILLER INTERLOCK

### FUEL FILLER INTERLOCK: Removal and Installation

INFOID:0000000011322293

#### **REMOVAL**

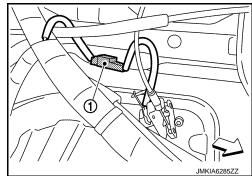
Remove slide door interlock. Refer to <u>DLK-475</u>, "SLIDE DOOR INTERLOCK: Removal and Installation".

Revision: 2014 August DLK-475 2015 QUEST

# **INTERLOCK**

#### < REMOVAL AND INSTALLATION >

- 2. Remove luggage side lower finisher. Refer to <a href="INT-43">INT-43</a>, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation".
- 3. Disconnect fuel filler lid status switch connector (1), and then remove harness connector fixing clip.



4. Fully open fuel filler lid.

#### **CAUTION:**

Check in advance that fuel filler lid does not interfere with slide door.

- 5. Remove fuel filler interlock assembly mounting nut.
- 6. Remove cable fixing clips of fuel filler inter lock, and then remove fuel filler inter lock assembly.

#### INSTALLATION

Note the following items, and install in the reverse order of removal.

#### **CAUTION:**

- After installation, check slide door open/close operation.
- After installation, check fuel filler lid lock/unlock operation.

# **KEY CYLINDER** GLOVE BOX LID KEY CYLINDER

INFOID:0000000011322294

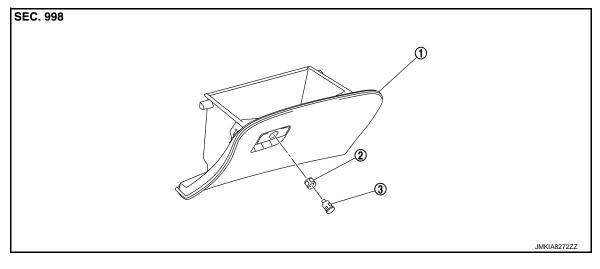
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GLOVE BOX LID KEY CYLINDER: Exploded View



1. Glove box assembly

2. Sleeve

3. Glove box lid lock cylinder

#### **CAUTION:**

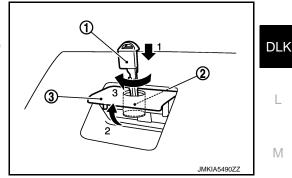
After installation, check glove box assembly open/close, lock/unlock operation.

GLOVE BOX LID KEY CYLINDER: Removal and Installation

INFOID:0000000011322295

#### **REMOVAL**

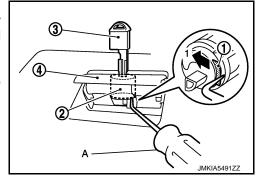
- Remove glove box assembly. Refer to IP-14, "Removal and Installation".
- 2. Insert mechanical key (1) into glove box lid lock cylinder (2).
- 3. Set glove box lid release handle (3) to the pulled-up status.
- 4. Rotate mechanical key and turn glove box lid key cylinder to the lock position.



5. Press tumbler stopper (1) into glove box lid lock cylinder (2) using a hook and pick tool (A), and then remove mechanical key (3) and glove box lid lock cylinder together from glove box lid release handle (4).

#### NOTE:

When removing glove box lid lock cylinder, write a short note describing its position against glove box lid release handle.



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# **KEY CYLINDER**

#### < REMOVAL AND INSTALLATION >

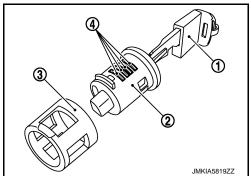
6. Remove sleeve (3) from glove box lid release handle, and then install sleeve to glove box lid lock cylinder.

#### NOTE:

When removing sleeve, write a short note describing its position against glove box lid release handle.

#### **CAUTION:**

Never pull out mechanical key (1) from glove box lid lock cylinder (2) while sleeve is uninstalled. Otherwise, tumbler (4) pops out of glove box lid lock cylinder.



#### **INSTALLATION**

Note the following item, and then install in the reverse order of removal.

#### **CAUTION:**

After installation, check glove box assembly open/close, lock/unlock operation.

# **DOOR SWITCH**

# < REMOVAL AND INSTALLATION >

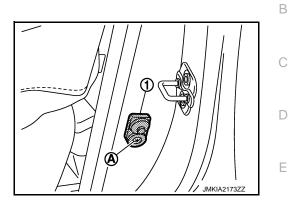
# **DOOR SWITCH**

# Removal and Installation

INFOID:0000000011322296

# **REMOVAL**

Remove the TORX bolt (A), and then remove door switch (1).



# **INSTALLATION**

Install in the reverse order of removal.

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# DOOR REQUEST SWITCH

#### < REMOVAL AND INSTALLATION >

# DOOR REQUEST SWITCH

**DRIVER SIDE** 

DRIVER SIDE: Removal and Installation

INFOID:0000000011322297

REMOVAL

Remove the driver side outside handle. Refer to <u>DLK-457</u>, "OUTSIDE HANDLE: Removal and Installation".

**INSTALLATION** 

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE: Removal and Installation

INFOID:0000000011322298

**REMOVAL** 

Remove the passenger side outside handle. Refer to <u>DLK-457</u>, "<u>OUTSIDE HANDLE</u>: <u>Removal and Installation</u>".

INSTALLATION

Install in the reverse order of removal.

**BACK DOOR** 

BACK DOOR: Removal and Installation

INFOID:0000000011322299

REMOVAL

Remove the back door finisher. Refer to EXT-47, "Removal and Installation".

**INSTALLATION** 

#### **INSIDE KEY ANTENNA**

#### < REMOVAL AND INSTALLATION >

# INSIDE KEY ANTENNA INSTRUMENT CENTER

#### INFOID:0000000011322300

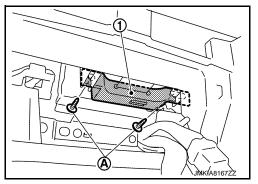
# **INSTRUMENT CENTER:** Removal and Installation

#### **REMOVAL**

- 1. Remove the instrument lower center panel. Refer to IP-14, "Removal and Installation".
- 2. Remove the inside key antenna (instrument center) mounting screw (A), and then remove inside key antenna (instrument center) (1).

#### **CAUTION:**

Be careful not to drop mounting screw (A) into instrument panel.



#### **INSTALLATION**

Install in the reverse order of removal.

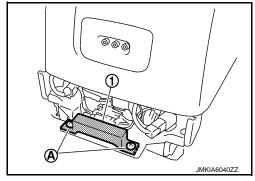
### CONSOLE

**CONSOLE**: Removal and Installation

#### INFOID:0000000011322301

#### REMOVAL

- Remove the console body assembly. Refer to <u>IP-28</u>, "Removal and Installation".
- 2. Remove the inside key antenna (console) mounting screw (A), and then remove inside key antenna (console) (1).



#### **INSTALLATION**

Install in the reverse order of removal.

#### LUGGAGE ROOM

# **LUGGAGE ROOM: Removal and Installation**

#### INFOID:0000000011322302

#### **REMOVAL**

1. Remove the rear floor carpet. Refer to INT-31, "REAR FLOOR CARPET: Removal and Installation".

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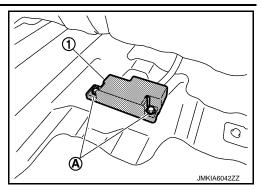
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# **INSIDE KEY ANTENNA**

# < REMOVAL AND INSTALLATION >

2. Remove the inside key antenna (luggage room) mounting screw (A), and then remove inside key antenna (luggage room) (1).



#### **INSTALLATION**

# **OUTSIDE KEY ANTENNA**

#### < REMOVAL AND INSTALLATION >

# **OUTSIDE KEY ANTENNA**

**DRIVER SIDE** 

DRIVER SIDE: Removal and Installation

PASSENGER SIDE: Removal and Installation

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**REMOVAL** 

Remove the driver side outside handle. Refer to <u>DLK-457</u>, "OUTSIDE HANDLE: Removal and Installation".

**INSTALLATION** 

Install in the reverse order of removal.

PASSENGER SIDE

REMOVAL

Remove the passenger side outside handle. Refer to <u>DLK-457, "OUTSIDE HANDLE : Removal and Installation"</u>.

INSTALLATION

Install in the reverse order of removal.

REAR BUMPER

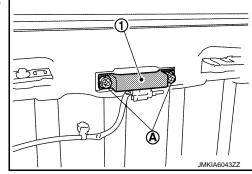
REAR BUMPER: Removal and Installation

INFOID:0000000011322305

**REMOVAL** 

1. Remove the rear bumper fascia. Refer to EXT-16, "REAR BUMPER: Removal and Installation".

2. Remove the outside key antenna (rear bumper) mounting clip (A), then remove outside key antenna (rear bumper) (1).



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**INSTALLATION** 

Install in the reverse order of removal.

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Revision: 2014 August DLK-483 2015 QUEST

# INTELLIGENT KEY WARNING BUZZER

# < REMOVAL AND INSTALLATION >

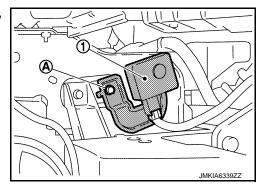
# INTELLIGENT KEY WARNING BUZZER

# Removal and Installation

#### INFOID:0000000011322306

# **REMOVAL**

- 1. Remove the front bumper fascia. Refer to EXT-12, "Removal and Installation".
- 2. Remove the Intelligent Key warning buzzer mounting bolt (A), and then remove the Intelligent Key warning buzzer (1).



#### **INSTALLATION**

# **REMOTE KEYLESS ENTRY RECEIVER**

# < REMOVAL AND INSTALLATION >

# REMOTE KEYLESS ENTRY RECEIVER

# Removal and Installation

#### INFOID:0000000011322307

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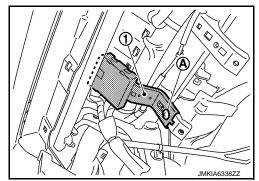
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### **REMOVAL**

- 1. Remove the glove box lid. Refer to IP-14, "Removal and Installation"
- 2. Remove the remote keyless entry receiver mounting bolt (A), and then remote keyless entry receiver (1).



#### **INSTALLATION**

Install in the reverse order of removal.

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# INTELLIGENT KEY BATTERY

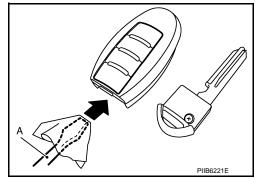
#### < REMOVAL AND INSTALLATION >

# INTELLIGENT KEY BATTERY

# Removal and Installation

Release the lock knob at the back of the Intelligent Key and remove the mechanical key.

- Insert a 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:
  - 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.



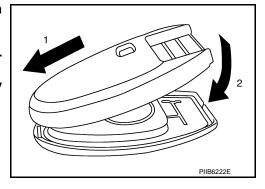
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3. Replace the battery with new one.

**Battery replacement** 

: Coin-type lithium battery (CR2025)

- 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.



Revision: 2014 August DLK-486 2015 QUEST

# **BACK DOOR CONTROL UNIT**

# < REMOVAL AND INSTALLATION >

# **BACK DOOR CONTROL UNIT**

# Removal and Installation

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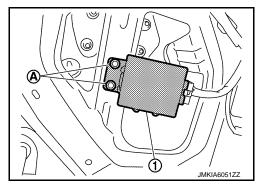
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### **REMOVAL**

- Remove the back door lower finisher. Refer to <u>INT-48</u>, "BACK DOOR LOWER FINISHER: Removal and <u>Installation"</u>.
- 2. Remove the back door control unit mounting bolt (A), and then remove the back door control unit (1).



# **INSTALLATION**

Install in the reverse order of removal.

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Revision: 2014 August DLK-487 2015 QUEST

# **AUTOMATIC BACK DOOR CONTROL MODULE**

< REMOVAL AND INSTALLATION >

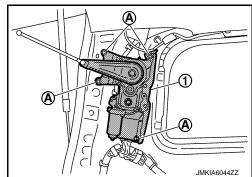
# AUTOMATIC BACK DOOR CONTROL MODULE

# Removal and Installation

INFOID:0000000011322310

#### **REMOVAL**

- 1. Remove the back pillar garnish LH. Refer to <a href="INT-27">INT-27</a>, "BACK PILLAR GARNISH: Removal and Installation".
- 2. Remove the back door support rod. Refer to <u>DLK-470, "BACK DOOR SUPPORT ROD : Removal and Installation"</u>.
- Remove the automatic back door control module mounting bolt (A), and then remove the automatic back door control module (1).



#### **INSTALLATION**

Install in the reverse order of removal.

#### NOTE:

After installing automatic back door control module, perform additional service when replace control unit. Refer to <u>DLK-169</u>, "Work <u>Procedure"</u>.

# **AUTOMATIC BACK DOOR WARNING BUZZER**

# < REMOVAL AND INSTALLATION >

# AUTOMATIC BACK DOOR WARNING BUZZER

# Removal and Installation

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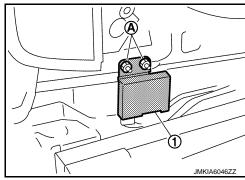
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#### **REMOVAL**

- 1. Remove the rear bumper fascia. Refer to EXT-16, "REAR BUMPER: Removal and Installation".
- 2. Remove the automatic back door warning buzzer mounting bolt (A), and then remove the automatic back door warning buzzer (1).



#### **INSTALLATION**

Install in the reverse order of removal.

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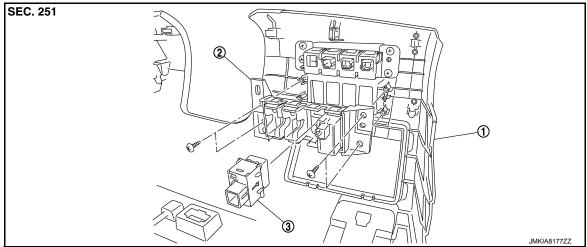
Revision: 2014 August DLK-489 2015 QUEST

# **AUTOMATIC DOOR MAIN SWITCH**

# **AUTOMATIC DOOR MAIN SWITCH**

# **Exploded View**

INFOID:0000000011322312



- 1. Instrument lower panel LH
- 2. Switch bracket lower
- 3. Automatic door main switch

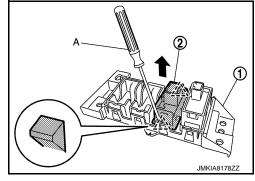
# Removal and Installation

INFOID:0000000011322313

#### **REMOVAL**

- 1. Remove the instrument lower panel LH. Refer to IP-14, "Removal and Installation".
- 2. Removed automatic door main switch (1) from switch bracket lower (2) using remover tool (A).





# **INSTALLATION**

# **AUTOMATIC BACK DOOR CLOSE SWITCH**

# < REMOVAL AND INSTALLATION >

# **AUTOMATIC BACK DOOR CLOSE SWITCH**

# Removal and Installation

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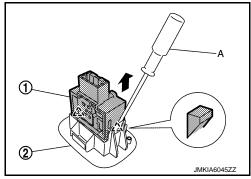
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#### **REMOVAL**

- Remove the automatic back door close switch finisher. Refer to <u>INT-48</u>, "BACK DOOR LOWER FIN-ISHER: Removal and Installation".
- 2. Remove automatic back door close switch (1) from automatic back door close switch finisher (2) using remover tool (A).





#### **INSTALLATION**

Install in the reverse order of removal.

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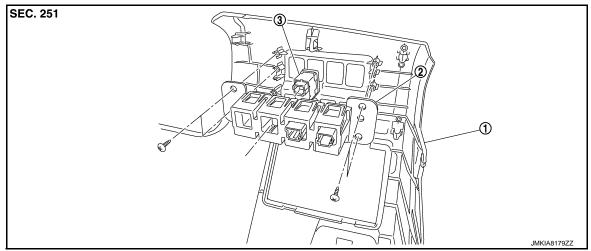
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# **AUTOMATIC BACK DOOR SWITCH**

# **AUTOMATIC BACK DOOR SWITCH**

# **Exploded View**

INFOID:0000000011322315



- 1. Instrument lower panel LH
- 2. Switch bracket upper
- 3. Automatic door switch

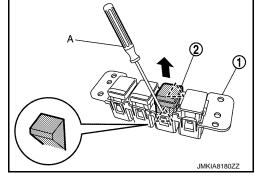
# Removal and Installation

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# **REMOVAL**

- 1. Remove the instrument driver lower panel. Refer to IP-14, "Removal and Installation".
- 2. Remove automatic back door switch (1) from switch bracket (2) using remover tool (A).





# **INSTALLATION**

#### **SLIDING DOOR CONTROL UNIT**

#### < REMOVAL AND INSTALLATION >

# **SLIDING DOOR CONTROL UNIT**

RH

#### RH: Removal and Installation

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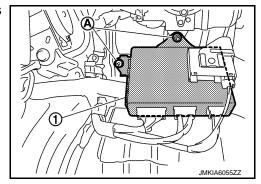
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#### REMOVAL

- 1. Remove the luggage side lower finisher RH. Refer to <a href="INT-43">INT-43</a>, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation".
- Remove the rear foot duct. Refer to VTL-14, "REAR FOOT DUCT: Removal and Installation".
- 3. Remove the sliding door control unit RH mounting bolt and nats (A), and then remove the sliding door control unit RH (1).



#### **INSTALLATION**

Install in the reverse order of removal

#### NOTE:

After installing sliding door control unit, perform additional service when replace control unit. Refer to <u>DLK-170, "Work Procedure"</u>.

LH

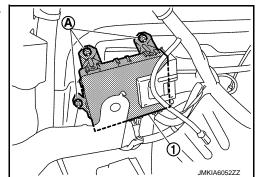
# LH: Removal and Installation

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#### REMOVAL

1. Remove the luggage side lower finisher LH. Refer to <a href="INT-43">INT-43</a>, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation".

2. Remove the sliding door control unit LH mounting bolt and nats (A), and then remove the sliding door control unit LH (1).



#### INSTALLATION

Install in the reverse order of removal

# NOTE:

After installing sliding door control unit, perform additional service when replace control unit. Refer to <u>DLK-170</u>, "Work <u>Procedure"</u>.

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Revision: 2014 August DLK-493 2015 QUEST

# SLIDING DOOR OPEN/CLOSE SWITCH

< REMOVAL AND INSTALLATION >

# SLIDING DOOR OPEN/CLOSE SWITCH

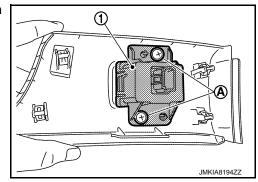
**FRONT** 

FRONT: Removal and Installation

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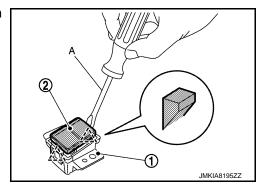
#### **REMOVAL**

- 1. Remove the instrument finisher B. Refer to IP-14, "Removal and Installation".
- 2. Remove the switch bracket lower mounting screw (A), and then remove the switch bracket lower from instrument finisher B.



3. Remove the sliding door open/close switch (front side) (2) from switch bracket lower (1) using flat-head screw driver (A).





#### **INSTALLATION**

### SLIDING DOOR LOCK ACTUATOR

# < REMOVAL AND INSTALLATION >

# SLIDING DOOR LOCK ACTUATOR

# Removal and Installation

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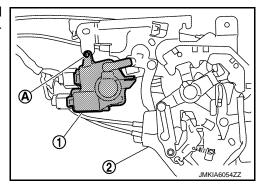
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# **REMOVAL**

- 1. Remove the remote control assembly. Refer to <u>DLK-466, "REMOTE CONTROL ASSEMBLY: Removal and Installation".</u>
- 2. Remove the sliding door lock actuator mounting screw (A), and then remove the sliding door lock actuator (1) from remote control assembly (2).



# **INSTALLATION**

Install in the reverse order of removal.

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# **AUTOMATIC SLIDING DOOR WARNING BUZZER**

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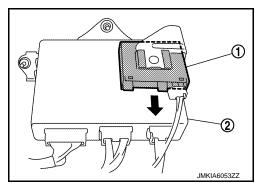
# AUTOMATIC SLIDING DOOR WARNING BUZZER

# Removal and Installation

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#### **REMOVAL**

- 1. Remove the luggage side lower finisher. Refer to <a href="INT-43">INT-43</a>, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation".
- 2. Remove automatic sliding door warning buzzer (1) from sliding door control unit (2).



# **INSTALLATION**

# SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

< REMOVAL AND INSTALLATION >

# SLIDING DOOR ONE-TOUCH OPEN/CLOSE SWITCH

# Removal and Installation

INFOID:0000000011322323

**REMOVAL** 

Remove outside handle escutcheon. Refer to <u>DLK-464</u>, "<u>OUTSIDE HANDLE</u>: <u>Removal and Installation</u>".

# **INSTALLATION**

Install in the reverse order of removal.

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