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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. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT 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 three minutes before performing any service.

Precaution for Servicing Doors and Locks

WARNING:

Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- · Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.
- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000010247360

Tool number (TechMate No.) Tool name		Description
— (J-39570) Chassis Ear	SIIAO993E	Locating the noise
 (J-50397) NISSAN Squeak and Rattle Kit	ALJIA1232ZZ	Repairing the cause of noise
 (J-43241) Remote Keyless Entry Tester		Used to test keyfobs
 (J-50190) Signal Tech II	ALEIA0131ZZ	 Activate and display TPMS transmitter IDs Display tire pressure reported by the TPMS transmitter Read TPMS DTCs Register TPMS transmitter IDs Check Intelligent Key relative signal strength Confirm vehicle Intelligent Key antenna signal strength Compatible with future sensors Equipped with a display

PREPARATION

< PREPARATION >

[WITH INTELLIGENT KEY SYSTEM]

PREPARATION >		[WITH INTEREST TREE OF OTTEM]
Tool number (TechMate No.) Tool name		Description
KV48105501 (J-45295-A) Transmitter Activation Tool		Activate TPMS transmitter IDs Compatible with future sensors Equipped with a display (KV48105501 only)
 (J-46534) Trim Tool Set	ALEIA0183ZZ	Removing trim components
Commercial Service Tool	AWJIA0483ZZ	INFOID:000000010247361
(TechMate No.) Tool name		Description
(J-39565) Engine Ear	SIIA0995E	Locating the noise
(—) Power Tool		Loosening nuts, screws and bolts

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

SYSTEM DESCRIPTION

COMPONENT PARTS
POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM: Component Parts Location

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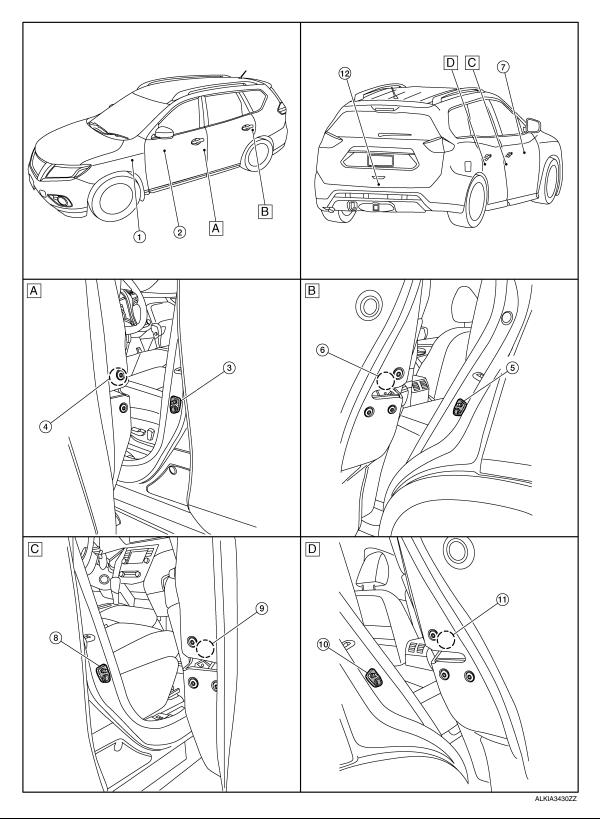
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No.	Component	Function	
1.	ВСМ	Controls the door lock system. Refer to <u>BCS-7</u> , "BODY CONTROL SYSTEM: Component Parts Location" for detailed installation location	
2.	Main power window and door lock/unlock switch	DLK-22, "Door Lock and Unlock Switch (Driver Side)"	

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

No.	Component	Function
3.	Front door switch LH	DLK-24, "Front Door Switch"
4.	Front door lock assembly LH	DLK-25. "Front Door Lock Assembly (LH)"
5.	Rear door switch LH	DLK-25, "Rear Door Switch"
6.	Rear door lock actuator LH	Rear door lock actuator locks/unlocks the rear door latch assembly.
7.	Front power window and door lock/unlock switch RH	DLK-22, "Door Lock and Unlock Switch (Passenger Side)"
8.	Front door switch RH	DLK-24, "Front Door Switch"
9.	Front door lock actuator RH	Rear door lock actuator locks/unlocks the rear door latch assembly.
10.	Rear door switch RH	DLK-25, "Rear Door Switch"
11.	Rear door lock actuator RH	Rear door lock actuator locks/unlocks the rear door latch assembly.
12.	Back door lock assembly (door ajar switch)	DLK-21, "Back Door Lock Assembly"

INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM: Component Parts Location

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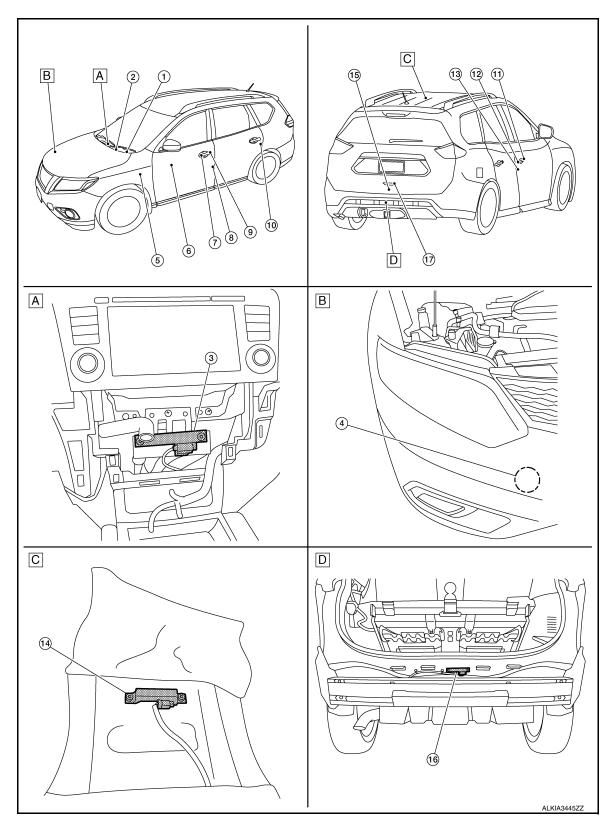
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A. View with A/C Switch (auto A/C) or front air control (manual A/C) assembly removed

C. View of center of rear floor behind console

D. View with rear bumper fascia removed

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[WITH INTELLIGENT KEY SYSTEM]

No.	Component	Function
1.	Combination meter	Combination meter transmits the vehicle speed signal to BCM via CAN communication. BCM also receives the vehicle speed signal from ABS actuator and electric unit (control unit) via CAN communication. BCM compares both signals to detect the vehicle speed. Security indicator lamp is located on combination meter. Security indicator lamp blinks when ignition switch is in any position other than ON to warn that NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS [NVIS (NATS)] is on board. Refer to MWI-6. "METER SYSTEM: Component Parts Location".
2.	Push-button ignition switch	Push-button ignition switch has push switch inside which detects that push-button ignition switch is pressed, and then transmits ON/OFF signal to BCM. BCM changes the ignition switch position with the operation of push-button ignition switch. BCM maintains the ignition switch position status while push-button ignition switch is not operated.
3.	Inside key antenna (instrument center)	Inside key antenna (instrument center) detects whether Intelligent Key is inside the vehicle or not, and then transmits the signal to the BCM. Refer to DLK-22, "Inside Key Antenna (Instrument Center)".
4.	Intelligent Key warning buzzer	Intelligent Key warning buzzer warns the user, who is outside the vehicle, of operation confirmation according to Intelligent Key operation and door request switch operation, or of an inappropriate operation.
5.	ВСМ	BCM controls INTELLIGENT KEY SYSTEM (ENGINE START FUNCTION), NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS [NVIS (NATS)] and VEHICLE SECURITY SYSTEM. BCM performs the ID verification between BCM and Intelligent Key when the Intelligent Key is carried into the detection area of inside key antenna, and pushbutton ignition switch is pressed. If the ID verification result is OK, ignition switch operation is available. Then, when the ignition switch is turned ON, BCM performs ID verification between BCM and ECM. If the ID verification result is OK, ECM can start engine. Refer to BCS-7, "BODY CONTROL SYSTEM: Component Parts Location" for detailed installation location.
6.	Main power window and door lock/unlock switch	Door lock and unlock switch is integrated into the power window main switch. Door lock and unlock switch transmits door lock/unlock operation signal to BCM. Refer to PWC-7, "Power Window Main Switch".
7.	Outside key antenna LH	Outside key antenna (LH) detects whether Intelligent Key is outside the vehicle or not, and then transmits the signal to the BCM. Refer to DLK-23. "Outside Key Antenna (LH)".
8.	Front door lock assembly LH	Door key cylinder switch is integrated into front door lock assembly (driver side). Door key cylinder switch detects door LOCK/UNLOCK operation using mechanical key, and then transmits the operation signal to BCM. Refer to DLK-25 . "Front Door Lock Assembly (LH)".
9.	Door request switch LH	Door request switch transmits door lock/unlock request signal to the BCM.
10.	Rear door lock actuator LH	Rear door lock actuator locks/unlocks the rear door latch assembly.
11.	Outside key antenna RH	Outside key antenna (RH) detects whether Intelligent Key is outside the vehicle or not, and then transmits the signal to the BCM. Refer to DLK-23, "Outside Key Antenna (RH)".
12.	Door request switch RH	Door request switch transmits door lock/unlock request signal to the BCM.
13.	Door switch RH	Door switch detects door open/close condition and then transmits ON/OFF signal to BCM.
14.	Inside key antenna (console)	Inside key antenna (console) detects whether Intelligent Key is inside the vehicle or not, and then transmits the signal to the BCM. Refer to DLK-23 , "Inside Key Antenna (Console)".
15.	Back door lock assembly	Back door lock actuator locks/unlocks the back door latch assembly.

COMPONENT PARTS

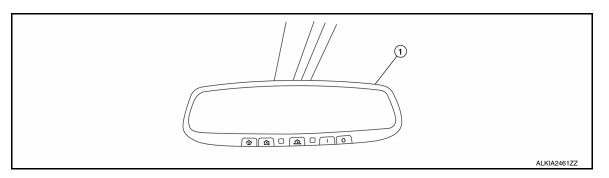
< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

No.	Component	Function
16.	Outside key antenna (rear bumper)	Outside key antenna (Rear bumper) detects whether Intelligent Key is outside the vehicle or not, and then transmits the signal to the BCM. Refer to DLK-23, "Outside Key Antenna (Rear Bumper)".
17.	Back door opener switch	Back door request switch transmits door lock/unlock request signal to the BCM.

INTEGRATED HOMELINK TRANSMITTER

INTEGRATED HOMELINK TRANSMITTER: Component Parts Location



No.	Component	Function
1.	Auto anti-dazzling inside mirror	DLK-25, "Integrated Homelink Transmitter"

AUTOMATIC BACK DOOR SYSTEM

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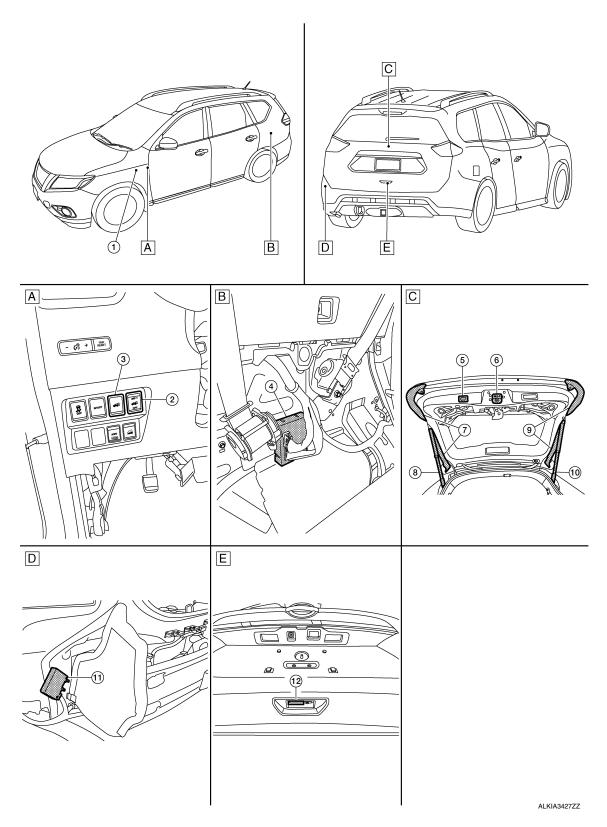
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AUTOMATIC BACK DOOR SYSTEM : Component Parts Location

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- A. View of LH side of instrument panel B.
- View with luggage side lower finisher C. View of back door open removed
- D. View with rear fascia removed
- E. View of back door

[WITH INTELLIGENT KEY SYSTEM]

No.	Component	Function
1.	ВСМ	Transmits and receives signal to the automatic back door control module Refer to BCS-7. "BODY CONTROL SYSTEM: Component Parts Location" for detailed installation location
2.	Automatic back door main switch	DLK-21, "Automatic Door Main Switch"
3.	Automatic back door switch	DLK-21, "Automatic Back Door Switch"
4.	Automatic back door control module	DLK-21, "Automatic Back Door Control Module"
5.	Automatic back door close switch	DLK-21, "Automatic Back Door Close Switch"
6.	Back door lock assembly	DLK-21, "Back Door Lock Assembly"
7.	Touch sensor LH	DLK-21, "Back Door Touch Sensor"
8.	Spindle unit LH	DLK-25, "Spindle Unit"
9.	Touch sensor RH	DLK-21, "Back Door Touch Sensor"
10.	Spindle unit RH	DLK-25, "Spindle Unit"
11.	Automatic back door warning buzzer	DLK-21, "Automatic Back Door Warning Buzzer"
12.	Back door opener switch	DLK-21, "Automatic Back Door Opener Switch"

Automatic Back Door Control Module

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Automatic back door control unit: Controls the automatic back door system.

Automatic Back Door Switch

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Detects open/close operation of automatic back door

Automatic Door Main Switch

INFOID:0000000010284288

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

Automatic Back Door Warning Buzzer

INFOID:0000000010284298

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

Automatic Back Door Close Switch

INFOID:0000000010284299

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

Back Door Lock Assembly

INFOID:0000000010284300

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:0000000010284301

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.

Back Door Touch Sensor

INFOID:0000000010284302

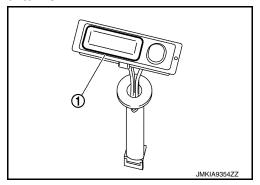
During back door close operation, the touch sensor detects any trapped foreign material.

DLK-21 Revision: November 2013 2014 Rogue NAM

Back Door Opener Switch

INFOID:0000000010284303

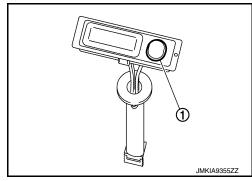
- Back door opener switch (1) transmits back door opener switch signal to BCM.
- Back door opener switch (1) is integrated in outside handle (back door).



Back Door Request Switch

INFOID:0000000010284304

- · 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).



Door Lock and Unlock Switch (Driver Side)

INFOID:0000000010288429

- 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)

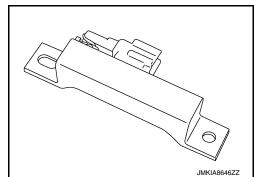
INFOID:0000000010288430

- 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).

Inside Key Antenna (Instrument Center)

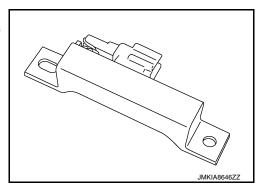
INFOID:0000000010288657

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



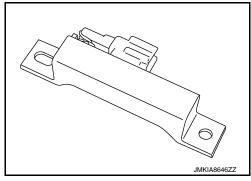
Inside Key Antenna (Console)

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



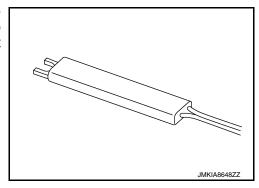
Outside Key Antenna (Rear Bumper)

- 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.



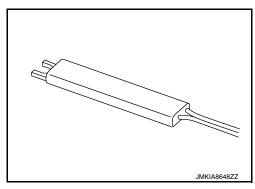
Outside Key Antenna (LH)

- Outside key antenna (LH) 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 (LH) is installed in driver side outside handle.



Outside Key Antenna (RH)

- Outside key antenna (RH) 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 (RH) is installed in passenger side outside handle.



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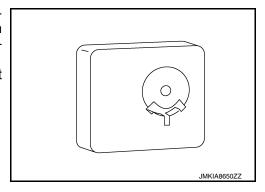
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Intelligent Key Warning Buzzer

INFOID:0000000010288662

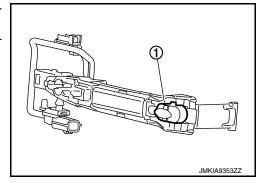
- Intelligent Key warning buzzer warns the user, who is outside vehicle, of operation confirmation according to Intelligent Key operation and door request switch operation, or of an inappropriate operation.
- Intelligent Key warning buzzer is installed in the rear of front bumper and behind RH headlight.



INFOID:0000000010288663

Front Door Request Switch (LH)

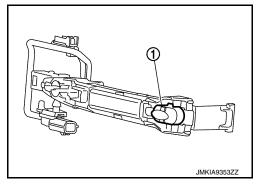
- Front door request switch (LH) transmits door request switch signal to BCM.
- Front door request switch (LH) (1) is integrated in driver side outside handle.



INFOID:0000000010288664

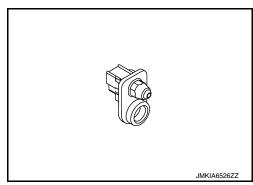
Front Door Request Switch (RH)

- Front door request switch (RH) transmits door request switch signal to BCM.
- Front door request switch (RH) (1) is integrated in passenger side outside handle.



Front Door Switch

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

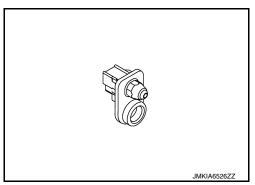


COMPONENT PARTS

[WITH INTELLIGENT KEY SYSTEM]

Rear Door Switch

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



Front Door Lock Assembly (LH)

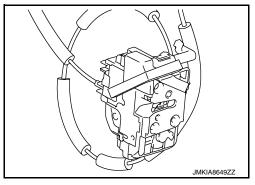
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- Door lock actuator and unlock sensor are Integrated in driver door lock assembly.
- Door lock actuator receives lock/unlock signal from BCM, and then locks/unlocks driver door.
- Only front door lock assembly (driver side) integrates unlock sensor.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



Spindle Unit

Encoder and spindle motor are installed:

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

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

Integrated Homelink Transmitter

INFOID:0000000010284538

Within the Homelink transmitter a maximum of 3 radio signals can be stored and transmitted to operate the garage door, etc.

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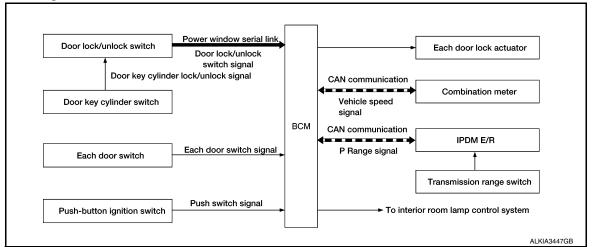
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SYSTEM (POWER DOOR LOCK SYSTEM)

System Diagram

INFOID:0000000010283006



System Description

INFOID:0000000010283007

DOOR LOCK FUNCTION

Door Lock and Unlock Switch

- The door lock and unlock switch (driver side) is built into power window main switch.
- The door lock and unlock switch (passenger side) is built 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. (SELECTIVE UNLOCK OPERATION)

Selective unlock operation mode can be changed using CONSULT.

Refer to BCS-17, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

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 INL-7, "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.

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 (Park) position to any position other than P (Park).

SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is in the ON posi-
tion, all doors are closed and the shift signal received from the park position switch when shifted from the P
(Park) position to any position other than P (Park).
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)
- 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 P to the 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 park position switch when shifted from any position other than P to the P position.

Setting change of Automatic Door Lock/Unlock Function

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

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.

♥Without CONSULT

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

- Close all doors (door switch OFF)
- Ignition switch: OFF→ON 2.
- 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.
- The switching is complete when the hazard lamp blinks.

 $OFF \rightarrow ON$: 2 blinks $\mathsf{ON} \to \mathsf{OFF}$: 1 blink

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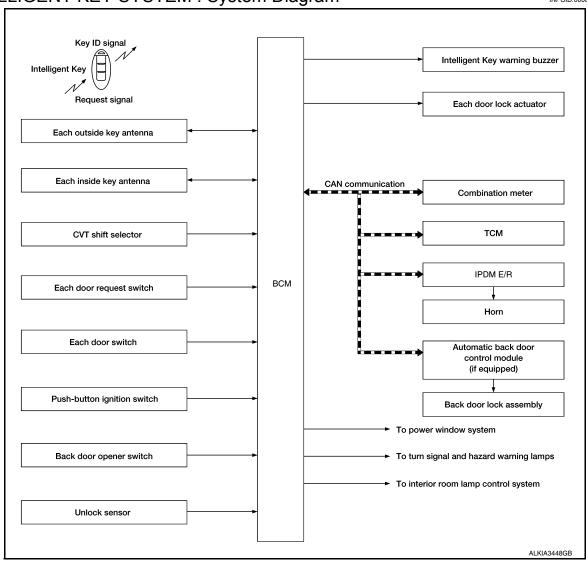
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SYSTEM (INTELLIGENT KEY SYSTEM) INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM: System Diagram

INFOID:0000000010283008



INTELLIGENT KEY SYSTEM: System Description

INFOID:0000000010283009

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).

The driver should always carry the Intelligent Key.

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

Function	Description	Refer
Door lock	Lock/unlock can be performed by pressing the request switch.	DLK-28
Back door opener	The back door can be opened by carrying the Intelligent Key and pressing the back door opener switch.	DLK-31
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.	DLK-29

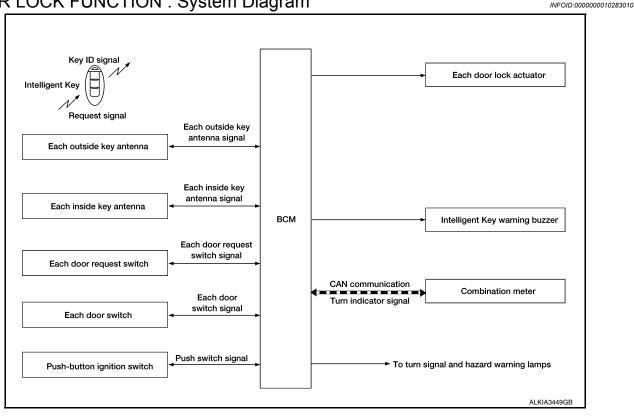
< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Function	Function Description	
Key reminder	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.	DLK-35
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.	DLK-35
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state.	DLK-28
Panic alarm	When Intelligent Key panic alarm button is pressed, horn sounds.	DLK-35

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION: System Diagram



DOOR LOCK FUNCTION: System Description

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. 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.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM locks/unlocks each doors (except back door).
- 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.

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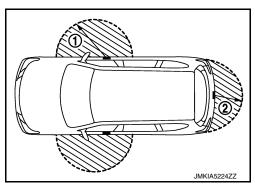
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Each door request switch operation	Operation condition
Lock	 All doors are closed. Panic alarm is not activated. P (Park) position warning is not activated. Intelligent Key is outside the vehicle. Intelligent Key is within outside key antenna detection area*.
Unlock	 Panic alarm is not activated. Intelligent Key is outside the vehicle. Intelligent Key is within outside key antenna detection area*.

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

OUTSIDE KEY ANTENNA DETECTION AREA

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



SELECTIVE UNLOCK FUNCTION

Lock Operation

When a LOCK signal is sent from door request switch (driver side, passenger side, back door), all doors 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 (except back door) are unlocked.
- 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 (except back door) are unlocked.
- 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 (except back door) are unlocked.

How To Change Selective Unlock Operation Mode

Selective unlock operation mode can be changed using CONSULT.

Refer to BCS-21, "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 BCS-21, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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 acti-

Operating condition	Door switch is ON (door is open).Door is locked.Push switch is pressed.
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How To Change Auto Door Lock Operation Mode

Auto door lock operation mode can be changed using CONSULT.

Refer to BCS-21, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

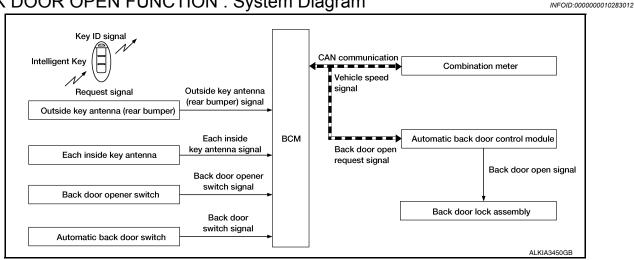
LIST OF OPERATION RELATED PARTS

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

Function	Intelligent Key	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 Diagram



BACK DOOR OPEN FUNCTION: System Description

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 (except back door) 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.

BACK DOOR OPEN

DLK-31 Revision: November 2013 2014 Rogue NAM DLK

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< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

While back door open in the permitted state, back door opens when back door opener switch is pressed after back door request switch is operated. Back door open also can be operated according to the following procedure

- 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, checks 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.
- 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 <u>DLK-39</u>. "System Description".

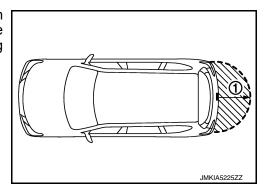
OPERATION CONDITION

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	 Vehicle speed is less than 5 km/h (3 MPH). Intelligent Key is within outside key antenna (rear bumper) detection area. Back door is closed. Panic alarm is not activated.

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.

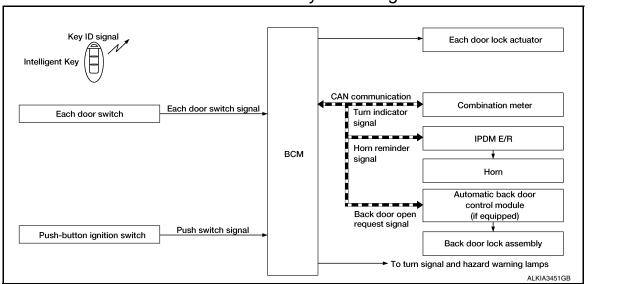
Function	Intelligent Key	Back door opener switch	Back door lock assembly	Inside key antenna	Outside key antenna (rear bumper)	CAN communication system	BCM	Automatic back door control module
Back door open function	×	×	×	×	×	×	×	×

REMOTE KEYLESS ENTRY FUNCTION

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY FUNCTION : System Diagram



REMOTE KEYLESS ENTRY FUNCTION: System Description

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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

OPERATION AREA

The remote engine start operating range is approximately 60 m (197 ft) from the vehicle.

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.
- 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	 Panic alarm is not activated. P (Park) position warning is not activated.
Unlock	Panic alarm is not activated.

SELECTIVE UNLOCK FUNCTION

- · When a LOCK signal is transmitted from Intelligent Key, all doors are locked.
- When an UNLOCK signal is transmitted from Intelligent Key once, driver side door are unlocked.
- Then, if an UNLOCK signal is transmitted from Intelligent Key again within 60 seconds, all other doors (except for back door) are unlocked.

How to change selective unlock operation mode.

Selective unlock operation mode can be changed using CONSULT.

Refer to BCS-17, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

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< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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.

	Door switch is ON (door is open)
Operating condition	Door is locked
	Push switch is pressed

How to change auto door lock operation mode.

Auto door lock mode can be changed using CONSULT.

Refer to BCS-21, "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. 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 m	node	S mode				
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

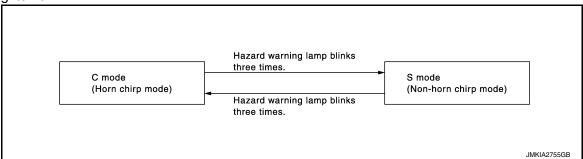
(I) With CONSULT

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

Refer to BCS-21, "INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY)".

Without CONSULT

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 for 0.4 second or more, back door open automatically for detailed description, refer to <a href="https://documents.org/linearing/linearing/background-color: background-color: b

LIST OF OPERATION RELATED PARTS

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

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Function	Intelligent Key	Door switch	Door lock actuator	Push-button ignition switch	CAN communication system	BCM	IPDM E/R	Hom	Combination meter	Hazard warning lamp	Automatic back door control module	Back door lock assembly
Door lock/unlock function	×	×	×			×						
Selective unlock function	×	×	×			×						
Auto door lock function	×	×	×	×		×						
Hazard and horn reminder function					×	×	×	×	×	×		
Automatic back door open/close function	×				×	×					×	×

WARNING FUNCTION

WARNING FUNCTION: System Description

INFOID:0000000010283022

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
- · 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)

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< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Warning/Inform	nation functions	Operation procedure
P position warning	For internal	 Shift position: Except P (Park) position Engine is running to stopped (ignition switch is ON to OFF)
r position warning	For external	Warning is activated when driver door is closed from the open position while the P (Park) position warning (for inside vehicle) is ON.
ACC warning		 When P (Park) position warning is in active mode, shift position changes P (Park) position Ignition switch: ACC position
Door is open to close		 Ignition switch: Except Lock position Door switch: ON to OFF (Door is open to close) Intelligent Key cannot be detected inside the vehicle
Take away warning Door is open		 Ignition switch: Except Lock position Door switch: ON (Door is open) Key ID verification every 5 seconds when registered Intelligent Key cannot be detected inside the vehicle
	Push-button ignition switch operation	 Ignition switch: Except Lock position Press push-button ignition switch Intelligent Key cannot be detected inside the vehicle
Door lock operation warn	ing	When door lock operation is requested while door lock operating condition of door request switch or Intelligent Key are not satisfied
	Ignition switch is ON position	 Ignition switch: ON position Shift position: P (Park) position* Engine is stopped
Engine start information Ignition switch is except ON position		 Ignition switch: Except ON position Shift position: P (Park) position* Intelligent Key is inserted in key slot or Intelligent Key can be detected inside the vehicle
Intelligent Key low battery 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	 When registered Intelligent Key cannot be detected inside the vehicle Intelligent Key battery is discharged When NATS antenna amp cannot be detected NATS ID

WARNING METHOD

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

		"KEY"	Information display	Warning chime			
Warning/Info	ormation functions	warning (combination meter)		Combination meter buzzer	Intelligent Key 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 to Park		Active		

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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		"KEY"	Information display	Warnii	ng chime
Warning/Information functions warning lamp			Information display (combination meter)	Combination meter buzzer	Intelligent Key warning buzzer
	Door is open to close			Activate	Activate
Take away	Door is open			_	_
warning	Push-button ignition switch operation	_	No Key Detected	Activate	_
			ALKIA2517GB		
Door lock op- eration warn-	Request switch operation	_	<u> </u>	_	Activate
ing	Intelligent Key	_	_	_	Activate
Key ID warninզ	Key ID warning		Key ID Incorrect	_	_
Intelligent Key	Intelligent Key low battery warning		Key low battery	_	_
Key ID verification information		_	(S) (B) ALKIA2521ZZ	_	_

LIST OF OPERATION RELATED PARTS

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

Warning	g function	Intelligent Key	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" waming lamp
Intelligent Key system malfur	nction									×	×		×
OFF position warning	For internal			×					×	×	×		
Of a position warning	For external			×				×			×		
P (Park) position warning			×						×	×	×	×	×

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Warnin	g function	Intelligent Key	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" waming lamp
	Door is open or close	×		×		×		×	×	×	×	×	×
Take away warning	Door is open	×		×		×				×	×	×	×
Tana anay naming	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 information	n	×				×				×	×	×	

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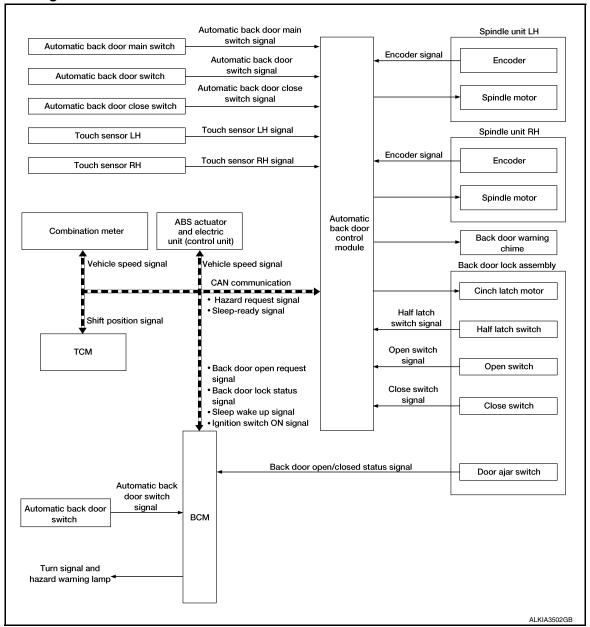
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INFOID:0000000010283024

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

System Diagram



System Description

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

AUTOMATIC OPEN/CLOSE TEMPORARY STOP FUNCTION

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

Back Door Opener Switch Operation

- Automatic open/close operation stops when back door opener switch is operated during automatic open/ close operation.
- Back door performs automatic open operation in an open direction when back door opener switch is operated again during automatic open/close temporary stop function operation.
- Back door performs automatic close operation in a close direction when automatic back door close switch is
 operated during automatic open/close temporary stop function operation.
- Automatic operation is performed again, in the direction that automatic back door switch operated before stopping, when automatic back door switch or Intelligent Key button is operated during automatic open/close temporary stop function operation.

Automatic Back Door Main Switch Operation

- While automatic back door main switch is ON, automatic open/close operation stops when automatic back door main switch is turned OFF during automatic open/close operation.
- While automatic back door main switch is OFF, automatic open/close operation stops when automatic back door main switch is turned ON then turned OFF during automatic open/close operation.
- Back door performs automatic open operation in an open direction when back door opener switch is operated again during auto open/close temporary stop function operation.
- Back door performs automatic close operation in a close direction when automatic back door close switch is operated during automatic open/close temporary stop function operation.
- Automatic operation is performed again, in the direction that automatic back door switch operated before stopping, when automatic back door switch or Intelligent Key button is operated during automatic open/close temporary stop function operation.

BACK DOOR OPEN POSITION SETTING FUNCTION

Back door open position setting function enables a user to set stop position for automatic open operation.

Setting Procedure

Stop position for back door open position setting function can be set by the following procedure.

- 1. Manually move the back door to a stop setting position.
- Press and hold the automatic back door close switch for 3 seconds while maintaining the back door position.
- 3. The switching is complete when the buzzer sounds (pattern E).
- 4. Fully close the back door.

Cancellation Procedure

Setting of back door open position setting function can be cancelled by the following procedure.

- 1. Manually move the back door to a fully open position.
- 2. Press and hold the automatic back door close switch for 3 seconds.
- 3. The switching is complete when the buzzer sounds (pattern E).
- 4. Fully close the back door.

BACK DOOR AUTO CLOSURE FUNCTION

Open Function

When back door opener switch is pressed and automatic back door main switch in the OFF position, BCM transmits the back door open request signal to automatic back door control 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, the closure motor reverses to the neutral position.

WARNING FUNCTION

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

Chime Operation Condition

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

	Pattern	Time	Description
А	ON 200ms OFF JMKIA1862ZZ	0.75 sec.	Operation start announcement Anti-pinch operation start announcement
В	Pi	2.0 sec.	Closure function operates when automatic back door main switch is in OFF position During the closure operation, when touch sensor detects any trapped foreign material, the back door 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
E	ON 500ms OFF	2.5 sec.	Calibration of automatic back door position information is complete Back door open position setting procedure is complete

ANTI-PINCH FUNCTION

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

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

Operation Condition

Detection method		Encoder pulse	Touch sensor
Applicable operation	n	Open/close operation	Close operation
Operation when any trapped for-	Stop the vehicle Chime sounds (pattern A) and reverse operation		Buzzer sounds (pattern A) and the back door stops in the fully-open position after reverse operation During closure (close) operation (at main switch OFF): Closure [open (neutral position return)] operation
eign material is de- tected	Running the vehicle	No reverse operation (chime sounds, pattern C)	The back door reverses a certain amount, and then it reverses automatically to perform the auto close operation During closure (close) operation (at main switch ON): Closure (open) operation
Non-reverse area		 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)]

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[WITH INTELLIGENT KEY SYSTEM]

Detection method	Encoder pulse	Touch sensor
Switch operation during reverse operation	Receive	
Number of allowable reverse operations	Perform the automatic open/ogardless of the operation dire	close temporary stop function after 2 reverse operations rection

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	ed → Open
Main switch	_	_	_	_	_	ON	N ON	
Ignition position	ON/ACC/ LOCK	OFF	_	-	_	_	ON/ACC/ LOCK	OFF
Shift selector lever	P position	_	_	_	_	_	P position	_
Vehicle speed				0 k	m/h			
Back door lock condition	-	_	_	_	_	_	Unlock*	
Touch sensor				No	rmal			
Power supply (Automatic power back door control module)		Approx. 11 V or more						

^{*:} 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 module performs the control as follows.

Item (Condition)		Back door condition						
Vehicle stop condition (open operation) • IGN ON and shift P (Park) position→IGN ON and other than P (Park) position	The operation is continu	The operation is continued						
Operation condition release during the operation start announcement condition	Automatic back door fur	nction does not operate						
Vehicle speed	Open operation	Operation stop [Back door fully closed or chime sounds until the vehicle stops (pattern C)]						
(0 km/h → More than 0 km/h)	Close operation	The operation is continued [chime sounds (pattern C until back door fully closed]						
	Open operation	The operation is continued (If the pinch is detected a ter that, the system switches to the automatic open/ close temporary stop function)						
Touch sensor	Close operation	Automatic open/close temporary stop function						
(Normal → Open)	Closure (close) operation	Closure (open) operation and chime sounds (pattern B)						
	Closure [open (return the latch to the neutral position)]	The operation is continued						
Operation time (More than approx. 180 sec.)	Inhibit automatic back d	loor operation						

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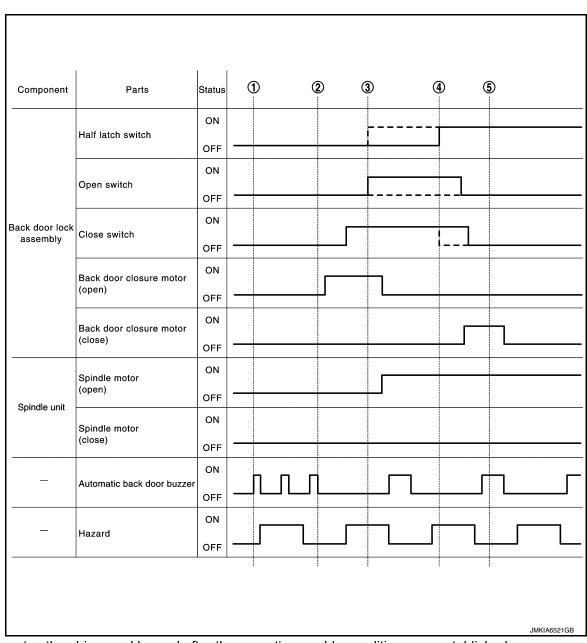
[WITH INTELLIGENT KEY SYSTEM]

Item (Condition)		Back door condition
Dock door opener quitch	Closure (close) operation	Closure (open) operation and back door open
Back door opener switch (OFF \rightarrow ON)	Closure [open (return the latch to the neutral position)]	Back door open
Malfunction detected	IGN circuit	Automatic open/close temporary stop function
manufiction detected	Half latch switch	Operation is possible up to 3 times

TIME CHART FOR AUTOMATIC 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.



- Operates the chime and hazard after the operation enable conditions are established.
- 2. The back door closure motor performs the open operation after the chime (pattern A) stops sounding.
- Stops the back door closure motor open operation after turning the open switch to ON

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< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Then, operate the spindle motor to perform the back door open operation.

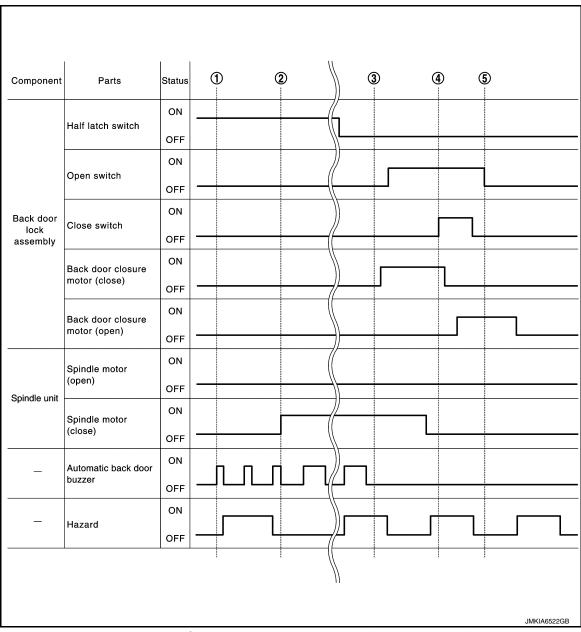
- 4. The back door closure motor performs the close operation after turning the half latch switch to ON.
- Stop the back door closure motor close operation and return the latch to the neutral position after turning the close switch to OFF.

NOTE:

In the operation of steps 3 and 4, the inputs of half latch switch, open switch, and close switch may be different according to the reaction force of the back door weatherstrip. Refer to the area encircled by a broken line in the Time chart (fully closed to fully open operation).

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 chime and hazard after the operation enable conditions are established.
- 2. After the chime (pattern A) stops sounding, operates the spindle motor to perform the back door close operation.
- 3. The back door closure motor performs the close operation in 300 msec. or more after turning the half latch switch to OFF.
- The back door closure motor performs the open operation after turning the close switch to ON.

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[WITH INTELLIGENT KEY SYSTEM]

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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SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

System Description

INFOID:0000000010283025

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

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010290343

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APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	 The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

				Direct D	Diagnosti	c Mode		
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	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		×	×	×	×		

DOOR LOCK

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000010290344

SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW-DR [On/Off]	Indicates condition of door request switch LH.
REQ SW-AS [On/Off]	Indicates condition of door request switch RH.
REQ SW-BD/TR [On/Off]	Indicates condition of back door request switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLK].

WORK SUPPORT

Support Item	Setting	Description	
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.	
DOON LOCK-UNLOCK 3L1	Off	Automatic door locks function OFF.	
AUTO UNLOCK TYPE	MODE2	Driver door only unlocks automatically.	
AUTO UNLOCK TIPE	MODE1*	All doors unlock automatically.	
	MODE3	This mode is not used.	
AUTO LOCK FUNCTION	MODE2	Doors lock automatically when shifted out of P (park).	
AUTO LOCK FUNCTION	MODE1*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).	
	Off	_	
AUTO UNLOCK FUNCTION	MODE3	This mode is not used.	
	MODE2	Doors unlock automatically when shifted into P (park).	
	MODE1*	Doors unlock automatically when ignition is switched from ON to OFF.	
	Off	_	

^{* :} Initial setting

INTELLIGENT KEY

INTELLIGENT KEY: CONSULT Function (BCM - INTELLIGENT KEY) INFOID:000000010290345

SELF DIAGNOSTIC RESULT Refer to BCS-48, "DTC Index".

DATA MONITOR

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item [Unit]	Main	Description		
REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH.		
REQ SW -AS [On/Off]	×	Indicates condition of door request switch RH.		
REQ SW -BD/TR [On/Off]	×	Indicates condition of back door request switch.		
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.		
BRAKE SW 1 [On/Off]	×	Indicates condition of brake pedal position switch.		
BRAKE SW 2 [On/Off]		Indicates condition of stop lamp switch.		
DETE/CANCL SW [On/Off]	×	Indicates condition of park position switch.		
PUSH SW -IPDM [On/Off]		Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line.		
IGN RLY1 -F/B [On/Off]		Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line.		
NEUTRAL SW -IPDM [On/Off]		Indicates condition of transmission range switch received from IPDM E/R on CAN communication line.		
SFT PN -IPDM [On/Off]		Indicates condition of P (park) or N (neutral) position from TCM on CAN communication line.		
STARTER RELAY -IPDM [On/Off]		Indicates condition of starter relay received from IPDM E/R on CAN communication line.		
ENGINE STATE [STOP/START/CRANK/ RUN]	×	Indicates condition of engine state from ECM on CAN communication line.		
REVERSE SIGNAL -IPDM [On/Off]		Indicates condition of transmission range switch received from IPDM E/R on CAN communication line.		
CRANKING PERMIT -ECM [PERMIT]		Indicates condition of engine start possibility from ECM on CAN communication line.		
IS STATUS -ECM [On/Off]		Indicates IS status from ECM on CAN communication line.		
STARTER CUT RELAY -ECM [On/Off]		Indicates condition of starter cut relay from ECM on CAN communication line.		
VEH SPEED 1 [mph/km/h]	×	Indicates condition of vehicle speed signal received from ABS on CAN communication line.		
VEH SPEED 2 [mph/km/h]	×	Indicates condition of vehicle speed signal received from combination meter on CAN communication line.		
IGN REQ -IPDM [On/Off]		Indicates condition of ignition request from IPDM E/R on CAN communication line.		
STARTER REQ -IPDM [On/Off]		Indicates condition of starter request received from IPDM E/R on CAN communication line.		
DOOR STAT -DR [LOCK/READY/UNLK]	×	Indicates condition of driver side door status.		
DOOR STAT -AS [LOCK/READY/UNLK]	×	Indicates condition of passenger side door status.		
DOOR STAT -RR [LOCK/READY/UNLK]	×	Indicates condition of rear right side door status.		
DOOR STAT -RL [LOCK/READY/UNLK]	×	Indicates condition of rear left side door status.		
BK DOOR STATE [LOCK/READY/UNLK]	×	Indicates condition of back door status.		
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.		
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.		
PRMT RKE STRT [Set/Reset]		Indicates condition of engine start possibility from Intelligent Key.		
I-KEY OK FLAG [Key ON/Key OFF]	×	Indicates condition of Intelligent Key OK flag.		
PRBT ENG STRT [Set/Reset]		Indicates condition of engine start prohibit.		
ID AUTHENT CANCEL TIMER [STOP]		Indicates condition of Intelligent Key ID authentication.		
ACC BATTERY SAVER [STOP]		Indicates condition of battery saver.		
CRNK PRBT TMR [On/Off]		Indicates condition of crank prohibit timer.		
AUT CRNK TMR [On/Off]		Indicates condition of automatic engine crank timer from Intelligent Key.		
CRNK PRBT TME [sec]		Indicates condition of engine crank prohibit time.		

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item [Unit]	Main	Description	
AUTO CRNK TME [sec]		Indicates condition of automatic engine crank time from Intelligent Key.	
CRANKING TME [sec]		Indicates condition of engine cranking time from Intelligent Key.	
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.	
RKE OPE COUN2 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.	
RKE-LOCK [On/Off]		Indicates condition of lock signal from Intelligent Key.	
RKE-UNLOCK [On/Off]		Indicates condition of unlock signal from Intelligent Key.	
RKE-TR/BD [On/Off]		Indicates condition of back door open signal from Intelligent Key.	
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.	
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal from Intelligent Key.	
RKE PBD [On/Off]		Indicates condition of automatic back door signal from Intelligent Key.	

ACTIVE TEST

Test Item	Description	
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation [On/Off].	
INSIDE BUZZER	This test is able to check combination meter warning chime operation [Take Out/Knob/Key/Off].	
INDICATOR	This test is able to check combination meter warning lamp operation [KEY ON/KEY IND/Off].	
ENGINE SW ILLUMI	This test is able to check push-button ignition switch START indicator operation [On/Off].	
IGNITION RELAY	This test is able to check ignition relay operation [On/Off].	

WORK SUPPORT

Support Item	Setting		Description
SHORT CRANKING OUTPUT	Start	70 msec	Starter motor operation duration times.
		100 msec	
		200 msec	
	End		-
INSIDE ANT DIAGNOSIS	_		This function allows inside key antenna self-diagnosis.

TRUNK

TRUNK: CONSULT Function (BCM - TRUNK)

INFOID:0000000010290346

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
DETECTION SENSOR (BK) [On/ Off]	NOTE: This item is displayed, but cannot be monitored.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.
BACK DOOR OPENER SW [On/Off]	Indicates condition of back door opener switch.
RKE-TR/BD [On/Off]	Indicates condition of back door open signal from Intelligent Key.

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT) [WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

CONSULT Function

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APPLICATION ITEMS

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

Diagnosis mode	Function Description
Self diagnostic result	Displays the diagnosis results judged by automatic back door control module
Data monitor	The automatic back door control module input/output signals are displayed
Work support	Changes the setting for each setting function.
ECU identification	The automatic back door control module part number is displayed

SELF DIAGNOSTIC RESULTS

Refer to DLK-57, "DTC Index".

DATA MONITOR

Monitor Item	Unit	Description	
SPINDLE SENSOR LH	[Pulse]	Displays the condition of the LH encoder	
SPINDLE LH SPEED	[mm/s]	Displays the LH spindle operation speed	
SPINDLE MOTOR LH DUTY	[%]	Displays the condition of the spindle motor LH duty	
VHCL SPEED MTR	[km/h]	Displays the vehicle speed signal received from combination meter by numerical value	
VHCL SPEED ABS	[km/h]	Displays the vehicle speed signal received from ABS actuator and electrical unit by numerical value	
MAIN SW	[ON/OFF]	Indicates condition of automatic back 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	
BACK DOOR LOCK STATUS	[ON/OFF]	Indicates condition of back door lock status	
PKB SW	[ON/OFF]	Indicates condition of park brake switch	
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 combination meter	
RKE REQ	[OFF/MOVE/ REV]	Indicates condition of remote keyless entry signal from BCM	
IGN SW	[ON/OFF]	Indicates condition of IGN power supply	
SPINDLE LH ENCODER A	[LO/HI]	Indicates condition of encoder signal from encoder A	
SPINDLE LH ENCODER B	[LO/HI]	Indicates condition of encoder signal from encoder B	
UNLOCK SEN BD	[LOCKUNLKI]	Indicates condition of back door unlock sensor	
DESTINATION	[JPN/NAM]	Indicates specification of destination of the automatic back door system	
AUTO BCK DR POS INITIAL	[YET/DONE]	Indicates condition of calibration of automatic back door position information	
AUTO BCK DR POS LEARN	[YET/DONE]	Indicates condition of additional service when removing battery negative cable	
SPINDLE SENSOR RH	[Pulse]	Displays the condition of the RH encoder	
SPINDLE RH SPEED	[mm/s]	Displays the RH spindle operation speed	

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DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT) [WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Monitor Item	Unit	Description	
SPINDLE MOTOR RH DUTY	[%]	[%] Displays the condition of the spindle motor RH duty	
SPINDLE RH ENCODER A	[LO/HI]	[LO/HI] Indicates condition of encoder signal from encoder A	
SPINDLE RH ENCODER B	[LO/HI]	Indicates condition of encoder signal from encoder B	
TRANSMISSION TYPE	[AT/CVT]	Indicates type of transmission the vehicle is equipped with	

WORK SUPPORT

Work item	Description	Refer to
RESET AUTO BACK DOOR STATUS	This item is for calibration of automatic back door position information.	DLK-103, "Work Procedure"

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION

AUTOMATIC BACK DOOR CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT MONITOR ITEM

Monitor Item	Condition		Value/Status
SPINDLE SENSOR LH	Back door: Moving	0 - 65535	
SPINDLE LH SPEED	Back door: Moving	0 - 6553.5	
SPINDLE MOTOR LH DUTY	Back door: Moving	0 – 255	
VHCL SPEED MTR	While driving		Equivalent to speedometer reading
VHCL SPEED ABS	While driving		Equivalent to speedometer reading
MAINI CW	Automatic back door main switch	OFF	OFF
MAIN SW	Automatic back door main switch	ON	ON
ALITO DD CW	Automatic back door quitab	Release	OFF
AUTO BD SW	Automatic back door switch	Press	ON
DK DOOD CL CW	Automotic hook door close quitab	Release	OFF
BK DOOR CL SW	Automatic back door close switch	Press	ON
BACK DOOR LOCK STATUS	Back door lock	Lock	OFF
BACK DOOK LOCK STATUS	DACK GOOL LOCK	Unlock	ON
DKD OW	Dorling broke	Not applied	OFF
PKB SW	Parking brake	Applied	ON
ODEN CW	Back door	Half latch/fully closed	OFF
OPEN SW		Applied	ON
0.00=0	Back door	Open/half latch	OFF
CLOSE SW		Fully closed	ON
LIALE LATOUROW	Dook door	Half latch/fully closed	OFF
HALF LATCH SW	Back door	Open	ON
TOUGH CEN DU	Touch concer DLI	Other than below	OFF
TOUCH SEN RH	Touch sensor RH	Detect obstruction	ON
TOUGH CENTIL	Touch concert III	Other than below	OFF
TOUCH SEN LH	Touch sensor LH	Detect obstruction	ON
P RANGE IND	Salastar lavar	Other than P position	OFF
P RANGE IND	Selector lever	P position	ON
		Release	OFF
RKE REQ	Intelligent Key button (back door)	Press (more than 0.5 second)	MOVE
		Press (just after)	REV
ICM SW	Ignition quitab	Other than ON position	OFF
IGN SW	Ignition switch	ON position	ON
SPINDLE LH ENCODER A	Automatic back door	Not operate	No change HI or LO
SCHADLE LU ENCODER A	Automatic back door	Operate	Change HI or LO
SDINDLE LU ENCODED D	Automatic back door	Not operate	No change HI or LO
SPINDLE LH ENCODER B	Automatic back door	Operate	Change HI or LO

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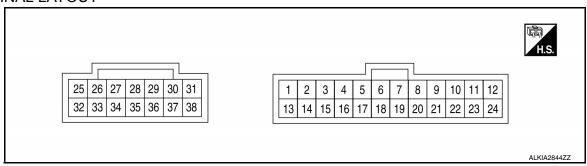
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< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Conditio	Condition		
UNLOCK SEN BD	Back door lock	Lock	LOCK	
UNLOCK SEN BD	Back door lock	Unlock	UNLK	
DESTINATION	_	1	OTHER	
AUTO BCK DR POS INITIAL	Calibration of automatic back door	Not complete	YET	
AUTO BOK DR POS INITIAL	position information	Complete	DONE	
AUTO BCK DR POS LEARN	Additional service when removing battery negative terminal	Not complete	YET	
		Complete	DONE	
SPINDLE SENSOR RH	Back door: Moving	0 – 65535		
SPINDLE RH SPEED	Back door: Moving	0 - 6553.5		
SPINDLE MOTOR RH DUTY	Back door: Moving		0 – 255	
SPINDLE RH ENCODER A	Automotic book door	Not operate	No change HI or LO	
SPINDLE KIT ENCODER A	Automatic back door	Operate	Change HI or LO	
CDINDLE DU ENCODED D	Automatic back door	Not operate	No change HI or LO	
SPINDLE RH ENCODER B	Automatic back door	Operate	Change HI or LO	
TRANSMISSION TYPE	_	_		

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No. e color)	Description		Condition		Voltage
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)
1 (LG)	13 (SB)	Touch sensor RH sig-	Input	Touch sensor RH	Detect obstruc- tion	1.8 – 5 V
(LG)	(30)	IIai			Other than above	2.72 – 7.27 V
2	13 (SB)	Touch sensor LH sig-	h sensor LH sig- Input Touch sensor LH	Detect obstruc- tion	1.8 – 2.72 V	
(G)	(36)	IIai			Other than above	5.0 – 7.27 V
3					Open	0 V
(SB)	Ground	Half latch switch signal	Input	Back door	Fully closed/half latch	Battery voltage
4 (B)	Ground	Ground	_	_		0 V
5	Ground	Close switch signal	Input	Back door	Fully closed	0 V
(BR)	Ground	Ciose switch signal	iliput	Back door	Open/half latch	Battery voltage

< ECU DIAGNOSIS INFORMATION >

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	inal No. e color)	Description		Condition		Voltage
(+)	(-)	Signal name	Input/ Output	Con	aition	(Approx.)
6 (W)	Ground	Encoder LH A signal	Input	Back door	Moving (auto or manual)	NOTE: Waveform width changes according to back door open/close speed
					When stopped	0 V or Battery voltage
7 (L)	Ground	Encoder LH B signal	Input	Back door	Moving (auto or manual)	NOTE: Waveform width changes according to back door open/close speed
					When stopped	0 V or 12 V
8 (R)	Ground	Encoder RH A signal	Input	Back door	Moving (auto or manual)	(V) 15 10 20ms JMKIA1864ZZ NOTE: Waveform width changes according to back door open/close speed
					When stopped	0 V or 12 V
9 (SB)	Ground	Encoder RH B signal	Input	Back door	Moving (auto or manual)	NOTE: Waveform width changes according to back door open/close speed
					When stopped	0 V or 12 V
10	0	Automatic back door	1. 1	Automatic back	ON	Battery voltage
(BG)	Ground	main switch	Input	door main switch	OFF	0 V
11 (V)	Ground	Open switch signal	Input	Back door	Open Half latch/fully closed	0 V Battery voltage
12 (P)	Ground	CAN - L	Input/ Output	-	_	_

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

	inal No. e color)	Description		Con	dition	Voltage	
(+)	(-)	Signal name	Input/ Output	Condition		(Approx.)	
13 (GR)	Ground	Touch sensor ground	Input	-	_	0.01 – 0 V	
16 (B)	Ground	Ground		-	_	0.01 – 0 V	
19 (V)	Ground	Encoder LH power supply	Output	-	_	Battery voltage	
20 (P)	Ground	Encoder RH power supply	Output	-	_	Battery voltage	
21 (G)	Ground	Encoder ground		-	_	0 V	
22	Ground	Automatic back door	Input	Automatic back	Pressed	Battery voltage	
(LG)	Ground	switch	πρατ	door switch	Released	0 V	
23	Ground	Automatic back door	Innut	Automatic back	Pressed	Battery voltage	
(W)	Ground	close switch	Input	door close switch	Released	0 V	
24 (L)	Ground	CAN - H	Input/ Output	_		_	
25 (W)	Ground	Power supply (BAT)	Input	-	_	Battery voltage	
27 (BR)	Ground	Spindle motor LH (open)	Output	Back door	Auto open operation	Battery voltage	
29 (BR)	Ground	Spindle motor RH (open)	Output	Back door	Auto open operation	Battery voltage	
31	Ground	Back door closure mo-	Output	Back door	Open operation	Battery voltage	
(L)	Ground	tor (open)	Output	Dack door	Other than above	0 V	
32 (B)	Ground	Ground	_	-	_	0 V	
34 (G)	Ground	Spindle motor LH (close)	Output	Back door	Auto close operation	Battery voltage	
35 (B)	Ground	Ground (noise shield spindle)		_		0.01 – 0 V	
36 (G)	Ground	Spindle motor RH (close)	Output	Back door	Auto close operation	Battery voltage	
37		Back door warning	_	Automatic back	Sounding	0 V	
(Y)	Ground	chime	Output	door warning chime	Not sounding	Battery voltage	
38	Ground	Back door closure mo-	Output	Back door	Close operation	Battery voltage	
(SB)	B) tor (close)			2401. 4001	Other than above	0 V	

Fail Safe

Display contents of CONSULT	Fail-safe	Cancellation
U1000 CAN COMM	Inhibit automatic back door operation	Return to normal status.
U1010 CONTROL UNIT (CAN)	Inhibit automatic back door operation	Return to normal status.
B2401 IGN OPEN	Inhibit automatic back door operation	Automatic back door control module detects ignition switch ON signal via CAN communication.

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Display contents of CONSULT	Fail-safe	Cancellation
B2409 HALF LATCH SW	Inhibit automatic back door operation	Automatic back door control module detects that half latch switch changes from ON to OFF when back door fully closes.
B2416 TOUCH SEN R OPEN	Inhibit automatic back door operation	Return to normal status.
B2417 TOUCH SEN L OPEN	Inhibit automatic back door operation	Return to normal status.
B2419 OPEN SW	Inhibit automatic back door operation	Reconnect battery.
B2420 CLOSE SW	Inhibit automatic back door operation	Reconnect battery.
B2422 BACK DOOR STATE	Inhibit automatic back door operation	Half latch switch is ON from OFF.
B2423 ABD MTR TIME OUT	Inhibit automatic back door operation	At least 180 seconds are passed after automatic back door operation is inhibited.
B2426 SPINDLE SENSOR LH	Inhibit automatic back door operation	Return to normal status.
B2427 SPINDLE SENSOR RH	Inhibit automatic back door operation	Return to normal status.
B2428 AUTO BACK DR CNT MODULE	Inhibit automatic back door operation	Return to normal status.
B242A CLSR CONDITION	Inhibit automatic back door operation	Reconnect battery.

DTC Inspection Priority Chart

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

Priority	DTC
1	B2428 AUTO BK DR CNT UNIT U1000 CAN COMM U1010 CONTROL UNIT (CAN) B2401 IGN OPEN
2	B2409 HALF LATCH SW B2416 TOUCH SEN R OPEN B2417 TOUCH SEN L OPEN B2419 OPEN SW B2420 CLOSE SW B2422 BACK DOOR STATE B2423 ABD MTR TIME OUT B2426 SPINDLE SENSOR LH B2427 SPINDLE SENSOR RH B242A CLSR CONDITION

DTC Index

NOTE:

Details of time display

1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases 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-104, "DTC Logic"
U1010: CONTROL UNIT(CAN)	×	DLK-105, "DTC Logic"
B2401: IGN OPEN	×	DLK-106, "DTC Logic"
B2409: HALF LATCH SW	×	DLK-107, "DTC Logic"
B2416: TOUCH SEN R OPEN	×	DLK-110, "DTC Logic"
B2417: TOUCH SEN L OPEN	×	DLK-113, "DTC Logic"

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< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

CONSULT display	Fail-safe	Reference page
B2419: OPEN SW	×	DLK-116, "DTC Logic"
B2420: CLOSE SW	×	DLK-119, "DTC Logic"
B2422: BACK DOOR STATE	×	DLK-122, "DTC Logic"
B2423: ABD MTR TIME OUT	×	DLK-125, "DTC Logic"
B2426: SPINDLE SENSOR LH	×	DLK-127, "DTC Logic"
B2427: SPINDLE SENSOR RH	×	DLK-130, "DTC Logic"
B2428: AUTO BACK DR CNT UNIT	×	DLK-133, "DTC Logic"
B242A: CLSR CONDITION	×	DLK-134, "DTC Logic"

BCM

<	FCU	DIAGNOSIS	INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

BCM

List of ECU Reference

INFOID:0000000010283038

ECU	Reference
	BCS-28, "Reference Value"
BCM	BCS-47, "Fail Safe"
DCIVI	BCS-47, "DTC Inspection Priority Chart"
	BCS-48, "DTC Index"

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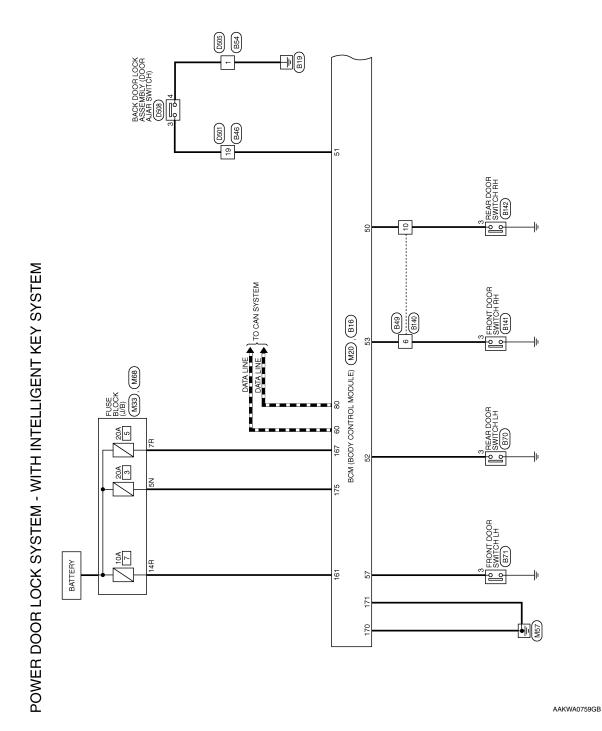
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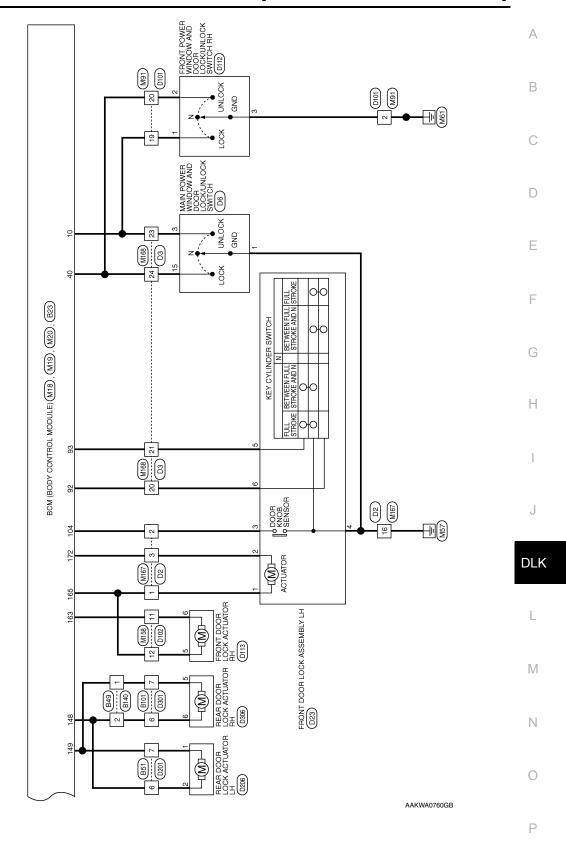
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WIRING DIAGRAM

POWER DOOR LOCK SYSTEM

Wiring Diagram





Signal Name

Color of Wire

Terminal No.

1

GR LG BB

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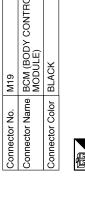
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POWER DOOR LOCK SYSTEM - WITH INTELLIGENT KEY SYSTEM CONNECTORS

Sonnector No. M18	M18	Connector I
Connector Name	Connector Name BCM (BODY CONTROL MODULE)	Connector N
Connector Color GRAY	GRAY	Connector (

Connector Name BCM (BODY CONTROL MODULE)	
204	CONTROL
Connector Color BLACK	

Connector No.	M19
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK



			1		
	Ξ	40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21			
	2	22	l ——	_	
	60	133			_
	4	24		≥	જ
	5	22	e	DOORLOCK SW	I DOORUNLOCK SW
	9	26	Signal Name	충	18
	7	27		9	Į
	8	78	l l a		۱⋽
- 117	6	83	Sig	18	尚
- IV	10	30			18
- IN	Ξ	31			=
	12	32	4-		
	18 17 16 15 14 13 12 11 10 9	33	Color of Wire	(D	_
	14	34	응통	BG	SB
	15	35	O -		
	16	36	<u>o</u>		
	17	37			
46	200	88	l a	유	9
H.S.	92	88			`
7	20	40	Terminal No. Color of Wire		

Con	Connector No.	M20	
Con	Connector Name		BCM (BODY CONTROL MODULE)
Con	Connector Color		BROWN
F		16716616	167166165164 163162161 176173174173172177170169168
	si E		
Terr	Terminal No.	Color of Wire	Signal Name
	161	×	I PWR ECU
	163		O AS LOCK OR UNLOCK D
	165	>	O DR OR FR LOCK D
	167	LAV	I PWR DOORLOCK1
	170	В	I GND1
	171	В	I GND2
	172	G	O FR OR DR UNLOCK [
	175	ш	I PWR DOORLOCK2

Signal Name	I KEY CYLINDER LOCK SW	I KEY CYLINDER UNLOCK SW	I DR KNOB SW
Color of Wire	BR	Ь	В
rminal No. Wire	92	93	104

Signal Name	I KEY CYLINDER LOCK SW	I KEY CYLINDER UNLOCK SW	I DR KNOB SW	
Color of Wire	BR	۵	Œ	
Terminal No. Wire	92	93	104	



Connector Name WIRE TO WIRE Connector Color WHITE

Connector No.



Connector No.	M33	
nector Nar	ne FUS	Connector Name FUSE BLOCK (J/B)
Connector Color WHITE	or WHI	TE
所 A.S.	NS 8N 3N	3N
Terminal No.	Color of Wire	Signal Name
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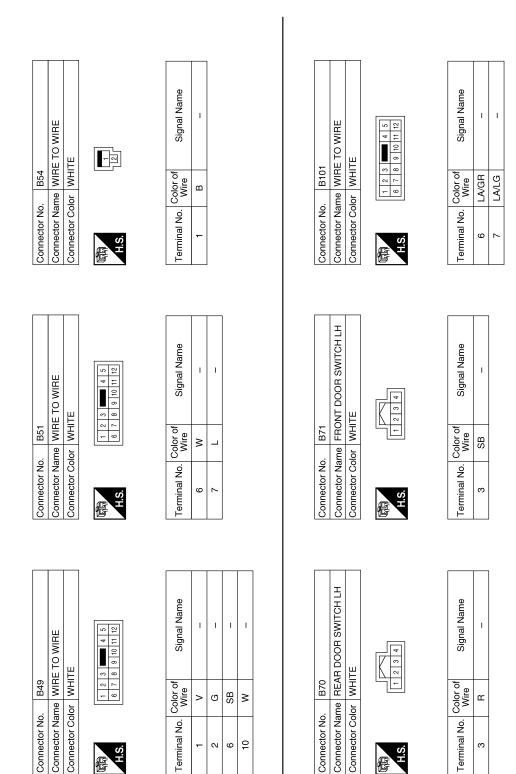
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Connector No. M168	Connector Name WIRE TO WIRE	Connector Color WHITE	H.S. 14 15 16 17 18 19 20 21 22 23 24	Terminal No Color of Signal Name	20 BR –	21 P		24 SB -	Connector No. B46	Connector Name WIRE TO WIRE		H.S. (1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 7 8 9 10 11 12 13 14 15 16 18 14 15 16 18 18 18 18 18 18 18		Terminal No. Color of Signal Name	19 LG –						
M167	WIRE TO WIRE	WHITE	2 3	r of Signal Name	1	1	ı	1	B23	BCM (BODY CONTROL MODULE)	GRAY			r of Signal Name	O RR UNLOCK B	O RR LOCK B					
Connector No.	Connector Name	Connector Color	H.S.	Terminal No. Wire	-	2	<u>Б</u>	16 B	Connector No.	<u>e</u>	Connector Color	[5][5] H.S.		Terminal No. Color of Wire	148 W	149 L					
8	E TO WIRE		2 3	Signal Name	ı	ı				BCM (BODY CONTROL MODULE)	L	50 49 48 47 46 45 44 43 42	2 71 70 69 68 67 66 65 64 63 62 61	Signal Name	I RR DOOR SW	I TGATE SW	I RL DOOR SW	I AS DOOR2 SW	I DR DOOR2 SW	CAN-H	I-MAC)
M158	me WIRE	or WHITE	8 10 3	Color of Wire	_	>			B16	e e	or GREEN	55 54	76 75 74 73 72 71	Color of Wire	3	LG	В	SB	SB	_	۵
Connector No.	Connector Name WIRE TO WIRE	Connector Color	是 H.S.	Terminal No.	1	12			Connector No.	Connector Name	Connector Color	22	78 77	Terminal No.	50	51	52	53	57	09	8

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CH RH	В
Connector No. B142 Connector Name REAR DOOR SWITCH RH Connector Color of NHITE 3 W Connector Name AND DOOR LOCK/UNLOCK SWITCH Connector Name AND DOOR LOCK/UNLOCK SWITCH Connector Color of NHITE Terminal No. Wire Signal Name 1 B 15 BG 15 BG 15 BG 16 Signal Name 1 B 15 BG 16 BG 17 BBG 18 BG 18 BG 19 BG 10 Signal Name 10 BBG 11 BBG	С
BG B142 SWITC	D
Connector Name REARI Connector Name REARI Connector Color WHITE Terminal No. Wire SWITCI Connector Name AND DO Connector Color WHITE SWITCI Connector Color WHITE SWITCI Connector Color White Terminal No. Wire B B C TERMINAL NO. Wire B B C TERMINAL NO. Wire B B C TERMINAL NO. Color of B B C TERMINAL NO. COLOR OT B C TERMINAL	Е
	F
Signal Name	G
	Н
Connector No. B141 Connector Name FRONT Connector Color of Wire 3 GR 12 Connector No. D3 Connector No. D3 Connector Color of Wire 20 BR 24 23 22 21 20 Connector Color of Wire 20 BR 24 23 22 21 20 Connector Color of BR 24 23 22 21 20 Connector Color of BR 24 23 22 21 20 Connector Color of BR 24 23 22 21 20 Connector Rome Wire 24 24 BG 24 22 Connector Color of BR 24 24 BG 24 24 24 BG 24 24 BG	I
Connector No. Connector Name Connector No. Connector No. Connector No. Connector No. Connector No. 20 Terminal No. 20 21 21 23 24 Edizio	J
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	M
No. B 4 4 4 4 4 4 4 4 4	N
Connector No. B140	0
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Connector No. D101	D101	Connector No. D102	D102
onnector Name	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE	WIRE TO WIRE
Connector Color WHITE	WHITE	Connector Color WHITE	WHITE
H.S.	2 11 10 9 8 7 6 5 4 3 2 1	E SH	7 6 5 4 3 2 1 16 15 14 13 12 11 10 9 8

Connector Name FRONT DOOR LOCK ASSEMBLY LH

D23

Connector No.

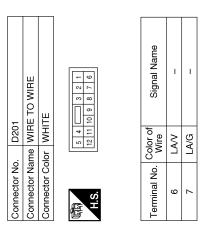
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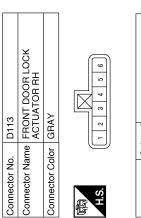
Connector Color

Signal Name	1	1
Color of Wire	LA/L	LAV
Terminal No.	11	12



Signal Name	-	_	_	_	_	_
Color of Wire	LAV	LA/G	В	В	Д	BR
Terminal No.	1	2	8	7	5	9
	Terminal No. Color of Wire Signal Name					





Connector Name FRONT DOOR WINDOW SWITCH RH

D112

Connector No.

WHITE

Connector Color

Connector Name FRONT DOOR LOCK ACTUATOR RH	AY	3 4 4 5 6	Signal Name	1	1
me FRC ACT	lor GR/	-	Color of Wire	LAV	LA/L
Connector Na	Connector Color GRAY	斯 H.S.	Terminal No.	5	9

8 9 10 11 12	Signal Name	ı	1	
9 1 2	Color of Wire	ГG	BB	۵
H.S.	Terminal No. Wire	٠	2	·

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Connector Name WIRE TO WIRE Connector Color WHITE	Connector Name REAR ACTU/	Connector Name REAR DOOR LOCK ACTUATOR RH Connector Color GRAY	JR LOCK
	Connector Co	olor GRAY	
-			
9 8 7 6	图 H.S.	2 C C C C C C C C C C C C C C C C C C C	9
Signal Name	ON legiment	Color of	omeN leavio
Olginal Idailid		Wire	
ı	ဂ	LAVL	1
1	9	LA/W	1
1 1		9	

Connector No.	. D508	8
Connector Name		BACK DOOR LOCK ASSEMBLY (WITHOUT POWER BACK DOOR SYSTEM)
Connector Color	lor WHITE	TE
崎 H.S.	7	3 2 3
Terminal No.	Color of Wire	Signal Name
က	>	I
4	GR	I

5	WIRE TO WIRE	ПЕ		Signal Name	I
. D505	me WIF	lor WH		Color of Wire	В
Connector No.	Connector Name	Connector Color WHITE	H.S.	Terminal No. Wire	1

_	WIRE TO WIRE	TE	2 11 10 9 8 7 6 5 4 3 2 1 8 27 26 25 24 23 22 21 20 19 18 17	Signal Name	ı
. D501	me WIR	or WHI	22 31 30 29 28 27 28	Color of Wire	8
Connector No.	Connector Name	Connector Color WHITE	H.S. 16	Terminal No. Color of Wire	19

Signal Name	I	
Color of Wire	*	
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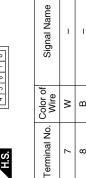
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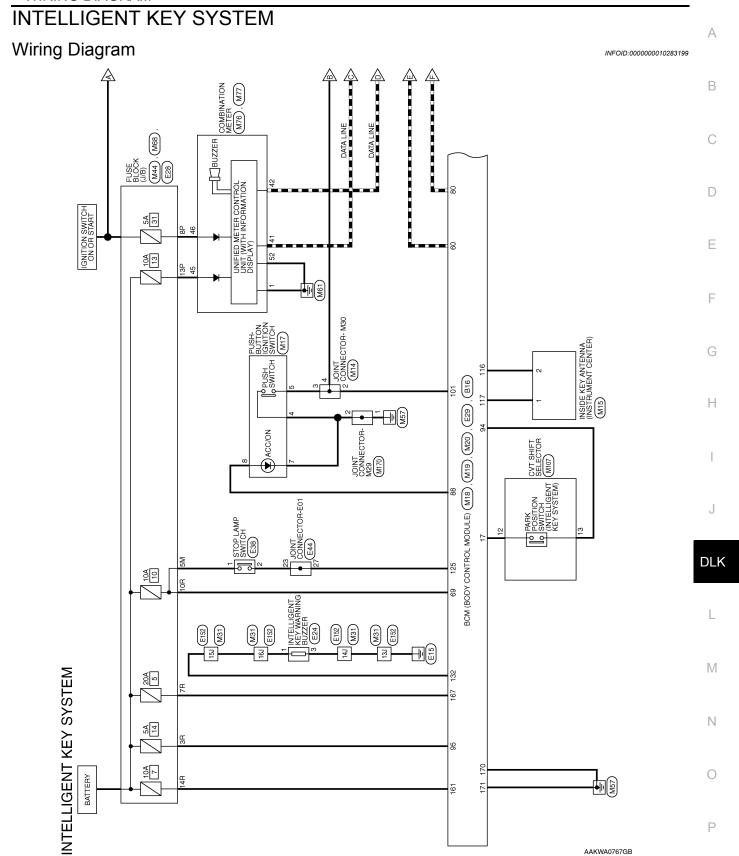


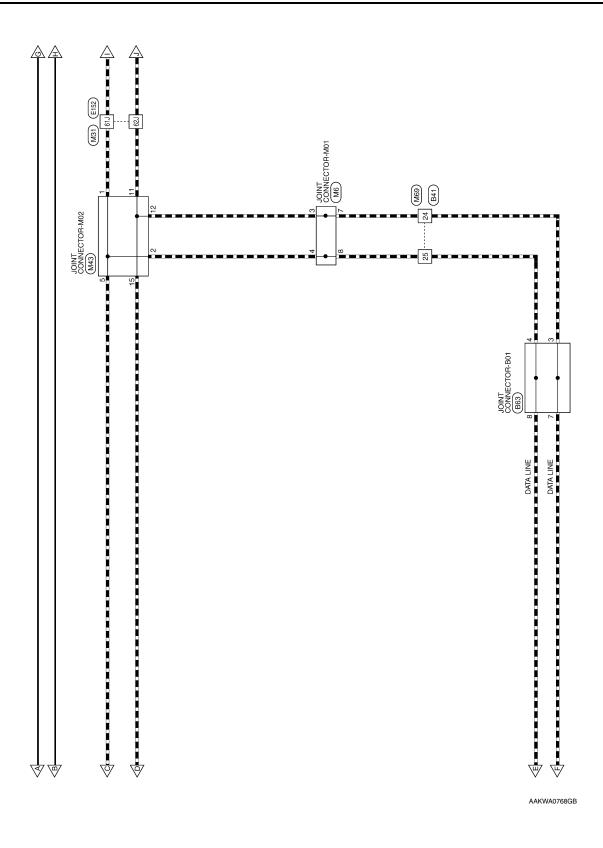


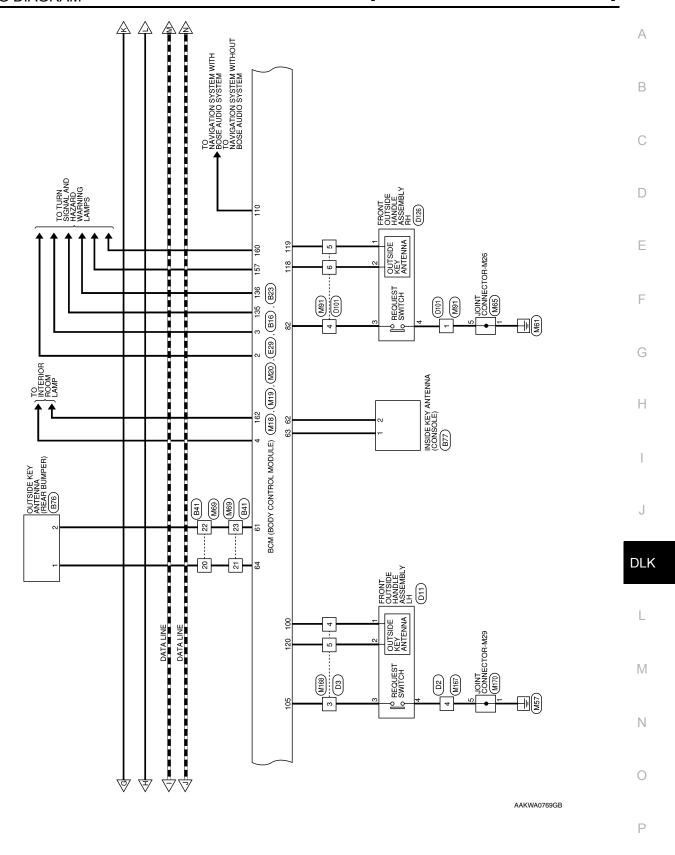


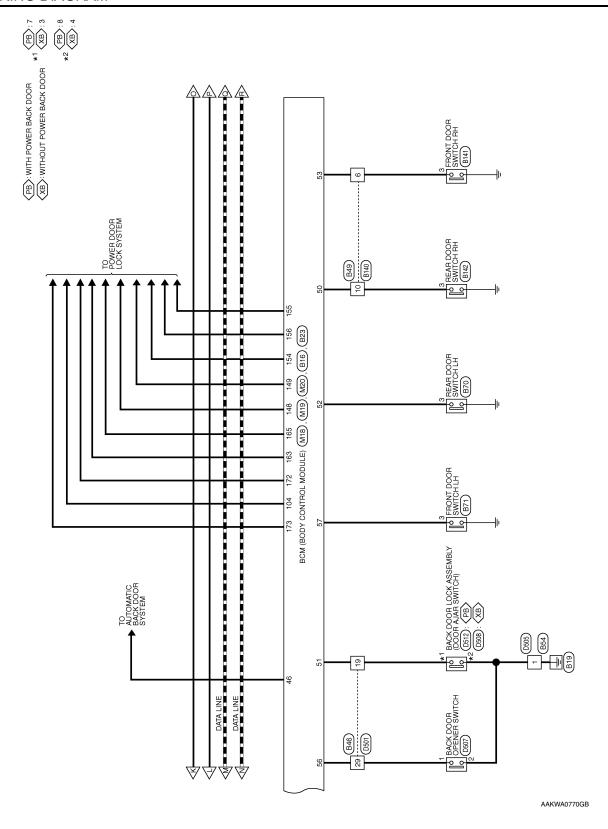
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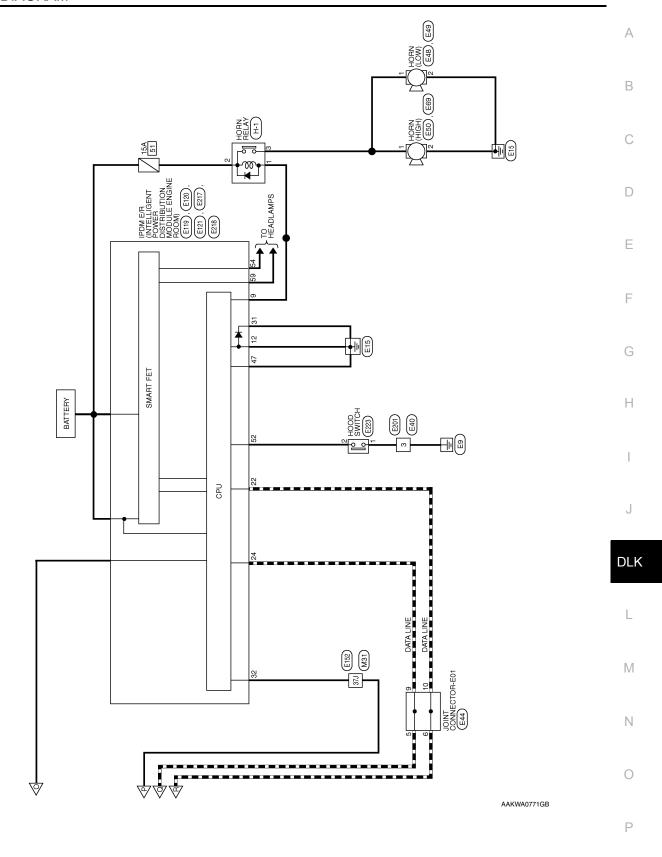
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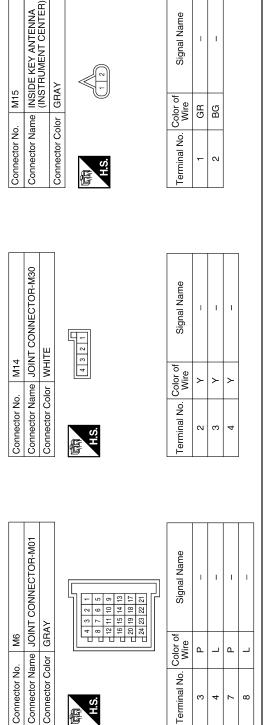








INTELLIGENT KEY SYSTEM CONNECTORS



Signal Name

M18	Connector Name BCM (BODY CONTROL MODULE)	GRAY	
Connector No.	Connector Name	Connector Color GRAY	崎高 H.S.

PUSH-BUTTON IGNITION SWITCH

Connector Name

M17

Connector No.

WHITE

Connector Color



Signal Name	I	-	-	I
Color of Wire	В	\	В	Μ
Terminal No. Wire	4	5	7	8

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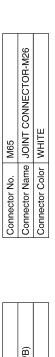
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													\top	T	<u> </u>	<u> </u>			7											Α
												Signal Name			1 1	1	1	1	1											В
												Color of	/Ire	α α	ا ۵	5 O	>													С
																														D
												Terminal No.	13.1	3 -	4 7	161	37.1	613	3											Е
															ſſ													_]	F
Signal Name	SES EXT DR ANTENNA A	I START SW	I DR KNOB SW	I IGN SW (WITHOUT IKEY)	O GND AUTOLIGHT SENSOR	SES INT FRONT ANTENNA B	SES INT FRONT ANTENNA A	SES EXT AS ANTENNA B	SES EXT AS ANTENNA A	SES EXT DR ANTENNA B			RE			1-10	2 5	16/15/14/13/12/11/	30J 29J 28J 27J 26J 25J 24J 23J 22J	41.1 40.1 39.1 38.1 37.1 36.1 35.1 34.1 33.1 32.1 31.1	500 490 483 473 463 453 443 433 423	61J 60J 59J 58J 57J 56J 55J 54J 53J 52J 51J 70J 69J 68J 67J 66J 65J 64J 63J 62J		81) 80) 73) 72) 73) 74) 75) 71) 80) 89) 88) 87) 86) 85) 84) 83) 82)		920 910	J 97J 96J			G
	SE	S-	I DP	I TIW)	O GNE	SES	SES	SE A	A SE	SE		-	WIRE TO WIRE	WHITE		51	3 3		290 280 270 3	390 380 370	490 480 470	1 59J 58J 57J 5		89, 88, 87,		95, 94, 93, 92, 91	1000 990 980 970 960			Н
Color of Wire	>	>	۳	>	BG	BG	GR	SB	۵	BR		lo. M31		-				21,0120.	30	410 40	<u> </u>	61,1 60,		08 08						ı
Terminal No.	100	101	104	105	110	116	117	118	119	120		Connector No.	Connector Name	Connector Color		in the last of the	Ö												1	J
'	1					ī		I		1	J			<u> </u>	Ľ	_	_													DLK
9 COTINGO MODEL	MODULE)	ACA.			100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 12011911811711161191108110811081108110811081081081081081081		Signal Nam	BUTTON SW (WITH IKEY)	O START SW BACKLIGHT LED	I AT LOCKED IN PARK SW	I SHORTING PIN	0:	Connector Name BCM (BODY CONTROL MODULE)	BDAWN	Nigo	167 166 165 164	417317217117011691168	Signal Name	I PWR ECU	O PWM ROOMLAMP 1	O AS LOCK OR UNLOCK D	O DR OR FR LOCK D	I PWR DOORLOCK1	I PWR STOP LAMP	l GND1	I GND2	O FR OR DR UNLOCK D	O RR SUPERLOCK D		L
	_	_			5 95 94 93 6115114113	Color of	Wire	≷	8	g	>	lo. M20	lame BC	rolo.	_	16716616	11/01/01/1	Color of	3	SB	٦	>	P	GR	В	В	G	>		Ν
Connector No.	Collifector Name	COLLINECTOR COLOR		H.S.	100 99 98 97 96 120 119 118 117 116		l erminal No.	82	88	94	92	Connector No.	Connector N	Jolon John		E	H.S.	Terminal No.	161	162	163	165	167	169	170	171	172	173		0
												I													AA	AKIA:	1778	GB		

INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

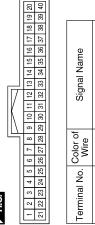
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S A S C C C C C C C C C	Signal Name	_	-
8 7 6	Color of Wire	В	В
哥 H.S.	Terminal No. Wire	1	5



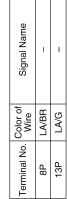
Connector No.	M76
Connector Name	Connector Name COMBINATION METER
Connector Color WHITE	WHITE
a	



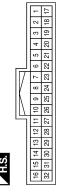
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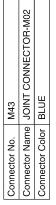




M69	WIRE TO WIRE	WHITE
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE



Signal Name	ı	1	ı	_	1	1
Color of Wire	BG	BG	GR	GR	۵	٦
Terminal No. Wire	20	21	22	53	24	52







Signal Name	-	1	I	_	ı	I
Color of Wire	٦	Т	Г	Ь	Ь	Ь
Terminal No. Wire	1	2	5	11	12	15

Connector No. Connector Name Connector Color	Connector No. M68 Connector Name FUSE BLOCK (J/B) Connector Color BROWN
TR 6R 15R 16R 15R 1	5R 4R 3R 2R 1R



Signal Name	_	-	ı	_
Color of Wire	^	LA/V	GR	W
Terminal No. Wire	3R	7R	10R	14R

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INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

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Connector No. Connector Name	o. M77 ame COMBI	Connector No. M77 Connector Name COMBINATION METER Connector Color WHITE	Connector No. M91 Connector Name WIRE TO WIRE Connector Color WHITE	o. M91 ame WIRE T olor WHITE	E TO WIRE	Connector No. Connector Name Connector Color		M107 CVT SHIFT SELECTOR WHITE	
用.S.	41 42 43	43 44 45 46 49 50 51 52	H.S.	2 3 4 4 5 1 16 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 7 8 9 10 11 12 18 19 20 21 22 23 24	是 H.S.	8 7 8 1 15 1 4 1 6	13 5 1 1 1 1 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 1 0 0 0 1	
Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	
41	SB	CAN-H	-	В	ı	12	_	ı	
42	ГG	CAN-L	4	W	ı	13	g	1	
45	LA/G	BAT	5	Ь	ı				
46	LA/BR	IGN	9	SB	ı				
52	В	GND2							
Connector No.	o. M167	37	Connector No.	o. M168	8	Connector No.	o. M170		
Connector Name		WIRE TO WIRE	Connector Name		WIRE TO WIRE	Connector Name		JOINT CONNECTOR-M29	
Connector Color	olor WHITE	IITE	Connector Color	olor WHITE	TE	Connector Color	olor WHITE	Щ	
H.S.	8 9 10 1	11 12 13 14 15 16	所 H.S.	13 14 15 1	4 5 6 7 8 9 10 11 12 12 13 19 20 21 22 23 24	(S.H.	8 7 6 5	4 3 2 1 1	
Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	
4	В	1	က	>	1	-	В	1	
			4	>	1	2	В	1	
			5	BR	ı	5	В	I	

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H.S.	1 2	1 2 1 10 10 10 10 10	1 2 1 10 10 10 10 10
	a	1 4 1	

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INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

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Connector No. E50 Connector Name HORN (HIGH) Connector Color BLACK Lis.	Terminal No. Color of Wire 2 B -	Connector No. E120 Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color GRAY So 28 27 26 25 24 23 22 21 20 18 A.S. 42 41 40 38 38 37 38 38 38 38 31	Terminal No. Color of Signal Name 22 P CAN-L 24 L CAN-H 31 B MOTOR CABIN 5 32 GR MOTOR CABIN 6	E C
Connector No. E49 Connector Name HORN (LOW) Connector Color BLACK H.S.	Terminal No. Color of Wire Signal Name	Connector No. E119 Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color GRAY S 8 7 6 5 4 3 H.S. S 18 17 16 15 14 13 2 11 10	Terminal No. Color of Signal Name 9 L LO HORN RLY 12 B SIGNAL GROUND	F
Connector No. E48 Connector Name HORN (LOW) Connector Color BLACK	Terminal No. Color of Wire 2 B –	Connector No. E69 Connector Name HORN (HIGH) Connector Color BLACK	Terminal No. Color of Signal Name 1 R	DL L

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lal No. Color of Signal Name Wire	n @	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	- G	'J GR –		-	Connector No. E218 PDM E/R (INTELLIGENT Connector Name MODULE ENGINE ROOM) Connector Color WHITE #1.S Terminal No. Color of Signal Name 59 G O LIGHT HBEAM LH 50
Terminal No.	140	157	16J	37.7	61)		Connector Ne Connector Ne
E152 WIRE TO WIRE	WHITE		1, 2, 3, 4, 5,	2 R 3 R		31.1 22.1 53.1 24.1 25.1 25.1 77.1 28.1 29.1 30.1 31.1 22.1 53.1 34.1 35.1 36.3 17.1 38.1 39.1 40.1 41.1 42.1 43.1 44.1 45.1 46.2 17.7 48.1 49.1 50.1 51.1 52.1 53.1 54.1 55.1 56.1 57.7 48.1 49.1 50.1 51.2 52.1 53.1 54.1 75.1 75.1 77.1 78.1 78.1 80.1 80.1 70.1 71.1 72.1 72.1 73.1 74.1 75.1 75.1 77.1 78.1 78.1 80.1 80.1 81.1 82.1 83.1 84.1 85.1 86.1 87.7 88.1 89.1 90.1 94.1 95.1 95.1 95.1 95.1 95.1 95.1 95.1	POWER DISTRIBUTION MODULE ENGINE ROOM) BROWN Signal Name re Signal Name re Signal Name re O GN REVERSE
\rightarrow	Connector Color		S			[5] [17]	Connector No. E21' Connector Name POW MOI Connector Color BRC H.S. St. No. Color of St. No.
Connector No. E121 IPDM E/R (INTELLIGENT Connector Name POWER DISTRIBUTION	MODULE ENGINE	Connector Color RED		45 44 43	48 4/ 46	Terminal No. Oolor of Signal Name Wire B POWER GROUND	Connector No. E201 Connector Name WIRE TO WIRE Connector Color WHITE H.S.

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Connector No.		9		Terminal No.	Color of		Signal Name		Connector No.		23	
Connector Name		BCM (BODY CONTROL MODULE)		52	<u> </u>		I RL DOOR SW		Connector Name		BCM (BODY CONTROL MODULE)	CONTROL
Connector Color	_	GREEN		53	SB	I AS DO	I AS DOOR2 SW		Connector Color		GRAY	
	 			56	>	I TGATE O	I TGATE OPENER SW					
管				57	SB	I DR DO	I DR DOOR2 SW		E	151 150 146	151/150/149/148 147/146/145	7146145
H.S.	L			09	Γ	CA	CAN-H		H.S.	NEI DEI IONI	100000000000000000000000000000000000000	10000
60 59 58 57 56	56 55 54 53 9	52 51 50 49 48 47 46 45 44 43 42	42 41	61	BR	SES EX ANTE	SES EXT REAR ANTENNA B		- -			
77 87	2	72 71 70 69 68 67 66 65 64 63	62 61	62	>	SES INT ANTE	SES INT MIDDLE ANTENNA B		l erminal No.	. Wire		Signal Name
Terminal No.	Color of	f Signal Name		63		SES INT	SES INT MIDDLE		149	-	0 8	O RR LOCK B
97	a a	- S		64	ď	SES EX	SES EXT REAR		154	GR (ODBC	O DR OR FR LOCK B
2 6	= }	BUTTON SW		5 &	ο ο	ANTE	JTENNA A		155	۳ <u>د</u>	ORRS	O RR SUPERLOCK B
51 20	<u>ا</u> ا	I TGATE SW		3	-	5		7	157	8 8	0 0	O DI RR LEFT B
			_						160	۵	0 0 1	O DI RR RIGHT B
Connector No	B41	-		Connector No	lo B46				Connector No	No B49	0	
Connector Name		WIRE TO WIRE		Connector Name		WIRE TO WIRE			Connector Name		WIRE TO WIRE	RE
Connector Color		WHITE		Connector Color		WHITE			Connector Color		WHITE	
				£			lī.			-	0	- 1 ⊢
H.S.	1 2 3 4 5 17 18 19 20 21	5 6 7 8 9 10 11 12 13 14 15 16 21 22 23 24 25 26 27 28 29 30 31 32	1 32	H.S. 17	2 3 4 18 19 20	23 24 25	10 11 12 13 14 15 16 26 27 28 29 30 31 32	15 16 31 32	H.S.	- 0	8 9 10	0 11 12 1
Terminal No.	Color of Wire	f Signal Name		Terminal No.	Color of Wire		Signal Name		Terminal No.	Color of Wire		Signal Name
20	P	ı		19	re				9	SB		ı
21	G	1		59	>				10	>		1
22	^	ı						1				
23	BR	-										
24	Ь	1										
25	_	ı										
IN	N	L	DLł	J	I	Н	G	F	E	D	С	В
			K									

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Connector No. B63 Connector Name JOINT CONNECTOR-B01 Connector Color GRAY	H.S. (4 3 2 1 1 10 9 10 11 11 10 10 10 10 11 11 11 10 10 10	Terminal No. Color of Signal Name 3 P	Connector No. B76 Connector Name OUTSIDE KEY ANTENNA (REAR BUMPER) Connector Color GRAY	Terminal No. Color of Wire Signal Name 1 LG -
Connector No. B54 Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	Terminal No. Color of Signal Name Wire -	Connector No. B71 Connector Name FRONT DOOR SWITCH LH Connector Color WHITE	Terminal No. Color of Wire 3 SB –
Connector No. E223 Connector Name HOOD SWITCH Connector Color GRAY	H.S.	Terminal No. Color of Signal Name Wire Signal Name 1 B	Connector No. B70 Connector Name REAR DOOR SWITCH LH Connector Color WHITE	Terminal No. Color of Signal Name

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Connector No. B140	
Connector Name WIRE TO Connector Name WIRE TO Connector No. Color of Terminal No. Color	
GRAY GRAY GRAY GRAY Trof Signal Name	
Connector Name Connector Name 1 1 Color Connector No. Connector No. Connector No. 3 v v v	

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	Connector No.	D126
RE	Connector Name	Connector Name FRONT OUTSIDE HANDLE
		ASSEMBLY RH
	Connector Color BLACK	BLACK
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Signal Name	I	ı	ı	_	
Color of Wire	В	SB	Ф	В	
Terminal No. Wire	1	2	3	4	

	-	ı	1	-	
D = ^	В	SB	Ь	В	
	1	2	3	4	

,,	BACK DOOR OPENER SWITCH	里	4 6 6 7	Signal Name	I	
, 000 .	me BAC	lor WHITE		Color of Wire	^	ç
Cormector No.	Connector Name	Connector Color	原 H.S.	Terminal No. Wire	1	(
						_

Connector No. D101 Connector Name WIRE TO WIRE Connector Color WHITE	Solo la lo	0 5	△ ≶ ≶	WIRE WHIT	-	입		≝	ш			
H.S.	12 11 10 9 24 23 22 21	- 6	9 8	5 6 2		V 6	11 10 9 8 7 6 5 4 3 2 2 22 22 21 20 19 18 17 16 15 14	7 2	4 9	E 25	13	

Terminal No. Color of Wire Signal Name	В	I — Ы	Я	- SB
rminal I	-	4	2	9

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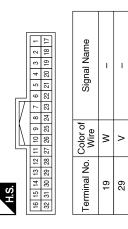
D505	WIRE TO WIRE	WHITE		f Signal Name	ı
				Color of Wire	В
Connector No.	Connector Name	Connector Color	斯 H.S.	Terminal No.	-

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Connector No.	D11
Connector Name	Connector Name FRONT OUTSIDE HANDLE
	ASSEMBLY LH
Connector Color BLACK	BLACK



Signal Name	1	I	1	1
Color of Wire	۸	SB	8	В
Terminal No.	1	7	3	4

D501	WIRE TO WIRE	WHITE	
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	



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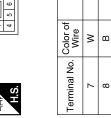
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Connector No.	D512
Connector Name	Connector Name ASSEMBLY (WITH POWER BACK DOOR SYSTEM)
Connector Color WHITE	WHITE

D508

Connector No.





Signal Name

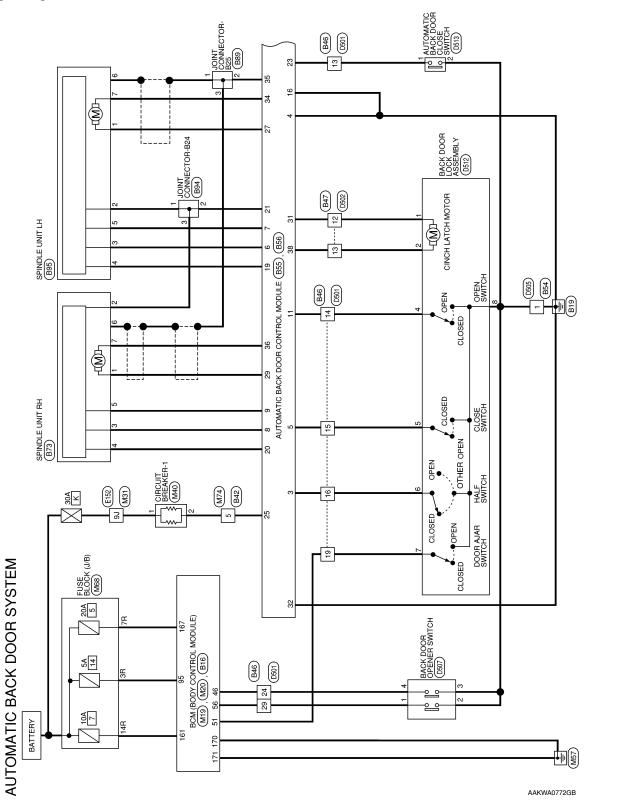
BACK DOOR LOCK ASSEMBLY (WITHOUT POWER BACK DOOR SYSTEM)	ITE	3 2 1	Signal Name	_	
	lor WH	4	Color of Wire	W	a
Connector Name	Connector Color WHITE	献 H.S.	Ferminal No. Color of Wire	3	_

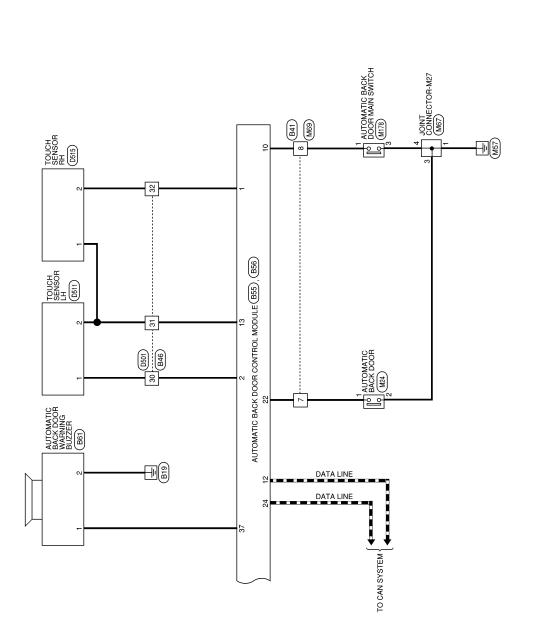
Revision: November 2013

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AUTOMATIC BACK DOOR SYSTEM

Wiring Diagram





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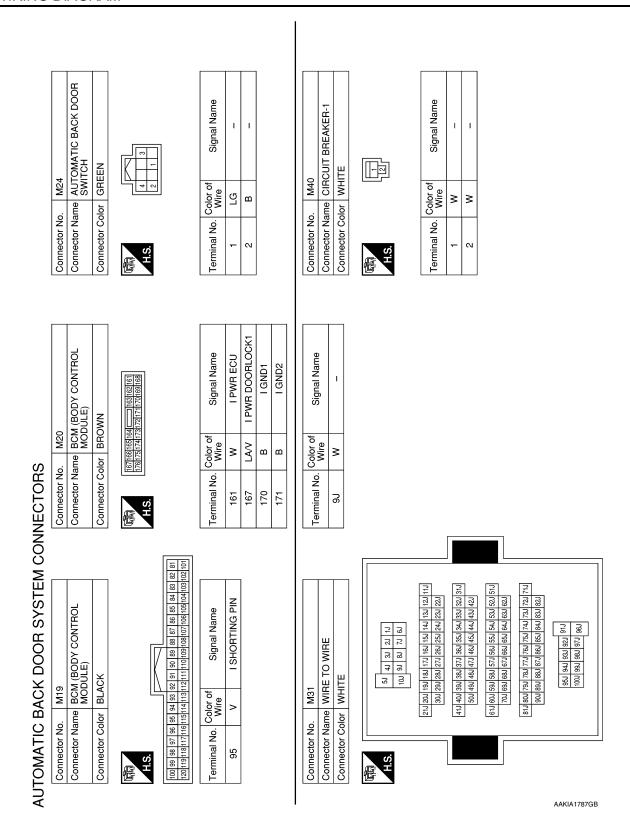
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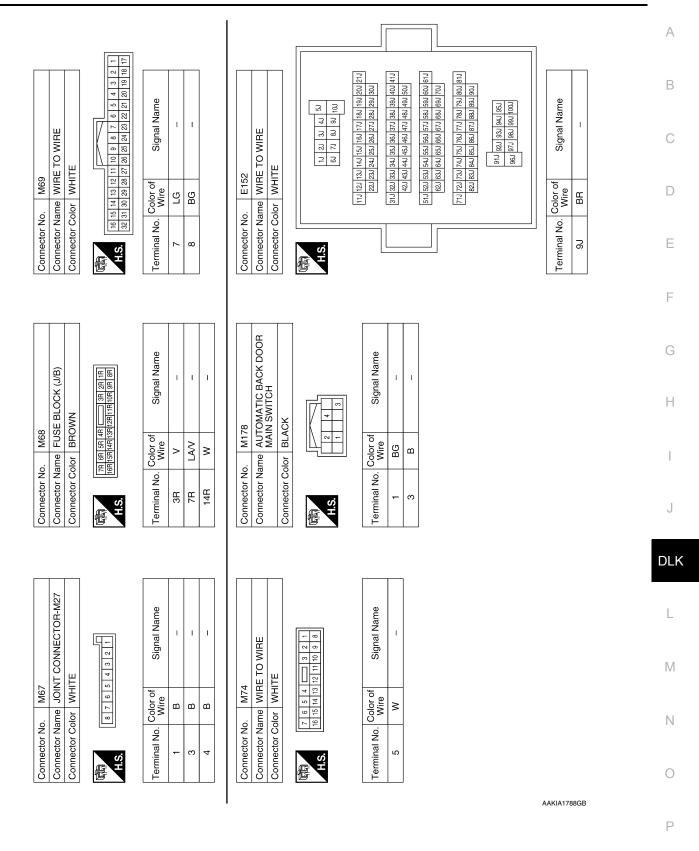
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AUTOMATIC BACK DOOR SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

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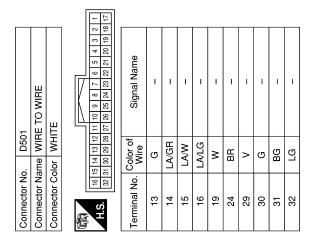


Connector No. B42	Connector Name WIRE TO WIRE Connector Color WHITE				15 16 31 22	me Terminal No. Color of Signal Name	- M			Connector No. B54	Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	me Terminal No. Color of Signal Name	- B									
Connector No. B41	Connector Name WIRE TO WIRE Connector Color WHITE		是 E		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 17 12 13 14 15 17 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 18 19 19 19 19 19 19 1	Terminal No. Color of Signal Name	7 LG 8			Connector No. B47	Connector Name WIRE TO WIRE Connector Color WHITE		Terminal No. Color of Signal Name	12 L –	13 SB –								
B16	BCM (BODY CONTROL MODULE)	GREEN			44 58 52 51 50 49 47 46 45 44 48 42 41 4 73 72 71 70 69 68 67 66 65 64 63 62 61 61 61 61 62 61 <td>Color of Signal Name Wire</td> <td>R I SES BACKDOOR BUTTON SW</td> <td>LG I TGATE SW</td> <td>Y I TGATE OPENER SW</td> <td>B46</td> <td>WIRE TO WIRE WHITE</td> <td>3 4 5 6 7 8 9 10 11 12 13 14 15 16 16 19 20 21 22 23 24 25 26 27 28 29 30 31 32</td> <td>Color of Signal Name Wire</td> <td></td> <td>- ^</td> <td>BR –</td> <td>SB -</td> <td></td> <td>1</td> <td> </td> <td></td> <td>GR –</td> <td></td>	Color of Signal Name Wire	R I SES BACKDOOR BUTTON SW	LG I TGATE SW	Y I TGATE OPENER SW	B46	WIRE TO WIRE WHITE	3 4 5 6 7 8 9 10 11 12 13 14 15 16 16 19 20 21 22 23 24 25 26 27 28 29 30 31 32	Color of Signal Name Wire		- ^	BR –	SB -		1	 		GR –	
Connector No.	Connector Name	Connector Color		H.S.	60 59 58 57 56 55 54 80 79 78 77 76 75 74	Terminal No. Wi	46 F	51 L(Connector No.	Connector Name WIRE TO WIRE Connector Color WHITE	H.S. (1 2 3)	Terminal No. Colc	13 M	V 14	15 BI	16 SI	19 LC	24 P	29 Y	э 0ε	31 GI	00

Connector No.	o. B55		Terminal No.	Color of	Signal Name	Connector No.			
Connector No	ame AU	Connector Name AUTOMATIC BACK DOOR CONTROL MODULE	ω	æ æ	A SIGN RH	Connector Name	Ime AUT	AUTOMATIC BACK DOOR CONTROL MODULE	m
Connector Color	olor BLACK	JOK	σ	SB	B SIGN RH	Connector Color	lor GRAY	\ \	
			10	BG	MAIN SW]
F			11	^	OPEN SW	僵	늬		
H.S.	2 3 4 5 14 15 16 17	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	12	Ь	CAN-L	H.S.	32 Se 57 33 33 34	35 36 37 38 35 36 37 38	
	- - - - [13	GR	TOUCH SENS GND				ſ
Terminal No.	Color of Wire	Signal Name	16	ш	HZD LMP OFF REQ	Terminal No.	Color of Wire	Signal Name	
-	re	TOUCH SENS RH	19	> 1	POWER LH	25	8	BATTERY	
2	g	TOUCH SENS LH	50 50	٦ (POWER RH	27	BR	P B/D LH MTR OPEN	z
ဧ	SB	HALF LATCH SW	27 8	<u>5</u>	GND	59	BB	P B/D RH MTR OPEN	z
4	В	AUT UNLK REG	7.7		DRIVER SW	31	٦	LATCH MTR OPEN	
5	BR	CLOSE SW	53	≱ -	INSIDE CLOSE SW	32	В	POWER GND	
9	>	A SIGN LH	74	_	CAN-H	34	ŋ	P B/D LH MTR CLOSE	щ
7	7	B SIGN LH				35	В	SPINDLE NOISE	
						36	ŋ	P B/D RH MTR CLOSE	SE
						37	>	BUZZER	
						38	SB	LATCH MTR CLOSE	
				-					
Connector No.	o. B61		Connector No.			Connector No.	. B89		
Connector Na	ame AU	Connector Name AUTOMATIC BACK DOOR	Connector Name		SPINDLE UNIT RH	Connector Na	Ime JOII	Connector Name JOINT CONNECTOR-B25	
	WA	KNING BUZZEK	Connector Color	olor WHITE	TE	Connector Color WHITE	lor WH	ТЕ	
Connector Color		BROWN						[
E		<i>«</i>	電	8 7	3		4	121	
H.S.		[2]				E L			
Terminal No.	Color of	Signal Name	Terminal No.	Color of	Signal Name	Terminal No.	Color of	Signal Name	
-	>	1	-	BB	1	-	SHELD	1	<u> </u>
2	В	ı	2	G	I	2	В	1	
			ო	æ	ı		SHIELD	1	
			4	۵	I				
			5	SB	ı				
			ဖ	SHIELD	ı				
			7	G	1				
0	N	L M	J		G H	E F	D	С	A B

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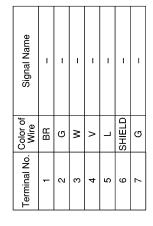
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	D507	Connector Name BACK DOOR OPENER SWITCH	WHITE	
	Connector No.	Connector Name	Connector Color WHITE	ą.

Signal Name	ı	-	ı	ı
Color of Wire	۸	GR	GR	BR
Terminal No. Wire	-	2	3	4

	UNIT LH		-	4
	DLE	ш	2	7 6 5
B95	Ĭ.	높	▮▮	7
ì	SF	≥	က	∞
Connector No.	Connector Name SPINDLE UNIT LH	Connector Color WHITE	偃	JI C



D505	WIRE TO WIRE	WHITE	
Connector No.	Connector Name WIRE TO WIRE	Connector Color	

	Signal Name	ı
	Color of Wire	В
H.S.	Terminal No.	-
	H.S.	S. Time No. Color of Wire

B94	Connector Name JOINT CONNECTOR-B24	WHITE	
Connector No.	Connector Name	Connector Color WHITE	

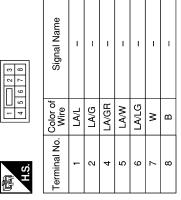
3 2 1	Signal Name	ı	ı	ı
4 3	Color of Wire	თ	g	יי
响 H.S.	Terminal No. Color of Wire	-	5	ે

12	E TO WIRE	ΠE	13 12 11 10 9 8	Signal Name	-	_
. D502	me WIF	lor WH	7 6 5 4 16 15 14 13	Color of Wire	LA/L	LA/G
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE	所 H.S.	Terminal No.	12	13

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3	AUTOMATIC BACK DOOR CLOSE SWITCH	٨٧	4 3 2 1	Signal Name	-	_
. D513		lor GRAY	9 2	Color of Wire	ŋ	М
Connector No.	Connector Name	Connector Color	崎 H.S.	Terminal No.	1	2

Connector No.	D512
Connector Name	BACK DOOR LOCK ASSEMBLY (WITH POWER BACK DOOR SYSTEM)
Connector Color WHITE	WHITE



Connector No.	D511
Connector Name	Connector Name TOUCH SENSOR LH
Connector Color WHITE	WHITE

Signal Name	-	_	
Color of Wire	В	BG	
Terminal No.	1	2	

Connector No.). D515	5
Connector Na	ume TOU	Connector Name TOUCH SENSOR RH
Connector Color	olor WHITE	ПЕ
师 H.S.		Z
Terminal No.	Color of Wire	Signal Name
1	M	_
2	ГС	-

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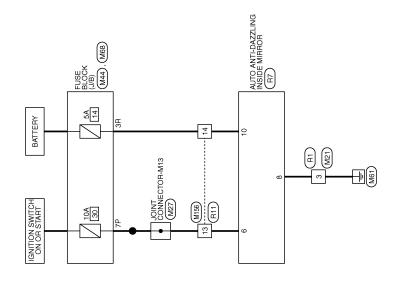
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HOMELINK UNIVERSAL TRANSCEIVER

Wiring Diagram



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HOMELINK UNIVERSAL TRANSCEIVER

[WITH INTELLIGENT KEY SYSTEM]

HOMELINK UNIVERSAL TRANSCEIVER CONNECTORS

Sonnector No. M21	Connector Name WIRE TO WIRE	Connector Color WHITE	1 2 1
Connect	Connect	Connect	

Connector Name WIRE TO WIRE	ame WIF	RE TO WIRE	Con
Connector Color WHITE	olor WH	ITE	Con
H.S.	8 8	7 6 5 4 4	 E I
Terminal No. Wire	Color of Wire	Signal Name	Term
က	В	1	

144	USE BLOCK (J/B)	/HITE	7P 6P 5P 4P (3P 2P 1P 6P 15P 14P (13P 12P 11P 10P 9P 8P 8P 3P 3P 1P 1	of Signal Name	I	
Connector No. M44	Connector Name FUSE BLOCK (J/B)	Connector Color WHITE	(TP 6P 5P 4P 1P 1P 1P 1P 1P 1P 1	Terminal No. Wire	7P Y	
7	Connector Name JOINT CONNECTOR-M13	ІТЕ	8 7 6 5 4 3 2 1	Signal Name	I	ı
M2	me JOI	lor WH	8 7 6	Color of Wire	SB	SB
Connector No. M27	Connector Na	Connector Color WHITE	(内) H.S.	Terminal No. Wire	1	9
	RE TO WIRE	ПЕ	7 6 2 1	Signal Name	I	

Signal Name	1				
Wire	>				
Terminal No. Wire	7P				
Signal Name	1	ı			
Wire	SB	SB			
Terminal No. Wire	-	9			
Signal Name	ı				

. M68	Connector Name FUSE BLOCK (J/B)	ilor BROWN	77 681 581 481 (
Connector No.	Connector Na	Connector Color BROWN	H.S.

Connector Name WIRE TO WIRE

Connector Color | WHITE

~	Connector Name FUSE BLOCK (J/B)	NMC	ग्रह कि इस अस (ह्या) अस यह । प्रह्म विका विका समी विका विका विका विका विका	Signal Name	ı
Mb8	me FUS	lor BR(7R 6R 5R 4R 16R 15R 14R 13R 1	Color of Wire	>
Connector No.	Connector Na	Connector Color BROWN	H.S.	Terminal No.	3R

Signal Name	_	_	
Color of Wire	SB	GR	
Terminal No.	13	14	

Signal Name	ı	
Solor of Wire	>	

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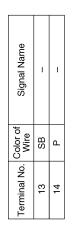
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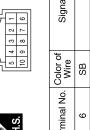
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Signal Na	I	ı	1
Color of Wire	SB	В	Ь
erminal No.	9	8	10

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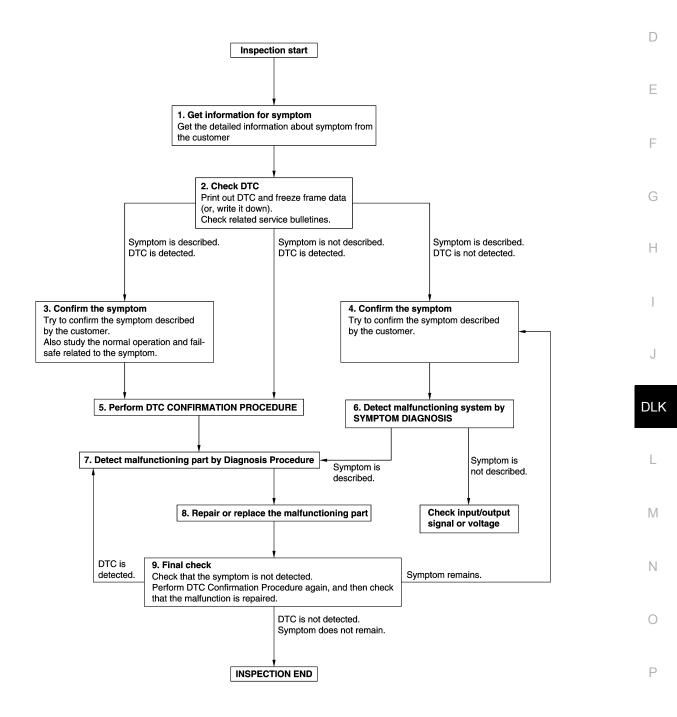
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

- 1. Check DTC.
- 2. Perform the following procedure if DTC is detected.
- Record DTC and freeze frame data. (Print them out using CONSULT.)
- Erase DTC
- Study the relationship between the cause detected by DTC and the symptom described by the customer.
- 3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected.>>GO TO 3.

Symptom is described, DTC is not detected.>>GO TO 4.

Symptom is not described, DTC is detected.>>GO TO 5.

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle and check self diagnostic results in real time. If two or more DTCs are detected, refer to BCS-47, "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-41, "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 >

[WITH INTELLIGENT KEY SYSTEM]

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to GI-41. "Intermittent Incident".

8.repair or replace the malfunctioning part

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

>> GO TO 9.

9. FINAL CHECK

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

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

Is DTC detected and does symptom remain?

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

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

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

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Revision: November 2013 DLK-99 2014 Rogue NAM

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL [WITH INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMI-NAL

Description

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

NOTE:

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

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

Work Procedure INFOID:0000000010283191

1.INITIALIZATION

- Fully close the back door manually. (When back door is already fully closed, this operation is not necessary).
- 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.

NOTE:

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.

>> Inspection End.

ADDITIONAL SERVICE WHEN REPLACING BCM

< BASIC INSPECTION >

Intelligent Key.

[WITH INTELLIGENT KEY SYSTEM]

ADDITIONAL SERVICE WHEN REPLACING BCM

Description

NFOID:000000010283192

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

Work Procedure

Refer to the CONSULT Immobilizer mode and follow the on-screen instructions.

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ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL UNIT

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL UNIT

Description INFOID:000000010283194

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

NOTE:

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

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

Work Procedure

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.

NOTE:

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.

>> Inspection End.

CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION [WITH INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

\mathbf{C}	ΔΙ	IRR		J OF		MATIC	BACK	DOOP	POSITION	I INFORMATION
ι,	ΑI	אסו	АПОЛ	リレノ	AUIU	WALK	DAUN	ールハス	PUSITION	INCURIVATION

	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Description	INFOID:0000000010283196
When the following work is performed, it is necessary to perform initial setting of automatic back information to operate automatic back door system. • After removing and installing or replacing back door assembly • After removing and installing or replacing spindle unit • After adjustment or position change of the back door hinges or striker	door position
Work Procedure	INFOID:0000000010283197
1. STEP 1	
Fully close the back door manually.	
>> GO TO 2. 2. STEP 2	
 Select "AUTO BACK DOOR" using CONSULT. Select "RESET AUTO BACK DOOR STATUS" of "WORK SUPPORT" mode. Touch "START" to erase automatic back door position information. 	
>> GO TO 3.	
3.STEP 3	
Operate back door opener switch and perform automatic open operation. NOTE: At this time, automatic operation of back door is performed at half speed.	
>> GO TO 4.	
4. STEP 4	
 The back door fully opens. Check that hazard warning lamp blinks and automatic back door warning buzzer sounds nor Does hazard warning lamp blink and automatic back door warning buzzer sound normally? YES >> GO TO 5. NO >> GO TO 1. STEP 5 	rmally.
Fully close the back door.	
>> Inspection End.	

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000010283039

Refer to LAN-8, "System Description".

DTC Logic

DTC DETECTION LOGIC

NOTE

U1000 can be set if a module harness was disconnected and reconnected, perhaps during a repair. Confirm that there are actual CAN diagnostic symptoms and a present DTC by performing the Self Diagnostic Result procedure.

CONSULT Display	DTC Detection Condition	Possible cause
CAN COMM CIRCUIT [U1000]	When any listed module cannot communicate with CAN communication signal continuously for 2 seconds or more with ignition switch ON	In CAN communication system, any item (or items) of the following listed below is malfunctioning. Transmission Receiving (ECM) Receiving (VDC/TCS/ABS) Receiving (METER/M&A) Receiving (TCM) Receiving (IPDM E/R)

Diagnosis Procedure

INFOID:0000000010283041

1. PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 second or more.
- 2. Check "SELF- DIAG RESULTS".

Is "CAN COMM CIRCUIT" displayed?

YES >> Perform CAN Diagnosis as described in DIAGNOSIS section of CONSULT Operation Manual.

NO >> Refer to GI-41, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

U1010 CONTROL UNIT (CAN)

Description INFOID:000000010283042

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 two communication lines (CAN-H and CAN-L) 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".

DTC Logic

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000010283044

1. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

When DTC "U1010: CONTROL UNIT(CAN)" is detected, replace automatic back door control module.

>> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

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B2401 IGNITION POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2401 IGNITION POWER SUPPLY CIRCUIT

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2401	IGN OPEN	Automatic back door control module cannot detect ignition switch ON signal via CAN communication with BCM.	BCM Automatic back door control module CAN communication system

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-106</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010283046

1. CHECK BCM OUTPUT SIGNAL

- 1. Select "IPDM E/R" using CONSULT.
- 2. Select "PUSH SW" in "Data Monitor" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
PUSH SW Ig	Ignition switch	Pressed	Close
	ignition switch	Not pressed	Open

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

NO >> Replace BCM. Refer to BCS-75, "Removal and Installation".

B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2409 HALF LATCH SWITCH

DTC Logic INFOID:0000000010283047

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2409	HALF LATCH SW	Automatic back door control module detects a mal- function of half latch switch during automatic oper- ation of back door.	Entry of foreign materials to back door lock assembly Back door mechanism Automatic back door control module Half latch switch Harness or connectors

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-107</u>, "<u>Diagnosis Procedure</u>".

>> Inspection End. NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-86, "Wiring Diagram".

${f 1}$.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

YFS >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CHECK HALF LATCH SWITCH MONITOR ITEM

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

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

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 4.

f 4.CHECK HALF LATCH SWITCH INPUT SIGNAL

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B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

- 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 Connector Terminal		(-)	Voltage (Approx.)	
			(* * * * * * * * * * * * * * * * * * *	
D512	6	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK HALF LATCH SWITCH CIRCUIT

- 1. Disconnect automatic back door control module connector.
- 2. 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
B55	3	D512	6	Yes

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

Automatic back door control module			Continuity
Connector Terminal		Ground	Continuity
B55	3		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276</u>, "Removal and Installation".

NO >> Repair or replace harness.

6.CHECK HALF LATCH SWITCH GROUND CIRCUIT

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

Back door lock assembly			Continuity
Connector Terminal		Ground	Continuity
D512	8		Yes

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness or connector.

7. CHECK HALF LATCH SWITCH

Refer to DLK-108, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace back door lock assembly. Refer to <u>DLK-263</u>, "<u>DOOR LOCK</u>: Removal and Installation".

8. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000010283049

B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

1. CHECK SWITCH

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

Back door loc	Back door lock assembly		Condition	Continuity
Termi	Terminal		Condition	
4			Open	Yes
4	8		Fully closed/Half latch	No
5		Back door lock	Fully close	Yes
3			Open/Half latch	No
6			Open	Yes
O			Fully closed/Half latch	No
7		Back door	On	Yes
	switch	Off	No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to <u>DLK-263, "DOOR LOCK: Removal and Installation"</u>.

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B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2416 TOUCH SENSOR RH

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2416	TOUCH SEN R OPEN	Automatic back door control module detects a mal- function of touch sensor RH during automatic oper- ation of back door.	Improper installation of touch sensor Touch sensor RH Harness or connectors Automatic back door control module

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-110</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010283051

Regarding Wiring Diagram information, refer to <u>DLK-86</u>, "Wiring Diagram".

1. CHECK INSTALLATION OF TOUCH SENSOR RH

Check that touch sensor RH is installed normally.

Refer to DLK-264, "TOUCH SENSOR: Removal and Installation".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>DLK-264</u>, "TOUCH SENSOR : Removal and Installation".

2.CHECK TOUCH SENSOR MONITOR ITEM

- 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	Touch sensor RH	Other than below	OFF
	Touch sensor Kn	Detect obstruction	ON

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 3.

3.CHECK TOUCH SENSOR INPUT SIGNAL

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

B2416 TOUCH SENSOR RH

[WITH INTELLIGENT KEY SYSTEM]

(+)	(-	-)	Condition		
Touch so	ensor RH		door control mod- le			Voltage (Approx.)
Connector	Terminal	Connector	Terminal			
D515	1	B55	13	Touch sensor	Detect obstruc- tion	1.8 – 5 V
פוטם	ı	600	13	RH	Other than above	2.72 – 7.27 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK TOUCH SENSOR RH CIRCUIT

1. Disconnect automatic back door control module and touch sensor RH connector.

Check continuity between automatic back door control module harness connector and touch sensor RH harness connector.

Automatic back do	Automatic back door control module		Touch sensor RH		
Connector	Terminal	Connector Terminal		Continuity	
B55	1	D515	2	Yes	

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

Automatic back door control module			Continuity
Connector	Connector Terminal		Continuity
B55	1		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276</u>, "Removal and Installation".

NO >> Repair or replace harness.

5. CHECK TOUCH SENSOR RH GROUND CIRCUIT

Disconnect automatic back door control module and touch sensor RH connector.

Check continuity between automatic back door control module harness connector and touch sensor RH harness connector.

Automatic back do	Automatic back door control module		Touch sensor RH	
Connector	Terminal	Connector Terminal		Continuity
B55	13	D515	1	Yes

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

Automatic back do	or control module		Continuity
Connector	Connector Terminal		Continuity
B55	13		No

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6.CHECK TOUCH SENSOR RH GROUND CIRCUIT 2

- Connect automatic back door control module and touch sensor RH connector.
- Check voltage between automatic back door control module harness connector and ground.

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B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

	(+)		Voltage
Automatic back	Automatic back door control module		Voltage (Approx.)
Connector	Terminal		, , , ,
B55	B55 13		0.01 – 0 V

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

7. CHECK TOUCH SENSOR RH

Refer to DLK-112, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace touch sensor RH. Refer to DLK-264, "TOUCH SENSOR: Removal and Installation".

8. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000010283052

1. CHECK TOUCH SENSOR RH

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

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace touch sensor RH. Refer to DLK-264, "TOUCH SENSOR: Removal and Installation".

B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2417 TOUCH SENSOR LH

DTC Logic INFOID:0000000010283053

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2417	TOUCH SEN L OPEN	Automatic back door control module detects a mal- function of touch sensor LH during automatic oper- ation of back door.	Improper installation of touch sensor Touch sensor LH Harness or connectors 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 <u>DLK-113</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-86, "Wiring Diagram".

1. CHECK INSTALLATION OF TOUCH SENSOR LH

Check that touch sensor LH is installed normally.

Refer to <u>DLK-264</u>, "TOUCH SENSOR: Removal and Installation".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to DLK-264, "TOUCH SENSOR: Removal and Installation".

2.CHECK TOUCH SENSOR MONITOR ITEM

- Select "AUTO BACK DOOR" using CONSULT.
- Select "TOUCH SEN LH" in "Data Monitor" mode.
- Check that the function operates normally according to the following conditions.

Monitor item	C	Status	
TOUCH SEN LH	Touch sensor LH	Other than below	OFF
	TOUCH SENSOI LIT	Detect obstruction	ON

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 3.

3.check touch sensor input signal

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

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B2417 TOUCH SENSOR LH

[WITH INTELLIGENT KEY SYSTEM]

(+)	(-	–)			
Touch s	ensor LH		door control mod- ile	Condition		Voltage (Approx.)
Connector	Terminal	Connector	Terminal			
D511	2 B55	B55 13	13	Touch sensor	Detect obstruc- tion	1.8 – 5 V
D311			13	LH	Other than above	2.72 – 7.27 V

Is the inspection result normal?

YES >> GO TO 5. NO >> GO TO 4.

4. CHECK TOUCH SENSOR LH CIRCUIT

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

Automatic back door control module		Touch sensor LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B55	2	D511	1	Yes

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

Automatic back do	or control module		Continuity
Connector	Connector Terminal		Continuity
B55	2		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

NO >> Repair or replace harness.

${f 5}.$ check touch sensor LH ground circuit

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

Automatic back do	Automatic back door control module		Touch sensor LH		
Connector	Terminal	Connector Terminal		Continuity	
B55	13	D511	2	Yes	

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

Automatic back do	or control module		Continuity
Connector	Connector Terminal		Continuity
B55	13		No

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

6. CHECK TOUCH SENSOR LH GROUND CIRCUIT 2

- 1. Connect automatic back door control module and touch sensor LH connector.
- 2. Check voltage between automatic back door control module harness connector and ground.

B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

	(+)		Valtage	
Automatic back of	door control module	(-)	Voltage (Approx.)	
Connector	Connector Terminal		, , , , , , , , , , , , , , , , , , ,	
B55	13	Ground	0.01 – 0 V	

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

7.check touch sensor LH

Refer to DLK-112, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace touch sensor LH. Refer to DLK-264, "TOUCH SENSOR: Removal and Installation"

8. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK TOUCH SENSOR LH

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

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace touch sensor LH. Refer to <u>DLK-264, "TOUCH SENSOR: Removal and Installation"</u>.

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B2419 OPEN SWITCH

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2419	OPEN SW	Automatic back door control module detects a mal- function of open switch during automatic operation of back door.	Entry of foreign materials to back door lock assembly Back door mechanism Automatic back door control module Open switch Harness or connectors

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-116</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DLK-86</u>, "Wiring Diagram".

1. CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK OPEN SWITCH SIGNAL

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

Monitor item	Condition		Status
OPEN SW Back door	Rack door	Fully closed/Half latch	OFF
	Dack door	Open	ON

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 4.

4. CHECK OPEN SWITCH INPUT SIGNAL

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

(+)		Voltage (Approx.)	
Back door loo	k assembly	(–)		
Connector Terminal			,	
D512	4	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK OPEN 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 de	oor control module	Back door lock assembly		Continuity
Connector	Terminal	Connector Terminal		Continuity
B55	11	D512	4	Yes

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

Automatic back d	oor control module		Continuity
Connector Terminal		Ground	Continuity
B55	11		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-276, "Removal and Installation".

NO >> Repair or replace harness.

$oldsymbol{\mathsf{O}}.\mathsf{CHECK}$ OPEN SWITCH GROUND CIRCUIT

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

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D512	8		Yes

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK OPEN SWITCH

Refer to DLK-108, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace back door lock assembly. Refer to DLK-263, "DOOR LOCK: Removal and Installation".

8. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

COMPONENT INSPECTION

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B2419 OPEN SWITCH

[WITH INTELLIGENT KEY SYSTEM]

1. CHECK SWITCH

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

Back door lock	Back door lock assembly		Condition	Continuity	
Termi	Terminal		Condition		
4			Open	Yes	
4			Fully closed/Half latch	No	
5	Back door lock Back door switch	Back door lock	Fully close	Yes	
3			Open/Half latch	No	
6			Open	Yes	
O			Fully closed/Half latch	No	
7		Back door	On	Yes	
		Off	No		

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to DLK-263, "DOOR LOCK: Removal and Installation".

B2420 CLOSE SWITCH

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2420	CLOSE SW	Automatic back door control module detects a mal- function of close switch during automatic operation of back door.	Entry of foreign materials to back door lock assembly Back door mechanism Automatic back door control module Close switch Harness or connectors

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 <u>DLK-119</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-86, "Wiring Diagram".

1. CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK CLOSE SWITCH SIGNAL

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

Monitor item	Condit	Status	
CLOSE SW	Rack door	Open/Half latch	OFF
	Back door	Fully closed	ON

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 4.

4. CHECK CLOSE SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.

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B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

- 2. Disconnect back door lock assembly connector.
- Check voltage between back door lock assembly harness connector and ground.

(+) Back door lock assembly		(-)	Voltage (Approx.)	
Connector	Terminal		(p.p. 6711)	
D512	5	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. 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	Continuity	
Connector	Terminal	Connector Terminal		
B55	5	D512	5	Yes

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

Automatic back d	oor control module		Continuity
Connector	Terminal	Ground	Continuity
B55	5		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-276, "Removal and Installation".

NO >> Repair or replace harness.

6.CHECK CLOSE SWITCH GROUND CIRCUIT

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

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D512	8		Yes

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK CLOSE SWITCH

Refer to DLK-108, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace back door lock assembly. Refer to <u>DLK-263, "DOOR LOCK: Removal and Installation"</u>.

8.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

COMPONENT INSPECTION

INFOID:0000000010283061

B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

1.CHECK SWITCH

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

Back door lock	Back door lock assembly		Condition	Continuity
Termi	Terminal		Condition Continuity	
4			Open	Yes
4		Back door lock	Fully closed/Half latch	No
5			Fully close	Yes
5			Open/Half latch	No
6	8		Open	Yes
O			Fully closed/Half latch	No
7	Back door switch	Back door	On	Yes
		switch	Off	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to <u>DLK-263, "DOOR LOCK: Removal and Installation".</u>

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B2422 BACK DOOR STATE

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2422	BACK DOOR STATE	When the automatic back door control module detects back door position malfunction according to the pulse signal.	Improper installation of back door assembly [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete Back door mechanism Encoder Automatic back door control module Harness or connectors

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-122</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DLK-86</u>, "Wiring Diagram".

1.calibration of automatic back door position information

- Perform initialization setting of automatic back door position information. Refer to <u>DLK-102</u>, "Work <u>Procedure"</u>.
- Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> GO TO 2.

NO >> Inspection End.

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

- Check that back door assembly is installed normally. Refer to <u>DLK-250</u>. "BACK DOOR ASSEMBLY: Adjustment".
- 2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts and pinched foreign materials.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK ENCODER SIGNAL

- 1. Select "AUTOMATIC BACK DOOR" using CONSULT.
- 2. Select "SPINDLE SENSOR LH" and "SPINDLE SENSOR RH" in "Data Monitor" mode.
- Check that the function operates normally according to the following conditions.

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Monitor item	Status
SPINDLE SENSOR LH	0 – 65535
SPINDLE SENSOR RH	0 – 65535

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

YES >> GO TO 4.

NO >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

4. CHECK ENCODER POWER SUPPLY

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

(+) Spindle unit		(–)	Voltage (Approx.)	
Conr	nector	Terminal		(. 'PP(OV')
LH	B95	4	Ground	Pottony voltago
RH	B73	4	Giodila	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK ENCODER CIRCUIT

1. Disconnect automatic back door control module connector.

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

Automatic back d	oor control module	Spindle unit		Spindle unit		Continuity
Connector	Terminal	Con	nector	Terminal	Continuity	
B55	19	LH	B95	4	Yes	
Б33	20	RH	B73	4	165	

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

Automatic back de	oor control module		Continuity
Connector	Terminal	Ground	Continuity
B55	19	Ground	No
500	20		140

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276</u>, "Removal and Installation".

NO >> Repair or replace harness.

6. CHECK ENCODER CIRCUIT 2

1. Disconnect automatic back door control module connector.

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

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B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back d	oor control module	Spindle unit		Spindle unit		Continuity
Connector	Terminal	Connector		Terminal	Continuity	
	6	LH	B95	3		
B55	7	LII	D90	5	Yes	
D00	8 PH P73	3	res			
	9	КП	RH B73	5	1	

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

Automatic back d	oor control module		Continuity	
Connector Terminal			Continuity	
	6	Ground		
B55	7	Ground	No	
	8		INO	
	9			

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK ENCODER CIRCUIT 3

- 1. Connect automatic back door control module and spindle unit connector
- 2. Check continuity between automatic back door control module harness connector and ground.

Automatic back de	oor control module		Voltage	
Connector	Terminal	Ground	(Approx.)	
B55	21		0 V	

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace automatic back door control module. Refer to <u>DLK-276. "Removal and Installation"</u>.

8. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

NO >> Repair or replace the malfunctioning parts.

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

DTC Logic INFOID:0000000010283064

DTC DETECTION LOGIC

DTC	CONSULT display de- scription	DTC detecting condition	Possible cause
B2423	ABD MTR TIME OUT	When the automatic back door control module and spindle motor operate in the same direction for 180 seconds or more continuously.	Spindle motor Automatic back door control module Harness or connector

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-125</u>, "<u>Diagnosis Procedure</u>".

>> Inspection End. NO

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-86, "Wiring Diagram".

1.ERASE DTC

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

Is DTC detected?

YES >> GO TO 2.

NO >> Inspection End.

2.CHECK SPINDLE MOTOR CIRCUIT

- Turn ignition switch OFF.
- Disconnect automatic back door control module and spindle unit connector.
- Check continuity between automatic back door control module harness connector and spindle unit harness connector.

Automatic back d	oor control module	Spindle unit			Continuity	
Connector	Terminal	Connector		Terminal	Continuity	
	27	LH	B95	1		
B56	34	EU	D90	7	Yes	
Б30	29	RH	B73	1	165	
	36	КП		В/3	B/3	7

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

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B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back	door control module		Continuity
Connector	Terminal		Continuity
	27	Ground	
B56	29	Glound	No
B30	34		INO
	36		

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

NO >> Repair or replace harness.

B2426 ENCODER

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[WITH INTELLIGENT KEY SYSTEM]

B2426 ENCODER

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2426	SPINDLE SENSOR LH	When the automatic back door control module can not receive the pulse signal from the encoder just after starting the open/close operation.	Improper installation of back door assembly [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete Back door mechanism Automatic back door control module Encoder Harness or connectors

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-127, "Diagnosis Procedure"</u>.

NO >> Inspection End.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DLK-86</u>, "Wiring Diagram".

1. CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

 Perform initialization setting of automatic back door position information. Refer to DLK-102, "Work Procedure".

2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> GO TO 2.

NO >> Inspection End.

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

 Check that back door assembly is installed normally. Refer to <u>DLK-250</u>, "BACK DOOR ASSEMBLY: Adjustment".

2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK ENCODER SIGNAL

- 1. Select "AUTO BACK DOOR" using CONSULT.
- 2. Select "SPINDLE LH ENCODER A" and "SPINDLE LH ENCODER B" in "Data Monitor" mode.
- Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

4. CHECK ENCODER POWER SUPPLY

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

(+ Spindle	unit LH	(-)	Voltage (Approx.)
Connector	Terminal		(Approx.)
B95	4	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK ENCODER CIRCUIT

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

Automatic back d	Automatic back door control module		Spindle unit LH	
Connector	Terminal	Connector	Terminal	Continuity
B55	19	B95	4	Yes

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

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	19		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276</u>, "Removal and Installation".

NO >> Repair or replace harness.

6. CHECK ENCODER CIRCUIT 2

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

Automatic back d	oor control module	Spindle unit LH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B55	6	B95	3	Yes
500	7		5	165

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

B2426 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	6	Ground	No
D00	7		INU

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK ENCODER CIRCUIT 3

Connect automatic back door control module and spindle unit LH connector.

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

Automatic back door control module			Voltage
Connector	Terminal	Ground	(Approx.)
B55	21		0 V

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

8. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

NO >> Repair or replace the malfunctioning parts.

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Revision: November 2013 DLK-129 2014 Rogue NAM

[WITH INTELLIGENT KEY SYSTEM]

INFOID:0000000010283069

B2427 ENCODER

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2427	SPINDLE SENSOR RH	When the automatic back door control module can not receive the pulse signal from the encoder just after starting the open/close operation.	Improper installation of back door assembly [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete Back door mechanism Automatic back door control module Encoder Harness or connectors

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-130</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

1.calibration of automatic back door position information

Regarding Wiring Diagram information, refer to <u>DLK-86</u>, "Wiring <u>Diagram"</u>.

- Perform initialization setting of automatic back door position information. Refer to <u>DLK-102</u>, "<u>Work Procedure</u>".
- 2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

YES >> GO TO 2.

NO >> Inspection End.

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

- Check that back door assembly is installed normally. Refer to <u>DLK-250</u>, "BACK DOOR ASSEMBLY: Adjustment".
- 2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK ENCODER SIGNAL

- 1. Select "AUTO BACK DOOR" using CONSULT.
- 2. Select "SPINDLE RH ENCODER A" and "SPINDLE RH ENCODER B" in "Data Monitor" mode.
- 3. Check that the function operates normally according to the following conditions.

[WITH INTELLIGENT KEY SYSTEM]

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

4. CHECK ENCODER POWER SUPPLY

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

(+	,	, ,	Voltage	
Spindle Connector	unit RH Terminal	(–) Voltage (Approx.)	(Approx.)	
B73	4	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK ENCODER CIRCUIT

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

Automatic back de	oor control module	Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B55	20	B73	4	Yes

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

Automatic back door control module			Continuity
Connector	Connector Terminal		Continuity
B55	20		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-276, "Removal and Installation".

NO >> Repair or replace harness.

6.CHECK ENCODER CIRCUIT 2

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

Automatic back d	oor control module	Spindle unit RH		Continuity
Connector	Terminal	Connector Terminal		Continuity
B55	8	B73	3	Yes
555	9	1 0/3	5	165

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

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B2427 ENCODER

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	8	Ground	No
B 33	9		INU

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK ENCODER CIRCUIT _3

- 1. Connect automatic back door control module spindle unit RH connector.
- 2. Check continuity between automatic back door control module harness connector and ground.

Automatic back d	oor control module		Voltage
Connector	Terminal	Ground	(Approx.)
B55	21		0 V

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

8. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

NO >> Repair or replace the malfunctioning parts.

B2428 AUTOMATIC BACK DOOR CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2428 AUTOMATIC BACK DOOR CONTROL UNIT

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2428	AUTO BACK DR CNT UNIT	Automatic back door control module detected CPU malfunction	Automatic back door control module

Diagnosis Procedure

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1. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

When DTC [B2428] is detected, replace automatic back door control module.

>> Replace automatic back door control module. Refer to DLK-276, "Removal and Installation".

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B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B242A CLOSURE CONDITION

DTC Logic

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B242A	CLSR CONDITION	Automatic back door control module detects mal- functions of open switch, close switch and half latch switch when auto closure of back door operates.	Entry of foreign materials to back door lock assembly Back door mechanism Automatic back door control module Open switch Close switch Half latch switch Harness or connectors

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Refer to <u>DLK-134</u>, "<u>Diagnosis Procedure</u>".

NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000010283073

Regarding Wiring Diagram information, refer to <u>DLK-86</u>, "Wiring <u>Diagram"</u>.

1. CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Remove foreign materials.

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.check monitor item

- Select "AUTO BACK DOOR" using CONSULT.
- 2. Select "HALF LATCH SW", "OPEN SW" and "CLOSE SW" in "Data Monitor" mode.
- 3. Check that the function operates normally according to the following conditions.

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Monitor item	Co	ndition	Status
HALF LATCH SW		Fully closed/Half latch	OFF
HALF LATOR SW		Open	ON
OPEN SW	Back door	Fully closed/Half latch	OFF
OPEN SW		Open	ON
CLOSE SW		Open/Half latch	OFF
CLOSE SW		Fully closed	ON

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 4.

4. CHECK SWITCH INPUT SIGNAL

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

	(+)			
Back door le	Back door lock assembly		Voltage (Approx.)	
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	4			
D512	5	Ground	Battery voltage	
	6			

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5. CHECK 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 d	oor control module	Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	3	6		
B55	5	D512	5	Yes
	11		4	

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

Automatic back d	oor control module		Continuity
Connector	Terminal		Continuity
	3	Ground	
B55	5		No
	11		

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-276, "Removal and Installation".

NO >> Repair or replace harness.

O.CHECK SWITCH GROUND CIRCUIT

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

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B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Back door lock	assembly		Continuity
Connector	Terminal	Ground	Continuity
D512	8		Yes

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness or connector.

7. CHECK SWITCH

Refer to DLK-108, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace back door lock assembly. Refer to <u>DLK-263, "DOOR LOCK: Removal and Installation"</u>.

8. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000010283074

COMPONENT INSPECTION

1. CHECK 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
Termin	Terminal		Condition	Continuity
4			Open	Yes
4	8	Back door lock	Fully closed/Half latch	No
5			Fully close	Yes
5			Open/Half latch	No
6	0		Open	Yes
O			Fully closed/Half latch	No
7		Back door	On	Yes
		switch	Off	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to <u>DLK-263, "DOOR LOCK: Removal and Installation"</u>.

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 [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.
- 3. Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "Work support" of "INTELLIGENT KEY".
- Check BCM for DTC.

Is inside key antenna DTC detected?

YES >> Refer to <u>DLK-137</u>, "<u>Diagnosis Procedure</u>".

NO >> Inside key antenna (instrument center) is OK.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DLK-69</u>, "Wiring Diagram".

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+)		(-)	Condition	Signal	
	ВСМ		Condition	(Reference value)	
Connector	Terminal				
M19	116, 117	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA3839GB	
MT9	110, 117	Ground	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s	

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-75, "Removal and Installation"</u>.

NO >> GO TO 2.

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< DTC/CIRCUIT DIAGNOSIS >

$\overline{2}$.check inside key antenna circuit

- 1. Disconnect BCM connector and inside key antenna (instrument center) connector.
- 2. Check continuity between BCM harness connector and inside key antenna (instrument center) harness connector.

В	BCM Inside key antenna (instrument center)		Inside key antenna (instrument center)	
Connector	Terminal	Connector Terminal		Continuity
M19	117	M15	1	Yes
IVI 19	116	IVITS	2	165

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
M19	117	Ground	No
WHY	116	-	NU

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			
M19	116, 117	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB
WITS	110, 117	Glound	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-75</u>, "Removal and Installation".

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B2622 INSIDE ANTENNA

DTC Logic

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 [Inside key antenna (console) circuit is open or shorted]

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

YES >> Refer to <u>DLK-139</u>, "<u>Diagnosis Procedure</u>".

NO >> Inside key antenna (console) is OK.

Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DLK-69</u>, "Wiring Diagram".

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)	
Connector	Terminal			,	
B16	62, 63	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB	
510	02, 00	Sisund	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-75, "Removal and Installation".

NO >> GO TO 2.

< DTC/CIRCUIT DIAGNOSIS >

$\overline{2}$.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.

В	СМ	Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
P16	63	B77	1	Yes
B16	62	110	2	165

3. Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
B16	63	Ground	No
ью	62		INU

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.

-	CM Terminal	(–)	Condition	Signal (Reference value)
B16	62, 63	Ground	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA3839GB
	52, 55	<u> </u>	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). Refer to <u>DLK-271, "CONSOLE : Removal and Installation"</u>.

NO >> Replace BCM. Refer to BCS-75, "Removal and Installation".

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT AUTOMATIC BACK DOOR CONTROL UNIT

AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure

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Regarding Wiring Diagram information, refer to DLK-69, "Wiring Diagram".

1. CHECK FUSIBLE LINK

Check that the following fusible link is not open.

Fusible link No.	Signal name	
K (30A)	Battery power supply	

Is the fusible link open?

YES >> Replace the open fusible link after repairing the affected circuit.

NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 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		(-)	Voltage
Connector	Terminal		
B56	25	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK GROUND CIRCUIT

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

Automatic back de	Automatic back door control module		Continuity
Connector	Terminal		Continuity
B56	32	Ground	
B55	4		Yes
B55	16		

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.

BCM

BCM : Diagnosis Procedure

Regarding Wiring Diagram information, refer to BCS-50, "Wiring Diagram".

1. CHECK FUSE

Check that the following fuse is not blown.

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No.	Signal name	Fuse No.
161	BCM power supply	7 (10A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

- Disconnect BCM connector M20.
- 2. Check voltage between BCM connector M20 and ground.

В	CM	Ground	Voltage (Approx.)	
Connector	Terminal	Ground		
M20	161	_	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

BCM		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
M20	170	_	Yes	
WIZO	171	_	163	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

OUTSIDE KEY ANTENNA (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE KEY ANTENNA (PASSENGER SIDE)

Component Function Check

INFOID:0000000010283092

1.CHECK OUTSIDE KEY ANTENNA (RH)

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- 1. Place the Intelligent Key into the detection area of the outside key antenna (RH).
- 2. Press the door request switch (RH).

Does the door unlock?

YES >> Inspection End.

NO >> Refer to <u>DLK-143</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010283093

Regarding Wiring Diagram information, refer to DLK-69, "Wiring Diagram".

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

ВС	+) CM	(–)	Condition		Signal (Reference value)	
Connector	Terminal					
	Ground	When the driver door request switch is op-	When Intelligent Key is in the antenna de- tection area (The dis- tance between Intelligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 		
M19	118, 119	Giound	erated with ignition switch OFF	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 JMKIA5954GB	

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-75, "Removal and Installation".

NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect BCM connector and outside key antenna (RH) connector.
- 2. Check continuity between BCM harness connector and outside key antenna (RH) harness connector.

BCM		Outside key	Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
M19	119	D126	1	Yes	
W119	118	5120	2		

3. Check continuity between BCM harness connector and ground.

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OUTSIDE KEY ANTENNA (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM			Continuity
Connector	Terminal	Ground	Continuity
M19	119	No Stouriu	No
IVITS	118		INO

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 (RH). (New antenna or other antenna)
- 2. Connect BCM connector and outside key antenna (RH) connector.
- 3. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(–)	Condition		Signal (Reference value)	
Connector	Terminal					
M19 118, 119 Gro	Ground	Ground When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna de- tection area (The dis- tance between Intelligent Key and antenna: 80 cm or less)	(V) 15 10 5 0 500 ms JMKIA5955GB		
	Sidulia		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		

Is the inspection result normal?

YES >> Replace outside key antenna (RH). Refer to <u>DLK-272, "PASSENGER SIDE : Removal and Installation"</u>.

NO >> Replace BCM. Refer to BCS-75, "Removal and Installation".

OUTSIDE KEY ANTENNA (DRIVER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE KEY ANTENNA (DRIVER SIDE)

Component Function Check

INFOID:0000000010283094

1. CHECK OUTSIDE KEY ANTENNA (LH)

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- 1. Place the Intelligent Key into the detection area of the outside key antenna (LH).
- 2. Press the door request switch (LH).

Does the door unlock?

YES >> Inspection End.

NO >> Refer to <u>DLK-145</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010283095

Regarding Wiring Diagram information, refer to DLK-69, "Wiring Diagram".

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(–)	Condition		Signal (Reference value)	
Connector	Terminal				(,	
M19		Ground	is in the tection a tance be Intelliger	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	
	100, 120	100 120 Ground request switch	ated with ignition switch OFF	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 MKIAS954GB	

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Is the inspection result normal?

YES >> Replace BCM. Refer to <u>DLK-276</u>, "Removal and Installation".

NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect BCM connector and outside key antenna (LH) connector.
- 2. Check continuity between BCM harness connector and outside key antenna (LH) harness connector.

В	CM	Outside key	Continuity		
Connector Terminal		Connector	Terminal	Continuity	
M19	100	D11	1	Yes	
	120	ווט	2	165	

Check continuity between BCM harness connector and ground.

OUTSIDE KEY ANTENNA (DRIVER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

	BCM		Continuity	
Connector	Terminal	Ground	Continuity	
M19	100	Oround	No	
IVITS	120		NO	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${\it 3.}$ CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

- 1. Replace outside key antenna (LH). (New antenna or other antenna)
- 2. Connect BCM connector and outside key antenna (LH) connector.
- 3. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(–)	Condition		Signal (Reference value)	
Connector	Terminal					
M19	100, 120 Grou	Ground	When the driver door request switch is operated with ignition switch OFF Wisdow discontinuous disco	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 	
				When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	(V) 15 10 5 0 111 500 ms JMKIA5954GB	

Is the inspection result normal?

YES >> Replace outside key antenna (LH). Refer to <u>DLK-272</u>, "<u>DRIVER SIDE</u>: Removal and Installation".

NO >> Replace BCM. Refer to <u>DLK-276</u>, "Removal and Installation".

OUTSIDE KEY ANTENNA (REAR BUMPER)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE KEY ANTENNA (REAR BUMPER)

Component Function Check

INFOID:0000000010283096

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1. CHECK OUTSIDE KEY ANTENNA (REAR BUMPER)

- 1. Place the Intelligent Key into the detection area of the outside key antenna (rear bumper).
- 2. Press the door request switch (back door).

Does the door unlock?

YES >> Inspection End.

NO >> Refer to <u>DLK-147</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010283097

Regarding Wiring Diagram information, refer to DLK-69, "Wiring Diagram".

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition		Signal (Reference value)
Connector	Terminal				(Notoroniae value)
B16 61, 64	61 64	Ground	When the driver door request switch is op-	,	(V) 15 10 5 0 500 ms JMKIA5955GB
	01,04	Ground	erated with ignition switch OFF	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 JMKIA5954GB

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Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-75, "Removal and Installation".

NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

- 1. Disconnect BCM connector and outside key antenna (rear bumper) connector.
- Check continuity between BCM harness connector and outside key antenna (rear bumper) harness connector.

В	CM	Outside key ante	Continuity		
Connector	Connector Terminal		Terminal	Continuity	
B16	64	B76	1	Yes	
B10	61	БТО	2	165	

3. Check continuity between BCM harness connector and ground.

OUTSIDE KEY ANTENNA (REAR BUMPER)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

I	BCM			
Connector	Connector Terminal		Continuity	
B16	64	Ground	No	
ы	61		NO	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

${\it 3.}$ CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

- 1. Replace outside key antenna (rear bumper). (New antenna or other antenna)
- 2. Connect BCM and outside key antenna (rear bumper) connector.
- 3. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(-)	Condition		Signal (Reference value)
Connector	Terminal				
B16	61, 64	Ground	Ground When the driver door request switch is operated with ignition switch OFF	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
				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

Is the inspection result normal?

YES >> Replace outside key antenna (rear bumper). Refer to <u>DLK-272, "REAR BUMPER : Removal and Installation"</u>.

NO >> Replace BCM. Refer to <u>BCS-75</u>, "Removal and Installation".

[WITH INTELLIGENT KEY SYSTEM]

DOOR SWITCH

Component Function Check

INFOID:0000000010283098

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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
DOOR SW-DR	Driver side door	Closed	Off
DOOR SW-AS	December side deer	Open	On
DOOR SW-AS	Passenger side door	Closed	Off
DOOR SW-RL	Rear door LH	Open	On
DOOR SW-RL	Real dool Ln	Closed	Off
DOOR SW-RR	Rear door RH	Open	On
DOOK SW-KR	Real 0001 RH	Closed	Off

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to <u>DLK-149</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010283099

Regarding Wiring Diagram information, refer to DLK-69, "Wiring Diagram".

1. CHECK DOOR SWITCH INPUT SIGNAL

- 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		(–)	Signal (Reference value)	
Connector Terminal				(Reference value)	
Driver side	B71				
Passenger side	B141			(V) 15	
Rear LH	B70		Ground	10 5	
Rear RH	B142	3		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

[WITH INTELLIGENT KEY SYSTEM]

	Door switch		В	Continuity	
Coni	nector	Terminal	Connector Terminal		
Front LH	B71		B16	57	Yes
Front RH	B141	2		53	
Rear LH	B70	3	ВЮ	52	165
Rear RH	B142			50	

3. Check continuity between door switch harness connector and ground.

	Door switch		Continuity	
Coni	nector	Terminal		Continuity
Front LH	B71		Ground	
Front RH	B141	3		No
Rear LH	B70	3		NO
Rear RH	Rear RH B142			

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-75, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK DOOR SWITCH

Refer to DLK-150, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch. Refer to <u>DLK-269</u>, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000010283100

- 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				
Ground contact is part of the		Door switch	Pressed	No
	switch.	Door Switch	Released	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch. Refer to <u>DLK-269</u>, "Removal and Installation".

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR SWITCH

Component Function Check

INFOID:0000000010283101

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1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 2. Select "DOOR SW-BK" in "Data Monitor" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-BK	Back door	Open	On
DOOK OW-DIX	Dack door	Closed	Off

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to <u>DLK-151</u>, "<u>Diagnosis Procedure (With Automatic Back Door)</u>".

Diagnosis Procedure (With Automatic Back Door)

INFOID:0000000010283102

Regarding Wiring Diagram information, refer to DLK-86, "Wiring Diagram".

1. CHECK BACK DOOR SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- 3. Check signal between back door lock assembly harness connector and ground using oscilloscope.

(+) Back door lock assembly		(–)	Signal (Reference value)	
Connector	Terminal		(Neterence value)	
D512	7	Ground	(V) ₁₅ 10 5 0	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK BACK DOOR SWITCH CIRCUIT

- 1. Disconnect BCM connector.
- Check continuity between back door lock assembly harness connector and BCM harness connector.

Back door lo	ock assembly	ВСМ		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D512	7	B16	51	Yes

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

< DTC/CIRCUIT DIAGNOSIS >

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D512	7		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-75, "Removal and Installation".

NO >> Repair or replace harness.

3.check back door switch ground circuit

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

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D512	8		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

CHECK BACK DOOR SWITCH

Refer to DLK-153, "Component Inspection (With Automatic Back Door)".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to DLK-263, "DOOR LOCK: Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Diagnosis Procedure (Without Automatic Back Door)

INFOID:0000000010283103

Regarding Wiring Diagram information, refer to DLK-69, "Wiring Diagram".

1. CHECK BACK DOOR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect back door lock assembly connector.
- 3. Check signal between back door lock assembly harness connector and ground using oscilloscope.

	+) ock assembly	(-)	Signal (Reference value)	
Connector	Terminal		(Reference value)	
D508	3	Ground	(V) ₁₅ 10 5 0 +-10ms JPMIA0593GB 9.0 - 10.0 V	

Is the inspection result normal?

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

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2.check back door switch circuit

1. Disconnect BCM connector.

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

Back door lo	ock assembly	BCM		Continuity
Connector	Terminal	Connector	Terminal	Continuity
D508	3	B16	51	Yes

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

Back door	ock assembly		Continuity
Connector	Terminal	Ground	Continuity
D508	3		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-75, "Removal and Installation".

NO >> Repair or replace harness.

3.check back door switch ground circuit

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

Back door lock assembly			Continuity
Connector	Terminal	Ground	Continuity
D508	4		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BACK DOOR SWITCH

Refer to DLK-154, "Component Inspection (Without Automatic Back Door)".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to <u>DLK-263, "DOOR LOCK: Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection (With Automatic Back Door)

1. CHECK BACK DOOR SWITCH

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

Back door lock assembly		Condition		Continuity
Terminal				Continuity
7	7 0		Pressed	No
1	0	Door switch	Released	Yes

Is the inspection result normal?

YES >> Inspection End.

>> Replace back door lock assembly. Refer to DLK-263, "DOOR LOCK: Removal and Installation". NO

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INFOID:0000000010283104

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Component Inspection (Without Automatic Back Door)

INFOID:0000000010283105

1. CHECK BACK DOOR SWITCH

- 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				
3	3 4		Pressed	No
3	7	Door switch	Released	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to <u>DLK-263, "DOOR LOCK: Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Description

cription INFOID:000000010283106

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000010283107

INFOID:0000000010283109

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1. CHECK FUNCTION

(P)With CONSULT

Check "CDL LOCK SW", "CDL UNLOCK SW" in "Data Monitor" mode with CONSULT.

Monitor item		Condition	
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
ODE DIVEOUR SVV	UNLOCK	: ON	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to <u>DLK-155</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE: Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DLK-60, "Wiring Diagram"</u>.

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.

2. Check voltage at the main power window and door lock/unlock switch connector when the switch (driver side) is turned to "LOCK" or "UNLOCK".

Connector	Main power window and door lock/unlock switch state	Terminal		Voltage
D6	Neutral → Unlock	15	Ground	Battery voltage → 0
	Neutral → Lock			Dattery voltage -> 0

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.check power window switch ground

- 1. Turn ignition switch OFF.
- 2. Disconnect main power window and door lock/unlock switch connector.
- 3. Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal		Continuity
D6	1	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3. CHECK POWER WINDOW SWITCH

Check continuity between main power window and door lock/unlock switch terminals.

Main power window and door lock/unlock switch state	Terminals	Continuity	
Unlock	1 - 3	Yes	
Lock	1 - 15	163	
Neutral/Unlock	1 - 15	No	
Neutral/Lock	1 - 3	INU	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace main power window and door lock/unlock switch. Refer to PWC-64, "Removal and Installation".

4. CHECK POWER WINDOW SWITCH CIRCUITS

- Disconnect BCM connector.
- 2. Check continuity between BCM connector and main power window and door lock/unlock switch connector.

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
M18	40	D6	15	Yes
10		Do	3	165

3. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
M18	40	Ground	No
IVITO	10	Giodila	110

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000010283110

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE: Component Function Check

INFOID:0000000010283111

1.CHECK FUNCTION

(P)With CONSULT

Check "CDL LOCK SW", "CDL UNLOCK SW" in "Data Monitor" mode with CONSULT.

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to <u>DLK-157</u>, "PASSENGER SIDE : <u>Diagnosis Procedure</u>".

PASSENGER SIDE: Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-60, "Wiring Diagram".

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

- Turn ignition switch ON.
- Check voltage at the front power window and door lock/unlock switch RH connector when the switch (passenger side) is changed to "LOCK" or "UNLOCK".

Connector	Front power window and door lock/unlock switch RH state	Terminal		Voltage
D112	Neutral → Lock	1	Ground	Battery voltage → 0
DIIZ	Neutral → Unlock 2		Giodila	Dallery vollage → 0

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.check power window switch ground

- 1. Turn ignition switch OFF.
- Disconnect front power window and door lock/unlock switch RH connector.
- 3. Check continuity between front power window and door lock/unlock switch RH connector and ground.

Front power window and door lock/unlock switch RH connector	Term	ninal	Continuity
D112	3	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK POWER WINDOW SWITCH

Check continuity between front power window and door lock/unlock switch RH terminals.

Front power window and door lock/unlock switch RH state	Terminals	Continuity
Lock	1 - 3	Yes
Unlock	2 - 3	165
Neutral/Unlock	1 - 3	No
Neutral/Lock	2 - 3	NO

Is the inspection result normal?

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< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> GO TO 4.

NO >> Replace front power window and door lock/unlock switch RH. Refer to PWC-65, "Removal and <a href="Installation".

4. CHECK POWER WINDOW SWITCH CIRCUITS

- 1. Disconnect BCM connector.
- Check continuity between BCM connector and front power window and door lock/unlock switch RH connector.

BCM connector	Terminal	Front power window and door lock/unlock switch RH connector	Terminal	Continuity
M18	10	D112	1	Yes
IVI IO	40	D112	2	162

3. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
M18	19	Ground	No
IVITO	34	Glound	NO

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000010283114

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1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 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-159</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000010283115

Regarding Wiring Diagram information, refer to DLK-60, "Wiring Diagram".

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

Turn ignition switch OFF.

2. Disconnect front door lock assembly LH connector.

3. Check voltage between front door lock assembly LH harness connector and ground.

(+) Front door lock assembly LH		(–)	Condition		Voltage (Approx.)
Connector	Terminal				(11 - 7
D23	1	Ground	Door lock and unlock switch	Lock	Battery voltage
D23	2	Giodila	Door lock and unlock switch	Unlock	Ballery Vollage

Is the inspection result normal?

YES >> Replace front door lock assembly LH. Refer to DLK-256, "DOOR LOCK: Removal and Installation".

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM, all door lock actuator connectors.

2. Check continuity between BCM harness connector and front door lock assembly LH harness connector.

В	CM	Front door loc	Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M20	165	D23	1	Yes
IVIZO	172	D23	2	165

Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M20	165		No	
MZU	172		NO	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

- Connect BCM connector.
- Check voltage between BCM harness connector and ground.

(+)			Condition		Voltage (Approx.)
BCM		(–)			
Connector	Terminal				(11 /
M20	165	Ground	Door lock and unlock switch	Lock	Battery voltage
IVIZO	172	Ground	Door lock and unlock Switch	Unlock	Dattery voltage

Is the inspection result normal?

YES >> Replace front door lock assembly LH. Refer to <u>DLK-256</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

NO >> Replace BCM. Refer to BCS-75, "Removal and Installation".

PASSENGÉR SIDE

PASSENGER SIDE: Component Function Check

INFOID:0000000010283116

1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of "BCM" using CONSULT.
- 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-160</u>, "PASSENGER SIDE : <u>Diagnosis Procedure"</u>.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000010283117

Regarding Wiring Diagram information, refer to <u>DLK-60, "Wiring Diagram"</u>.

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+) Front door lock actuator RH		(–)	Condition		Voltage (Approx.)
Connector	Terminal				(Αφριολ.)
D113	5	Ground	Door lock and unlock switch	Unlock	Pattory voltago
DIIS	6	Ground		Lock	- Battery voltage

Is the inspection result normal?

YES >> Replace front door lock actuator RH. Refer to <u>DLK-256, "DOOR LOCK: Removal and Installation".</u>

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- Disconnect BCM, all door lock actuator connectors.
- 2. Check continuity between BCM harness connector and front door lock actuator RH harness connector.

ВСМ		Front door lock actuator RH		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
M20	165	D113	5	Yes	
IVIZU	163	סווס	6		

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Check continuity between BCM harness connector and ground.

I	ВСМ		Continuity	
Connector	Terminal	Ground	Continuity	
M20	165		No	
WZU	163		INO	

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. 2.

(+) BCM		(–)	Condition		Voltage (Approx.)
Connector	Terminal				
M20	165	Ground	Door lock and unlock switch	Unlock	Battery voltage
IVIZU	163	Giouna	Door lock and unlock switch	Lock	Dattery voltage

Is the inspection result normal?

>> Replace front door lock actuator RH. Refer to DLK-256, "DOOR LOCK: Removal and Installa-YES

NO >> Replace BCM. Refer to BCS-75, "Removal and Installation".

REAR LH

REAR LH: 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-161, "REAR LH: Diagnosis Procedure".

REAR LH : Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-60, "Wiring Diagram".

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect rear door lock actuator LH connector.
- Check voltage between rear door lock actuator LH harness connector and ground.

(+)			Condition		Voltage (Approx.)
Rear door lock actuator LH		(-)			
Connector	Terminal				(FF - 7
D206	1	Ground	Door lock and unlock switch	Lock	Battery voltage
D200	2	Ground	Door lock and unlock switch	Unlock	Dattery voltage

Is the inspection result normal?

Revision: November 2013

>> Replace rear door lock actuator LH. Refer to DLK-260, "DOOR LOCK: Removal and Installation". YES

DLK-161

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< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

В	CM	Rear door lock actuator LH		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B23	148	D206	2	Yes	
DZJ	149	D200	1	165	

3. Check continuity between BCM harness connector and ground.

	BCM		Continuity	
Connector	Terminal	Ground	Continuity	
B23	148	Ground	No	
	149		INU	

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.

(+)					Mallana
BCM		(–)	Condition		Voltage (Approx.)
Connector	Terminal				(FF - 7
B23	148	Ground	Door lock and unlock switch	Unlock	Battery voltage
B23	149	Ground	DOOL LOCK AND UNIOCK SWILCH	Lock	Dattery Voltage

Is the inspection result normal?

YES >> Replace rear door lock actuator LH. Refer to <u>DLK-260, "DOOR LOCK: Removal and Installation"</u>.

NO >> Replace BCM. Refer to BCS-75, "Removal and Installation".

REAR RH

REAR RH: Component Function Check

INFOID:0000000010283120

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-162</u>, "<u>REAR RH</u>: <u>Diagnosis Procedure</u>".

REAR RH: Diagnosis Procedure

INFOID:0000000010283121

Regarding Wiring Diagram information, refer to <u>DLK-60, "Wiring Diagram"</u>.

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect rear door lock actuator RH connector.

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Check voltage between rear door lock actuator RH harness connector and ground.

(-	+)				Valla e e
Rear door loo	k actuator RH	(–)	Condition	Voltage (Approx.)	
Connector	Terminal				
D306	5	Ground	Door lock and unlock switch	Unlock	Battery voltage
6		Giodila	Lock	Lock	Dattery Voltage

Is the inspection result normal?

>> Replace rear door lock actuator RH. Refer to <u>DLK-260, "DOOR LOCK: Removal and Installation"</u>. NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- Disconnect BCM, all door lock actuator connectors.
- Check continuity between BCM harness connector and rear door lock actuator RH harness connector.

BCM		Rear door lock actuator RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B23	148	D306	6	Yes
D23	149	D300	5	165

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
DOO	148	Giouna	Ne
B23	149		No

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.

	+) CM	(–)	Condition		Voltage (Approx.)
Connector	Terminal				()
B23	148	Ground	Door lock and unlock switch	Unlock	Pattory voltage
B23	149	Ground	Door lock and unlock switch	Lock	Battery voltage

Is the inspection result normal?

YES >> Replace rear door lock actuator RH. Refer to <u>DLK-260, "DOOR LOCK: Removal and Installation"</u>. NO

>> Replace BCM. Refer to BCS-75, "Removal and Installation".

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UNLOCK SENSOR

Component Function Check

INFOID:0000000010283124

1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. Select "UNLK SEN-DR" in "Data Monitor" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
UNLK SEN -DR	Driver side door	Lock	OFF
ONER SEN -BR	Driver side door	Unlock	ON

Is the inspection result normal?

YES >> Unlock sensor is OK.

NO >> Refer to <u>DLK-164, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010283125

Regarding Wiring Diagram information, refer to <u>DLK-60, "Wiring Diagram"</u>.

1. CHECK UNLOCK SENSOR INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect front door lock assembly LH connector.
- 3. Check signal between front door lock assembly LH harness connector and ground with oscilloscope.

	k assembly LH	(–)	Signal (Reference value)	
Connector	Connector Terminal		(Noterende Value)	
D23	3	Ground	(V) 15 10 5 0 → 10ms PKIB4960J	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK UNLOCK SENSOR CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check continuity between BCM harness connector and front door lock assembly LH harness connector.

BCM		Front door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M19	104	D23	3	Yes

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
M19	104		No

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-75</u>, "Removal and Installation".

NO >> Repair or replace harness.

3.check unlock sensor ground circuit

Check continuity between front door lock assembly LH harness connector and ground.

Front door loo	k assembly LH		Continuity
Connector	Connector Terminal		Continuity
D23	4		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK UNLOCK SENSOR

Refer to DLK-165, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly LH. Refer to <u>DLK-256, "DOOR LOCK : Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK UNLOCK SENSOR

Turn ignition switch OFF.

2. Disconnect front door lock assembly LH connector.

3. Check continuity between front door lock assembly LH terminals.

Front door loo	k assembly LH	Condition		Continuity	
Terminal		Condition		Continuity	
3	4	Driver side door	Unlock	Yes	
3	4	Driver side door	Lock	No	

Is the inspection result normal?

YES >> Inspection End.

NO

>> Replace front door lock assembly LH. Refer to DLK-256, "DOOR LOCK: Removal and Installation".

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DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR KEY CYLINDER SWITCH

Component Function Check

INFOID:0000000010283127

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
KET CTL LK-SW	Driver eide deer key eylinder	Neutral / Unlock	OFF
KEY CYL UN-SW	Driver side door key cylinder	Unlock	ON
NET OIL UN-SW		Neutral / Lock	OFF

Is the inspection result normal?

YES >> Door key cylinder switch is OK.

NO >> Refer to <u>DLK-166</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010283128

Regarding Wiring Diagram information, refer to DLK-60, "Wiring Diagram".

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

	+) ck assembly LH	(-)	Voltage (Approx.)	
Connector	Terminal		(
D23	5	Cround	5 V	
DZS	6	Ground	5 V	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR KEY CYLINDER SWITCH SIGNAL CIRCUIT

- 1. Disconnect the BCM connector.
- 2. Check continuity between BCM harness connector and front door lock assembly LH harness connector.

В	ВСМ		k assembly LH	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M19	92	D23	6	Yes
IVITS	93	023	5	165

3. Check continuity between BCM harness connector and ground.

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM			Continuity
Connector	Terminal	Ground	Continuity
M19	92	Giouna	No
MT9	93		NO

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-75, "Removal and Installation".

NO >> Repair or replace harness.

3.check door key cylinder switch ground circuit

Check continuity between front door lock assembly LH harness connector and ground.

Front door lock assembly LH			Continuity
 Connector Terminal		Ground	Continuity
D23	4		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR KEY CYLINDER SWITCH

Refer to DLK-167, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly LH. Refer to <u>DLK-256, "DOOR LOCK : Removal and Installation"</u>.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK DOOR KEY CYLINDER SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect front door lock assembly LH connector.
- 3. Check continuity between front door lock assembly LH terminals.

Front door lock	assembly LH	Condition		Continuity
Terminal		Condition		Continuity
5			Unlock	Yes
3	-	Driver side door key cylinder	Neutral / Lock	No
6			Lock	Yes
0			Neutral / Unlock	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front door lock assembly LH. Refer to <u>DLK-256, "DOOR LOCK : Removal and Installation".</u>

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Revision: November 2013 DLK-167 2014 Rogue NAM

DOOR REQUEST SWITCH

[WITH INTELLIGENT KEY SYSTEM]

DOOR REQUEST SWITCH

Component Function Check

INFOID:0000000010283132

1. CHECK FUNCTION

- 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	LH door request switch	Pressed	ON
REQ 3W -DR	Lift door request switch	Released	OFF
DEO SW. AS	PH door request switch	Pressed	ON
REQ SW -AS	RH door request switch	Released	OFF

Is the inspection result normal?

YES >> Front door request switch is OK.

NO >> Refer to <u>DLK-168</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010283133

Regarding Wiring Diagram information, refer to DLK-60, "Wiring Diagram".

1. CHECK DOOR REQUEST SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- Disconnect malfunctioning front door request switch connector.
- 3. Check voltage between malfunctioning front door request switch harness connector and ground.

(+) Front door request switch		(–)	Voltage (Approx.)	
Conr	Connector Terminal			(44)
LH	D11	2	Ground	Pattory voltage
RH	D126	3	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

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

Contir	CM	В	Front door request switch		
	Terminal	Connector	Terminal	nector	Con
Ye	105	M19	2	D11	LH
Te	82	IVITS	3	D126	RH

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

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Front door request switch				Continuity
Con	Connector Term		Ground	Continuity
LH	D11	3	Giouna	No
RH	D126	3		140

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-75, "Removal and Installation".

NO >> Repair or replace harness.

3.check door request switch ground circuit

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

Front door request switch				Continuity	
Connector		Terminal	Ground	Continuity	
LH	D11	4	Ground	Yes	
RH	D126	4		165	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR REQUEST SWITCH

Refer to DLK-169, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front outside handle assembly. Refer to DLK-270, "DRIVER SIDE : Removal and Installation" or DLK-270, "PASSENGER SIDE: Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK DOOR REQUEST SWITCH

- Turn ignition switch OFF.
- 2. Disconnect malfunctioning front door request switch connector.
- Check continuity between malfunctioning front door request switch terminals.

Front door request switch		Condition		Continuity
Terminal				Continuity
2	4	Door request switch	Pressed	Yes
3	4	Door request switch	Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning front door request switch. Refer to DLK-270, "DRIVER SIDE: Removal and Installation" or DLK-270, "PASSENGER SIDE: Removal and Installation".

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2014 Rogue NAM

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR REQUEST SWITCH

Component Function Check

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
		Released	Off

Is the inspection result normal?

YES >> Back door request switch is OK.

NO >> Refer to <u>DLK-170</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010283136

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Regarding Wiring Diagram information, refer to <u>DLK-86, "Wiring Diagram"</u>.

1. CHECK BACK DOOR REQUEST SWITCH INPUT SIGNAL

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

(+) Back door opener switch		(-)	Voltage (Approx.)
Connector	Connector Terminal		(/ .pp. 5///)
D509	4	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK BACK DOOR REQUEST SWITCH CIRCUIT

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

В	ВСМ		Back door opener switch	
Connector	Terminal	Connector	Terminal	Continuity
B16	46	D509	4	Yes

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity
Connector	Terminal	Ground	Continuity
B16	46		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-75, "Removal and Installation".

NO >> Repair or replace harness.

3.check back door request switch ground circuit

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

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Back door opener switch			Continuity
Connector	Terminal	Ground	Continuity
D509	3		Yes

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BACK DOOR REQUEST SWITCH

Refer to DLK-171, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch. Refer to DLK-278, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK BACK DOOR REQUEST SWITCH

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

Back door opener switch assembly		Condition		Continuity
Terr	minal	Condition		Continuity
2	4	Pack door request switch	Pressed	Yes
3	4	Back door request switch	Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door opener switch assembly. Refer to <u>DLK-278</u>, "Removal and Installation". DLK

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BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPENER SWITCH

Component Function Check

INFOID:0000000010283138

1. CHECK FUNCTION

- 1. Select "TRUNK" of "BCM" using CONSULT.
- 2. Select "TR/BD OPEN SW" in "Data Monitor" mode.
- 3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TR/BD OPEN SW	Back door opener switch	Pressed	ON
TIVED OF LIVOW	Back door opener switch	Released	OFF

Is the inspection result normal?

YES >> Back door opener switch is OK.

NO >> Refer to <u>DLK-172</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010283139

Regarding Wiring Diagram information, refer to DLK-86, "Wiring Diagram".

1. CHECK BACK DOOR OPEN INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect back door opener switch connector.
- 3. Check signal between back door opener switch harness connector and ground.

(+) Back door opener switch		(–)	Signal (Reference value)	
Connector	Terminal		(Neierence value)	
D507 (with power back door) D509 (without power back door)	1	Ground	(V) 15 10 5 0 10 ms JPMIA0012GB	

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 harness connector.

В	CM	Back door opener switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B16	56	D507 (with power back door) D509 (without power back door)	1	Yes

3. Check continuity between BCM harness connector and ground.

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM			Continuity
Connector	Terminal	Ground	Continuity
B16	56		No
s the inspection result normal? YES >> Replace BCM. Refe	arness.		
3.CHECK BACK DOOR OPEN			
Check continuity between back	door opener switch ha	arness connector and grou	nd.
Back door open	er switch		Continuity
Connector	Terminal	Ground	Continuity
D507 (with power back door) D509 (without power back door)	2	Glound	Yes
YES >> GO TO 4. NO >> Repair or replace h CHECK BACK DOOR OPEN			
_	opener switch. Refer	to <u>DLK-278, "Removal and</u>	Installation".
5.CHECK INTERMITTENT IN			
Refer to GI-41, "Intermittent Inc	<u>ident"</u> .		
>> Inspection End.			
Component Inspection			INFOID:000000010283140
1.CHECK BACK DOOR OPEN	IER SWITCH		
 Turn ignition switch OFF. Disconnect back door open 	er switch connector		

- 2. Disconnect back door opener switch connector.
- Check continuity between back door opener switch terminals.

Back door opener switch assembly		Condition		Continuity
Terr	minal	Condition		Continuity
1	2	Back door opener	Pressed	Yes
ľ	2	switch	Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door opener switch. Refer to <u>DLK-278, "Removal and Installation"</u>.

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INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY WARNING BUZZER

Component Function Check

1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- Select "OUTSIDE BUZZER" in "Active Test" mode.
- 3. Touch "On" or "Off" to check that it works normally.

Is the inspection result normal?

YES >> Intelligent Key warning buzzer is OK.

NO >> Refer to <u>DLK-174</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010283142

INFOID:0000000010283141

Regarding Wiring Diagram information, refer to <u>DLK-69</u>, "Wiring Diagram".

1. CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT

- Disconnect BCM connector.
- 2. Check continuity between BCM harness connector and Intelligent Key warning buzzer harness connector.

В	CM	Intelligent Key warning buzzer		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E29	132	E24	1	Yes

Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector	Terminal	Ground	Continuity
E29	132		No

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.CHECK INTELLIGENT KEY WARNING BUZZER

Refer to DLK-174, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-75</u>, "Removal and Installation".

NO >> Replace Intelligent Key warning buzzer. Refer to <u>DLK-273</u>, "Removal and Installation".

Component Inspection

INFOID:0000000010283143

1. CHECK INTELLIGENT KEY WARNING BUZZER

- Turn ignition switch OFF.
- 2. Disconnect Intelligent Key warning buzzer connector.
- Connect battery power supply directly to Intelligent Key warning buzzer terminals and check the operation.

Intelligent Key		
Teri	Operation	
(+)	(-)	
1	3	Buzzer sounds

Is the inspection result normal?

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> Inspection End.

NO >> Replace Intelligent Key warning buzzer. Refer to <u>DLK-273, "Removal and Installation"</u>.

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INTELLIGENT KEY

Component Function Check

INFOID:0000000010283144

NOTE:

The Signal Tech II Tool [- (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Check Intelligent Key relative signal strength.
- · Confirm vehicle Intelligent Key antenna signal strength.

1. CHECK FUNCTION

- 1. Select "INTELLIGENT KEY" of "BCM" using CONSULT.
- 2. 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	Check that the numerical value is changing while operating on the Intelligent Key.

Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Refer to <u>DLK-176</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010283145

NOTE:

The Signal Tech II Tool [- (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Check Intelligent Key relative signal strength.
- · Confirm vehicle Intelligent Key antenna signal strength.

1. CHECK INTELLIGENT KEY BATTERY

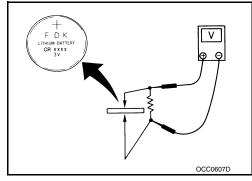
Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA. Refer to <u>DLK-275</u>, "Removal and Installation".

Standard : Approx. 2.5 - 3.0V

Is the measurement value within the specification?

YES >> Replace Intelligent Key.

NO >> Replace Intelligent Key battery.



METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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METER BUZZER CIRCUIT Α Description INFOID:0000000010283146 • The buzzer for the warning chime system is installed in the combination meter. В The combination meter sounds the buzzer based on the signals transmitted from various units. Component Function Check INFOID:0000000010283147 1. CHECK OPERATION OF METER BUZZER Select "BUZZER" of "BCM" on CONSULT. D 2. Perform "LIGHT WARN ALM" or "SEAT BELT WARN TEST" of "Active Test". Does meter buzzer activate? YES >> Inspection End. Е >> Refer to DLK-177, "Diagnosis Procedure". NO Diagnosis Procedure INFOID:0000000010283148 F 1. CHECK COMBINATION METER INPUT SIGNAL Select the "Data Monitor" for the "METER/M&A" and check the "BUZZER" monitor value. **BUZZER** Under the condition of buzzer input : On Except above : Off Н Is the inspection result normal? YES >> Replace combination meter. Refer to MWI-82, "Removal and Installation". NO >> Replace BCM. Refer to BCS-75, "Removal and Installation". DLK M Ν

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KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY WARNING LAMP

Component Function Check

INFOID:0000000010283149

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-178</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010283150

1. CHECK KEY WARNING LAMP

Refer to MWI-21, "CONSULT Function (METER/M&A)".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

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HAZARD FUNCTION	I
< DTC/CIRCUIT DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
HAZARD FUNCTION	A
Component Function Check	INFOID:000000010283151
1.check function	В
 Select "INTELLIGENT KEY" of "BCM" using CONSULT. Select "FLASHER" in "Active Test" mode. Touch "LH" or "RH" to check that it works normally. Is the inspection result normal? YES >> Hazard warning lamp circuit is OK. 	С
NO >> Refer to <u>DLK-179</u> , " <u>Diagnosis Procedure</u> ".	D
Diagnosis Procedure	INFOID:000000010283152
1.CHECK HAZARD SWITCH CIRCUIT	Е
Refer to EXL-229. "Component Function Check". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	F
2.CHECK INTERMITTENT INCIDENT	G
Refer to GI-41, "Intermittent Incident".	·
>> Inspection End.	Н
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DLK-179 Revision: November 2013 2014 Rogue NAM

AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR CLOSE SWITCH

Component Function Check

INFOID:0000000010283153

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
	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-180, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010283154

Regarding Wiring Diagram information, refer to <u>DLK-86, "Wiring Diagram"</u>.

1. CHECK AUTOMATIC BACK DOOR CLOSE SWITCH INPUT SIGNAL

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

(+)			Voltage	
Automatic back door close switch		(–)	Voltage (Approx.)	
Connector	Terminal			
D513	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH CIRCUIT

- 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 door control module		Automatic back door close switch		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B55	23	D513	1	Yes	

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

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	23		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

NO >> Repair or replace harness.

${f 3}.$ CHECK AUTOMATIC BACK DOOR CLOSE SWITCH GROUND CIRCUIT

AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Automatic back door close switch			Continuity
Connector	Terminal	Ground	Continuity
D513	2		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Refer to DLK-181, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door close switch. Refer to DLK-279, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

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

Automatic back door close switch		Condition		Continuity
Terr	minal	Conducti		Continuity
1 2		Automatic back door	Pressed	Yes
	2	close switch	Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace automatic back door close switch. Refer to <u>DLK-279</u>, "Removal and Installation".

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Revision: November 2013 DLK-181 2014 Rogue NAM

AUTOMATIC BACK DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR MAIN SWITCH

Component Function Check

INFOID:0000000010283156

1. CHECK FUNCTION

- 1. Select "AUTO BACK DOOR" 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
MAINI SW	MAIN SW Automatic back door main switch	ON	ON
WAIN OW		OFF	OFF

Is the inspection result normal?

YES >> Automatic back door main switch is OK.

NO >> Refer to <u>DLK-182</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010283157

Regarding Wiring Diagram information, refer to <u>DLK-86, "Wiring Diagram"</u>.

1. CHECK AUTOMATIC BACK DOOR MAIN SWITCH INPUT SIGNAL

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

(+) Automatic back door main switch				
		(–)	Voltage (Approx.)	
Connector	Terminal		()	
M178	1	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR MAIN SWITCH CIRCUIT

- Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and automatic back door main switch harness connector.

Automatic back d	oor control module	Automatic back door main switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B55	10	M178	1	Yes

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

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	10		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.check automatic back door main switch ground circuit

AUTOMATIC BACK DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Check continuity between automatic back door main switch connector and ground.

Automatic back door main switch			Continuity
Connector	Terminal	Ground	Continuity
M178	3		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Refer to DLK-183, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door main switch. Refer to DLK-277, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

1. CHECK AUTOMATIC BACK DOOR MAIN SWITCH

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

Automatic back door main switch		Condition		Continuity
Terminal				
1 2	Automatic back door	ON	Yes	
	3	main switch	OFF	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace automatic back door main switch. Refer to <u>DLK-277</u>, "Removal and Installation".

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Revision: November 2013 DLK-183 2014 Rogue NAM

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SWITCH

Component Function Check

INFOID:0000000010283159

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
AOTO BD SW	Automatic back door switch	Released	OFF

Is the inspection result normal?

YES >> Automatic back door switch is OK.

NO >> Refer to <u>DLK-184, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010283160

Regarding Wiring Diagram information, refer to <u>DLK-86, "Wiring Diagram"</u>.

1. CHECK AUTOMATIC BACK DOOR SWITCH INPUT SIGNAL

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

(+) Automatic back door switch				
		(–)	Voltage (Approx.)	
Connector	Terminal		()	
M24	1	Ground	Battery voltage	

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 d	oor control module	Automatic back door switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B55	22	M24	1	Yes

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

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	22		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3. CHECK AUTOMATIC BACK DOOR SWITCH GROUND CIRCUIT

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Automatic back door switch			Continuity
Connector	Connector Terminal		Continuity
M24	2		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK AUTOMATIC BACK DOOR SWITCH

Refer to DLK-185, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door switch. Refer to <u>DLK-278</u>, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

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 Terminal		Condition		Continuity	
	Automatic back door Switch	Released	No		

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace automatic back door switch. Refer to <u>DLK-278</u>, "Removal and Installation".

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HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

HALF LATCH SWITCH

Component Function Check

INFOID:0000000010283162

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	Condi	Status	
HALF LATCH SW Back door	Back door	Fully closed/Half latch	OFF
	Dack door	Open	ON

Is the inspection result normal?

YES >> Half latch switch is OK.

NO >> Refer to <u>DLK-186, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010283163

Regarding Wiring Diagram information, refer to <u>DLK-86, "Wiring Diagram"</u>.

1. CHECK HALF LATCH SWITCH INPUT SIGNAL

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

(–) Back door lock assembly		(–)	Voltage (Approx.)	
Connector	Connector Terminal			
D512	6	Ground	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK HALF LATCH SWITCH CIRCUIT

- Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector.

Automatic back door control module		Back door lock assembly		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B55	3	D512	6	Yes	

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

Automatic back d	oor control module		Continuity
Connector	Terminal	Ground	Continuity
B55	3		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-276, "Removal and Installation".

NO >> Repair or replace harness.

3.check half latch switch ground circuit

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

HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Back door lock assembly			Continuity	
Connector Terminal		Ground	Continuity	
D512	3	_	Yes	

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YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK HALF LATCH SWITCH

Refer to DLK-187, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to DLK-263, "DOOR LOCK: Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

COMPONENT INSPECTION

1. CHECK HALF LATCH SWITCH

1. Turn ignition switch OFF.

2. Disconnect back door lock assembly connector.

3. Check continuity between back door lock assembly terminals.

Back door lock assembly		Condition		Continuity
Terminal		Condition		Continuity
			Open	Yes
6	8	Back door	Fully closed/Half latch	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to <u>DLK-263, "DOOR LOCK: Removal and Installation"</u>. DLK

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< DTC/CIRCUIT DIAGNOSIS >

TOUCH SENSOR

RH

RH: Component Function Check

INFOID:0000000010283165

1. CHECK FUNCTION

- 1. Select "AUTOMATIC 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	Condition		Status
TOUCH SEN RH Touch sensor RH	Touch sensor PH	Other than below	OFF
	TOUCH SCHSOL IVI	Detect obstruction	ON

Is the inspection result normal?

YES >> Touch sensor RH is OK.

NO >> Refer to <u>DLK-188</u>, "RH: <u>Diagnosis Procedure"</u>.

RH: Diagnosis Procedure

INFOID:0000000010283166

Regarding Wiring Diagram information, refer to <u>DLK-86</u>, "Wiring Diagram".

1. CHECK TOUCH SENSOR INPUT SIGNAL

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

((+)	(-	–)			
Touch s	ensor RH		door control mod- le	Condition		Voltage (Approx.)
Connector	Terminal	Connector	Terminal			
D515	1	B55	13	Touch sensor	Detect obstruc- tion	1.8 – 5 V
D313	1	555	13	RH	Other than above	2.72 – 7.27 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK TOUCH SENSOR RH CIRCUIT

- Disconnect automatic back door control module and touch sensor RH connector.
- Check continuity between automatic back door control module harness connector and touch sensor RH harness connector.

Automatic back do	Automatic back door control module		Touch sensor RH	
Connector	Terminal	Connector	Terminal	Continuity
B55	1	D515	2	Yes

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

Automatic back do	or control module		Continuity
Connector	Connector Terminal		Continuity
B55	2		No

TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3. CHECK TOUCH SENSOR RH GROND CIRCUIT

Disconnect automatic back door control module and touch sensor RH connector.

Check continuity between automatic back door control module harness connector and touch sensor RH harness connector.

Automatic back do	or control module	Touch se	ensor RH	Continuity
Connector	Terminal	Connector Terminal		Continuity
B55	13	D515	2	Yes

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

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	13		No

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK TOUCH SENSOR RH GROND CIRCUIT 2

1. Connect automatic back door control module and touch sensor RH connector.

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

(+) Automatic back door control module		(–)	Voltage (Approx.)
Connector	Terminal		(44)
B55	13	Ground	0.01 – 0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR RH

Refer to DLK-189, "RH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace touch sensor RH. Refer to <u>DLK-264</u>, "TOUCH SENSOR: Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

RH: Component Inspection

1. CHECK TOUCH SENSOR RH

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

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TOUCH SENSOR

[WITH INTELLIGENT KEY SYSTEM]

	ensor RH ninal	- Condi	tion	Resistance (Approx.)
1	2	Touch sensor RH	Detect obstruction	$380-420~\text{k}\Omega$
ı	2	TOUGH SENSOF RH	Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace touch sensor RH. Refer to <u>DLK-264, "TOUCH SENSOR: Removal and Installation"</u>.

LH

LH: Component Function Check

INFOID:0000000010283168

1. CHECK FUNCTION

- 1. Select "AUTOMATIC 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	Touch sensor LH	Other than below	OFF		
100CH SEN LH	Touch sensor Ln	Detect obstruction	ON		

Is the inspection result normal?

YES >> Touch sensor LH is OK.

NO >> Refer to <u>DLK-190</u>, "LH: <u>Diagnosis Procedure"</u>.

LH: Diagnosis Procedure

INFOID:0000000010283169

Regarding Wiring Diagram information, refer to <u>DLK-86. "Wiring Diagram"</u>.

1. CHECK TOUCH SENSOR INPUT SIGNAL

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

(+)	(–)				
Touch s	ensor LH	Automatic back door control mod- ule		Condition		Voltage (Approx.)
Connector	Terminal	Connector	Terminal			
D511	2	B55	13	Touch sensor	Detect obstruc- tion	1.8 – 5 V
5311	2	555	13 LH		Other than above	2.72 – 7.27 V

Is the inspection result normal?

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

2. CHECK TOUCH SENSOR LH CIRCUIT

- Disconnect automatic back door control module and touch sensor LH connector.
- Check continuity between automatic back door control module harness connector and touch sensor LH harness connector.

[WITH INTELLIGENT KEY SYSTEM]

Automatic back d	Automatic back door control module		Touch sensor LH	
Connector	Terminal	Connector Terminal		Continuity
B55	2	D511	1	Yes

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

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	2		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-276, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK TOUCH SENSOR LH GROND CIRCUIT

Disconnect automatic back door control module and touch sensor LH connector.

Check continuity between automatic back door control module harness connector and touch sensor LH harness connector.

Automatic back door control module		Touch sensor LH		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B55	13	D511	2	Yes	

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

Automatic back door control module			Continuity
Connector	Terminal	Ground	Continuity
B55	13		No

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK TOUCH SENSOR LH GROND CIRCUIT 2

- 1. Connect automatic back door control module and touch sensor LH connector.
- 2. Check voltage between automatic back door control module harness connector and ground.

(+) Automatic back door control module		(–)	Voltage (Approx.)
Connector	Terminal		(44)
B55	13	Ground	0.01 – 0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK TOUCH SENSOR LH

Refer to DLK-192, "LH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace touch sensor LH. Refer to <u>DLK-264</u>, "TOUCH SENSOR: Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

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TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

LH: Component Inspection

INFOID:0000000010283170

1. CHECK TOUCH SENSOR LH

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

Touch sensor LH		Condition		Resistance
Terr	minal	0011	anton	(Approx.)
1	2	Touch sensor LH	Detect obstruction	380 – 420 kΩ
ı	2	TOUCH SCHOOL ETT	Other than above	0.95 – 1.05 kΩ

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace touch sensor LH. Refer to <u>DLK-264, "TOUCH SENSOR: Removal and Installation"</u>.

[WITH INTELLIGENT KEY SYSTEM]

SPINDLE MOTOR

RH

RH: Diagnosis Procedure

INFOID:0000000010283171

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Regarding Wiring Diagram information, refer to DLK-86, "Wiring Diagram".

1. CHECK SPINDLE MOTOR INPUT SIGNAL

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

(+) Spindle unit RH		(-)	Condition		Voltage (Approx.)
Connector	Terminal				(Provin)
B73	1	Ground	Back door	Auto open opera- tion	Battery voltage
7	7	Ground	Dack GOO!	Auto close opera- tion	Dattery Voltage

Is the inspection result normal?

YES >> Replace spindle unit RH. Refer to <u>DLK-263, "SPINDLE UNIT: Removal and Installation"</u>.

NO >> GO TO 2.

2.CHECK SPINDLE MOTOR CIRCUIT

- Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and spindle unit harness connector.

Automatic back d	oor control module	Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B56	29	B73	1	Yes
D00	36	DIS	7	res

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

Automatic back de	oor control module		Continuity
Connector	Terminal	Ground	Continuity
B56	29	Ground	No
B30	36		NO

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-276, "Removal and Installation".

NO >> Repair or replace harness.

LH

LH: Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-86, "Wiring Diagram".

1. CHECK SPINDLE MOTOR INPUT SIGNAL

Turn ignition switch OFF.

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INFOID:0000000010283172

SPINDLE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

- 2. Disconnect spindle unit LH connector.
- 3. Check voltage between spindle unit LH harness connector and ground.

	+) e unit LH	(-)	Condition		Voltage (Approx.)
Connector	Terminal				(444)
B95	1	Ground Back door		Auto open opera- tion	Battery voltage
593	7 Ground Back door	Dack GOOI	Auto close opera- tion	ballery vollage	

Is the inspection result normal?

YES >> Replace spindle unit LH. Refer to <u>DLK-263, "SPINDLE UNIT : Removal and Installation"</u>.

NO >> GO TO 2.

2.CHECK SPINDLE MOTOR CIRCUIT

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

Automatic back d	oor control module	Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B56	27	B95	1	Yes
В30	34	B93	7	165

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

Automatic back d	oor control module		Continuity	
Connector	Connector Terminal		Continuity	
B56	27	Ground	No	
D30	34		INU	

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-276, "Removal and Installation".

NO >> Repair or replace harness.

BACK DOOR CLOSURE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR CLOSURE MOTOR

Diagnosis Procedure

INFOID:0000000010283173

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Regarding Wiring Diagram information, refer to DLK-86, "Wiring Diagram".

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.

(+ Back door lo	<u>'</u>	(–)	(–) Condition		Condition	
Connector	Terminal				(Approx.)	
D512	1	Ground	Back door opener	Pressed	Battery voltage	
D312	2	Giouna	switch	Released	0 V	

Is the inspection result normal?

YES >> Replace back door lock assembly. Refer to <u>DLK-263, "DOOR LOCK : Removal and Installation"</u>.

NO >> GO TO 2.

2.CHECK BACK DOOR CLOSURE MOTOR 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 door control module		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B56	31	D512	1	Yes
D30	38	D312	2	165

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

Automatic back doo	r control module		Continuity
Connector	Terminal	Ground	Continuity
DEG	31	Ground	No
B56	38	– No	INO

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

NO >> Repair or replace harness.

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AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR WARNING BUZZER

Diagnosis Procedure

INFOID:0000000010283174

Regarding Wiring Diagram information, refer to DLK-86. "Wiring Diagram".

1. CHECK BACK DOOR WARNING CHIME POWER SUPPLY CIRCUIT

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

(+) Back door warning chime		(-)	Voltage (Approx.)
Connector	Terminal		(11 - 7
B61	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK BACK DOOR WARNING CHIME OUTPUT SIGNAL CIRCUIT

- 1. Disconnect automatic back door control module connector.
- Check continuity between automatic back door control module harness connector and back door warning chime harness connector.

Automatic back d	Automatic back door control module		Back door warning chime	
Connector	Terminal	Connector	Terminal	Continuity
B56	37	B61	1	Yes

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

Automatic back dod	or control module		Continuity
Connector	Connector Terminal		Continuity
B56	37		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

NO >> Repair or replace harness.

3.CHECK BACK DOOR WARNING CHIME GROUND CIRCUIT

Check continuity between back door warning chime harness connector and ground.

Back door warning chime			Continuity
Connector	Terminal	Ground	Continuity
B61	2		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BACK DOOR WARNING CHIME

Refer to DLK-197, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door warning chime. Refer to <u>DLK-274, "Removal and Installation"</u>.

AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000010283175

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1. CHECK BACK DOOR WARNING CHIME

- 1. Turn ignition switch OFF.
- 2. Disconnect back door warning chime connector.
- 3. Check battery power supply directly to back door warning chime terminals and check the operation.

back door warning chime			
Terminal		Operation	
(+)	(-)		
1	2	Chime sounds	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door warning chime. Refer to <u>DLK-274, "Removal and Installation"</u>.

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INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER

Component Function Check

INFOID:0000000010283180

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.
- 2. Does red light of transmitter illuminate when any transmitter button is pressed?

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to <u>DLK-198</u>, "<u>Diagnosis Procedure</u>".

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 (homelink® universal transceiver). Refer to MIR-20. "Removal and Installation".

Diagnosis Procedure

INFOID:0000000010283181

Regarding Wiring Diagram information, refer to DLK-94, "Wiring Diagram".

1. CHECK POWER SUPPLY

- 1. Turn ignition switch OFF.
- 2. Disconnect auto anti-dazzling inside mirror (homelink® universal transceiver) connector.
- Check voltage between auto anti-dazzling inside mirror (homelink[®] universal transceiver) harness connector and ground.

Auto anti-dazzling inside mirror (Homelink [®] universal transceiver) connector	Terminal		Condition	Voltage (V) (Approx.)	
R7	10	Ground	Ignition switch position: OFF	Battery voltage	
	6	Giouna	Ignition switch position: ON	Dattery Voltage	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the following items.

- 5A fuse 14 located in the fuse block (J/B).
- 10A fuse 30 located in the fuse block (J/B).
- Harness for open or short between fuse and auto anti-dazzling inside mirror (homelink[®] universal transceiver).

2.CHECK GROUND CIRCUIT

Check continuity between auto anti-dazzling inside mirror (homelink® universal transceiver) harness connector and ground.

INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Auto anti-dazzling inside mirror (Homelink [®] universal transceiver) connector	Terminal	Ground	Continuity
R7	8	•	Yes

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

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INTELLIGENT KEY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SYMPTOM DIAGNOSIS

INTELLIGENT KEY SYSTEM SYMPTOMS

Symptom Table

CAUTION:

Perform the self-diagnosis with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

Symptom	Inspection item
Door does not lock/unlock with door lock and unlock switch.	 All doors inoperative. Refer to <u>DLK-201</u>. Drivers side door inoperative. Refer to <u>DLK-201</u>. Passenger side door inoperative. Refer to <u>DLK-202</u>. Rear LH door inoperative. Refer to <u>DLK-202</u>. Rear RH door inoperative. Refer to <u>DLK-202</u>.
Door does not lock/unlock with door key cylinder operation.	Refer to DLK-204.
Door does not lock/unlock with door request switch.	 All door request switches. Refer to <u>DLK-205</u>. Drivers side door request switch. Refer to <u>DLK-206</u>. Passenger side door request switch. Refer to <u>DLK-206</u>. Back door request switch. Refer to <u>DLK-206</u>.
Door does not lock/unlock with Intelligent Key.	Refer to DLK-208.
Ignition position warning function does not operate.	Refer to DLK-209.
OFF position warning does not operate.	Refer to DLK-210.
Take away warning does not operate.	Refer to DLK-211.
Key ID warning does not operate.	Refer to DLK-213.
Intelligent Key low battery warning does not operate.	Refer to DLK-214.
Door lock operation warning does not operate.	Refer to DLK-215.
Automatic back door operation does not operate.	 All switches. Refer to <u>DLK-216</u>. Automatic back door switch. Refer to <u>DLK-217</u>. Automatic back door close switch. Refer to <u>DLK-217</u>. Intelligent Key. Refer to <u>DLK-218</u>. Back door opener switch. Refer to <u>DLK-218</u>. Open/closure function. Refer to <u>DLK-219</u>. Open function. Refer to <u>DLK-220</u>. Closure function. Refer to <u>DLK-221</u>.
Automatic back door warning does not operate.	Refer to DLK-222.
Automatic back door functions do not cancel.	Refer to DLK-224.
Automatic back door anti-pinch functions do not operate.	Refer to DLK-225.
Integrated homelink transmitter does not operate.	Refer to DLK-226.
Squeak and rattle trouble diagnosis.	Refer to DLK-228.

[WITH INTELLIGENT KEY SYSTEM] < SYMPTOM DIAGNOSIS > DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK Α **SWITCH ALL DOOR** В ALL DOOR: Description INFOID:0000000010283203 All doors do not lock/unlock using door lock and unlock switch. ALL DOOR: Diagnosis Procedure INFOID:0000000010283204 1. CHECK DOOR LOCK AND UNLOCK SWITCH D Check door lock and unlock switch. • Driver side: Refer to DLK-155, "DRIVER SIDE: Component Function Check". • Passenger side: Refer to DLK-156, "PASSENGER SIDE: Component Function Check". Е Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. F 2.CHECK DOOR LOCK ACTUATOR Check front door lock assembly LH. Refer to DLK-159, "DRIVER SIDE: Component Function Check". Is the inspection result normal? YFS >> GO TO 3. Н NO >> Repair or replace the malfunctioning parts. 3.REPLACE BCM Replace BCM. Refer to BCS-75, "Removal and Installation". · Confirm the operation after replacement. Is the result normal? YES >> Inspection End. >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". NO DRIVER SIDE DLK DRIVER SIDE : Description INFOID:0000000010283205 Driver side door does not lock/unlock using door lock and unlock switch. DRIVER SIDE: Diagnosis Procedure INFOID:0000000010283206 1. CHECK DOOR LOCK ACTUATOR M Check front door lock assembly LH. Refer to DLK-159, "DRIVER SIDE: Component Function Check". Is the inspection result normal? N YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. 2.REPLACE BCM Replace BCM. Refer to BCS-75, "Removal and Installation". · Confirm the operation after replacement. Р Is the result normal? YES >> Inspection End. NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". PASSENGER SIDE

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

< STIVIP TOWN DIAGNOSIS >

PASSENGER SIDE: Description

Passenger side door does not lock/unlock using door lock and unlock switch.

Passenger side door does not lock/unlock using door lock and unlock switch

PASSENGER SIDE : Diagnosis Procedure .

INFOID:0000000010283208

1. CHECK DOOR LOCK ACTUATOR

Check front door lock actuator RH.

Refer to <u>DLK-160</u>, "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 BCS-75, "Removal and Installation".
- · Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

REAR LH

REAR LH: Description

INFOID:0000000010283209

Rear LH side door does not lock/unlock using door lock and unlock switch.

REAR LH: Diagnosis Procedure

INFOID:0000000010283210

1. CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator LH.

Refer to DLK-161, "REAR LH: 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 BCS-75, "Removal and Installation" .
- Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

REAR RH

REAR RH: Description

INFOID:0000000010283211

Rear RH side door does not lock/unlock using door lock and unlock switch.

REAR RH: Diagnosis Procedure

INFOID:0000000010283212

1. CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator RH.

Refer to DLK-162, "REAR RH: 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-75</u>, "Removal and Installation".

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

• Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". Α

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERA-**TION**

Diagnosis Procedure

INFOID:0000000010283213

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-201, "ALL DOOR: Diagnosis Procedure".

2. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to DLK-166, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

>> Repair or replace the malfunctioning parts. NO

3.REPLACE BCM

- Replace BCM. Refer to BCS-75, "Removal and Installation".
- · Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

DLK-204 Revision: November 2013 2014 Rogue NAM

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH < SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]	
DOOR DOES NOT LOCK/UNLOCK WITH DOO ALL DOOR REQUEST SWITCHES	OR REQUEST SWITCH	1
ALL DOOR REQUEST SWITCHES : Description	INFOID:000000010283214	2
All doors do not lock/unlock using all door request switches.	D)
ALL DOOR REQUEST SWITCHES : Diagnosis Proc	edure INFOID:000000010283215)
1. CHECK REMOTE KEYLESS ENTRY FUNCTION		
Check remote keyless entry function.	D)
<u>Does door lock/unlock with Intelligent Key button?</u> YES >> GO TO 2.		
NO >> Refer to <u>DLK-176, "Component Function Check"</u> .	E	Ξ
2.CHECK DOOR SWITCH		
Check door switch. Refer to <u>DLK-149</u> , "Component Function Check".	F	:
Is the inspection result normal?		
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts.	G	3
3.CHECK INSIDE KEY ANTENNA		
Check inside key antenna. Instrument center: Refer to DLK-137 , "DTC Logic". Console: Refer to DLK-139 , "DTC Logic".	Н	1
Is the inspection result normal?		
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	1	
NO >> Repair or replace the malfunctioning parts. 4.CHECK OUTSIDE KEY ANTENNA	.1	ı
Check outside key antenna. • Driver side: Refer to DLK-145 , "Component Function Check". • Passenger side: Refer to DLK-143 , "Component Function Check". • Rear bumper: Refer to DLK-147 , "Component Function Check".	DL	K
Is the inspection result normal?		
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	L	
5.CHECK BACK DOOR SWITCH	N.	Л
Check back door switch. Refer to <u>DLK-151</u> , "Component Function Check".	N	1
Is the inspection result normal?	N	J
YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.		
6.REPLACE BCM	0)
 Replace BCM. Refer to <u>BCS-75</u>, "Removal and Installation". Confirm the operation after replacement. 		
Is the result normal?	Р)
YES >> Inspection End. NO >> Check intermittent incident. Refer to GI-41, "Intermittent DRIVER SIDE DOOR REQUEST SWITCH	<u>lncident"</u> .	
DRIVER SIDE DOOR REQUEST SWITCH : Descrip	tion INFOID:000000010283216	
All doors do not look/uplack using driver side door request quitch		

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All doors do not lock/unlock using driver side door request switch.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DRIVER SIDE DOOR REQUEST SWITCH: Diagnosis Procedure

CHECK DOOR REQUEST SWITCH

Check front door request switch (driver side).

Refer to DLK-168, "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 BCS-75, "Removal and Installation".
- · Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

>> Check intermittent incident. Refer to GI-41, "Intermittent Incident". NO

PASSENGER SIDE DOOR REQUEST SWITCH

PASSENGER SIDE DOOR REQUEST SWITCH: Description

INFOID:0000000010283218

All doors do not lock/unlock using passenger side door request switch.

PASSENGER SIDE DOOR REQUEST SWITCH: Diagnosis Procedure

INFOID:0000000010283219

CHECK DOOR REQUEST SWITCH

Check front door request switch (passenger side).

Refer to DLK-168, "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-75</u>, "Removal and Installation".
- Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

>> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

BACK DOOR REQUEST SWITCH

BACK DOOR REQUEST SWITCH: Description

INFOID:0000000010283220

All doors do not lock/unlock using back door request switch.

BACK DOOR REQUEST SWITCH: Diagnosis Procedure

INFOID:0000000010283221

1. CHECK BACK DOOR REQUEST SWITCH

Check back door request switch.

Refer to DLK-170, "Component Function Check".

Is the inspection result normal?

YFS >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

- Replace BCM. Refer to BCS-75, "Removal and Installation".
- Confirm the operation after replacement.

Is the result normal?

>> Inspection End.

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

[WITH INTELLIGENT KEY SYSTEM] < SYMPTOM DIAGNOSIS >

>> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

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DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:0000000010283222

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 <u>DLK-201</u>, "ALL <u>DOOR</u>: <u>Diagnosis Procedure"</u>.

2. CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to DLK-176, "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-75, "Removal and Installation".
- · Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000010283224 1. CHECK POWER DOOR LOCK OPERATION В Check power door lock operation. Does door lock/unlock with door lock and unlock switch? YES >> GO TO 2. NO >> Refer to DLK-201, "ALL DOOR: Diagnosis Procedure". 2. CHECK DOOR SWITCH D Check door switch Refer to DLK-149, "Component Function Check". Is the inspection result normal? Е YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. 3. CHECK BACK DOOR SWITCH F Check door switch Refer to DLK-151, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts. Н 4.REPLACE BCM • Replace BCM. Refer to BCS-75, "Removal and Installation". Confirm the operation after replacement. Is the result normal? YES >> Inspection End. NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

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OFF POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OFF POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000010283234

1. CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2 .CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3. CHECK DOOR SWITCH

Check front door switch LH.

Refer to DLK-149, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to <u>DLK-177</u>, "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-174, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.REPLACE BCM

- Replace BCM. Refer to BCS-75, "Removal and Installation".
- Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

Is the result normal?

[WITH INTELLIGENT KEY SYSTEM]

TAKE AWAY WARNING DOES NOT OPERATE	Α
Description	DID:0000000010283237
Take away warning function does not operate for vehicle with information display models. NOTE:	В
Warning functions operating condition is extremely complicated. During operating confirmations, re list above twice in order to ensure proper operation. Refer to DLK-35 , "WARNING FUNCTION Description".	
Diagnosis Procedure	DID:0000000010283238
1.CHECK DTC WITH BCM	D
Check that DTC is not detected with BCM.	
Is the inspection result normal?	Е
YES >> GO TO 2. NO >> Perform trouble diagnosis relevant to DTC indicated.	
2.CHECK DTC WITH COMBINATION METER	F
Check that DTC is not detected with combination meter.	
Is the inspection result normal?	G
YES >> GO TO 3. NO >> Perform trouble diagnosis relevant to DTC indicated.	
3.CHECK INSIDE KEY ANTENNA	Н
Check inside key antenna.	
 Instrument center: Refer to <u>DLK-137</u>, "<u>DTC Logic"</u>. Console: Refer to <u>DLK-139</u>, "<u>DTC Logic"</u>. 	1
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	J
4.CHECK DOOR SWITCH	
Check front door switch LH.	DLK
Refer to DLK-149 , "Component Function Check". Is the inspection result normal?	
YES >> GO TO 5.	ı
NO >> Repair or replace the malfunctioning parts.	L
5.CHECK COMBINATION METER BUZZER	
Check combination meter buzzer. Refer to <a check".<="" component="" function="" href="https://doi.org/li> </td><td>M</td></tr><tr><td>Is the inspection result normal?</td><td></td></tr><tr><td>YES >> GO TO 6. NO >> Repair or replace the malfunctioning parts.</td><td>N</td></tr><tr><td>6. CHECK INTELLIGENT KEY WARNING BUZZER</td><td></td></tr><tr><td>Check Intelligent Key warning buzzer. Refer to DLK-174, " td=""><td></td>	
Is the inspection result normal?	_
YES >> GO TO 7.	Р
NO >> Repair or replace the malfunctioning parts. 7.REPLACE BCM	
Replace BCM. Refer to BCS-75, "Removal and Installation".	
 Confirm the operation after replacement. 	

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TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

KEY ID WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY ID WARNING DOES NOT OPERATE	_
Description	A 3239
Key ID warning function does not operate for vehicle with information display models.	В
NOTE: Warning functions operating condition is extremely complicated. During operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-35 , "WARNING FUNCTION: System Description".	
Diagnosis Procedure	3240
1.CHECK DTC WITH BCM	D
Check that DTC is not detected with BCM.	_
Is the inspection result normal?	Е
YES >> GO TO 2. NO >> Perform trouble diagnosis relevant to DTC indicated.	
2. CHECK DTC WITH COMBINATION METER	F
Check that DTC is not detected with combination meter.	_
Is the inspection result normal?	G
YES >> GO TO 3. NO >> Perform trouble diagnosis relevant to DTC indicated.	
3.check intelligent key	Н
Check Intelligent Key. Refer to DLK-176, "Component Function Check".	
Is the inspection result normal?	-
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	J
4. CHECK INSIDE KEY ANTENNA	_
 Check inside key antenna. Instrument center: Refer to <u>DLK-137, "DTC Logic"</u>. Console: Refer to <u>DLK-139, "DTC Logic"</u>. 	DL
Is the inspection result normal?	
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	L
5.REPLACE BCM	
Replace BCM. Refer to BCS-75, "Removal and Installation". Confirm the energian offer replacement.	M
 Confirm the operation after replacement. Is the result normal? 	
YES >> Inspection End.	Ν
NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".	
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INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Description INFOID:000000010283241

Intelligent Key low battery warning does not operate for vehicle with information display models.

NOTE:

Warning functions operating condition is extremely complicated. During operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to <u>DLK-35</u>, "WARNING FUNCTION: System <u>Description</u>".

Diagnosis Procedure

INFOID:0000000010283242

1. CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2. CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK "LO- BATT OF KEY FOB WARN" SETTING IN "WORK SUPPORT"

- 1. 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 BCS-21, "INTELLIGENT KEY: CONSULT Function (BCM INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set "ON" in "LO- BATT OF KEY FOB WARN".

CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to DLK-176, "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-137, "DTC Logic"</u>.
- Console: Refer to DLK-139, "DTC Logic".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

O.REPLACE BCM

- Replace BCM. Refer to BCS-75, "Removal and Installation".
- · Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK OPERATION WARNING DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000010283243 1. CHECK DOOR LOCK FUNCTION В Check door lock function. Does door lock/unlock using door request switch? >> GO TO 2. YES NO >> Refer to <u>DLK-205</u>, "ALL <u>DOOR REQUEST SWITCHES</u>: <u>Diagnosis Procedure</u>". 2.CHECK INTELLIGENT KEY WARNING BUZZER D Check Intelligent Key warning buzzer. Refer to DLK-174, "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-75, "Removal and Installation". · Confirm the operation after replacement. Is the result normal? YES >> Inspection End. NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". Н DLK

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AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE ALL SWITCHES

ALL SWITCHES: Description

INFOID:0000000010283244

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-39</u>, "System <u>Description"</u>.

ALL SWITCHES: Diagnosis Procedure

INFOID:0000000010283245

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-219</u>, "<u>OPEN/CLOSURE FUNCTION</u>: <u>Diagnosis Procedure</u>".

3.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check automatic back door control module power supply and ground circuit.

Refer to <u>DLK-106</u>, "<u>Diagnosis Procedure</u>".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

CHECK GROUND CIRCUIT

Check automatic back door control module ground circuit.

Refer to DLK-133, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK TOUCH SENSOR LH

Check touch sensor LH.

Refer to DLK-115, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CHECK TOUCH SENSOR RH

Check touch sensor RH.

Refer to DLK-112, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

- Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

Revision: November 2013 DLK-216 2014 Rogue NAM

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE [WITH INTELLIGENT KEY SYSTEM] < SYMPTOM DIAGNOSIS > >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". AUTOMATIC BACK DOOR SWITCH Α AUTOMATIC BACK DOOR SWITCH: Description INFOID:0000000010283246 В Automatic back door open/close function does not operate using automatic back door switch. 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-39, "System Description". AUTOMATIC BACK DOOR SWITCH: Diagnosis Procedure INFOID:0000000010283247 D CHECK AUTOMATIC BACK DOOR SWITCH Check automatic back door switch. Refer to DLK-184, "Component Function Check". Е Is the inspection result normal? >> GO TO 2. >> Repair or replace the malfunctioning parts. 2.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE Replace automatic back door control module. Refer to DLK-276, "Removal and Installation". Confirm the operation after replacement. Is the result normal? >> Inspection End. Н >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". AUTOMATIC BACK DOOR CLOSE SWITCH AUTOMATIC BACK DOOR CLOSE SWITCH: Description INFOID:0000000010283248 Automatic back door open/close function does not operate using automatic back door close switch. 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-39, "System Description". AUTOMATIC BACK DOOR CLOSE SWITCH: Diagnosis Procedure INFOID:0000000010283249 DLK ${f 1}$. CONFIRM THE OPERATION Turn ON automatic back door main switch. Confirm the operation. Is the result normal? >> Automatic back door system is normal. >> GO TO 2. 2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH Check automatic back door close switch. Refer to DLK-180, "Component Function Check". Is the inspection result normal? >> GO TO 3. >> Repair or replace the malfunctioning parts. 3.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

 $oldsymbol{4}.$ REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

>> Repair or replace the malfunctioning parts.

Check automatic back door main switch.

Is the inspection result normal?

>> GO TO 4.

Refer to DLK-182, "Component Function Check".

NOTE:

YES

NO

YES

NOTE:

YES

NO

YES

NO

YES

NO

NO

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

- Replace automatic back door control module. Refer to DLK-276, "Removal and Installation".
- Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

INTELLIGENT KEY

INTELLIGENT KEY: Description

INFOID:0000000010283250

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 <u>DLK-39</u>, "System <u>Description"</u>.

INTELLIGENT KEY: Diagnosis Procedure

INFOID:0000000010283251

$1.\mathsf{check}$ 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 dtc with <code>BCM</code>

Check that DTC is not detected with BCM

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 4.

NO >> Refer to DLK-208, "Diagnosis Procedure".

4. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

- 1. Replace automatic back door control module. Refer to DLK-276, "Removal and Installation".
- Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH: Description

INFOID:0000000010283252

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-39. "System Description".

BACK DOOR OPENER SWITCH: Diagnosis Procedure

INFOID:0000000010283253

1. CONFIRM THE OPERATION

- 1. Turn ON automatic back door main switch.
- 2. Confirm the operation.

Is the result normal?

YES >> Automatic back door system is normal.

NO >> GO TO 2.

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

CHINI TOWN DIAGNOCIO	
2. CHECK AUTOMATIC BACK DOOR MAIN SWITCH	Δ
Check automatic back door main switch. Refer to DLK-182, "Component Function Check".	\wedge
Is the inspection result normal?	В
YES >> GO TO 3.	D
NO >> Repair or replace the malfunctioning parts.	
3. CHECK BACK DOOR OPENER SWITCH	С
Check back door opener switch. Refer to DLK-172, "Component Function Check".	
Is the inspection result normal?	D
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning parts.	Е
4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE	
 Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>. Confirm the operation after replacement. 	_
Is the result normal?	F
YES >> Inspection End.	
NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". OPEN/CLOSURE FUNCTION	G
OPEN/CLOSURE FUNCTION: Description	
·	Н
Back door auto closure function does not operate when back door opening and closing operations are performed.	
OPEN/CLOSURE FUNCTION : Diagnosis Procedure	-
1.CONFIRM THE OPERATION	
Turn ON automatic back door main switch.	J
2. Confirm the operation.	
	DLK
YES >> Automatic back door system is normal. NO >> GO TO 2.	
2. CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL MODULE	L
Check that DTC is not detected with automatic back door control module.	
Is the inspection result normal?	M
YES >> GO TO 3. NO >> Perform trouble diagnosis relevant to DTC indicated.	IVI
3. CHECK AUTOMATIC BACK DOOR MAIN SWITCH	
Check automatic back door main switch.	Ν
Refer to DLK-182, "Component Function Check".	
Is the inspection result normal?	0
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.	
4. CHECK BACK DOOR OPENER SWITCH	Р
Check back door opener switch.	
Refer to DLK-172, "Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 5. NO >> Repair or replace the malfunctioning parts.	

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

5. CHECK BACK DOOR CLOSURE MOTOR

Check back door closure motor.

Refer to DLK-195, "Diagnosis Procedure".

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. Refer to DLK-276, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

OPEN FUNCTION

OPEN FUNCTION: Description

INFOID:0000000010283256

Back door auto closure function does not operate when back door opening operations are performed.

OPEN FUNCTION: Diagnosis Procedure

INFOID:0000000010283257

1. CONFIRM THE OPERATION

- 1. Turn ON automatic back door main switch.
- 2. Confirm the operation.

Is the result normal?

YES >> Automatic back door system is normal.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Refer to DLK-182, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to DLK-172, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

- Replace automatic back door control module. Refer to <u>DLK-276. "Removal and Installation"</u>.
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

CLOSURE FUNCTION

CLOSURE FUNCTION: Description

INFOID:0000000010283258

Back door auto closure function does not operate when back door closing operations are performed.

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >	[WITH INTELLIGENT KEY SYSTEM]
CLOSURE FUNCTION : Diagnosis Procedure	INFOID:000000011028325
1. CHECK HALF LATCH SWITCH	
Check half latch switch.	
Refer to <u>DLK-186</u> , "Component Function Check". <u>Is the inspection result normal?</u>	
YES >> GO TO 2.	
NO >> Repair or replace the malfunctioning parts.	
2.CHECK BACK DOOR CLOSURE MOTOR	
Check back door closure motor. Refer to <u>DLK-195</u> , " <u>Diagnosis Procedure</u> ".	
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. Refer to <u>DLK</u> Confirm the operation after replacement. 	<u>-270, Removal and Installation</u> .
Is the result normal?	
YES >> Inspection End. NO >> Check intermittent incident. Refer to GI-41, "Intermited of the second	ttent Incident"
TO TO ONCO INCIMILLANT INCIDENT. NOICE TO GITTI, INCIMIL	ttent meldent.

AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE BUZZER

BUZZER: Description

INFOID:0000000010283260

Automatic back door warning chime does not operate when automatic back door warning function are performed.

BUZZER: Diagnosis Procedure

INFOID:0000000010283261

1. CHECK DTC WITCH 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 WARNING CHIME

Check back door warning chime.

Refer to DLK-196, "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

- 1. Replace automatic back door control module. Refer to DLK-276, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

HAZARD WARNING LAMP

HAZARD WARNING LAMP: Description

INFOID:0000000010283262

Hazard warning lamp does not operate when automatic back door warning function are performed.

HAZARD WARNING LAMP: Diagnosis Procedure

INFOID:0000000010283263

1. CHECK DTC WITCH 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.

${f 2.}$ CHECK DTC WITCH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK GROUND CIRCUIT

Check automatic back door control module ground circuit.

Refer to DLK-141, "AUTOMATIC BACK DOOR CONTROL UNIT: Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts

4.CHECK HAZARD AND HORN REMINDER FUNCTION

AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Check hazard and horn reminder function.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Refer to <u>DLK-179</u>, "<u>Diagnosis Procedure</u>".

5. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module. Refer to <u>DLK-276, "Removal and Installation"</u>.

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

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AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

Diagnosis Procedure

INFOID:0000000010283264

1. CHECK THE OPERATION

Check automatic back 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.

NO >> GO TO 2

$2.\mathsf{CHECK}$ AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Refer to DLK-182, "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

- Replace automatic back door control module. Refer to DLK-276, "Removal and Installation".
- 2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

NO

AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE

Α Diagnosis Procedure INFOID:0000000010283265 ${f 1}$.CHECK POWER SUPPLY AND GROUND CIRCUIT В Check automatic back door control module power supply and ground circuit. Refer to <u>DLK-106</u>, "<u>Diagnosis Procedure</u>". Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts. D 2.check touch sensor LH $\,$ Check touch sensor LH. Refer to DLK-190, "LH: Component Function Check". Е Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. F 3.CHECK TOUCH SENSOR RH Check touch sensor RH. Refer to DLK-188, "RH: Component Function Check". Is the inspection result normal? YES >> GO TO 4. Н NO >> Repair or replace the malfunctioning parts. 4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE Replace automatic back door control module. Refer to DLK-276, "Removal and Installation". Confirm the operation after replacement. Is the result normal? YES >> Inspection End.

>> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

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DLK-225 Revision: November 2013 2014 Rogue NAM

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000010283266

1. CHECK INTEGRATED HOMELINK® TRANSMITTER

Check integrated homelink® transmitter.

Refer to <u>DLK-198</u>, "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.

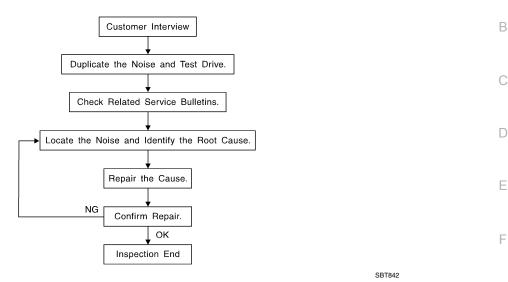
Refer to MIR-20, "Removal and Installation".

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

Work Flow



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 customer's comments; refer to DLK-231, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving 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 dependent on materials/often brought on by activity
- 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 bumble bee)
 Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

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< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
- 2) Tap or push/pull around the area where the noise appears to be coming from.
- 3) Rev the engine.
- 4) Use a floor jack to recreate vehicle "twist".
- 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT and 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: J-39565 and mechanic's stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - removing the components in the area that you suspect the noise is coming from.
 Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
 - tapping or pushing/pulling the component that you suspect is causing the noise.
 Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
 - placing a piece of paper between components that you suspect are causing the noise.
 - looking for loose components and contact marks.
 Refer to DLK-228, "Generic Squeak and Rattle Troubleshooting".

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 your authorized NISSAN Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged. NOTE:

- Always check with the Parts Department for the latest parts information.
- The materials 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.
- The following materials not found in the kit can also be used to repair squeaks and rattles.
- SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease will only last a few months.
- SILICONE SPRAY: Use when grease cannot be applied.
- DUCT TAPE: Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Generic Squeak and Rattle Troubleshooting

INFOID:0000000010283268

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

- Cluster lid A and the instrument panel
- Acrylic lens and combination meter housing
- Instrument panel to front pillar finisher
- 4. Instrument panel to windshield
- Instrument panel 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 silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

- 1. Shift selector 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:

- Finisher and inner panel making a slapping noise
- Inside handle escutcheon to door finisher
- Wiring harnesses tapping
- Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks 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 owner. In addition look for:

- Trunk lid bumpers out of adjustment
- Trunk lid striker out of adjustment
- The trunk lid torsion bars knocking together
- A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

- 1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- Sun visor 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.

OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage.

- Loose harness or harness connectors.
- Front console map/reading lamp lens loose.

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In addition look for:

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< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Loose screws at console attachment points.

SEATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

- Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- 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 installed to the engine wall
- 2. Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- 4. Loose radiator installation pins
- 5. Hood bumpers out of adjustment
- 6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine rpm or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Diagnostic Worksheet

INFOID:0000000010283269

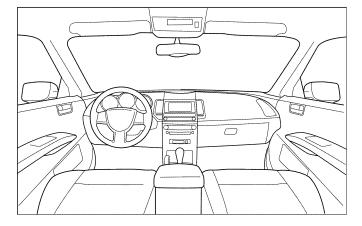
Dear Customer:

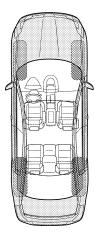
We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

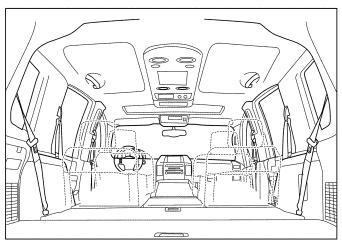
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

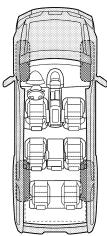
I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

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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< SYMPTOM DIAGNOSIS >

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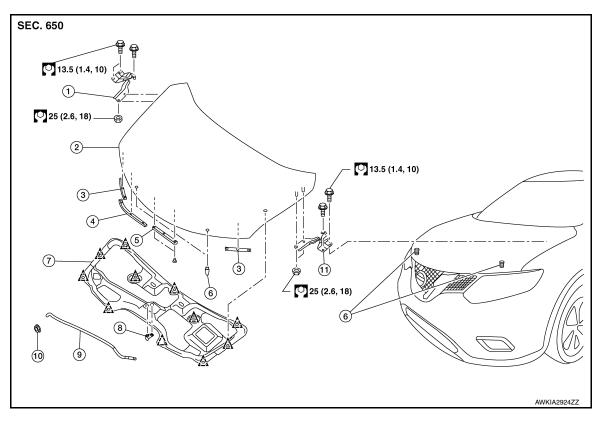
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Briefly describe the location where the nois	se occurs	:		
II. WHEN DOES IT OCCUR? (please che	ck the bo	xes that app	oly)	
☐ Anytime☐ 1st time in the morning☐ Only when it is cold outside☐ Only when it is hot outside	□ W	er sitting ou hen it is rair y or dusty c her:	ing or wet	
III. WHEN DRIVING:	IV. W	HAT TYPE	OF NOISE	≣
 ☐ Through driveways ☐ Over rough roads ☐ Over speed bumps ☐ Only about mph ☐ On acceleration ☐ Coming to a stop ☐ On turns: left, right or either (circle) ☐ With passengers or cargo ☐ Other: miles or minu 	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 PI Test Drive Notes:	ERSONN	EL		
		YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm	n repair			
VIN:	Cust	omer Name	·	
W.O.#	Date	:		<u> </u>

REMOVAL AND INSTALLATION

HOOD

Exploded View



- 1. Hood hinge (RH)
- 4. Hood front seal
- 7. Hood insulator
- 10. Hood rod grommet
- 2. Hood
- 5. Hood center seal
- 8. Hood rod clamp
- 11. Hood hinge (LH)

- 3. Hood side seal
- 6. Bumper rubber
- Hood support rod

HOOD ASSEMBLY

HOOD ASSEMBLY: Removal and Installation

CAUTION:

- Use two people when removing or installing hood assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of hood assembly.

REMOVAL

1. Support the hood assembly using a suitable tool.

WARNING:

Bodily injury may occur if hood assembly is not supported properly when removing hood assembly.

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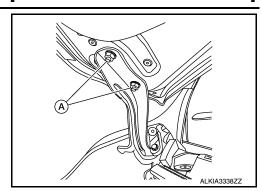
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Remove hood hinge to hood nuts (A) and hood assembly.NOTE:

RH side shown; LH similar.



INSTALLATION

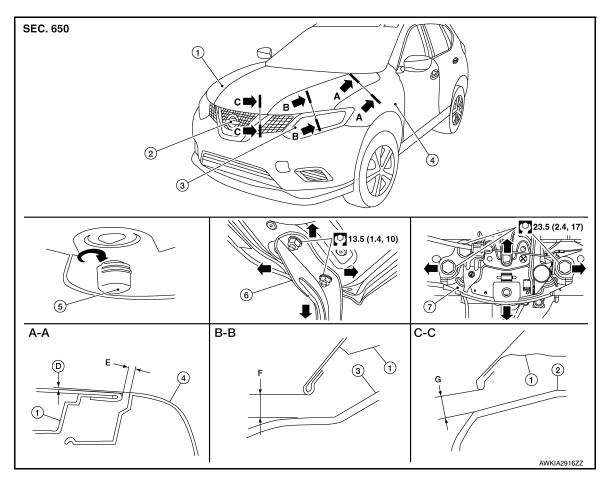
Installation is in the reverse order of removal.

CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform the hood assembly adjustment procedure. Refer to <u>DLK-234</u>, "HOOD ASSEMBLY: Adjustment".

HOOD ASSEMBLY: Adjustment

INFOID:0000000010247364



- 1. Hood assembly
- Fender
- 7. Hood lock

- 2. Front grille
- 5. Bumper rubber

- Front combination lamp
- 6. Hood hinge

Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

[WITH INTELLIGENT KEY SYSTEM]

Unit: mm (in)

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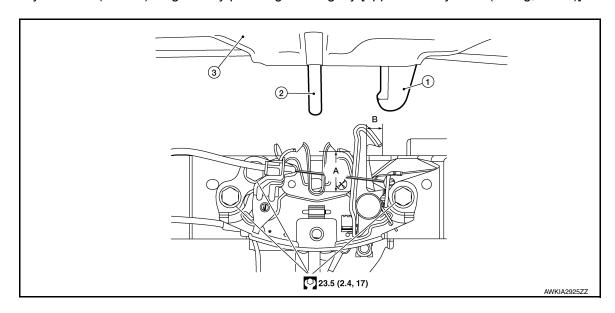
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Portion	Section	Item	Measurement	Standard	Parallelism
Hood - Fender	A - A	D	Surface height	$0.0 \pm 1.0 \; (0.0 \pm 0.04)$	1.4 (0.06)
	A-A	Е	Clearance	3.5 ± 1.5 (0.14 ± 0.04)	1.4 (0.06)
Fender - Front combination lamp	B - B	F	Clearance	$9.0 \pm 2.0 \; (0.35 \pm 0.08)$	2.0 (0.08)
Hood - Front combination lamp	C - C	G	Clearance	1.9 ± 1.1 (0.07 ± 0.04)	1.5 (0.06)

HEIGHT ADJUSTMENT

- 1. Loosen the hood lock assembly bolts.
- 2. Adjust the surface height of hood assembly to front grille and front fender according to the specified values by rotating hood bumper rubber.
- 3. Temporarily tighten hood lock assembly bolts.
- 4. Adjust (A) and (B) as shown to the following value with hood's own weight by dropping it from approximately 200 mm (7.87 in) height or by pressing hood lightly [approximately 29 N (3.0 kg, 6.5 lb)].



- Secondary striker
 20 mm (0.79 in)
- 2. Primary striker
- B. 6.8 mm (0.27 in)

- Hood assembly
- 5. After adjustment, tighten hood hinge nuts and bolts to the specified torque.

CAUTION:

- Check hood hinge rotating part for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of hood hinge bolts and nuts.

CLEARANCE ADJUSTMENT

- Loosen hood hinge nuts and bolts.
- Loosen the hood lock assembly bolts.
- 3. Adjust the hood assembly so the clearance measurements are within specifications.
- Tighten the hood hinge nuts and bolts to specified torque.
- 5. Tighten the hood lock assembly bolts to specified torque.

HOOD HINGE

HOOD HINGE: Removal and Installation

INFOID:0000000010247365

REMOVAL

Remove hood assembly. Refer to DLK-233, "HOOD ASSEMBLY: Removal and Installation".

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HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Remove front fender. Refer to <u>DLK-238</u>, "Removal and Installation".
- 3. Remove hood hinge bolts, and then remove hood hinge.

INSTALLATION

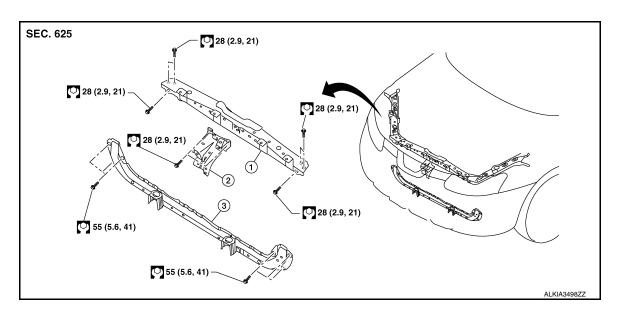
Installation is in the reverse order of removal.

CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform hood assembly adjustment procedure. Refer to <u>DLK-234, "HOOD ASSEM-BLY: Adjustment"</u>.

RADIATOR CORE SUPPORT

Exploded View



1. Radiator core upper support

2. Secondary latch bracket

3. Radiator core lower support

Removal and Installation

INFOID:0000000010247367

CAUTION:

When removing radiator core support upper, be careful not to damage the painted surface.

REMOVAL

Radiator Core Upper Support

- Remove front combination lamp (LH). Refer to EXL-119, "Removal and Installation".
- 2. Remove front air duct. Refer to EM-24, "Exploded View".
- 3. Remove hood lock. Refer to DLK-253, "HOOD LOCK: Removal and Installation".
- Remove secondary latch. Refer to <u>DLK-254</u>, "SECONDARY LATCH: Removal and Installation".
- Remove crash zone sensor. Refer to <u>SR-22, "Removal and Installation"</u>.
- 6. Remove bolts and radiator core upper support.

Radiator Core Lower Support

- Remove front bumper fascia. Refer to EXT-17, "Removal and Installation".
- 2. Support the radiator using a suitable tool.
- 3. Remove bolts and radiator core lower support.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Tighten bolts to specified torque. Refer to DLK-237, "Exploded View".

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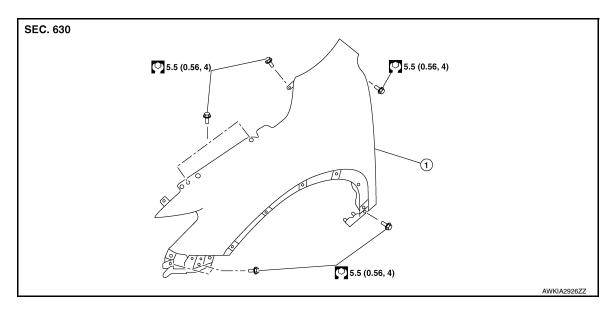
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FRONT FENDER

Exploded View



Front fender

Removal and Installation

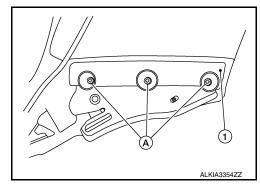
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CAUTION:

Use a shop cloths to protect the body from being damaged during removal and installation.

REMOVAL

- 1. Remove front bumper fascia. Refer to EXT-17, "Removal and Installation".
- Remove front combination lamp. Refer to <u>EXL-119</u>, "<u>Removal and Installation</u>" (HALOGEN HEADLAMP) or <u>EXL-268</u>, "<u>Removal and Installation</u>". (LED HEADLAMP).
- 3. Remove center mudguard. Refer to EXT-35, "Removal and Installation Center Mudguard".
- 4. Remove screws (A) and front fender bracket (1).



Remove bolts and front fender.

CAUTION:

Use care when removing the front fender. The front fender baffle foam adheres the front fender to the body side outer. Carefully release the baffle foam or damage to the front fender may occur.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation apply touch up paint (body color) to the head of front fender bolts.
- After installation, adjust the following components as necessary:
- Hood assembly: Refer to <u>DLK-234</u>, "HOOD ASSEMBLY: Adjustment".
- Front door: Refer to DLK-241, "DOOR ASSEMBLY: Adjustment".

FRONT FENDER

• Tighten bolts to specification. Refer to DLK-238, "Exploded View".

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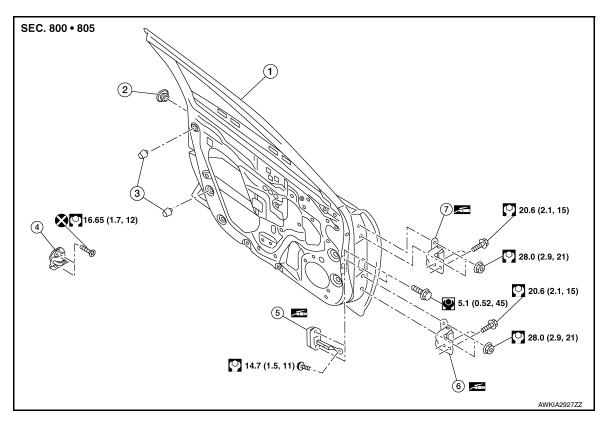
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FRONT DOOR

Exploded View



- 1. Front door panel
- Door striker
- 7. Front door upper hinge
- 2. Grommet
- 5. Door check link

- 3. Bumper rubber
- 6. Front door lower hinge

DOOR ASSEMBLY

DOOR ASSEMBLY: Removal and Installation

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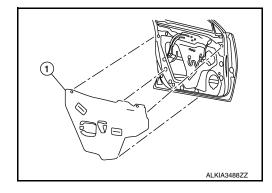
CAUTION:

- Use two people when removing or installing the front door due to its heavy weight.
- When removing and installing front door assembly, support front door with a suitable tool.

REMOVAL

- 1. Remove front door finisher. Refer to INT-15, "Removal and Installation".
- Remove front door vapor barrier (1).

LH side shown; RH similar.



- 3. Disconnect the harness connectors from the front door.
- 4. Remove front door harness grommet, then harness from the front door.

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- Remove front door check link bolt (body side).
- Remove front door hinge nuts (door side) and front door assembly.

INSTALLATION

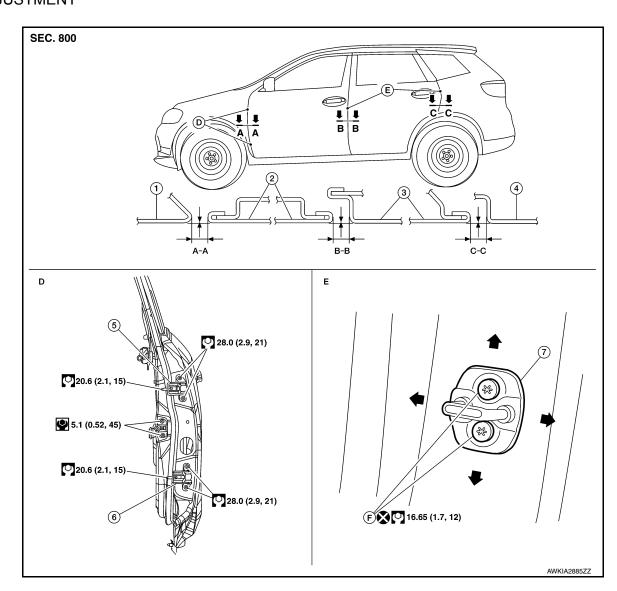
Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts/bolts to specified torque. Refer to DLK-240, "Exploded View".
- · Apply anticorrosive agent where necessary.
- After installation, check front door open/close and lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to DLK-241, "DOOR ASSEM-**BLY: Adjustment".**

DOOR ASSEMBLY: Adjustment

ADJUSTMENT



- Front fender
- Body side outer
- Door striker

- 2. Front door
- Front door upper hinge
- Front door striker bolts
- Rear door
- Front door lower hinge

Check the clearance and surface height between front door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

[WITH INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Portion	Section	Measurement	Standard
Front fender - Front door	A – A	Clearance	4.2 ± 1.0 (0.17 ± 0.04)
	A-A	Surface height	± 1.0 (± 0.04)
Front door - Rear door	B – B	Clearance	4.5 ± 1.0 (0.18 ± 0.04)
		Surface height	± 1.0 (± 0.04)
Rear door - Body side outer	C – C	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
		Surface height	± 1.0 (± 0.04)

- Remove front fender. Refer to <u>DLK-238</u>, "<u>Removal and Installation</u>".
- 2. Loosen front door hinge nuts (door side).
- 3. Adjust the surface height of front door according to the specifications provided.
- 4. Temporarily tighten front door hinge nuts (door side).
- 5. Loosen front door hinge bolts (body side).
- 6. Raise front door at rear end to adjust clearance of the front door according to the specifications provided.
- 7. After adjustment tighten bolts and nuts to the specified torque.

CAUTION:

- Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of front door hinge bolts and nuts.
- 8. Install front fender. Refer to refer to DLK-238, "Removal and Installation".

DOOR STRIKER

DOOR STRIKER: Removal and Installation

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REMOVAL

Remove bolts and front door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

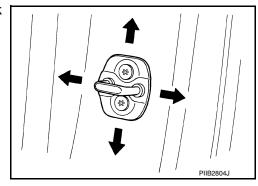
- · Do not reuse front door striker bolts.
- After installation, check front door open/close operation. If necessary, adjust the front door striker.
 Refer to <u>DLK-242</u>, "<u>DOOR STRIKER</u>: <u>Adjustment</u>".
- Tighten bolts to specified torque. Refer to DLK-240, "Exploded View".

DOOR STRIKER: Adjustment

INFOID:0000000010247374

DOOR STRIKER ADJUSTMENT

- Loosen door striker bolts
- 2. Adjust door striker so that it becomes parallel with front door lock insertion direction.



3. Tighten door striker bolts to specification. Refer to <u>DLK-240</u>, "Exploded View".

DOOR HINGE

FRONT DOOR

< REMOVAL AND INSTALLATION >

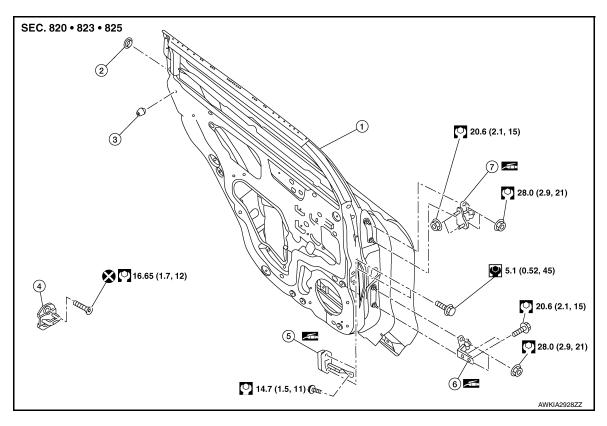
[WITH INTELLIGENT KEY SYSTEM]

DOOR HINGE: Removal and Installation INFOID:0000000010247375 Α REMOVAL 1. Remove front fender. Refer to <u>DLK-238</u>, "Removal and Installation". В Remove front door assembly. Refer to <u>DLK-240</u>, "<u>DOOR ASSEMBLY</u>: <u>Removal and Installation</u>". Remove front door hinge bolts (body side) and front door hinge. INSTALLATION Installation is in the reverse order of removal. **CAUTION:** Tighten nuts/bolts to specified torque. Refer to DLK-240, "Exploded View". D Apply anticorrosive agent to the hinge mating surface. After installation, check front door open/close and lock/unlock operation. Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose Е grease. After installation, perform the front door adjustment procedure. Refer to <u>DLK-241, "DOOR ASSEM-</u> **BLY: Adjustment".** DOOR CHECK LINK F DOOR CHECK LINK: Removal and Installation INFOID:0000000010247376 **REMOVAL** Fully close the front door window. Remove front door speaker. Refer to AV-67, "Removal and Installation" (DISPLAY AUDIO), AV-213, Н "Removal and Installation" (NAVIGATION WITHOUT BOSE) or AV-381, "Removal and Installation" (NAV-**IGATION WITH BOSE).** Remove door check link bolt (body side). Remove door check link bolts (door side). Remove door check link through the hole in door assembly. INSTALLATION Installation is in the reverse order of removal. **CAUTION:** Tighten nuts/bolts to specified torque. Refer to <u>DLK-240, "Exploded View"</u>. DLK After installation, check front door open/close and lock/unlock operation. Check door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease. L N Р

Revision: November 2013 DLK-243 2014 Rogue NAM

REAR DOOR

Exploded View



- 1. Rear door panel
- 4. Door striker
- 7. Rear door upper hinge
- 2. Grommet
- 5. Door check link

- 3. Bumper rubber
- 6. Rear door lower hinge

DOOR ASSEMBLY

DOOR ASSEMBLY: Removal and Installation

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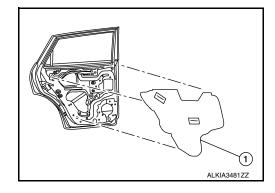
CAUTION:

- · Use two people when removing or installing the rear door due to its heavy weight.
- When removing and installing rear door assembly, support rear door using a suitable tool.

REMOVAL

- Remove rear door finisher. Refer to <u>DLK-244, "DOOR ASSEMBLY: Removal and Installation"</u>.
- Remove rear door vapor barrier (1). NOTE:

LH side shown; RH similar.



- 3. Disconnect the harness connectors from rear door.
- 4. Remove harness grommet from rear door, then pull out rear door harness from the rear door.

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- 5. Remove rear door check link bolt (body side).
- 6. Remove rear door hinge nuts (door side) and rear door assembly.

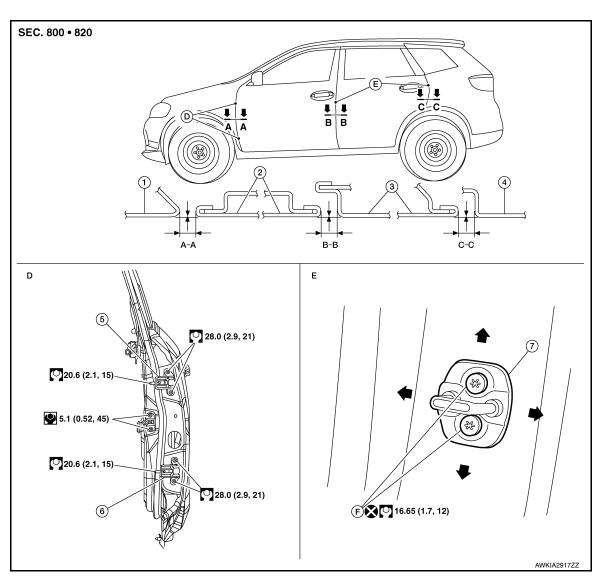
INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts/bolts to specification. Refer to DLK-244, "Exploded View".
- Apply anticorrosive agent where necessary.
- After installation, check rear door open/close and lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to <u>DLK-245</u>, "<u>DOOR ASSEMBLY</u>
 : <u>Adjustment</u>".

DOOR ASSEMBLY : Adjustment



- 1. Front fender
- Body side outer
- 7. Rear door lower hinge
- 2. Front door
- 5. Door striker
- F. Door striker bolts
- 3. Rear door
- 6. Rear door upper hinge

Check the clearance and surface height between rear door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Revision: November 2013 DLK-245 2014 Rogue NAM

[WITH INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Portion	Section	Measurement	Standard
Front fender - Front door	A – A	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
	A-A	Surface height	± 1.0 (± 0.04)
Front door - Rear door	B – B	Clearance	4.3 ± 1.0 (0.17 ± 0.04)
	B-B	Surface height	± 1.0 (± 0.04)
Rear door - Body side outer	C – C	Clearance	$3.7 \pm 1.0 \; (0.15 \pm 0.04)$
	0-0	Surface height	± 1.0 (± 0.04)

- Remove center pillar lower finisher. Refer to <u>INT-22, "CENTER PILLAR LOWER FINISHER: Removal and Installation".</u>
- 2. Loosen rear door hinge nuts (door side).
- Adjust the surface height of rear door according to specifications provided.
- 4. Temporarily tighten rear door hinge nuts (door side).
- 5. Loosen rear door hinge nuts and bolts (body side).
- 6. Raise rear door at rear end to adjust clearance of rear door according to the specifications provided.
- 7. After adjustment tighten bolts and nuts to the specified torque.
 - CAUTION:
 - Check rear door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
 - After adjusting, apply touch-up paint (body color) to the head of rear door hinge bolts and nuts.
- 8. Install center pillar lower finisher. Refer to INT-22, "CENTER PILLAR LOWER FINISHER: Removal and Installation".

DOOR STRIKER

DOOR STRIKER: Removal and Installation

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REMOVAL

Remove bolts and rear door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

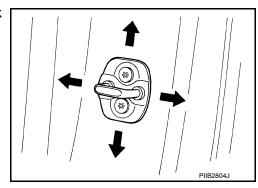
- · Do not reuse rear door striker bolts.
- Tighten bolts to specification. Refer to DLK-244, "Exploded View".
- After installation, check rear door open/close operation. If necessary, adjust the door striker. Refer to <u>DLK-246, "DOOR STRIKER: Adjustment"</u>.

DOOR STRIKER: Adjustment

INFOID:0000000010247381

DOOR STRIKER ADJUSTMENT

- Loosen door striker bolts
- Adjust door striker so that it becomes parallel with front door lock insertion direction.



3. Tighten door striker bolts to specification. Refer to DLK-244, "Exploded View".

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR HINGE

DOOR HINGE: Removal and Installation

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REMOVAL

- Remove rear door assembly. Refer to <u>DLK-244</u>, "<u>DOOR ASSEMBLY</u>: <u>Removal and Installation</u>".
- 2. Remove center pillar lower finisher (rear door lower hinge only). Refer to INT-22, "CENTER PILLAR LOWER FINISHER: Removal and Installation".
- Remove rear door hinge bolts and nuts and rear door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts/bolts to specification. Refer to DLK-244, "Exploded View".
- Apply anticorrosive agent onto the hinge mating surface.
- After installation, check rear door open/close and lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to DLK-245, "DOOR ASSEMBLY : Adjustment".

DOOR CHECK LINK

DOOR CHECK LINK: Removal and Installation

INFOID:0000000010247383

REMOVAL

- Fully close the rear door window.
- 2. Remove rear door speaker. Refer to AV-68, "Removal and Installation" (DISPLAY AUDIO), AV-214, "Removal and Installation" (NAVIGATION WITHOUT BOSE) or AV-383, "Removal and Installation" (NAV-IGATION WITH BOSE).
- Remove rear door check link bolt (body side).
- Remove rear door check link bolts (door side).
- Remove rear door check link through the hole in rear door panel.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specification. Refer to <u>DLK-244, "Exploded View"</u>.
- After installation, check rear door open/close and lock/unlock operation.
- Check rear door check link rotating point for poor lubrication. If necessary, apply a suitable multipurpose grease.

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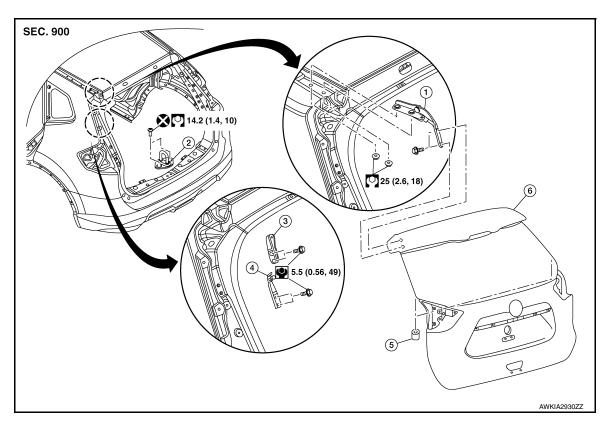
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BACK DOOR

Exploded View



- Back door hinge
- 2. Back door striker
- 5. Bumper rubber

- 3. Spindle unit hinge (with automatic back door)
- 6. Back door

BACK DOOR ASSEMBLY

Back door stay hinge

BACK DOOR ASSEMBLY: Removal and Installation

INFOID:0000000010247385

CAUTION:

- Use two people when removing or installing the back door due to its heavy weight.
- Use shop cloths to protect surrounding components from damage during removal and installation of back door.

REMOVAL

1. Support the back door assembly using a suitable tool.

WARNING:

Bodily injury may occur if back door assembly is not supported properly when removing the back door spindle unit.

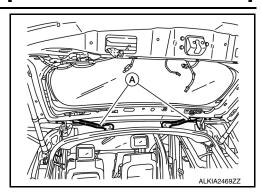
- 2. Remove spindle units (LH/RH) or back door stays (LH/RH). Refer to DLK-263, "SPINDLE UNIT: Removal and Installation" (WITH AUTOMATIC BACK DOOR) or DLK-264, "BACK DOOR STAY: Removal and Installation" (WITHOUT AUTOMATIC BACK DOOR).
- 3. Remove roof side moldings (LH/RH). Refer to EXT-39, "Removal and Installation".

BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

4. Disconnect harness connectors (A) from back door.



- 5. Remove back door harness grommet, then pull harness from the back door.
- Disconnect washer tube.
- 7. Remove washer tube grommet and washer tube from the back door.
- 8. Remove back door hinge bolts (door side) and back door assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specification. Refer to <u>DLK-248, "Exploded View"</u>.
- Apply anticorrosive agent onto the surface between hinge and door side.
- When reusing stud ball, always apply locking sealant before installing stud ball to back door.
- After installation, perform the back door assembly adjustment procedure. Refer to <u>DLK-250</u>, "<u>BACK DOOR ASSEMBLY</u>: Adjustment".
- Perform calibration of automatic back door position information. Refer to <u>DLK-103</u>, "Work <u>Procedure"</u>.

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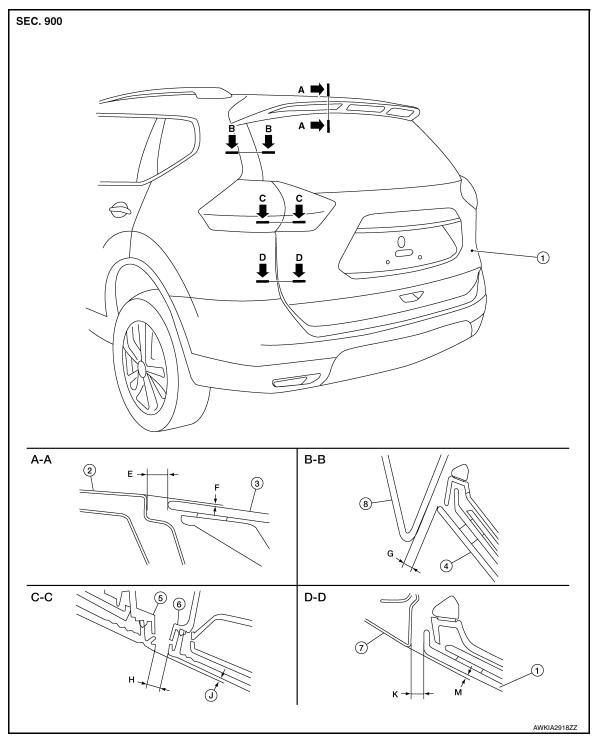
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BACK DOOR ASSEMBLY: Adjustment

INFOID:0000000010247386



- 1. Back door assembly
- 4. Back door glass
- 7. Rear fender

- 2. Roof panel
- 5. Rear combination lamp
- 8. Side spoiler

- Rear spoiler
- 6. Back-up lamp

Check the clearance and the surface height between back door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

[WITH INTELLIGENT KEY SYSTEM]

					Unit: mm (in)		
Portion	Section	Item	Measurement	Standard	Paraelleism	Δ	
Roof panel – Rear spoiler	A – A	Е	Clearance	$7.0 \pm 2.0 \; (0.28 \pm 0.08)$	2.0 (0.08)		
	A-A	F	Surface height	1.7 ± 2.0 (0.07 ± 0.08)	2.0 (0.08)	В	
Side spoiler – Back door glass	B – B	G	Clearance	$5.5 \pm 2.0 \; (0.22 \pm 0.08)$	2.0 (0.08)		
		Н	Surface height	_	_		
Rear combination lamp – Back-up lamp	C-C	J	Clearance	4.5 ± 2.0 (0.18 ± 0.08)	2.0 (0.08)	C	
	0-0	K	Surface height	2.2 ± 2.0 (0.09 ± 0.08)	2.0 (0.08)		
Rear fender – Back door	Door forder Dook door	D – D	М	Clearance	4.7 ± 2.0 (0.19 ± 0.08)	2.0 (0.08)	Г
	0-0	N	Surface height	$2.5 \pm 2.0 \; (0.10 \pm 0.08)$	2.0 (0.08)	L	

- 1. Loosen back door hinge nuts (door side).
- Lift up back door approximately 100 150 mm (3.94 5.91 in) height then close it lightly and check that it is engaged firmly with back door closed.
- Check the clearance and surface height according to the specifications provided.
- Tighten back door hinge nuts to specified torque. **CAUTION:**
 - After installation, check back door open/close, lock/unlock operation.
 - · Check back door hinge rotating point for poor lubrication. If necessary, apply a suitable multipurpose grease.
 - After adjusting, apply touch-up paint (body color) to the head of rear door hinge bolts and nuts.

BACK DOOR STRIKER

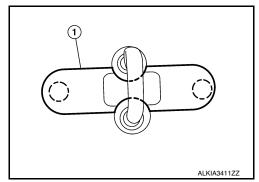
BACK DOOR STRIKER: Removal and Installation

INFOID:0000000010247387

REMOVAL

1. Release back door striker cover (1) pawls using a suitable tool and remove.

(): Pawl



Remove bolts and back door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Do not reuse back door striker bolts.
- Tighten bolts to specification. Refer to <u>DLK-248, "Exploded View"</u>.
- After installation, check back door open/close operation. If necessary, adjust the door striker. Refer to DLK-251, "BACK DOOR STRIKER: Adjustment".

BACK DOOR STRIKER: Adjustment

DOOR STRIKER ADJUSTMENT

Loosen door striker bolts

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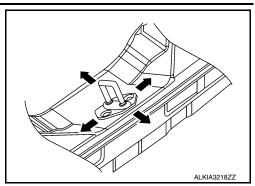
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[WITH INTELLIGENT KEY SYSTEM]

Adjust door striker so that it becomes parallel with front door lock insertion direction.



3. Tighten door striker bolts to specification. Refer to DLK-248, "Exploded View".

BACK DOOR HINGE

BACK DOOR HINGE: Removal and Installation

INFOID:0000000010247389

REMOVAL

- 1. Remove back door assembly. Refer to DLK-248, "BACK DOOR ASSEMBLY: Removal and Installation".
- 2. Partially remove the rear of the headlining. Refer to INT-30, "Removal and Installation".
- 3. Remove nuts and back door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts to specification. Refer to <u>DLK-248</u>, "Exploded View".
- Apply anticorrosive agent onto the surface between hinge and body side.
- After installation, perform the back door assembly adjustment procedure. Refer to <u>DLK-250</u>, "<u>BACK DOOR ASSEMBLY</u>: Adjustment".

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP: Removal and Installation

INFOID:0000000010247392

REMOVAL

Carefully remove back door weather-strip from opening door joint.

INSTALLATION

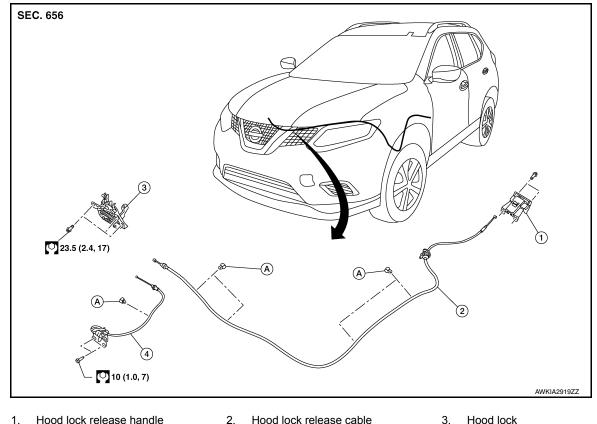
- 1. Beginning with upper section, align weather-strip mark with vehicle center position mark and install weather strip to the vehicle.
- For the lower section, align weather-strip seam with center of back door striker.

NOTE:

Pull weather-strip gently to ensure that there are no loose sections.

HOOD LOCK

Exploded View



Hood lock release handle

Secondary latch

- A. Clip

HOOD LOCK

HOOD LOCK: Removal and Installation

REMOVAL

- Disconnect hood lock release cable and secondary latch cable from hood lock.
- Remove bolts and hood lock.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specified torque. Refer to DLK-253, "Exploded View".
- Check that hood lock release cable and secondary latch cable are properly engaged with hood lock.
- After installation, perform hood assembly adjustment procedure. Refer to <u>DLK-234, "HOOD ASSEM-</u> **BLY: Adjustment".**
- After adjusting, perform hood lock inspection. Refer to <u>DLK-253, "HOOD LOCK: Inspection"</u>.

HOOD LOCK: Inspection

NOTE:

If the hood lock cable is bent or deformed, replace it.

- Check that secondary latch is properly engaged with secondary striker with hoods own weight.
- While operating hood lock release handle, carefully check that the front end of hood assembly is raised by approximately 20.0 mm (0.79 in). Also check that hood lock release handle returns to the original position.
- Check that hood lock release handle operates at 49 N (5.0 kg-m, 11.0 ft-lb) or below.

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< REMOVAL AND INSTALLATION >

- Install so that static closing force of hood is 315-490 N (32.1-50.0 kg-m, 70.8-110.2 ft-lb).
 NOTE:
 - Do not exert vertical force on right side and left side of hood lock.
 - Do not press simultaneously on both sides.
- 5. Check the hood lock lubrication condition. If necessary, apply a suitable multi-purpose grease to hood lock assembly.

SECONDARY LATCH

SECONDARY LATCH: Removal and Installation

INFOID:0000000010247396

REMOVAL

- 1. Remove front grille. Refer to EXT-23, "Removal and Installation".
- 2. Disconnect secondary latch cable from hood lock assembly.
- 3. Remove bolts and secondary latch.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specified torque. Refer to DLK-253, "Exploded View".
- · Check that secondary latch cable is properly engaged with hood lock.

HOOD LOCK RELEASE CABLE

HOOD LOCK RELEASE CABLE: Removal and Installation

INFOID:0000000010247397

REMOVAL

- 1. Remove fender protector (LH). Refer to EXT-28, "FENDER PROTECTOR: Removal and Installation".
- Remove front grille. Refer to <u>EXT-23</u>, "Removal and Installation".
- 3. Disconnect hood lock release cable from hood lock release handle and hood lock.
- 4. Release hood lock release cable clips using a suitable tool.
- Remove grommet on the lower dash and carefully pull the hood lock release cable into the passenger compartment.

CAUTION:

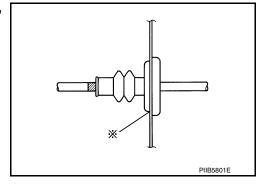
While pulling, be careful not to damage (peel) the outside of hood lock release cable.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Be careful not to bend cable too much, keep the radius 100 mm (3.94 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 release cable is properly engaged with hood lock assembly.
- After installation, perform hood assembly adjustment procedure. Refer to <u>DLK-234, "HOOD ASSEM-BLY</u>: Adjustment".
- After adjusting, perform hood lock inspection. Refer to DLK-253, "HOOD LOCK: Inspection". HOOD LOCK RELEASE HANDLE

[WITH INTELLIGENT KEY SYSTEM]

HOOD LOCK RELEASE HANDLE: Removal and Installation

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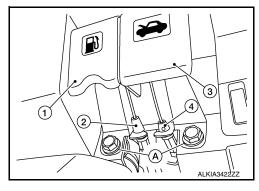
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REMOVAL

- 1. Remove fuel filler lid/hood lock release handle bolts (A).
- 2. Disconnect fuel filler lid release cable (2) from fuel filler lid release handle (1).
- 3. Disconnect hood lock release cable (4) from hood lock release handle (3).
- 4. Remove hood lock release handle.



INSTALLATION

Installation is in the reverse order of removal.

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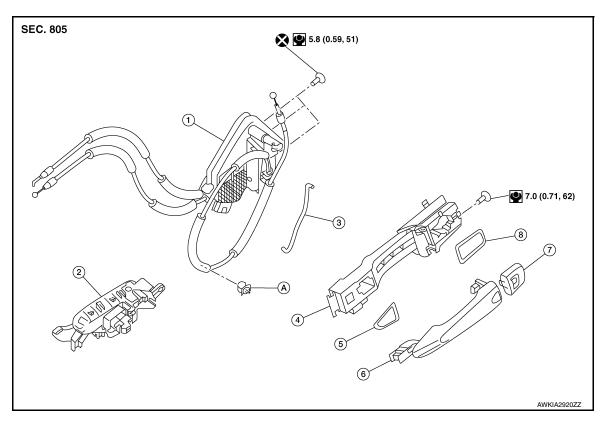
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Exploded View



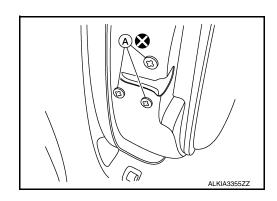
- 1. Front door lock
- 4. Outside handle bracket
- 7. Outside handle escutcheon / door key 8. cylinder (LH only)
- 2. Inside handle
- 5. Front gasket
 - . Rear gasket
- 3. Door key cylinder rod (LH only)
- 6. Outside handle
- A. Clip

DOOR LOCK

DOOR LOCK: Removal and Installation

REMOVAL

- 1. Remove front door finisher. Refer to INT-15, "Removal and Installation".
- 2. Remove vapor barrier.
- 3. Remove front door lock bolts (A).

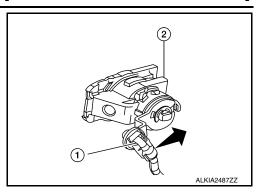


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< REMOVAL AND INSTALLATION >

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 Disconnect door key cylinder rod (LH only) (1) from front door lock (2) (LH only).



- Disconnect door lock cables from inside handle and outside handle...
- Disconnect the harness connector from the front door lock and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Do not reuse front door lock bolts.
- Tighten bolts to specification. Refer to <u>DLK-256, "Exploded View"</u>.
- After installation, check door lock cables are properly engaged to inside handle and outside handle bracket.
- When installing door key cylinder rod (LH only), be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check door open/close and lock/unlock operation.
- Check door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease.

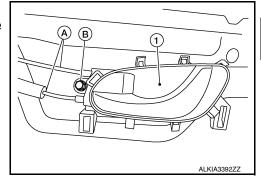
INSIDE HANDLE

INSIDE HANDLE: Removal and Installation

INFOID:0000000010247400

REMOVAL

- Remove front door finisher. Refer to INT-15, "Removal and Installation".
- 2. Remove inside handle bolt (B).
- Disconnect the door lock cables (A) and remove inside handle (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check door lock cables are properly engaged to inside handle.
- After installation, check door open/close and lock/unlock operation.

OUTSIDE HANDLE

OUTSIDE HANDLE: Removal and Installation

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REMOVAL

- 1. Fully close front door glass.
- Remove front door finisher. Refer to <u>INT-15, "Removal and Installation"</u>.

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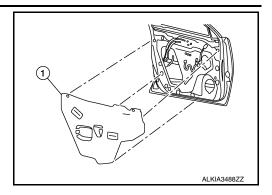
Revision: November 2013 DLK-257 2014 Rogue NAM

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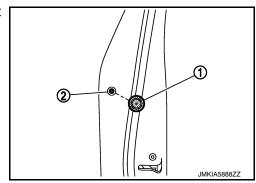
[WITH INTELLIGENT KEY SYSTEM]

Remove front door vapor barrier (1).NOTE:

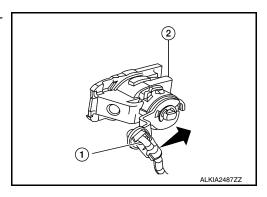
LH side shown; RH similar.



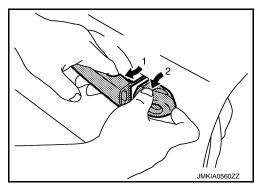
4. Remove door side grommet (1), and remove bolt from grommet hole (2).



5. Separate door key cylinder rod (LH only) (1) from door key cylinder assembly (LH only) (2).



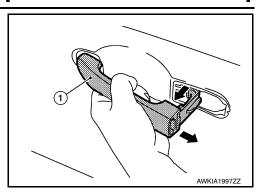
6. While pulling (1) outside handle, remove (2) door key cylinder assembly (LH side) or outside handle escutcheon (RH side).



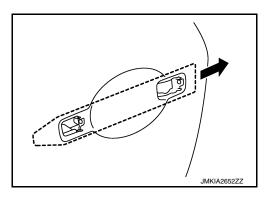
< REMOVAL AND INSTALLATION >

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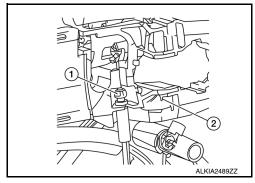
7. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



- 8. Remove front gasket and rear gasket.
- 9. Slide outside handle bracket toward rear of vehicle to remove.



10. Disconnect outside handle cable (1) from outside handle bracket (2) as shown.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When installing door key cylinder rod (LH only), be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check door lock cable is properly engaged to outside handle bracket.
- After installation, check door open/close and lock/unlock operation.

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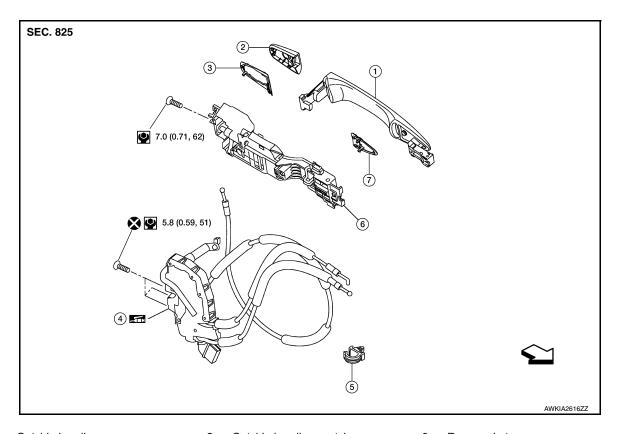
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REAR DOOR LOCK

Exploded View



- 1. Outside handle
- 4. Rear door lock
- 7. Front gasket

- 2. Outside handle escutcheon
- 5. Cable clip
- <⇒ Front

- 3. Rear gasket
- 6. Outside handle bracket

DOOR LOCK

DOOR LOCK: Removal and Installation

REMOVAL

- 1. Remove rear door finisher. Refer to INT-18, "Removal and Installation".
- 2. Remove vapor barrier.
- 3. Remove rear door lock bolts.
- 4. Disconnect the door lock cables.
- 5. Disconnect the harness connector from the rear door lock and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- · Do not reuse rear door lock bolts.
- Tighten bolts to specification. Refer to <u>DLK-260, "Exploded View"</u>.
- After installation, check door lock cables are properly engaged to inside handle and outside handle.
- After installation, check door open/close and lock/unlock operation.

INSIDE HANDLE

INSIDE HANDLE: Removal and Installation

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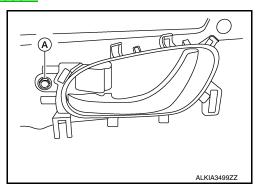
REMOVAL

REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Remove rear door finisher. Refer to <u>INT-18</u>, "Removal and Installation".
- 2. Remove inside handle bolt (A).



Disconnect door lock cables from inside handle and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check door lock cables are properly engaged to inside handle.
- After installation, check door open/close and lock/unlock operation.

OUTSIDE HANDLE

OUTSIDE HANDLE: Removal and Installation

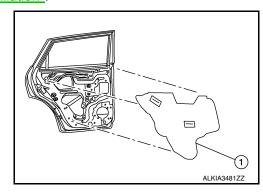
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REMOVAL

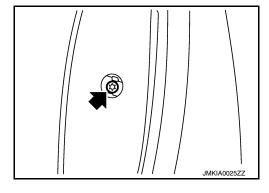
- 1. Fully close rear door glass.
- 2. Remove rear door finisher. Refer to INT-18, "Removal and Installation".
- 3. Remove rear door vapor barrier (1).

NOTE:

LH side shown; RH similar.



4. Remove door side grommet and bolt from grommet hole.



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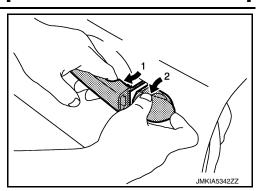
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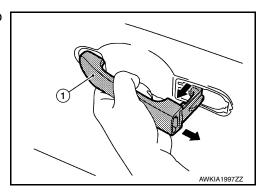
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[WITH INTELLIGENT KEY SYSTEM]

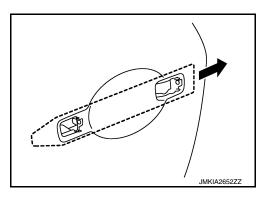
5. While pulling (1) outside handle, remove (2) outside handle escutcheon.



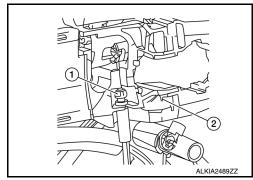
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



- 7. Remove front gasket and rear gasket.
- 8. Slide outside handle bracket toward rear of vehicle to remove.



9. Disconnect outside handle cable (1) from outside handle bracket (2) as shown.



INSTALLATION

Installation in the reverse order of removal.

CAUTION:

- After installation, check door lock cable is properly engaged to outside handle bracket.
- After installation, check door open/close and lock/unlock operation.

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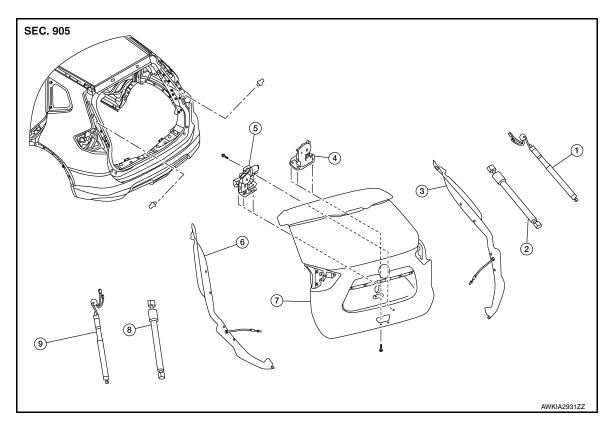
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BACK DOOR LOCK

Exploded View



- Spindle unit (RH) (with automatic back door)
- 4. Back door lock
- 7. Back door

- 2. Back door stay (RH)
- 5. Back door lock (with automatic back 6. door)
- 8. Back door stay (LH)
- Back door touch sensor (RH) (with automatic back door)
 - Back door touch sensor (LH) (with automatic back door)
- 9. Spindle unit (LH) (with automatic back door)

DOOR LOCK

DOOR LOCK: Removal and Installation

INFOID:0000000010247407

REMOVAL

- 1. Remove back door finisher. Refer to INT-38, "Removal and Installation".
- Disconnect the harness connector from the back door lock.
- 3. Remove bolts and back door lock.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specification. Refer to <u>DLK-263, "Exploded View"</u>.
- After installation, check back door open/close and lock/unlock operation.

SPINDLE UNIT

SPINDLE UNIT: Removal and Installation

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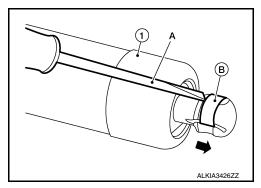
REMOVAL

Support back door using a suitable tool.

WARNING:

Bodily injury may occur if the back door is not supported properly when removing the back door spindle unit.

- Partially remove headlining (rear edge). Refer to <u>INT-29, "Exploded View"</u>.
- 3. Remove ball socket spring (B) from spindle unit (1) using a suitable tool (A).



4. Disconnect the harness connector from the spindle unit and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When reusing stud ball, always apply locking sealant before installing stud ball to back door.
- After installation, check back door open/close, lock/unlock operation.
- Perform calibration of automatic back door position information. Refer to <u>DLK-103</u>, "Work Procedure".

BACK DOOR STAY

BACK DOOR STAY: Removal and Installation

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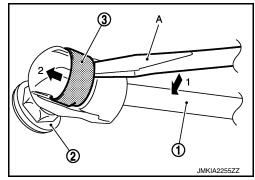
REMOVAL

1. Support the back door using a suitable tool.

WARNING:

Body injury may occur if no supporting rod is holding the back door open when removing the back door stay.

- 2. Releaase the metal clip (3) located on the connection between the back door stay (1) and the stud ball (2) (back door side) using a suitable tool (A).
- 3. Remove the back door stay (back door side).



4. Repeat procedure for removing back door stay from body side.

INSTALLATION

Installation is in the reverse order of removal.

CALITION:

After installation, check the back door open/close operation.

TOUCH SENSOR

TOUCH SENSOR: Removal and Installation

INFOID:0000000010247408

CAUTION:

Use care not to bend touch sensor.

BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REMOVAL

- 1. Release the spindle unit from the stud ball (with power back door).
- 2. Release the back door stay from the stud ball (without power back door).
- 3. Release touch sensor clips using a suitable tool.
- 4. Disconnect the harness connector from the touch sensor and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check back door open/close and lock/unlock operation.

EMERGENCY LEVER

EMERGENCY LEVER: Unlock procedures

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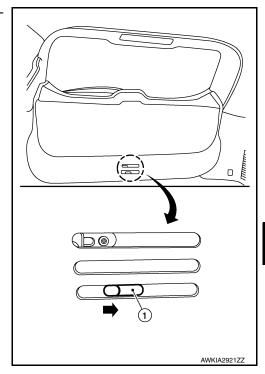
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UNLOCK PROCEDURES

NOTE:

If back door lock cannot be unlocked due to a malfunction or battery discharge, perform the following procedures to unlock back door assembly.

From inside the vehicle, rotate emergency lever (1) in the direction shown to unlock.



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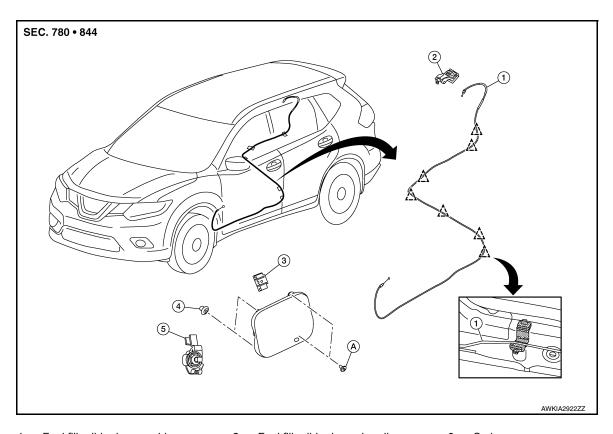
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FUEL FILLER LID OPENER

Exploded View



- 1. Fuel filler lid release cable
- 4. Bumper rubber

- 2. Fuel filler lid release handle
- 5. Fuel filler lid lock
- 3. Spring
- A. Screw

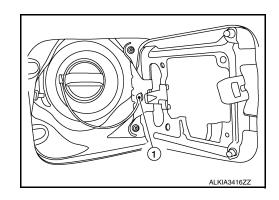
FUEL FILLER LID

FUEL FILLER LID: Removal and Installation

INFOID:0000000010247411

REMOVAL

1. Remove fuel cap pin (1).

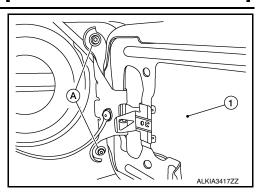


FUEL FILLER LID OPENER

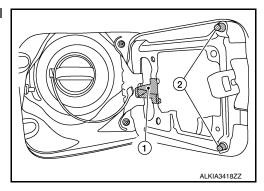
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

2. Remove screws(2) and fuel filler lid (1).



3. Remove fuel filler lid spring (1) and bumper rubber (2) from fuel filler lid (if necessary).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid open/close, lock/unlock operation.

FUEL FILLER LID LOCK

FUEL FILLER LID LOCK: Removal and Installation

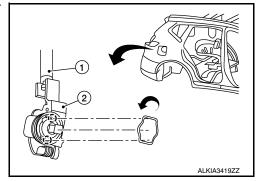
INFOID:0000000010282265

REMOVAL

Remove luggage side lower finisher (RH). Refer to <u>INT-34, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation - With Third Row Seat"</u> (With Third Row Seat) or <u>INT-35, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation - Without Third Row Seat"</u> (Without Third Row Seat).

2. Disconnect the fuel filler lid release cable (1) from the fuel filler lid lock (2).

Rotate fuel filler lid lock to release pawls and remove.
 Pawl



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid open/close, lock/unlock operation.

FUEL FILLER LID RELEASE CABLE

FUEL FILLER LID RELEASE CABLE: Removal and Installation

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REMOVAL

Revision: November 2013 DLK-267 2014 Rogue NAM

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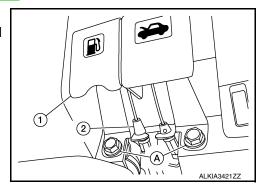
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FUEL FILLER LID OPENER

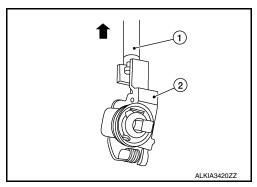
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Partially remove front floor trim. Refer to <u>INT-26, "Removal and Installation"</u>.
- 2. Remove rear floor trim. Refer to INT-26, "Removal and Installation".
- 3. Remove the fuel filler lid/hood lock release handle bolts (A)
- 4. Disconnect the fuel filler lid release cable (2) from fuel filler lid release handle (1).



Disconnect the fuel filler lid release cable (1) from fuel filler lid lock (2).



6. Release the clips and remove fuel filler lid release cable.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

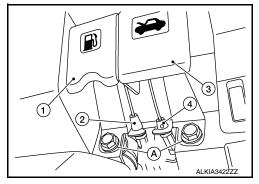
After installation, check fuel filler lid open/close, lock/unlock operation. FUEL FILLER LID RELEASE HANDLE

FUEL FILLER LID RELEASE HANDLE: Removal and Installation

INFOID:0000000010282267

REMOVAL

- 1. Remove fuel filler lid/hood lock release handle bolts (A).
- 2. Disconnect fuel filler lid release cable (2) from fuel filler lid release handle (1).
- 3. Disconnect hood lock release cable (4) from hood lock release handle (3).
- 4. Remove fuel filler lid release handle.



INSTALLATION

Installation is in the reverse order of removal.

DOOR SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

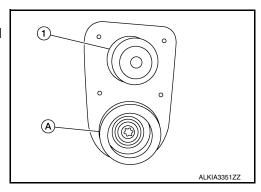
DOOR SWITCH

Removal and Installation

INFOID:0000000010247413

REMOVAL

- 1. Remove the door switch bolt (A).
- 2. Disconnect the harness connector from the door switch (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

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DOOR REQUEST SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE: Removal and Installation

INFOID:0000000010247414

The driver side door request switch and driver side outside handle are serviced as an assembly. Refer to <u>DLK-257</u>, "<u>OUTSIDE HANDLE</u>: <u>Removal and Installation</u>".

PASSENGER SIDE

PASSENGER SIDE: Removal and Installation

INFOID:0000000010247415

The passenger side door request switch and passenger side outside handle are serviced as an assembly. Refer to <u>DLK-257</u>, "<u>OUTSIDE HANDLE</u>: <u>Removal and Installation</u>".

BACK DOOR

BACK DOOR: Removal and Installation

INFOID:0000000010247416

REMOVAL

- 1. Remove back door finisher. Refer to INT-38, "Removal and Installation".
- Disconnect the harness connector from the back door request switch.
- Release pawls and remove back door request switch.

INSTALLATION

Installation is in the reverse order of removal.

INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER: Removal and Installation

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REMOVAL

- 1. Remove front air control or A/C switch assembly. Refer to <u>HAC-181, "Removal and Installation"</u> (MANUAL AIR CONDITIONING) or <u>HAC-102, "Removal and Installation"</u> (AUTOMATIC AIR CONDITIONING).
- 2. Disconnect the harness connector from the inside key antenna (instrument center).
- 3. Release pawls and remove inside key antenna (instrument center).

INSTALLATION

Installation is in the reverse order of removal.

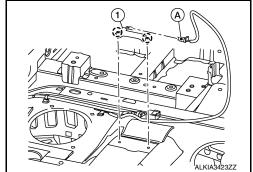
CONSOLE

CONSOLE: Removal and Installation

INFOID:0000000010247419

REMOVAL

- 1. Remove rear floor trim. Refer to INT-26, "Removal and Installation".
- 2. Disconnect the harness connector (A) from the inside key antenna (console) (1).
- Release pawls and remove inside key antenna (console).
 Pawl



INSTALLATION

Installation is in the reverse order of removal.

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OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE: Removal and Installation

INFOID:0000000010247420

The driver side outside key antenna and driver side outside handle are serviced as an assembly. Refer to <u>DLK-257</u>, "<u>OUTSIDE HANDLE</u>: <u>Removal and Installation</u>".

PASSENGER SIDE

PASSENGER SIDE: Removal and Installation

INFOID:0000000010247421

The passenger side outside key antenna and passenger side outside handle are serviced as an assembly. Refer to <u>DLK-257</u>, "<u>OUTSIDE HANDLE</u>: <u>Removal and Installation</u>".

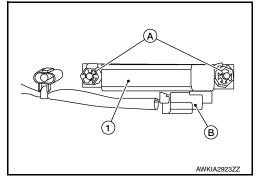
REAR BUMPER

REAR BUMPER: Removal and Installation

INFOID:0000000010247422

REMOVAL

- 1. Remove rear bumper fascia. Refer to EXT-20, "Removal and Installation".
- 2. Disconnect the harness connector (B) from the outside key antenna (rear bumper).
- 3. Release clips (A) and remove outside key antenna (1)



INSTALLATION

Installation is in the reverse order of removal.

INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY WARNING BUZZER

Removal and Installation

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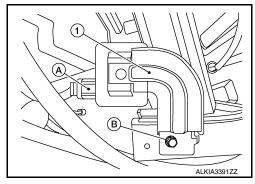
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REMOVAL

- Remove front combination lamp (RH). Refer to <u>EXL-119</u>, "Removal and Installation" (HALOGEN HEAD-LAMP) or <u>EXL-268</u>, "Removal and Installation" (LED HEADLAMP).
- 2. Disconnect the harness connector (A) from the Intelligent Key warning buzzer (1).
- 3. Remove bolt (B) and Intelligent Key warning buzzer.



INSTALLATION

Installation is in the reverse order of removal.

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BACK DOOR WARNING CHIME

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

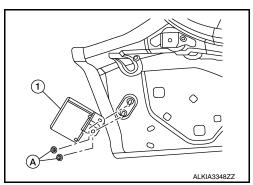
BACK DOOR WARNING CHIME

Removal and Installation

INFOID:0000000010247424

REMOVAL

- 1. Remove the rear bumper fascia. Refer to EXT-20, "Removal and Installation".
- 2. Disconnect the harness connector from the back door warning chime.
- 3. Remove nuts (A) and back door warning chime (1).



INSTALLATION

Installation is in the reverse order of removal.

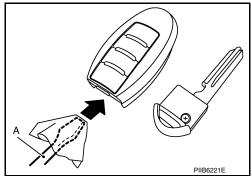
INTELLIGENT KEY BATTERY

Removal and Installation

1. Release the lock knob on the back of the Intelligent Key and remove the key.

Insert a suitable 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 insert a tool into the notches of the Intelligent Key to pry it open, as this may damage the circuit board.
- Do not use excessive force when opening the intelligent key, as this may result in damage to the internal components.
- 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.



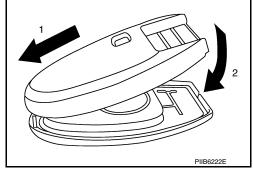
Replace the battery with a new one.

Battery replacement :Coin-type lithium battery (CR2025)

4. Align the tips of the upper and lower parts, and then push them together until unit is securely closed.

CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, check that all Intelligent Key functions work normally.



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Revision: November 2013 DLK-275 2014 Rogue NAM

AUTOMATIC BACK DOOR CONTROL MODULE

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

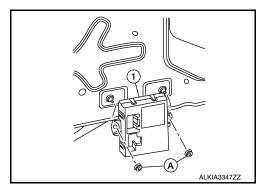
AUTOMATIC BACK DOOR CONTROL MODULE

Removal and Installation

INFOID:0000000010247427

REMOVAL

- 1. Remove the luggage side lower finisher (LH). Refer to INT-34, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation With Third Row Seat".
- 2. Disconnect the harness connectors from the automatic back door control module.
- 3. Remove nuts (A) and automatic back door control module (1).



INSTALLATION

Installation is in the reverse order of removal.

AUTOMATIC BACK DOOR MAIN SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR MAIN SWITCH

Removal and Installation

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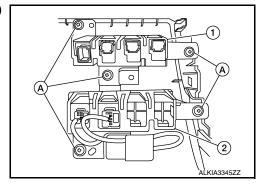
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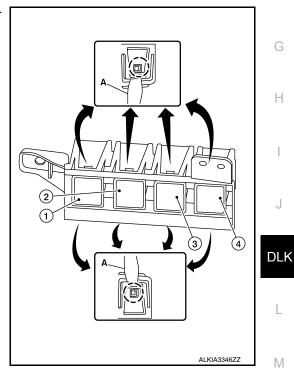
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REMOVAL

- 1. Remove the instrument lower panel LH. Refer to IP-22, "Removal and Installation".
- 2. Remove the screws (A) that retain the upper (1) and lower (2) switch carriers.



- 3. Release pawls using a suitable tool (A), then remove the automatic back door main switch (4) from the upper switch carrier.
 - (1): Traction control switch
 - (2): Sport mode switch
 - (3): Automatic back door switch
 - (4): Automatic back door main switch



INSTALLATION

Installation is in the reverse order of removal.

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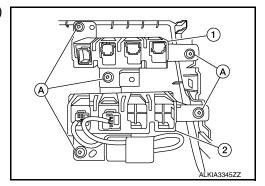
AUTOMATIC BACK DOOR SWITCH

Removal and Installation

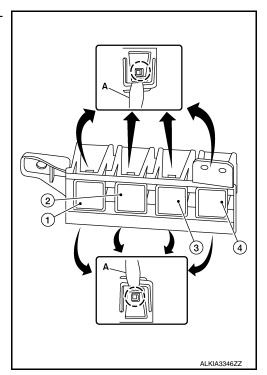
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REMOVAL

- 1. Remove the instrument lower panel LH. Refer to IP-22, "Removal and Installation".
- 2. Remove the screws (A) that retain the upper (1) and lower (2) switch carriers.



- 3. Release pawls using a suitable tool (A), then remove the automatic back door switch (3) from the upper switch carrier.
 - (1): Traction control switch
 - (2): Sport mode switch
 - (3): Automatic back door switch
 - (4): Automatic back door main switch



INSTALLATION

Installation is in the reverse order of removal.

AUTOMATIC BACK DOOR CLOSE SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR CLOSE SWITCH

Removal and Installation

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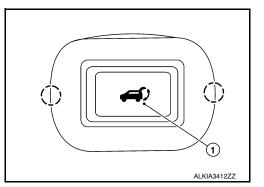
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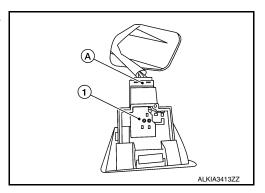
REMOVAL

1. Release the automatic back door close switch (1) pawls using a suitable tool.

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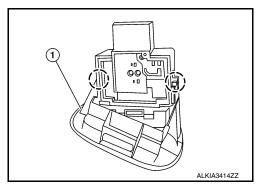


2. Disconnect the harness connector (A) from the automatic back door close switch (1) and remove.



3. Release pawls and remove automatic back door request switch finisher (1) (if necessary)

(_): Pawl



INSTALLATION

Installation is in the reverse order of removal.

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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. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
 injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
 Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT 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 three minutes before performing any service.

Precaution for Servicing Doors and Locks

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WARNING:

Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.
- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- · Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.
- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

< PREPARATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

PREPARATION

PREPARATION

Signal Tech II

Special Service Tool

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Tool number (TechMate No.) Tool name		Description
 (J-39570) Chassis Ear	SIIAO993E	Locating the noise
— J-50397) NISSAN Squeak and Rattle Kit	ALJIA1232ZZ	Repairing the cause of noise
J-43241) Remote Keyless Entry Tester	100 m	Used to test keyfobs
 J-50190)		Activate and display TPMS transmitter IDs

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· Display tire pressure reported by the TPMS transmitter

- · Read TPMS DTCs
- · Register TPMS transmitter IDs
- · Check Intelligent Key relative signal
- Confirm vehicle Intelligent Key antenna signal strength
- · Compatible with future sensors
- · Equipped with a display

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PREPARATION

< PREPARATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Tool number (TechMate No.) Tool name		Description
KV48105501 (J-45295-A) Transmitter Activation Tool	ALEIA0183ZZ	Activate TPMS transmitter IDs Compatible with future sensors Equipped with a display (KV48105501 only)
 (J-46534) Trim Tool Set	AWJIA0483ZZ	Removing trim components

Commercial Service Tool

INFOID:0000000010247902

(TechMate No.) Tool name		Description
(J-39565) Engine Ear	SIIA0995E	Locating the noise
(—) Power Tool		Loosening nuts, screws and bolts
	PIIB1407E	

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

SYSTEM DESCRIPTION

COMPONENT PARTS
POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : Component Parts Location

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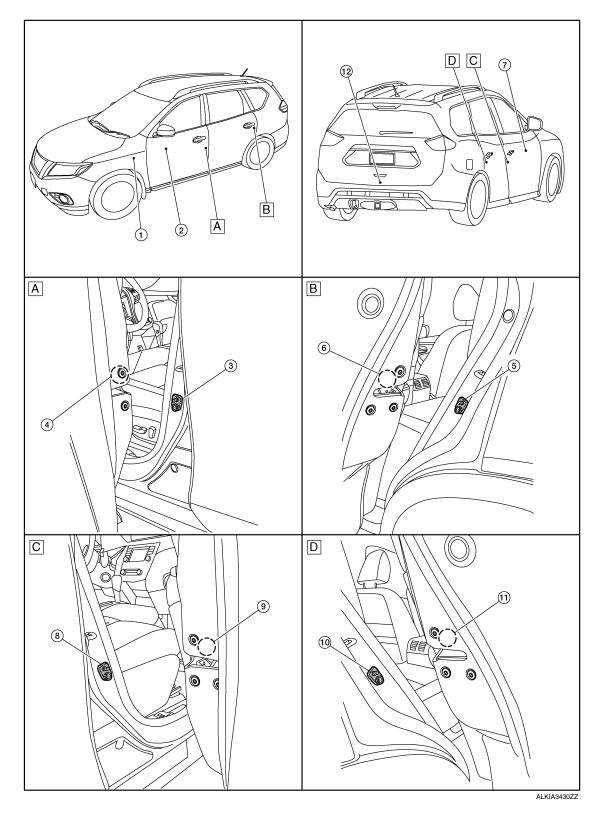
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No.	Component	Function			
1.	ВСМ	Controls the door lock system. Refer to BCS-79, "BODY CONTROL SYSTEM: Component Parts Location" for detailed installation location			
2.	Main power window and door lock/unlock switch	DLK-22, "Door Lock and Unlock Switch (Driver Side)"			

COMPONENT PARTS

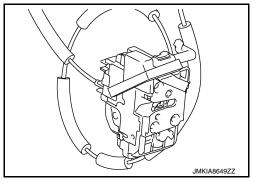
< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

No.	Component	Function				
3.	Front door switch LH	DLK-286, "Front Door Switch"				
4.	Front door lock assembly LH	DLK-25, "Front Door Lock Assembly (LH)"				
5.	Rear door switch LH	DLK-285, "Rear Door Switch"				
6.	Rear door lock actuator LH	Rear door lock actuator locks/unlocks the rear door latch assembly.				
7.	Front power window and door lock/unlock switch RH	DLK-22, "Door Lock and Unlock Switch (Passenger Side)"				
8.	Front door switch RH	DLK-286, "Front Door Switch"				
9.	Front door lock actuator RH	Rear door lock actuator locks/unlocks the rear door latch assembly.				
10.	Rear door switch RH	DLK-285, "Rear Door Switch"				
11.	Rear door lock actuator RH	Rear door lock actuator locks/unlocks the rear door latch assembly.				
12.	Back door lock assembly (door ajar switch)	DLK-21, "Back Door Lock Assembly"				

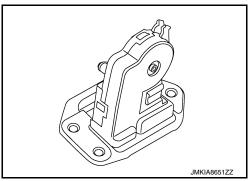
Front Door Lock Assembly (Driver Side)

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



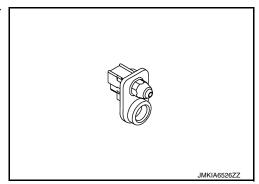
Back Door Lock Assembly

- Back door lock assembly lock assembly integrates door lock actuator and back door latch.
- Door lock actuator locks/unlocks the back door according to the door lock/unlock signal from BCM.



Rear Door Switch

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



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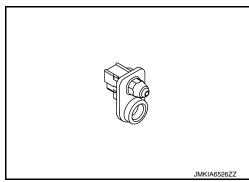
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Front Door Switch

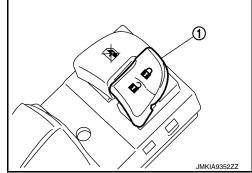
Door switch detects open/close status of door and transmits door switch signal to BCM.



INFOID:0000000010283316

Door Lock and Unlock Switch

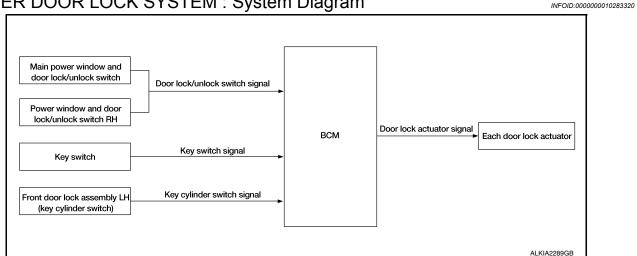
- Door lock and unlock switch transmits door lock/unlock signal operation to BCM.
- Door lock and unlock switch (1) is integrated in the power window main switch and front power window switch (passenger side).



SYSTEM

POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM: System Diagram



POWER DOOR LOCK SYSTEM: System Description

Switch	Input/output signal to BCM	BCM function	Actuator		
Main power window and door lock/unlock switch					
Power window and door lock/ unlock switch RH	Door lock/unlock signal	Door lock/unlock control	Door lock actuator		
Front door lock key cylinder switch LH					

DOOR LOCK FUNCTION

Functions Available by Operating the Door Lock and Unlock Switches on Driver Door and Passenger Door

- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all door lock actuators are locked.
- · Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all door lock actuators are unlocked.

Functions Available by Operating the Key Cylinder Switch on Driver Door

 Interlocked with the locking operation of door key cylinder, door lock actuators of all door lock actuators are locked.

Selective Unlock Operation

- When door key cylinder is unlocked, door lock actuator driver side is unlocked.
- When door key cylinder is unlocked for the second time within 5 seconds after the first operation, door lock actuators on all doors are unlocked.

Select unlock operation mode can be changed using DOOR LOCK-UNLOCK SET mode in "WORK SUP-PORT". Refer to BCS-87, "DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)".

REMOTE KEYLESS ENTRY SYSTEM

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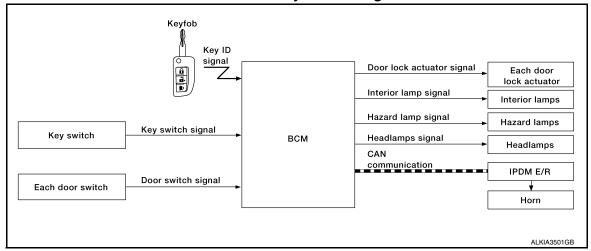
2014 Rogue NAM

Revision: November 2013

[WITHOUT INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY SYSTEM: System Diagram

INFOID:0000000010283322



REMOTE KEYLESS ENTRY SYSTEM: System Description

INFOID:0000000010283323

The remote keyless entry system can be locked and unlocked by pressing door lock and unlock button of keyfob.

DOOR LOCK AND UNLOCK OPERATION

- When door lock and unlock button of keyfob is pressed, door lock and unlock signal transmits from keyfob to BCM.
- When BCM receives the door lock and unlock signal, it operates door lock actuator, flashes the hazard lamp (lock: 2 times, unlock: 1 time) 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

Remote controller operation	Operation condition
Lock/unlock	Key switch is OFF. Mechanical key is removed from the ignition cylinder.

OPERATION AREA

To ensure that the keyfob works effectively, use within 10 m (33ft) range of the vehicle, however the operable range may differ according to surroundings.

SELECTIVE UNLOCK OPERATION

When door lock is unlocked, pressing LOCK button on keyfob once will lock all doors. When door lock is locked, pressing UNLOCK button on keyfob will unlock driver side door. Pressing UNLOCK button on keyfob second time within 5 seconds from the first time will unlock all doors.

HAZARD AND HORN REMINDER

When the doors are locked or unlocked by keyfob, power is supplied to sound horn and flash hazard warning lamps as a reminder

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

How to Change Hazard and Horn Reminder Modes

(II) With CONSULT

Hazard and horn reminders can be changed using "WORK SUPPORT" mode in "MULTI REMOTE ENT".

Hazard reminder setting	Mode 1		Mode 2		Mode 3		Mode 4	
Keyfob operation	Lock	Unlock	Lock	Unlock	Lock	Unlock	Lock	Unlock
Hazard warning lamp blink	_		_	Once	Twice	_	Twice	Once

Horn reminder setting	C	N	OFF		
Keyfob operation	Lock Unlock		Lock Unlock		
Horns sound	Once	_	_	_	

Hazard and horn reminders do not operate if any door switch is ON (any door is OPEN).

Hazard reminder can be changed using "HAZARD LAMP SET" mode in "WORK SUPPORT".

Horn reminder can be changed using "HORN CHIRP SET" mode in "WORK SUPPORT".

Refer to BCS-90, "MULTI REMOTE ENT: CONSULT Function (BCM - MULTI REMOTE ENT)".

® Without CONSULT

Refer to Owner's Manual for instructions.

AUTO DOOR LOCK OPERATION

When all doors are locked, ignition switch is OFF and key switch is OFF (mechanical key is removed from the ignition cylinder), doors are unlocked with keyfob button. When BCM does not receive the following signals within 1 minute, all doors are locked.

- Door switch is ON (door is opened)
- Door is locked
- · Ignition switch is ON
- Key switch is ON (mechanical key is inserted in the ignition cylinder)

Auto door lock mode can be changed by "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to <u>BCS-90, "MULTI REMOTE ENT: CONSULT Function (BCM - MULTI REMOTE ENT)"</u>.

PANIC ALARM OPERATION

When key switch is OFF (mechanical key is removed from the ignition cylinder), BCM turns ON and OFF horn and headlamp intermittently with input of PANIC ALARM signal from keyfob.

BCM outputs to headlamps and IPDM E/R for panic alarm signal (horn signal) via CAN communication lines.

The alarm automatically turns OFF after 25 seconds or when BCM receives any signal from keyfob.

Panic alarm operation mode can be changed using "PANIC ALARM SET" mode in "WORK SUPPORT".

Refer to BCS-90, "MULTI REMOTE ENT: CONSULT Function (BCM - MULTI REMOTE ENT)".

INTERIOR LAMP TIMER OPERATION

When the following conditions occur, remote keyless entry system turns on interior lamp for 15 seconds with input of UNLOCK signal from keyfob. For detailed description, refer to INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM: System Description".

- Interior room lamp switch is in the DOOR position
- Door switch OFF (when all the doors are closed).

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DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM: CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000010346333

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
Ecu Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	 The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM.
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

				Direct [Diagnosti	c Mode		
System	Sub System	Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK			×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Remote keyless entry system	MULTI REMOTE ENT					×		
Exterior lamp	HEADLAMP			×	×			
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×		×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Back door open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

DOOR LOCK

DOOR LOCK: CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000010346334

SELF DIAGNOSTIC RESULT

DIAGNOSIS SYSTEM (BCM)

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION > Refer to BCS-108, "DTC Index".

DATA MONITOR

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Monitor Item [Unit]	Description	
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.	C
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	
DOOR SW-BK [On/Off]	Indicates condition of back door switch.	
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.	L
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.	
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.	E
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.	

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [ALL LOCK/ALL UNLK].

WORK SUPPORT

Setting	Description	Н
On*	Automatic door locks function ON.	
Off	Automatic door locks function OFF.	_
MODE2	Driver door only unlocks automatically.	_
MODE1*	All doors unlock automatically.	
MODE3	This mode is not used.	J
MODE2	Doors lock automatically when shifted out of P (park).	_
MODE1*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).	
Off	_	DLK
MODE3	This mode is not used.	
MODE2	Doors unlock automatically when shifted into P (park).	
MODE1*	Doors unlock automatically when ignition is switched from ON to OFF.	
Off	_	_
	On* Off MODE2 MODE1* MODE3 MODE1* Off MODE3 MODE1* MODE3 MODE3 MODE3 MODE2 MODE1*	On* Automatic door locks function ON. Off Automatic door locks function OFF. MODE2 Driver door only unlocks automatically. MODE1* All doors unlock automatically. MODE3 This mode is not used. MODE2 Doors lock automatically when shifted out of P (park). MODE1* Doors lock automatically when vehicle speed reaches 24 km/h (15 mph). Off — MODE3 This mode is not used. MODE3 This mode is not used. MODE2 Doors unlock automatically when shifted into P (park). MODE1* Doors unlock automatically when ignition is switched from ON to OFF.

^{* :} Initial setting

MULTI REMOTE ENT

MULTI REMOTE ENT : CONSULT Function (BCM - MULTI REMOTE ENT)

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WORK SUPPORT

Support Item	Setting	Description	
REMO CONT ID CONFIR	_	Keyfob ID code registration is displayed.	Р

BCM, IPDM E/R

[WITHOUT INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION

BCM, IPDM E/R

List of ECU Reference

INFOID:0000000010283327

ECU	Reference
BCM	BCS-96, "Reference Value"
	BCS-110, "Wiring Diagram"
	BCS-107, "Fail Safe"
	BCS-107, "DTC Inspection Priority Chart"
	BCS-108, "DTC Index"
	PCS-12, "Reference Value"
IPDM E/R	PCS-24, "Wiring Diagram"
IF DIVI L/IX	PCS-19, "Fail-safe"
	PCS-20, "DTC Index"

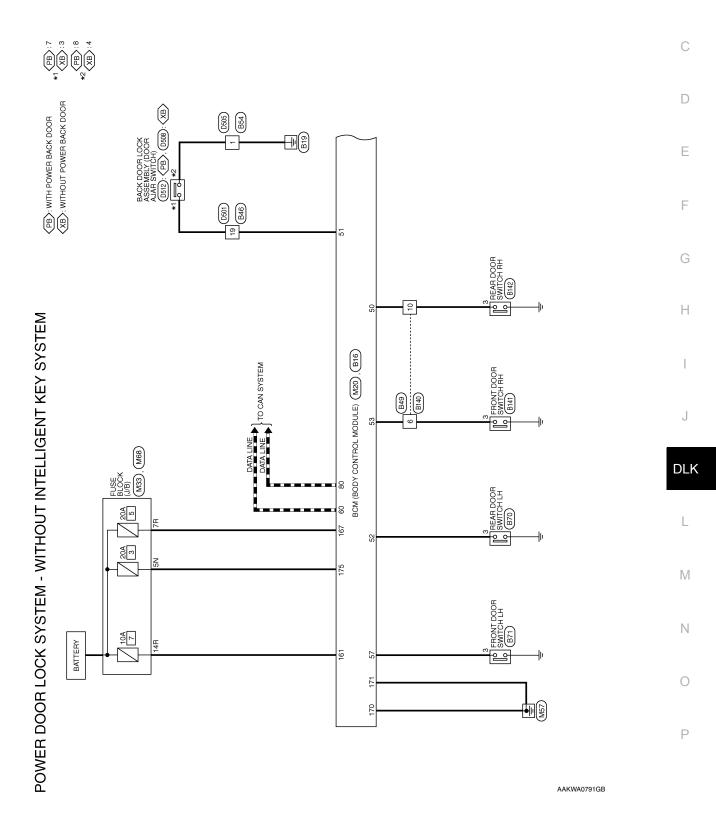
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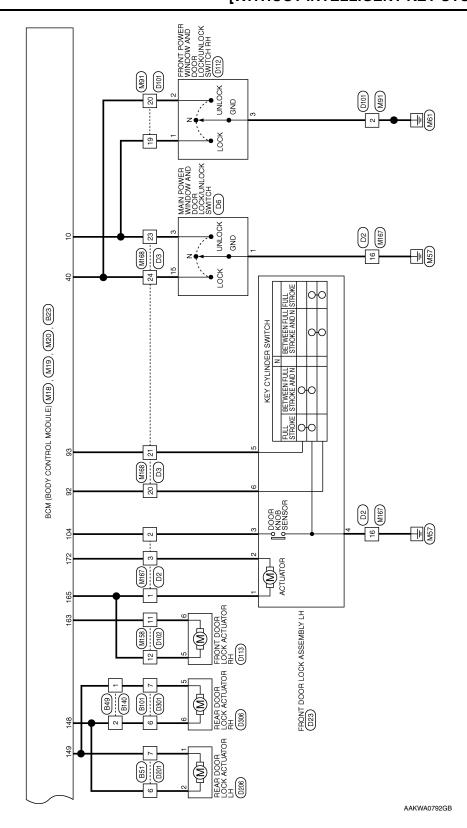
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WIRING DIAGRAM

POWER DOOR LOCK SYSTEM

Wiring Diagram





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POWER DOOR LOCK SYSTEM - WITHOUT INTELLIGENT KEY CONNECTORS

M19	Connector Name BCM (BODY CONTROL MODULE)	BLACK
Connector No.	Connector Name	Connector Color BLACK

Connector Name BCM (BODY CONTROL MODULE)

M18

Connector No.

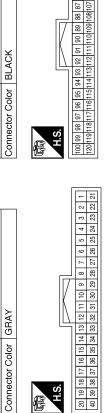
Connector No.	M19
Connector Name	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	BLACK

Connector Name | BCM (BODY CONTROL | MODULE)

M20

Connector No.

Connector Color BROWN



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	6	40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22				_
	4	24			>	SV
	ß	52		ЭC	S	×
	9	56		Signal Name	충	8
	_	27		Z	0	j
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-117		62		Sig	00	P
	10	30			I DOORLOCK SW	I DOORUNLOCK SW
	Ξ.	31				
	20 19 18 17 16 15 14 13 12 11 10 9	32		4_		
	13	33		e Ç	(D	m
	14	34		Terminal No. Color of Wire	BG	SB
H.S.	15	33				
	9	98				
	17	37				
	8	88		ina	10	40
	9	89		E		
7	8	8		Те		

Signal Name	I KEY CYLINDER LOCK SW	I KEY CYLINDER UNLOCK SW	I DR KNOB SW
Color of Wire	BR	Ь	В
erminal No. Color of Wire	92	93	104

Signal Name	I KEY CYLINDER LOCK SW	I KEY CYLINDER UNLOCK SW	I DR KNOB SW	
Color of Wire	BR	۵	ш	
Terminal No.	92	93	104	

91	Connector Name WIRE TO WIRE	нте	2 3 4 5 6 7 8 9 10 11 12 14 15 16 17 18 19 20 21 22 23 24	of Signal Name
M91	me W	lor W	1 2 3 14 15 3	Color of Wire
Connector No.	Connector Na	Connector Color WHITE	H.S.	Terminal No.

r No.	M68
r Name	r Name FUSE BLOCK (J/B)
r Color	BROWN
1671	7R 6R 5R 4R (

Connector Name FUSE BLOCK (J/B)

Connector No.

Connector Color WHITE

M68	FUSE BLOCK (J/B)	BROWN	78 [68] 58] 48] (23] 28] 18] 18] 18] 18] 18] 18] 18] 18] 18] 1
Connector No.	Connector Name	Connector Color	所 H.S.

3N 2N 1N 8N 5N 4N

Terminal No. Color of Signal Na Wire	7R LA/V	14R W	
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of Sign		
Color of Wire	LA/V	Μ
Terminal No.	7R	14R

Signal Name	ı	
Color of Wire	н	
Terminal No.	NS	

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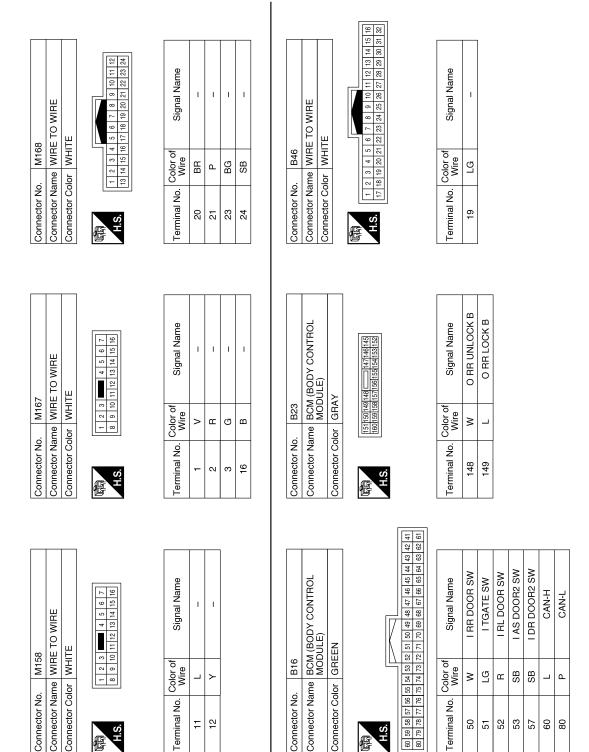
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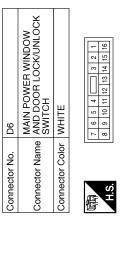
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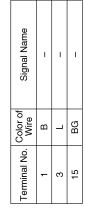
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WHRE TO WIRE WHITE	Color of Signal Name Wire B -	MIRE TO WIRE WHITE 1 2 3	Color of Signal Name Wire LA/GR -
Connector Color	Terminal No. Co	Connector No. Connector Name Connector Color	Terminal No. Col
HE TO WIRE HITE 2 3	Signal Name	FRONT DOOR SWITCH LH WHITE	Signal Name
Connector Name WIRE TO WIRE Connector Color WHITE	Terminal No. Color of Wire 6 W	Connector No. B71 Connector Color WHITE	Terminal No. Color of Wire 3 SB
O WIRE	Signal Name	B70 REAR DOOR SWITCH LH WHITE	Signal Name
Connector Name WIRE TO WIRE Connector Color WHITE 2 3 4 5	Color of Wire Wire 2 G G SB 10 W	Connector No. B70 Connector Color WHITE	Terminal No. Color of Wire 3 R

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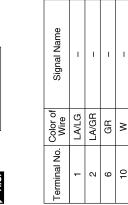


Connector Name FRONT DOOR SWITCH F	r WHITE	2 2 3 4	Color of Signal Name
Connector Nam	Connector Color WHITE	是 H.S.	Terminal No.

	I	ı		ı						ı	ı
Connector No.		D3									
Connector Name WIRE TO WIRE	ame	WIB	Ē	0	∣₹	置					
Connector Color WHITE	olor	MH	ITE								
H.S.	12 11 10 9 8 7 6 5 4 3 2 1 24 23 22 21 20 19 18 17 16 15 14 13	22 9 6 72	\ 8 8	10 10	9 8	7 2 4	4 9	3 3	2 4	- 5	

Signal Name	ı	_	1	_
Color of Wire	BR	Ь	_	BG
Terminal No.	20	21	23	24

Connector No.	B140	
Connector Name WIRE TO WIRE	WIRE TO WIRE	
Connector Color WHITE	WHITE	
恒	5 4 3 2 1	
S II	12 11 10 9 8 7 6	
2		



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Connector No. D2 Connector Name WIRE TO WIRE Connector Color WHITE T 6 5 4 1 3 2 1 T 6 15 14 13 12 11 10 9 8		
Connector Name WIRE TO WIRE Connector Color WHITE	Connector No.	D2
Connector Color WHITE	Connector Name	WIRE TO WIRE
	Connector Color	WHITE
		2
	H.S.	3 15 14 13 12 11 10 9 8

	Signal Name	ı	-	ı	ı
	Color of Wire	LA/V	н	LA/G	В
Ī	Terminal No. Wire	-	2	က	16

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POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

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E TO WIRE	7 6 5 4	Signal Name	ı	ı					
me WIRE	7 6 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Color of Wire	LA/L	LAV					
Connector No. D102 Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	Terminal No. Color of Wire	11	12					
]			
TO WIRE	20 19 18 17 16 15 14 13	Signal Name	ı	ı	ı				
me WIRE or WHIT	24 23 22 21 20 19 18	Color of Wire	В	re	BR				
Connector Name WIRE TO WIRE Connector Color WHITE	H.S.	Terminal No. Wire	2	19	20				
						I	I		
Connector No. D23 Connector Name FRONT DOOR LOCK ASSEMBLY LH Connector Color GRAY	\$\times \cong \cong\cong \cong	Signal Name	ı	1	ı	ı	ı	1	
ne FRON ASSE or GRAY	1 2	Color of Wire	LA/V	LA/G	œ	В	۵	BB	
Connector No. D23 Connector Name FRON ASSEN Connector Color GRAY	S.H	Terminal No. Color of Wire	1	2	က	4	5	9	

11	RE TO WIRE	ITE		5 4	Signal Name	-	1
. D201	me WIF	lor WH		12 11	Color of Wire	LAV	LA/G
Connector No.	Connector Name WIRE TO WIRE	Connector Color WHITE		际 H.S.	Terminal No. Wire	9	7
3	ame FRONT DOOR LOCK	ACTUATOR RH	١٨	3 4 5 6	Signal Name	-	ı
D113	ume FRC	AC	olor GRAY	1 2	Color of Wire	LA/V	I WI

D113	FRONT DC ACTUATO	GRAY	1 2 3 4	Color of Wire	LA/V	LA/L	
	me I	흐		လ	Ή	7	
Connector No.	Connector Name	Connector Color	原面 H.S.	Terminal No.	5	9	

Connector Na	ime FRC SWI	Connector Name FRONT DOOR WINDOW SWITCH RH
Connector Color WHITE	olor WHI	ТЕ
H.S.	1 9 7 2	7 8 9 10 11 12
Terminal No.	Color of Wire	Signal Name
1	ГG	1
2	ВВ	
3	В	ı

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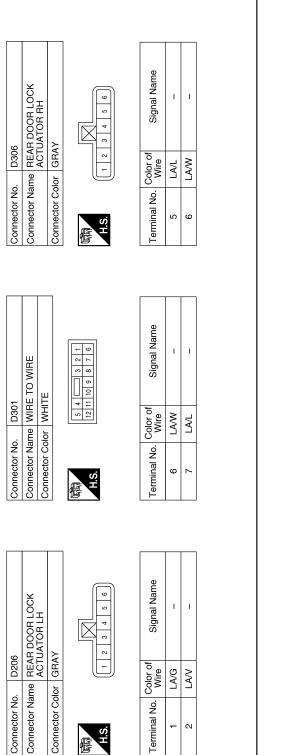
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Connector No.



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Connector No. D505 Connector Name WIRE TO WIRE Connector Name WIRE TO WIRE Connector Name Con											
Connector No. D505	8	K DOOR LOCK	SEMBLY (WITHOU)	STEM)	11			3 2 1		ı	1
Connector No. D505	. D5C	BAC	me ASS	SYS	lor WH			4	Color of Wire	≥	GR
Connector No. D505	Connector No.		Connector Na		Connector Col			V	Terminal No.	က	4
TE TO WIRE States and the state of the state	nnector No. D505	nnector Name WIRE TO WIRE	nnector Color WHITE								
						16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17		Signal Name		

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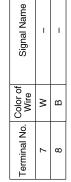
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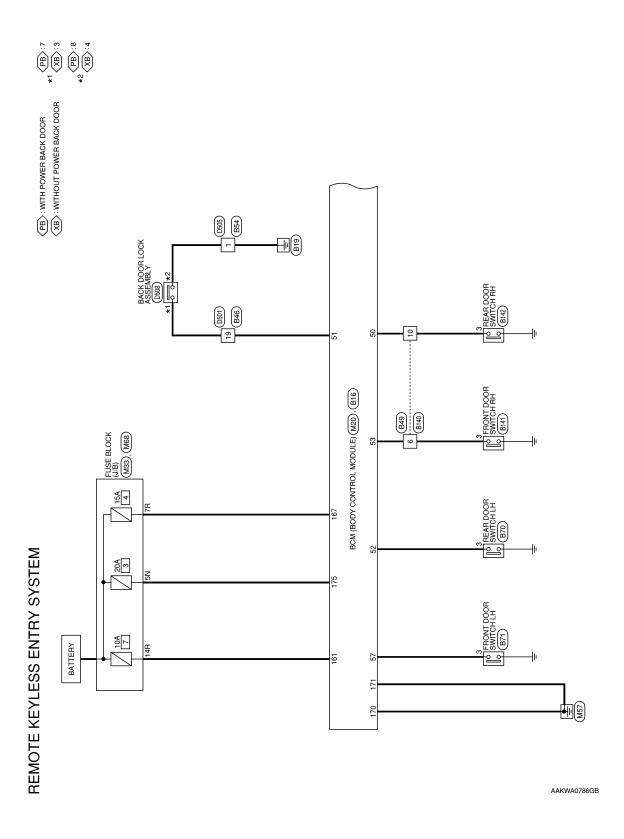
D512	BACK DOOR LOCK ASSEMBLY (WITH POWER BACK DOOR SYSTEM)	WHITE	
Connector No.	Connector Name	Connector Color WHITE	

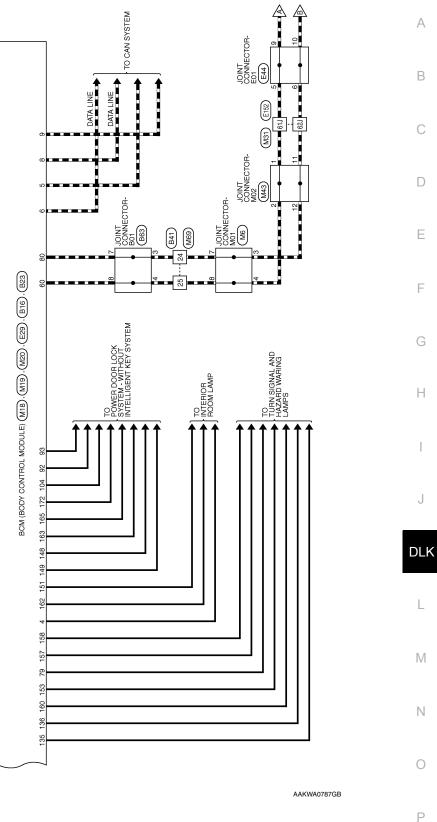




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Wiring Diagram





HORN (LOW) (E48) HORN E47 SMART FET CPU B IGNITION BATTERY DATA LINE

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[WITHOUT INTELLIGENT KEY SYSTEM]

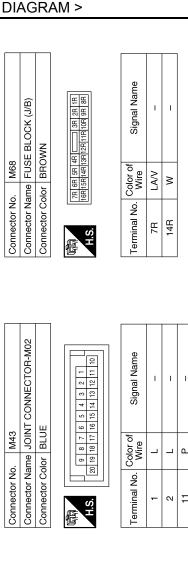
< WIRING DIAGRAM >

Connector No. M19 Connector Name BCM (BODY CONTROL MODULE)	BLACK		100 99 95 97 96 95 94 93 92 91 90 89 87 86 85 84 83 82 81 120 130	Color of Signal Name	BR I KEY CYLINDER LOCK SW	P I KEY CYLINDER UNLOCK SW	R I DR KNOB SW	Color of Signal Name Wire	-											
Connector No.	Connector Color	原 H.S.	100 99 98 97 96 95 120 119 118 117 116 115	Terminal No.	6	63	104	Terminal No.	61)											
			3 2 1									<u></u>	£	1	13		<u> </u>			
M18 BCM (BODY CONTROL MODULE)	, ,		9 8 7 6 5 4 29 28 27 26 25 24	Signal Name	O SPARE4 RL N	CAN-H	CAN-H	L	I I O WIRE		5J 4J 3J 2J 1J	21.) 20.) 19.) 18.) 17.) 16.) 15.) 14.) 13.) 12.) 11.) 30.) 29.) 28.) 27.) 28.) 25.) 24.) 29.) 22.)	41) 400 390 380 370 380 350 340 330 310	500 490 480 470 460 450 440 430 420	581 573 563 553 543 533 523 5	700 693 683 673 663 653 643 633 623	81.] 80.] 79.] 78.] 78.] 78.] 78.] 78.] 78.] 77.]	90.] 89.] 88.] 87.] 86.] 85.] 84.] 83.] 82.]	95J 94J 93J 92J 91J 10M 99J 98J 97J 96J	
Je J			20 19 18 17 16 15 14 13 12 11 10 40 39 38 37 36 35 34 33 32 31 30	No. Color of Wire	م ۵		_ R	r No. M31	Connector Name WINE TO WINE Connector Color WHITE		57 =	21,20,19,	41J 40J 39.	500 49.	61 60 59	700 69	81, 80, 79,	907 89°	@ 	
Connector No.	Connector Color	原 H.S.	20 19 18 1	Terminal No.	4 4	ာ ဖြ	∞ σ	Connector No.	Connector Name		是 H.S.									
DR-M01				ame					70L			ame	ECU	MLAMP 1	A LOCK	aLock1		JNLOCK D	ALOCK2	
Connector Name JOINT CONNECTOR-M01	(AY	3 2 1 7 6 5 1 10 9	15 14 13 19 18 17 33 22 21	f Signal Name	1	1 1	ı	0	Connector Name BCM (BCD? CONTROL MODULE)	BROWN	[67] 168] 168] 169] 162] 161] [176] 176] 174] 173] 172] 171] 170] 169] 168]	f Signal Name	I PWR ECU	O PWM ROOMLAMP 1	O DR OR FR I	I PWR DOORL	GND2	O FR OR DR UNLOCK D	I PWR DOORLOCK2	
No. M6 Name JOI	Color GHAY	4 8 2	20 19 18 1	Vo. Color of Wire	۵ _	- L	_	No. M20	Name BC		167 <u>166 165</u> 176175 174	Jo. Color of Wire	*	SB	>	A G	<u> </u>	ō	<u>«</u>	
Connector No.	Connector Color	H.S.		Terminal No.	ε -	t -	∞	Connector No.	onnector	Connector Color	是 H.S.	Terminal No.	161	162	165	167	12	172	175	

Revision: November 2013 DLK-305 2014 Rogue NAM

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

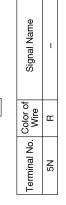


Connector No. E44 Connector Name JOINT CONNECTOR-E01 Connector Color WHITE	3 2 1 1	Signal Name	ı	ı	ı	ı
E44 JOINT (Inc. WHITE		Color of Wire	_	۵	_	۵
Connector No. Connector Name Connector Color	H.S.	Terminal No.	5	9	6	10

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me JOII	lor BLUE	9 8 7	2	Color of Wire	_	٦	۵	۵	
Connector Na	Connector Color	(A)		Terminal No.	-	2	11	12	

Connector No.	o. E29	
Connector Na	ame BCN MOI	Connector Name BCM (BODY CONTROL MODULE)
Connector Color BLACK	olor BLA	CK
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Terminal No.	Color of Wire	Signal Name
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Connector No. M33	Connector Name FUSE BLOCK (J/B)	Connector Color WHITE	3N
	OCK (J/B)		2N 1N 5N 4N



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Signal Name	ı	1
Color of Wire	Ь	٦
Terminal No.	24	25

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[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

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	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) GRAY 8 7 6 6 6 4 3 17 16 15 14 13 12 11 10	Signal Name LO HORN RLY SIGNAL GROUND		В
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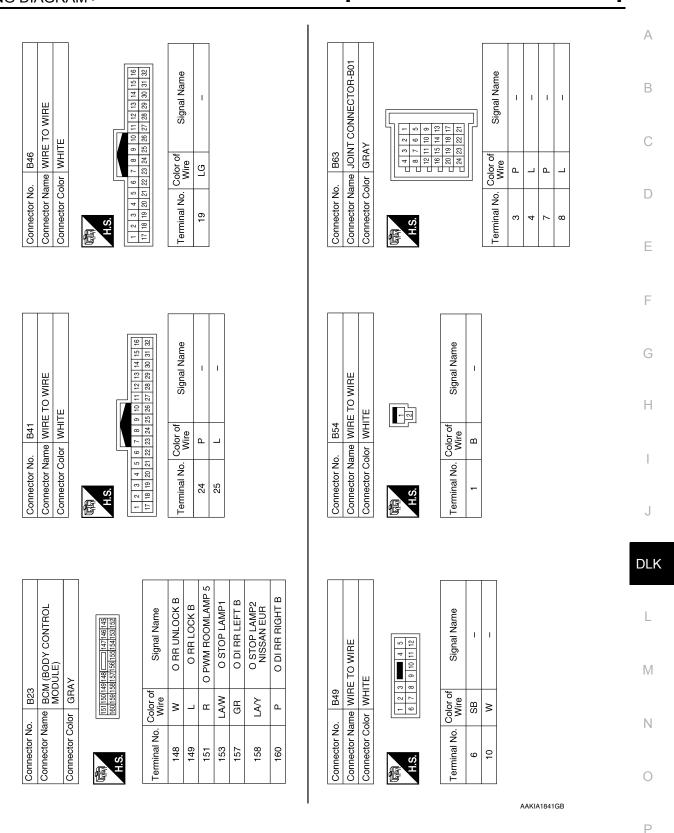
Revision: November 2013 DLK-307 2014 Rogue NAM

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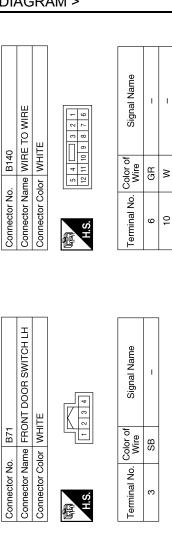
< WIRING DIAGRAM >



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< WIRING DIAGRAM >



Connector Name | REAR DOOR SWITCH LH

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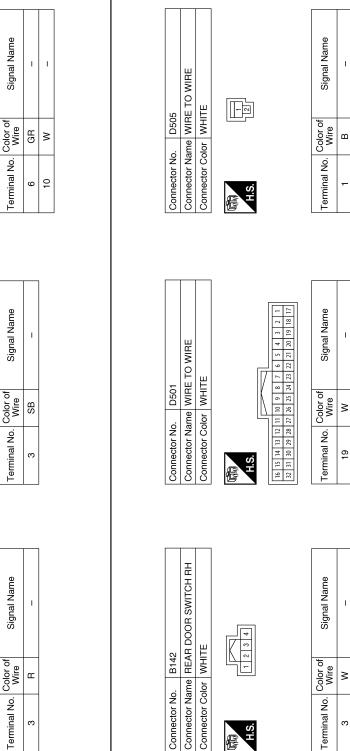
Connector No.

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Terminal No.

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	HORN RELAY				Signal Name	ı	ı	ı	
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Connector No.		D512
Connector Name		BACK DOOR LOCK ASSEMBLY (WITH POWER BACK DOOR SYSTEM)
Connector Color		WHITE
崎南 H.S.	- 4	5 6 7 8
Terminal No. Wire	Color o Wire	of Signal Name
7	8	ı
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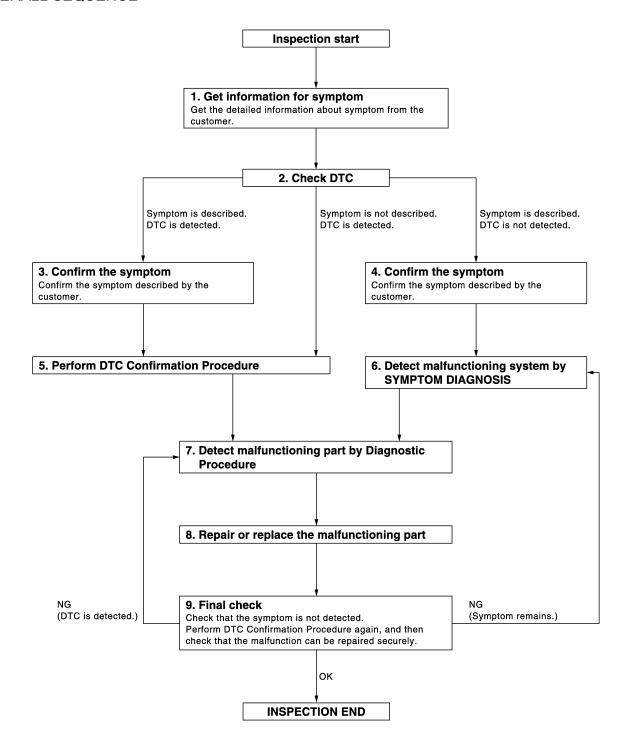
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.check dtc

- 1. Check DTC.
- 2. Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with 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.

Is any symptom described and any DTC detected?

Symptom is described, DTC is displayed>>GO TO 3.

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

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

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

f 4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.

Connect CONSULT to the vehicle in "DATA MONITOR" mode and check real time diagnosis results.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC Confirmation Procedure for the displayed DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check diagnostic results in real time. If two or more DTCs are detected, refer to BCS-107, "DTC Inspection Priority Chart" and determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

Yes >> GO TO 7.

No >> Refer to GI-41, "Intermittent Incident".

6. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

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

>> GO TO 7.

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

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DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

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

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check voltage of related BCM terminals using CONSULT.

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction have been repaired securely.

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

Is the inspection result normal?

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

NO (Symptom remains)>>GO TO 6.

YES >> Inspection End.

INSPECTION AND ADJUSTMENT

[WITHOUT INTELLIGENT KEY SYSTEM] < BASIC INSPECTION > INSPECTION AND ADJUSTMENT Α ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description В Perform the system initialization when replacing BCM, replacing keyfob or registering an additional keyfob. ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement INFOID:0000000010283332 Refer to the CONSULT Immobilizer mode and follow the on-screen instructions. D Е F Н

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U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000010346336

Refer to LAN-8, "System Description".

DTC Logic

DTC DETECTION LOGIC

NOTE

U1000 can be set if a module harness was disconnected and reconnected, perhaps during a repair. Confirm that there are actual CAN diagnostic symptoms and a present DTC by performing the Self Diagnostic Result procedure.

CONSULT Display	DTC Detection Condition	Possible cause
CAN COMM CIRCUIT [U1000]	When any listed module cannot communicate with CAN communication signal continuously for 2 seconds or more with ignition switch ON.	In CAN communication system, any item (or items) of the following listed below is malfunctioning. Transmission Receiving (ECM) Receiving (VDC/TCS/ABS) Receiving (METER/M&A) Receiving (TCM) Receiving (IPDM E/R)

Diagnosis Procedure

INFOID:0000000010346338

1. PERFORM SELF DIAGNOSTIC

- 1. Turn ignition switch ON and wait for 2 second or more.
- 2. Check "SELF- DIAG RESULTS".

Is "CAN COMM CIRCUIT" displayed?

YES >> Perform CAN Diagnosis as described in DIAGNOSIS section of CONSULT Operation Manual.

NO >> Refer to GI-41, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1010]	BCM detected internal CAN communication circuit mal- function.	BCM

Diagnosis Procedure

INFOID:0000000010346340

1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to BCS-135, "Removal and Installation".

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM: Diagnosis Procedure

INFOID:0000000010346341

Regarding Wiring Diagram information, refer to BCS-110, "Wiring Diagram".

1. CHECK FUSE

Check that the following fuse is not blown.

Terminal No.	Signal name	Fuse No.
161	BCM power supply	7 (10A)

Is the fuse blown?

YES >> Replace the blown fuse after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

- Disconnect BCM connector M20.
- Check voltage between BCM connector M20 and ground.

ВСМ		Ground	Voltage (Approx.)	
Connector	Connector Terminal			
M20	161	_	Battery voltage	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

$3.\,$ CHECK GROUND CIRCUIT

Check continuity between BCM connector M20 and ground.

BCM		Ground	Continuity	
Connector	Terminal	Ground	Continuity	
M20	170		Voc	
W≥U	171	_	Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

DOOR SWITCH

Description

Detects door open/close condition.

Component Function Check

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-DR	Driver side door	Closed	Off
D00D0W 40	Passenger side door	Open	On
DOOR SW-AS		Closed	Off
DOOR SW-RL	Rear door LH	Open	On
DOOR SW-RL	Real door LH	Closed	Off
DOOR SW-RR	Rear door RH	Open	On
		Closed	Off

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to <u>DLK-319</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-293, "Wiring Diagram".

1. CHECK DOOR SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect malfunctioning door switch connector.
- Check signal between malfunctioning door switch harness connector and ground using oscilloscope.

(+) Door switch			Signal	
		(-)	(Reference value)	
Conne	ector	Terminal		(
Front LH	B71			
Front RH	B141		(V) 15	
Rear LH	B70		10 5	
Rear RH	B142	3	Ground	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector.

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DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

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

	Door switch Connector Terminal C		В	Continuity	
Coni			Connector	Terminal	Continuity
Front LH	B71			57	
Front RH	B141	3	B16	53	Yes
Rear LH	B70		БІО	52	res
Rear RH	B142			50	

3. Check continuity between door switch harness connector and ground.

Door switch				Continuity	
Connector T		Terminal		Continuity	
Front LH	B71		Ground		
Front RH	B141	3	Ground	No	
Rear LH	B70	3		140	
Rear RH	B142				

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-135, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK DOOR SWITCH

Refer to DLK-150, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch. Refer to DLK-385, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000010283341

1. CHECK DOOR SWITCH

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

Terminal		Door switch condition	Continuity	
Door switch		Door Switch Condition		
3	Ground part of door switch	Pressed	No	
		Released	Yes	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch. Refer to <u>DLK-385, "Removal and Installation"</u>.

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE: Description

INFOID:0000000010283342

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Transmits door lock/unlock operation to BCM.

DRIVER SIDE: Component Function Check

INFOID:0000000010283343

1. CHECK FUNCTION

(P)With CONSULT

Check "CDL LOCK SW", "CDL UNLOCK SW" in Data Monitor mode with CONSULT.

Monitor item	Condition		
CDL LOCK SW	LOCK	: ON	
CDL LOCK SW	UNLOCK	: OFF	
CDL UNLOCK SW	LOCK	: OFF	
ODE DIVEOUR SVV	UNLOCK	: ON	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

>> Refer to DLK-321, "DRIVER SIDE: Diagnosis Procedure". NO

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000010283344

Regarding Wiring Diagram information, refer to DLK-293, "Wiring Diagram".

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

Turn ignition switch ON.

Check voltage at the main power window and door lock/unlock switch connector when the switch (driver side) is turned to "LOCK" or "UNLOCK".

Connector	Main power window and door lock/unlock switch state	Terminal		Voltage	
D6	Neutral → Unlock	15	Ground	Battery voltage → 0	
БО	Neutral → Lock	3	Ground	Battery voltage → 0	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 2.

2.check power window switch ground

Turn ignition switch OFF.

Disconnect main power window and door lock/unlock switch connector. 2.

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

Main power window and door lock/unlock switch connector	Terminal		Continuity
D6	1	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK POWER WINDOW SWITCH

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< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Check continuity between main power window and door lock/unlock switch terminals.

Main power window and door lock/unlock switch state	Terminals	Continuity
Unlock	1 - 3	Yes
Lock	1 - 15	165
Neutral/Unlock	No	
Neutral/Lock	1 - 3	NO

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace main power window and door lock/unlock switch. Refer to PWC-64, "Removal and Installation".

4. CHECK POWER WINDOW SWITCH CIRCUITS

- Disconnect BCM connector.
- Check continuity between BCM connector and main power window and door lock/unlock switch connector.

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity	
M18	40	D6	15	Yes	
	10	D6	3	ies	

3. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
M18	40	Ground	No
	10	- Ground	

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000010283345

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000010283346

1. CHECK FUNCTION

(P)With CONSULT

Check "CDL LOCK SW", "CDL UNLOCK SW" in Data Monitor mode with CONSULT.

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

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Monitor item	С	ondition	
CDL UNLOCK SW	LOCK	: OFF	
CDL DIVLOCK SVV	UNLOCK	: ON	

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to <u>DLK-323</u>, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-293, "Wiring Diagram".

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

- 1. Turn ignition switch ON.
- 2. Check voltage at the front power window and door lock/unlock switch RH connector when the switch (passenger side) is changed to "LOCK" or "UNLOCK".

Connector	Front power window and door lock/ unlock switch RH state	Terminal		Voltage	
D112	Neutral → Lock	1	Ground	Battery voltage → 0	
DIIZ	Neutral → Unlock	2 Ground		Battery voltage → 0	

Is the inspection result normal?

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

2. CHECK POWER WINDOW SWITCH GROUND

- Turn ignition switch OFF.
- 2. Disconnect front power window and door lock/unlock switch RH connector.
- Check continuity between front power window and door lock/unlock switch RH connector and ground.

Front power window and door lock/unlock switch RH connector	Terminal		Continuity
D112	3	Ground	Yes

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK POWER WINDOW SWITCH

Check continuity between front power window and door lock/unlock switch RH terminals.

Front power window and door lock/unlock switch RH state	Terminals	Continuity	
Lock	1 - 3	Yes	
Unlock	2 - 3	165	
Neutral/Unlock	No		
Neutral/Lock	2 - 3	INO	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace front power window and door lock/unlock switch RH. Refer to PWC-65, "Removal and Installation".

4. CHECK POWER WINDOW SWITCH CIRCUITS

1. Disconnect BCM connector.

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< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Check continuity between BCM connector and front power window and door lock/unlock switch RH connector.

BCM connector	Terminal	Front power window and door lock/unlock switch RH connector	Terminal	Continuity
M18	10	D112	1	Yes
	40	DIIZ	2	165

3. Check continuity between BCM connector and ground.

BCM connector	Terr	Continuity	
M18	10	Ground	No
	40	Ground	NO

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR KEY CYLINDER SWITCH

Description INFOID:000000010283348

When the mechanical key is inserted and turned into the front door lock key cylinder switch LH, the switch transmits the LOCK or UNLOCK signal directly to the BCM.

Component Function Check

INFOID:0000000010283349

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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
KET CIL LK-SW	- 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.

NO >> Refer to <u>DLK-325, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010283350

Regarding Wiring Diagram information, refer to <u>DLK-293, "Wiring Diagram"</u>.

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

- 1. Turn ignition switch ON.
- Check voltage between BCM connector and ground.

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Terminals					
(+)	(+)		Key position	Voltage (V) (Approx.)	
BCM connector	Terminal	(-)		VIII /	
	92			Lock	0
M19			Ground	Neutral / Unlock	8
IVI 19	93	Giodila	Unlock	0	
	93		Neutral / Lock	8	

Is the inspection result normal?

YES >> Front door lock key cylinder switch LH is OK.

NO >> GO TO 2.

2.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect front door lock key assembly LH connector.
- Check continuity between front door lock assembly LH connector and ground.

Front door lock assembly LH connector	Terminal	Ground	Continuity
D23	4	Ground	Yes

Is the inspection result normal?

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

YES >> GO TO 3.

NO >> Repair or replace harness.

3.check door key cylinder signal circuit

- Disconnect BCM connector M18.
- 2. Check continuity between front door lock assembly LH connector and BCM connector M18.

Front door lock assembly LH connector	Terminal	BCM connector	Terminal	Continuity
D23	6	M19	92	Yes
D23	5	WITE	93	165

3. Check continuity between front door lock assembly LH connector and ground.

Front door lock assembly LH connector	Terminal		Continuity
D23	6	Ground	No
	5		NO

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to <u>DLK-326</u>, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> Replace front door lock assembly LH. Refer to <u>DLK-373</u>, "<u>DOOR LOCK</u>: Removal and Installation".

Component Inspection

INFOID:0000000010283351

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

Check front door lock key cylinder switch LH.

Term	inal	- Key position	Continuity	
Front door lock key cylind	ler switch LH connector	Rey position	Continuity	
6		Lock	Yes	
O	4	Neutral / Unlock	No	
	4	Unlock	Yes	
5		Neutral / Lock	No	

Is the inspection result normal?

YES >> Key cylinder switch is OK.

NO >> Replace front door lock assembly LH. Refer to <u>DLK-373</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

KEY SWITCH (BCM INPUT)

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

KEY SWITCH (BCM INPUT)

Diagnosis Procedure

INFOID:0000000010283352

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Regarding Wiring Diagram information, refer to DLK-293, "Wiring Diagram".

: ON

1. CHECK KEY SWITCH INPUT SIGNAL

With CONSULT

Check key switch "KEY SW" in "Data Monitor" mode with CONSULT. Refer to <u>BCS-87</u>, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

· When key is inserted to ignition key cylinder:

E

· When key is removed from ignition key cylinder:

KEY SW : OFF

Without CONSULT

KEY SW

Check voltage between BCM connector M18 terminal 37 and ground.

Connector	Terr	ninal	Condition	Voltage (V)	
Connector	(+)	(–)	Condition		
M19	104	Ground	Key is inserted.	Battery voltage	
10119	104	Giodila	Key is removed.	0	

Is the inspection result normal?

YES >> Key switch (insert) circuit is OK.

NO >> GO TO 2.

2.CHECK KEY SWITCH (INSERT)

- 1. Turn ignition switch OFF.
- 2. Disconnect key switch connector.
- Check continuity between key switch terminals.

Terminals	Condition	Continuity
2 4	Key is inserted.	Yes
3 – 4	Key is removed.	No

Is the inspection result normal?

YES >> Repair or replace harness or fuse.

NO >> Replace key switch.

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< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE: Component Function Check

INFOID:0000000010346366

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-328</u>, "<u>DRIVER SIDE</u>: <u>Diagnosis Procedure</u>".

DRIVER SIDE: Diagnosis Procedure

INFOID:0000000010346367

Regarding Wiring Diagram information, refer to DLK-293, "Wiring Diagram".

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

	+) k assembly LH	(–)	Condition		–) Condition Voltage (Approx.)		
Connector	Terminal				, , ,		
D23	1	Ground	Door lock and unlock switch	Lock	Battery voltage		
D23	2	Ground	Door lock and unlock switch	Unlock	Dattery voltage		

Is the inspection result normal?

YES >> Replace front door lock assembly LH. Refer to <u>DLK-373, "DOOR LOCK : Removal and Installation"</u>.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- 1. Disconnect BCM, all door lock actuator connectors.
- 2. Check continuity between BCM harness connector and front door lock assembly LH harness connector.

В	CM	Front door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M20	165	D23	1	Yes
10120	172	D23	2	165

3. Check continuity between BCM harness connector and ground.

ВСМ			Continuity
Connector	Terminal	Ground	Continuity
M20	165	Ground	No
IVIZU	172		INU

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

1. Connect BCM connector.

Check voltage between BCM harness connector and ground.

(+)					Mallana
В	СМ	(-)	Condition		Voltage (Approx.)
Connector	Terminal				(11 -)
M20	165	Ground	Door lock and unlock switch	Lock	Battery voltage
IVIZO	172	Ground	Door lock and unlock switch	Unlock	Battery voltage

Is the inspection result normal?

YES >> Replace front door lock assembly LH. Refer to <u>DLK-373</u>, "<u>DOOR LOCK</u>: Removal and <u>Installation</u>".

NO >> Replace BCM. Refer to BCS-135, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE: Component Function Check

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1. CHECK FUNCTION

- 1. 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 <u>DLK-329</u>, "PASSENGER SIDE : <u>Diagnosis Procedure"</u>.

PASSENGER SIDE : Diagnosis Procedure

Regarding Wiring Diagram information, refer to <u>DLK-293</u>, "Wiring Diagram".

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect front door lock actuator RH connector.
- Check voltage between front door lock actuator RH harness connector and ground.

(+)			(–) Condition		Voltage	
Front door lock actuator RH		(-)			Voltage (Approx.)	
Connector	Terminal				(44)	
D113	5	Ground	Door lock and unlock switch	Unlock	Battery voltage	
DIIS	6	Giodila		Lock	Dattery Voltage	

Is the inspection result normal?

YES >> Replace front door lock actuator RH. Refer to <u>DLK-373, "DOOR LOCK : Removal and Installation"</u>.

NO \Rightarrow GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- Disconnect BCM, all door lock actuator connectors.
- 2. Check continuity between BCM harness connector and front door lock actuator RH harness connector.

ВСМ		Front door lock actuator RH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M20	165	D113	5	Yes
IVI∠U	163	D113	6	165

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< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
M20	165	Ground	No	
IVIZO	163		INO	

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.

(+) BCM		(–)	Condition		Voltage (Approx.)	
Connector	Terminal				(Αρριολ.)	
M20	165	Ground	Door lock and unlock switch	Unlock	Battery voltage	
IVIZU	163	Giouna		Lock	Dattery Voltage	

Is the inspection result normal?

YES >> Replace front door lock actuator RH. Refer to <u>DLK-373, "DOOR LOCK: Removal and Installation".</u>

NO >> Replace BCM. Refer to BCS-135, "Removal and Installation".

REAR LH

REAR LH: Component Function Check

INFOID:0000000010346370

1. CHECK FUNCTION

- 1. Select "DOOR LOCK" of BCM using CONSULT.
- 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-330</u>, "REAR LH: <u>Diagnosis Procedure"</u>.

REAR LH: Diagnosis Procedure

INFOID:0000000010346371

Regarding Wiring Diagram information, refer to <u>DLK-293, "Wiring Diagram"</u>.

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect rear door lock actuator LH connector.
- Check voltage between rear door lock actuator LH harness connector and ground.

(+)					Valtana	
Rear door loo	ck actuator LH	(–)	Condition			Voltage (Approx.)
Connector	Terminal				(11 /	
D206	1	Ground	und Door lock and unlock switch	Lock	Battery voltage	
5200	2	Ground	Door lock and unlock switch Unlock		battery voltage	

Is the inspection result normal?

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

- Disconnect BCM, all door lock actuator connectors.
- Check continuity between BCM harness connector and rear door lock actuator LH harness connector.

ВСМ		Rear door lock actuator LH		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B23	148	D206	2	Yes
623	149	D200	1	165

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
B23	148	Ground	No	
BZJ	149		NO	

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.

(+)					Voltago	
В	CM	(–)	Condition		Condition Voltage (Approx.)	(Approx.)
Connector	Terminal				()	
B23	148	Ground	Door lock and unlock switch	Unlock	Battery voltage	
623	149	Ground	Door lock and unlock switch	Lock	Dallery Vollage	

Is the inspection result normal?

>> Replace rear door lock actuator LH. Refer to DLK-377, "DOOR LOCK: Removal and Installation".

>> Replace BCM. Refer to BCS-135, "Removal and Installation". NO

REAR RH

REAR RH: 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-331, "REAR RH: Diagnosis Procedure".

REAR RH: Diagnosis Procedure

Regarding Wiring Diagram information, refer to DLK-293, "Wiring Diagram".

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect rear door lock actuator RH connector.

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DLK-331 Revision: November 2013 2014 Rogue NAM

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Check voltage between rear door lock actuator RH harness connector and ground.

(+)						
Rear door loo	k actuator RH	(–)	Condition			Voltage (Approx.)
Connector	Terminal				(11 /	
D306	5	Ground	ound Door lock and unlock switch	Unlock	Battery voltage	
D300	6	Glound	Door lock and unlock switch	Lock	Dattery voltage	

Is the inspection result normal?

YES >> Replace rear door lock actuator RH. Refer to <u>DLK-377, "DOOR LOCK : Removal and Installation"</u>. NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

- 1. Disconnect BCM, all door lock actuator connectors.
- 2. Check continuity between BCM harness connector and rear door lock actuator RH harness connector.

В	CM	Rear door loo	Continuity		
Connector	Terminal	Connector	Terminal	Continuity	
B23	148	D306	6	Yes	
D23	149	D300	5	165	

3. Check continuity between BCM harness connector and ground.

В	CM		Continuity	
Connector	Terminal	Ground	Continuity	
Poo	148	Ground	No	
B23	149		INU	

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 Volta (Appr		Voltage	
Connector Terminal		(-)			(Approx.)	
B23	148			Unlock	Pottonyvoltogo	
D23	149	Ground	Door lock and unlock switch	Lock	Battery voltage	

Is the inspection result normal?

YES >> Replace rear door lock actuator RH. Refer to <u>DLK-377</u>, "<u>DOOR LOCK</u>: <u>Removal and Installation</u>".

NO >> Replace BCM. Refer to <u>BCS-135</u>, "Removal and Installation".

KEYFOB BATTERY AND FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

KEYFOB BATTERY AND FUNCTION

Description INFOID:000000010283368

The following functions are available when having and carrying the keyfob.

- · Door lock/unlock
- Panic mode (horn and head-lamp operation)

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

Component Function Check

INFOID:0000000010283369

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NOTE:

The Signal Tech II Tool [- (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- · Check keyfob relative signal strength
- · Confirm vehicle antenna signal strength

1. CHECK FUNCTION

(P)With CONSULT

Check remote keyless entry receiver KEYLESS LOCK, KEYLESS UNLOCK, and KEYLESS PANIC in Data Monitor mode with CONSULT.

Monitor item	Condition		
KEYLESS LOCK	Checks whether value changes from "Off" to "On" when operating keyfob lock button.		
KEYLESS UNLOCK	Checks whether value changes from "Off" to "On" when operating keyfob unlock button.		
KEYLESS PANIC	Checks whether value changes from "Off" to "On" when operating keyfob panic button.		

Is the inspection result normal?

YES >> Keyfob is OK.

NO >> Refer to DLK-333, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010283370

NOTE:

The Signal Tech II Tool [- (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

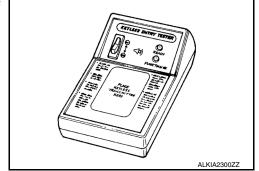
- · Check keyfob relative signal strength
- · Confirm vehicle antenna signal strength

1. CHECK KEYFOB FUNCTION

Check keyfob function using Signal Tech II Tool J-50190 or Remote Keyless Entry Tester J-43241 (shown).

Does the test pass?

YES >> Keyfob is OK. NO >> GO TO 2.



2.CHECK KEYFOB BATTERY

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KEYFOB BATTERY AND FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

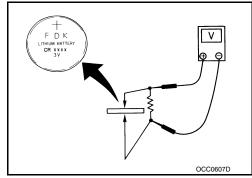
Check by connecting a resistance (approximately $300\Omega)$ so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0V

Is the measurement value within specification?

YES >> Keyfob battery is OK.

NO >> GO TO 3.



3. REPLACE KEYFOB BATTERY

- Replace the keyfob battery with a new one (CR2032 or equivalent).
 CAUTION:
 - When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
 - Make sure that the + side faces the bottom of the case.
- 2. Align the tips of the upper and lower parts, and then push them together until it is securely closed.
- 3. After replacing the battery, check that all keyfob functions work properly.

Is the inspection result normal?

YES >> Keyfob is OK.

NO >> Check BCM.

HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

HORN FUNCTION

Component Function Check

INFOID:0000000010346374

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1. CHECK FUNCTION 1

- 1. Perform "SIREN" in Active Test mode of "THEFT ALM" of BCM using CONSULT.
- 2. Check the horn operation.

Tes	st item	Description		
HORN	ON	Horn	Sounds (for 0.5 sec)	

Is the operation normal?

YES >> Inspection End.

NO >> Go to HRN-3, "Wiring Diagram".

Component Inspection

INFOID:0000000010346375

1. CHECK ANTI-THEFT HORN RELAY

- Turn ignition switch OFF.
- 2. Disconnect anti-theft horn relay.
- 3. Check voltage between anti-theft horn relay terminal and ground under the following conditions.

(+) Anti-theft horn relay	(-)	Condition	Voltage (V) (Approx.)	
Terminal				
2	Ground	12 V direct current supply between terminals 1 and 2	12	
	Ground	No current supply	0	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace anti-theft horn relay.

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WARNING CHIME FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

WARNING CHIME FUNCTION

Description INFOID:000000010283374

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:0000000010283375

1. CHECK FUNCTION

(A) With CONSULT

- 1. Check the operation with "BUZZER" in the "Active Test".
- 2. Touch "IGN KEY WARN ALM", "SEAT BELT WARN TEST" or "LIGHT WARN ALM" on screen.

Is the inspection result normal?

YES >> Warning buzzer into combination meter is OK.

NO >> Refer to <u>DLK-336</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010283376

1. CHECK METER BUZZER CIRCUIT

Operate the hazard lights by turning ON the hazard warning switch.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace combination meter. Refer to MWI-82, "Removal and Installation".

2. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> Inspection End.

HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

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< DTC/CIRCUIT DIAGNOSIS >	[WITHOUT INTELLIGENT RET STSTEM]
HAZARD FUNCTION	
Description	INFOID:000000010283377
Perform answer-back for each operation with number of blink	s.
Component Function Check	INFOID:000000010283378
1.check function	
Check hazard warning lamp "FLASHER" in "Active Test".	
Is the inspection result normal?	
YES >> Hazard warning lamp circuit is OK. NO >> Refer to <u>DLK-337, "Diagnosis Procedure"</u> .	
Diagnosis Procedure	INFOID:0000000010283379
1. CHECK HAZARD SWITCH CIRCUIT	
Operate the hazard lights by turning ON the hazard warning s	switch.
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Repair or replace hazard warning switch circuit.	Refer to EXL-125, "Removal and Installation".
2.CHECK INTERMITTENT INCIDENT	
Refer to GI-41, "Intermittent Incident".	
and the control End	
>> Inspection End.	

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KEYFOB ID SET UP WITH CONSULT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

KEYFOB ID SET UP WITH CONSULT

ID Code Entry Procedure

INFOID:0000000010283380

KEYFOB ID SET UP WITH CONSULT

NOTE:

- If a keyfob is lost, the ID code of the lost keyfob must be erased to prevent unauthorized use. A specific ID code can be erased with CONSULT. However, when the ID code of a lost keyfob is not known, all controller ID codes should be erased. After all ID codes are erased, the ID codes of all remaining and/or new keyfobs must be re-registered.
- When registering an additional keyfob, the existing ID codes in memory may or may not be erased. If
 five ID codes are stored in memory when an additional code is registered, only the oldest code is
 erased. If less than five codes are stored in memory when an additional code is registered, the new
 ID code is added and no ID codes are erased.
- Entry of a maximum of five ID codes is allowed. When more than five codes are entered, the oldest ID code will be erased.
- Even if the same ID code that is already in memory is input, the same ID code can be entered. The
 code is counted as an additional code.
- 1. Turn ignition switch ON.
- 2. Select BCM.
- Select MULTI REMOTE ENT.
- 4. Select WORK SUPPORT.
- You can register, erase or confirm a keyfob ID code. To register a new code, select the following option and follow CONSULT instructions:
 - REMO CONT ID REGIST
 - Use this mode to register a keyfob ID code.

NOTE:

Register the ID code when keyfob or BCM is replaced, or when additional keyfob is required.

- REMO CONT ID ERASUR
 - Use this mode to erase a keyfob ID code.
- REMO CONT ID CONFIR
 - Use this mode to confirm if a keyfob ID code is registered or not.

KEYFOB ID SET UP WITHOUT CONSULT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

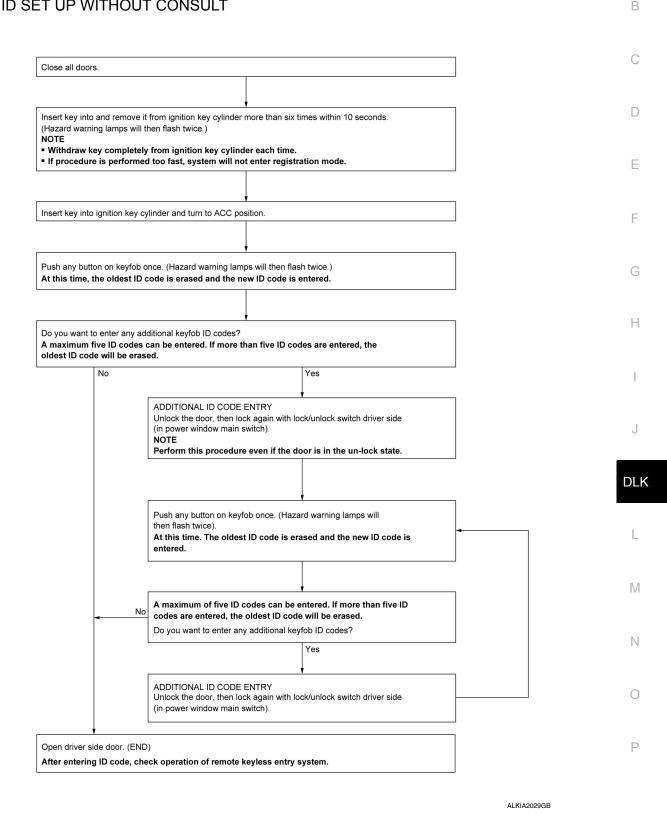
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INFOID:0000000010283381

KEYFOB ID SET UP WITHOUT CONSULT

ID Code Entry Procedure

KEYFOB ID SET UP WITHOUT CONSULT



NOTE:

 If a keyfob is lost, the ID code of the lost keyfob must be erased to prevent unauthorized use. A specific ID code can be erased with CONSULT. However, when the ID code of a lost keyfob is not known, all controller

KEYFOB ID SET UP WITHOUT CONSULT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

ID codes should be erased. After all ID codes are erased, the ID codes of all remaining and/or new keyfobs must be re-registered.

To erase all ID codes in memory, register one ID code (keyfob) five times. After all ID codes are erased, the ID codes of all remaining and/or new keyfobs must be re-registered.

- When registering an additional keyfob, the existing ID codes in memory may or may not be erased. If five ID codes are stored in memory, when an additional code is registered, only the oldest code is erased. If less than five ID codes are stored in memory, when an additional ID code is registered, the new ID code is added and no ID codes are erased.
- If you need to activate more than two additional new keyfobs, repeat the procedure "Additional ID code entry" for each new keyfob <u>DLK-338</u>. "ID Code Entry <u>Procedure"</u> (with CONSULT), <u>DLK-339</u>. "ID Code Entry <u>Procedure"</u> (without CONSULT).
- A maximum amount of five ID codes is allowed. When more than five ID codes are entered, the oldest ID code will be erased.
- Even if same ID code that is already in the memory is input, the same ID code can be entered. The code is counted as an additional code.

POWER DOOR LOCK SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

SYMPTOM DIAGNOSIS

POWER DOOR LOCK SYSTEM SYMPTOMS

Symptom Table INFOID:0000000010283382

DOOR LOCK/UNLOCK FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "WORK FLOW". Refer to DLK-312, "Work Flow".
- · Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Symptom	Diagnosis/serv	Reference page	
	Check door switch.	DLK-319	
Key reminder door function does not operate properly.	2. Check key switch.		DLK-327
property.	3. Check Intermittent Incident.	<u>GI-41</u>	
Power door lock does not operate with main	Check BCM Power supply a	BCS-128	
power window and door lock/unlock switch or	2. Check main power window	and door lock and unlock switch.	DLK-321
power window and door lock/unlock switch RH.	3. Check power window and d	oor lock and unlock switch RH.	DLK-322
КП.	4. Check Intermittent Incident.		<u>GI-41</u>
		Driver side	DLK-328
	Check door lock actuator.	Passenger side	DLK-329
Specific door lock actuator does not operate.	1. Check door lock actuator.	Rear LH	DLK-330
		Rear RH	DLK-331
	2. Check Intermittent Incident.	<u>GI-41</u>	
Power door locks do not operate with front	Check key cylinder switch.	DLK-325	
door lock key cylinder switch LH.	2. Replace BCM.	BCS-135	
Vehicle speed sensing auto door LOCK oper-	Ensure automatic door lock/ is enabled.	DLK-287	
ation does not operate.	2. Check combination meter ve	SEC-170	
	3. Check intermittent incident.	<u>GI-41</u>	
Ignition OFF interlock auto door UNLOCK	Ensure automatic door lock/ tion) is enabled.	DLK-287	
function does not operate.	2. Check BCM for DTCs.	BCS-108	
	3. Check intermittent incident.	<u>GI-41</u>	

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REMOTE KEYLESS ENTRY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY SYSTEM SYMPTOMS

Symptom Table

REMOTE KEYLESS ENTRY SYSTEM

Symptom	Diagnoses/service procedure	Reference page
All functions of remote keyless entry system do not operate.	Keyfob battery and function check (use Remote Keyless Entry Tester J-43241) NOTE: If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-333
The new ID of keyfob cannot be entered.	Keyfob battery and function check (use Remote Keyless Entry Tester J-43241) NOTE: If the result of keyfob function check is OK, keyfob is not malfunctioning.	<u>DLK-333</u>
	2. Door switch check	DLK-319
	3. Replace BCM.	BCS-135
Door lock or unlock does not function. (If the power door lock system does not operate manually, check power door lock system)	Keyfob battery and function check (use Remote Keyless Entry Tester J-43241) NOTE: If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-333
	2. Replace BCM.	BCS-135
Hazard and horn reminder does not activate properly when pressing lock or unlock button of keyfob.	Check hazard and horn reminder mode with CONSULT NOTE: Hazard and horn reminder mode can be changed. First check the hazard and horn reminder mode setting.	DLK-288
when pressing lock of unlock button of keylob.	2. Door switch check	DLK-319
	3. Replace BCM.	BCS-135
Hazard reminder does not activate properly when pressing lock or unlock button of keyfob.	Check hazard reminder mode with CONSULT NOTE: Hazard reminder mode can be changed. First check the hazard reminder mode setting.	DLK-288
(Horn reminder OK)	2. Check hazard function with hazard switch	_
	3. Replace BCM.	BCS-135
Horn reminder does not activate properly when	Check horn reminder mode with CONSULT NOTE: Horn reminder mode can be changed. First check the horn reminder mode setting.	DLK-288
pressing lock or unlock button of keyfob. (Hazard reminder OK)	2. Check horn function with horn switch	
,	3. IPDM E/R operation check	PCS-5
	4. Replace BCM.	BCS-135
	Room lamp operation check	<u>INL-7</u>
Room lamp illumination does not operate properly.	2. Door switch check	
	3. Replace BCM.	BCS-135
Panic alarm (horn and headlamp) does not activate when panic alarm button is continuously pressed.	Keyfob battery and function check (use Remote Keyless Entry Tester J-43241) NOTE: If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-333
	2. Replace BCM.	BCS-135

REMOTE KEYLESS ENTRY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Symptom	Diagnoses/service procedure	Reference page
Auto door lock operation does not activate properly. (All other remote keyless entry functions OK.)	Check auto door lock operation mode with CONSULT NOTE: Auto door lock operation mode can be changed. First check the auto door lock operation mode setting.	DLK-287
	2. Replace BCM.	BCS-135

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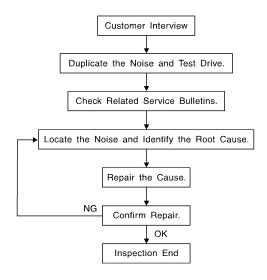
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SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow INFOID:000000010283384



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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 customer's comments; refer to DLK-348, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving 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 dependent on materials/often brought on by activity.
- Rattle—(Like shaking a baby rattle)
 - Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock —(Like a knock on a door)
 - Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)
 - Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
 - Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a bumble bee)
 - Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge
 as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

SQUEAK AND RATTLE TROUBLE DIAGNOSES < SYMPTOM DIAGNOSIS > [WITHOUT INTELLIGENT KEY SYST]	EM]
If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to do cate the noise with the vehicle stopped by doing one or all of the following: 1) Close a door.	lupli-
2) Tap or push/pull around the area where the noise appears to be coming from.3) Rev the engine.	
 4) Use a floor jack to recreate vehicle "twist". 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT and A/T model. 	Hole)
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 occu If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress vehicle body. 	
CHECK RELATED SERVICE BULLETINS	
After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) rel to that concern or symptom.	ated
If a TSB relates to the symptom, follow the procedure to repair the noise.	E
LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE	
 Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanic's stethoscope). 	tool F
 Narrow down the noise to a more specific area and identify the cause of the noise by: removing the components in the area that you suspect the noise is coming from. Do not use too much force when removing clips and fasteners, otherwise clips and fasteners ca broken or lost during the repair, resulting in the creation of new noise. tapping or pushing/pulling the component that you suspect is causing the noise. 	n be 🤇
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated temporarily.	- 1
 feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing noise. 	g the
 placing a piece of paper between components that you suspect are causing the noise. looking for loose components and contact marks. 	I
Refer to DLK-345, "Generic Squeak and Rattle Troubleshooting".	
 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. A NISSAN Squeak and Rattle Kit (J-50397) is available through your authorized NISSAN Parts De 	
ment. CAUTION:	L
Do not use excessive force as many components are constructed of plastic and may be damaged.	
 NOTE: Always check with the Parts Department for the latest parts information. The materials contained in the NISSAN Squeak and Rattle Kit (J-50397) are listed on the inside cover o kit; and can each be ordered separately as needed. 	of the
The following materials not found in the kit can also be used to renair squeaks and rattles	

- SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease will only last a few months.
- SILICONE SPRAY: Use when grease cannot be applied.
- DUCT TAPE: Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Generic Squeak and Rattle Troubleshooting

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

- 1. Cluster lid A and the instrument panel
- 2. Acrylic lens and combination meter housing
- 3. Instrument panel to front pillar finisher
- 4. Instrument panel to windshield
- Instrument panel pins
- 6. Wiring harnesses behind the combination meter
- 7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

- Shift selector assembly cover to finisher
- 2. A/C control unit and cluster lid C
- 3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the:

- 1. Finisher and inner panel making a slapping noise
- Inside handle escutcheon to door finisher
- Wiring harnesses tapping
- Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks 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 owner. In addition look for:

- 1. Trunk lid bumpers out of adjustment
- 2. Trunk lid striker out of adjustment
- The trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

- 1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
- 2. Sun visor 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.

OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage. In addition look for:

- 1. Loose harness or harness connectors.
- 2. Front console map/reading lamp lens loose.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

3. Loose screws at console attachment points.

SFATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

Headrest rods and holder

- 2. A squeak between the seat pad cushion and frame
- 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 installed to the engine wall
- 2. Components that pass through the engine wall
- 3. Engine wall mounts and connectors
- Loose radiator installation pins
- 5. Hood bumpers out of adjustment
- 6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine rpm or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

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Revision: November 2013 DLK-347 2014 Rogue NAM

Diagnostic Worksheet

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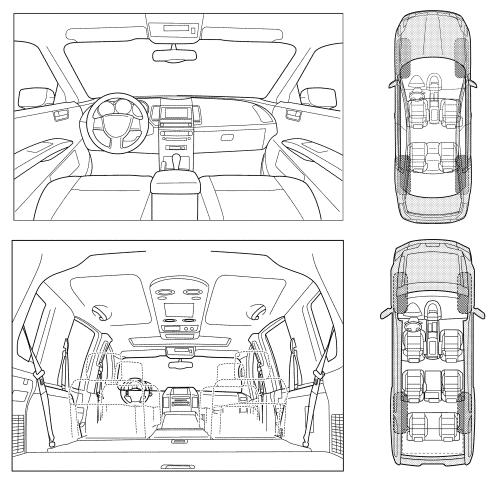
Dear Customer:

We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle 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.

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

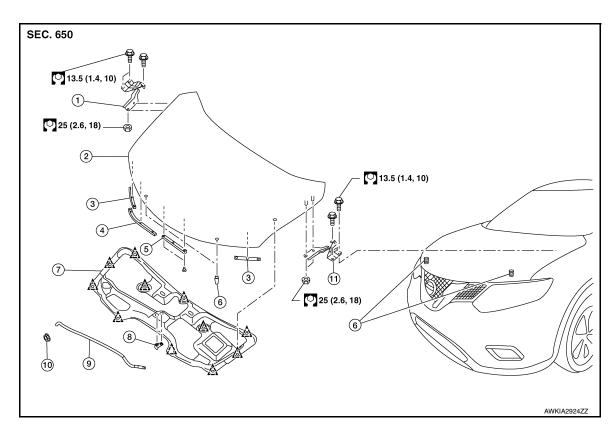
[WITHOUT INTELLIGENT KEY SYSTEM]

Briefly describe the location where the no	ise occurs:	
		_
. WHEN DOES IT OCCUR? (please che	eck the boxes that apply)	
☐ Anytime	☐ After sitting out in the rain	
1st time in the morning	When it is raining or wet	
Only when it is cold outside	☐ Dry or dusty conditions	
Only when it is hot outside	☐ Other:	
II. WHEN DRIVING:	IV. WHAT TYPE OF NOISE	
☐ Through driveways	☐ Squeak (like tennis shoes on a clean floor)	
Over rough roads	☐ Creak (like walking on an old wooden floor)	
Over speed bumps	Rattle (like shaking a baby rattle)	
Only about mph	☐ Knock (like a knock at the door)	
☐ On acceleration☐ Coming to a stop	☐ Tick (like a clock second hand)☐ Thump (heavy muffled knock noise)	
On turns: left, right or either (circle)	Buzz (like a bumble bee)	
	Duzz (like a bumble bee)	
With passengers or cargo	□ buzz (like a bumble bee)	
☐ With passengers or cargo ☐ Other: miles or min	utes	_
With passengers or cargo Other: miles or min O BE COMPLETED BY DEALERSHIP F	utes	_
With passengers or cargo Other: miles or min O BE COMPLETED BY DEALERSHIP F	utes	_
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☐ With passengers or cargo ☐ Other: miles or min ☐ After driving miles or min ☐ BE COMPLETED BY DEALERSHIP Frest Drive Notes:	PERSONNEL YES NO Initials of person	-
☐ With passengers or cargo ☐ Other: miles or min ☐ After driving miles or min ☐ BE COMPLETED BY DEALERSHIP F ☐ Test Drive Notes: //ehicle test driven with customer	PERSONNEL YES NO Initials of person	-
With passengers or cargo Other: miles or min After driving miles or min TO BE COMPLETED BY DEALERSHIP F Test Drive Notes: Vehicle test driven with customer Noise verified on test drive Noise source located and repaired	PERSONNEL YES NO Initials of person performing	-
With passengers or cargo Other: miles or min TO BE COMPLETED BY DEALERSHIP F	PERSONNEL YES NO Initials of person performing	-
With passengers or cargo Other: After driving miles or min O BE COMPLETED BY DEALERSHIP F Sest Drive Notes: Sehicle test driven with customer Noise verified on test drive Noise source located and repaired Follow up test drive performed to confin	PERSONNEL YES NO Initials of person performing	-

REMOVAL AND INSTALLATION

HOOD

Exploded View



- 1. Hood hinge (RH)
- 4. Hood front seal
- 7. Hood insulator
- 10. Hood rod grommet
- 2. Hood
- 5. Hood center seal
- 8. Hood rod clamp
- 11. Hood hinge (LH)

- Hood side seal
- 6. Bumper rubber
- 9. Hood support rod

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HOOD ASSEMBLY

HOOD ASSEMBLY: Removal and Installation

CAUTION:

- · Use two people when removing or installing hood assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of hood assembly.

REMOVAL

1. Support the hood assembly using a suitable tool.

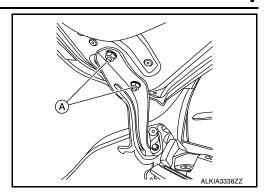
WARNING:

Bodily injury may occur if hood assembly is not supported properly when removing hood assembly.

[WITHOUT INTELLIGENT KEY SYSTEM]

Remove hood hinge to hood nuts (A) and hood assembly.NOTE:

RH side shown; LH similar.



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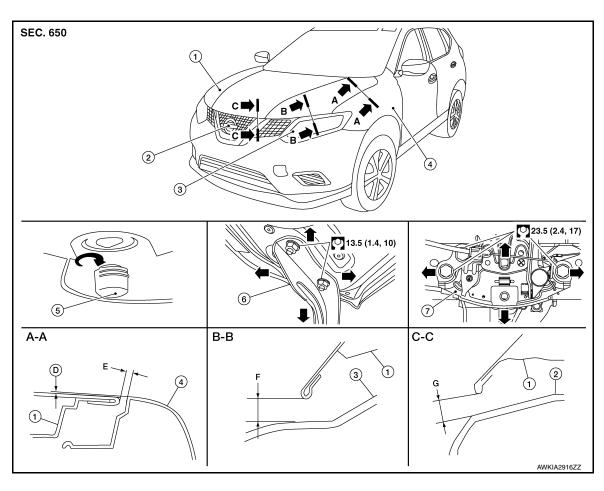
INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform the hood assembly adjustment procedure. Refer to <u>DLK-351</u>, "HOOD ASSEMBLY: Adjustment".

HOOD ASSEMBLY: Adjustment



- 1. Hood assembly
- 4. Fender
- . Hood lock

- Front grille
- Bumper rubber

- Front combination lamp
- 6. Hood hinge

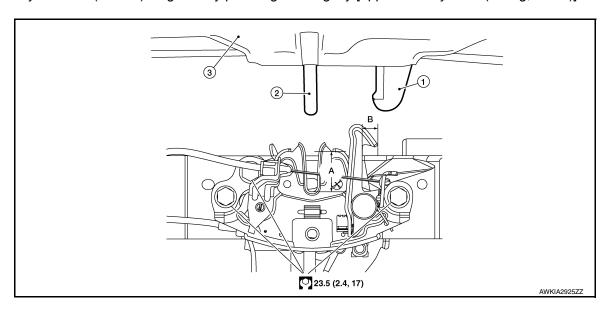
Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

[WITHOUT INTELLIGENT KEY SYSTEM]

					Unit: mm (in)
Portion	Section	Item	Measurement	Standard	Parallelism
Hood - Fender	A - A	D	Surface height	0.0 ± 1.0 (0.0 ± 0.04)	1.4 (0.06)
nood - Felidei	A-A	Е	Clearance	3.5 ± 1.5 (0.14 ± 0.04)	1.4 (0.06)
Fender - Front combination lamp	B - B	F	Clearance	$9.0 \pm 2.0 \; (0.35 \pm 0.08)$	2.0 (0.08)
Hood - Front combination lamp	C - C	G	Clearance	1.9 ± 1.1 (0.07 ± 0.04)	1.5 (0.06)

HEIGHT ADJUSTMENT

- 1. Loosen the hood lock assembly bolts.
- 2. Adjust the surface height of hood assembly to front grille and front fender according to the specified values by rotating hood bumper rubber.
- 3. Temporarily tighten hood lock assembly bolts.
- 4. Adjust (A) and (B) as shown to the following value with hood's own weight by dropping it from approximately 200 mm (7.87 in) height or by pressing hood lightly [approximately 29 N (3.0 kg, 6.5 lb)].



- 1. Secondary striker
- 2. Primary striker
- A. 20 mm (0.79 in)
- B. 6.8 mm (0.27 in)
- 3. Hood assembly
- After adjustment, tighten hood hinge nuts and bolts to the specified torque.CAUTION:
 - Check hood hinge rotating part for poor lubrication. If necessary, apply a suitable multi-purpose grease.
 - After adjusting, apply touch-up paint (body color) to the head of hood hinge bolts and nuts.

CLEARANCE ADJUSTMENT

- Loosen hood hinge nuts and bolts.
- 2. Loosen the hood lock assembly bolts.
- 3. Adjust the hood assembly so the clearance measurements are within specifications.
- Tighten the hood hinge nuts and bolts to specified torque.
- 5. Tighten the hood lock assembly bolts to specified torque.

HOOD HINGE

HOOD HINGE: Removal and Installation

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REMOVAL

Remove hood assembly. Refer to DLK-350, "HOOD ASSEMBLY: Removal and Installation".

HOOD

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- 2. Remove front fender. Refer to DLK-355, "Removal and Installation".
- 3. Remove hood hinge bolts, and then remove hood hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform hood assembly adjustment procedure. Refer to <u>DLK-351</u>, "HOOD ASSEM-<u>BLY</u>: Adjustment".

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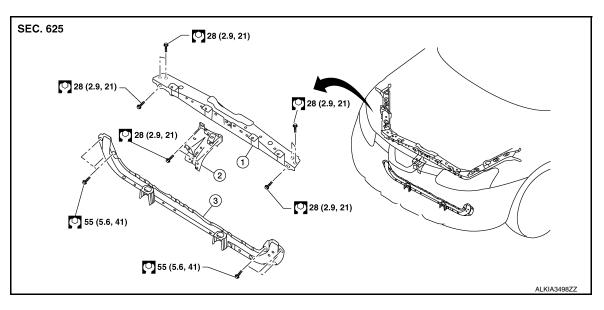
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RADIATOR CORE SUPPORT

Exploded View



- 1. Radiator core upper support
- Secondary latch bracket
- 3. Radiator core lower support

Removal and Installation

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CAUTION:

When removing radiator core support upper, be careful not to damage the painted surface.

REMOVAL

Radiator Core Upper Support

- Remove front combination lamp (LH). Refer to <u>EXL-119</u>, "Removal and Installation".
- 2. Remove front air duct. Refer to EM-24, "Exploded View".
- 3. Remove hood lock. Refer to DLK-253, "HOOD LOCK: Removal and Installation".
- 4. Remove secondary latch. Refer to DLK-254, "SECONDARY LATCH: Removal and Installation".
- 5. Remove crash zone sensor. Refer to <u>SR-22, "Removal and Installation"</u>.
- Remove bolts and radiator core upper support.

Radiator Core Lower Support

- Remove front bumper fascia. Refer to EXT-17, "Removal and Installation".
- 2. Support the radiator using a suitable tool.
- 3. Remove bolts and radiator core lower support.

INSTALLATION

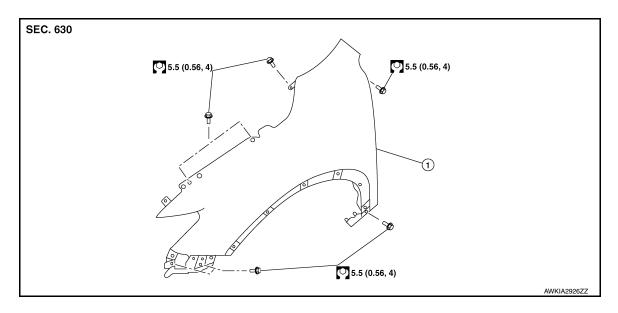
Installation is in the reverse order of removal.

CAUTION:

Tighten bolts to specified torque. Refer to <u>DLK-354</u>, "Exploded View".

FRONT FENDER

Exploded View INFOID:0000000010351315



Front fender

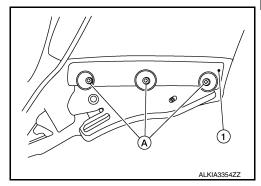
Removal and Installation

Use a shop cloths to protect the body from being damaged during removal and installation.

REMOVAL

CAUTION:

- 1. Remove front bumper fascia. Refer to EXT-17, "Removal and Installation".
- 2. Remove front combination lamp. Refer to EXL-119, "Removal and Installation" (HALOGEN HEADLAMP) or EXL-268, "Removal and Installation". (LED HEADLAMP).
- 3. Remove center mudguard. Refer to EXT-42, "Removal and Installation".
- 4. Remove screws (A) and front fender bracket (1).



Remove bolts and front fender.

CAUTION:

Use care when removing the front fender. The front fender baffle foam adheres the front fender to the body side outer. Carefully release the baffle foam or damage to the front fender may occur.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation apply touch up paint (body color) to the head of front fender bolts.
- After installation, adjust the following components as necessary:
- Hood assembly: Refer to <u>DLK-351, "HOOD ASSEMBLY: Adjustment"</u>.
- Front door: Refer to DLK-358, "DOOR ASSEMBLY: Adjustment".

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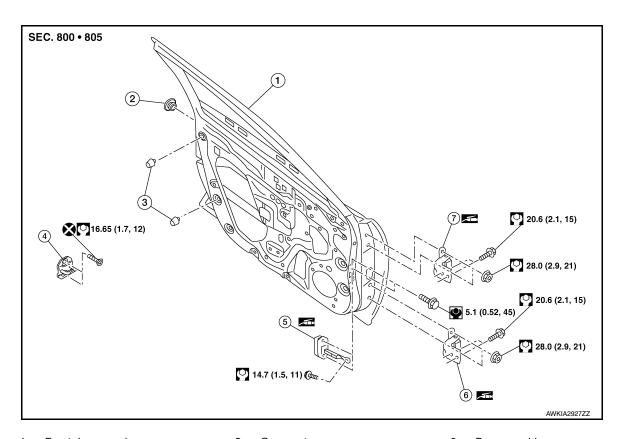
FRONT FENDER

[WITHOUT INTELLIGENT KEY SYSTEM]

• Tighten bolts to specification. Refer to <u>DLK-355</u>, "Exploded View".

FRONT DOOR

Exploded View



- 1. Front door panel
- 4. Door striker
- 7. Front door upper hinge
- 2. Grommet
- 5. Door check link

- 3. Bumper rubber
- 6. Front door lower hinge

DOOR ASSEMBLY

DOOR ASSEMBLY: Removal and Installation

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CAUTION:

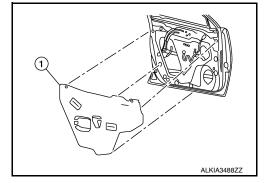
- · Use two people when removing or installing the front door due to its heavy weight.
- When removing and installing front door assembly, support front door with a suitable tool.

REMOVAL

- Remove front door finisher. Refer to <u>INT-15</u>, "Removal and Installation".
- Remove front door vapor barrier (1).NOTE:

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LH side shown; RH similar.



- 3. Disconnect the harness connectors from the front door.
- 4. Remove front door harness grommet, then harness from the front door.

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- 5. Remove front door check link bolt (body side).
- Remove front door hinge nuts (door side) and front door assembly.

INSTALLATION

Installation is in the reverse order of removal.

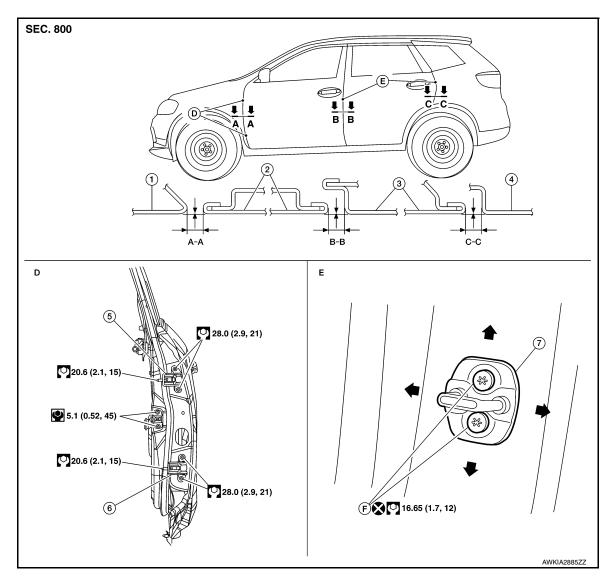
CAUTION:

- Tighten nuts/bolts to specified torque. Refer to DLK-357, "Exploded View".
- · Apply anticorrosive agent where necessary.
- After installation, check front door open/close and lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to <u>DLK-358</u>, "<u>DOOR ASSEM-BLY</u>: <u>Adjustment</u>".

DOOR ASSEMBLY: Adjustment

INFOID:0000000010282931

ADJUSTMENT



- 1. Front fender
- 4. Body side outer
- 7. Door striker

- 2. Front door
- 5. Front door upper hinge
- F. Front door striker bolts
- Rear door
- 6. Front door lower hinge

Check the clearance and surface height between front door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

[WITHOUT INTELLIGENT KEY SYSTEM]

Unit: mm (in)

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			Unit: mm (in)
Portion	Section	Measurement	Standard
Front fender - Front door	A – A	Clearance	4.2 ± 1.0 (0.17 ± 0.04)
Front lender - Front door	A-A	Surface height	± 1.0 (± 0.04)
Front door - Rear door	B – B	Clearance	4.5 ± 1.0 (0.18 ± 0.04)
Tront door - Near door	B-B	Surface height	± 1.0 (± 0.04)
Rear door - Body side outer	er C – C	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
ixear door - body side outer	0-0	Surface height	± 1.0 (± 0.04)

- 1. Remove front fender. Refer to <u>DLK-355</u>, "Removal and Installation".
- 2. Loosen front door hinge nuts (door side).
- 3. Adjust the surface height of front door according to the specifications provided.
- Temporarily tighten front door hinge nuts (door side).
- 5. Loosen front door hinge bolts (body side).
- 6. Raise front door at rear end to adjust clearance of the front door according to the specifications provided.
- After adjustment tighten bolts and nuts to the specified torque. CAUTION:
 - Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of front door hinge bolts and nuts.
- 8. Install front fender. Refer to refer to DLK-355, "Removal and Installation".

DOOR STRIKER

DOOR STRIKER: Removal and Installation

REMOVAL

Remove bolts and front door striker.

INSTALLATION

Installation is in the reverse order of removal.

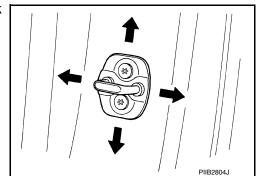
CAUTION:

- Do not reuse front door striker bolts.
- After installation, check front door open/close operation. If necessary, adjust the front door striker.
 Refer to <u>DLK-359</u>, "<u>DOOR STRIKER</u>: <u>Adjustment"</u>.
- Tighten bolts to specified torque. Refer to <u>DLK-357</u>, "Exploded View".

DOOR STRIKER: Adjustment

DOOR STRIKER ADJUSTMENT

- Loosen door striker bolts
- 2. Adjust door striker so that it becomes parallel with front door lock insertion direction.



Tighten door striker bolts to specification. Refer to <u>DLK-357, "Exploded View"</u>.

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Revision: November 2013 DLK-359 2014 Rogue NAM

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR HINGE: Removal and Installation

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REMOVAL

- 1. Remove front fender. Refer to <u>DLK-355</u>, "Removal and Installation".
- 2. Remove front door assembly. Refer to DLK-357, "DOOR ASSEMBLY: Removal and Installation".
- 3. Remove front door hinge bolts (body side) and front door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts/bolts to specified torque. Refer to <u>DLK-357</u>, "Exploded View".
- Apply anticorrosive agent to the hinge mating surface.
- After installation, check front door open/close and lock/unlock operation.
- Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After installation, perform the front door adjustment procedure. Refer to <u>DLK-358</u>, "<u>DOOR ASSEM-BLY</u>: <u>Adjustment</u>".

DOOR CHECK LINK

DOOR CHECK LINK: Removal and Installation

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REMOVAL

- 1. Fully close the front door window.
- Remove front door speaker. Refer to <u>AV-67</u>, "<u>Removal and Installation</u>" (DISPLAY AUDIO), <u>AV-213</u>, "<u>Removal and Installation</u>" (NAVIGATION WITHOUT BOSE) or <u>AV-381</u>, "<u>Removal and Installation</u>" (NAV-IGATION WITH BOSE).
- 3. Remove door check link bolt (body side).
- 4. Remove door check link bolts (door side).
- 5. Remove door check link through the hole in door assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts/bolts to specified torque. Refer to DLK-357, "Exploded View".
- After installation, check front door open/close and lock/unlock operation.
- Check door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.

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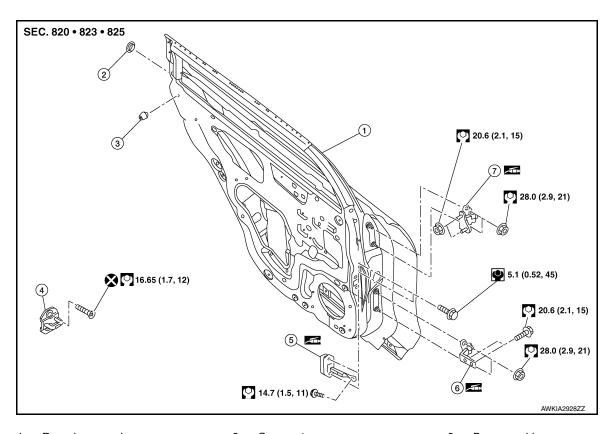
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REAR DOOR

Exploded View



- 1. Rear door panel
- 4. Door striker
- 7. Rear door upper hinge
- 2. Grommet
- 5. Door check link

- 3. Bumper rubber
- 6. Rear door lower hinge

DOOR ASSEMBLY

DOOR ASSEMBLY: Removal and Installation

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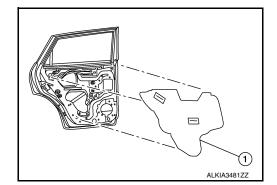
CAUTION:

- Use two people when removing or installing the rear door due to its heavy weight.
- When removing and installing rear door assembly, support rear door using a suitable tool.

REMOVAL

- Remove rear door finisher. Refer to <u>DLK-361</u>, "<u>DOOR ASSEMBLY</u>: <u>Removal and Installation</u>".
- Remove rear door vapor barrier (1). NOTE:

LH side shown; RH similar.



- 3. Disconnect the harness connectors from rear door.
- 4. Remove harness grommet from rear door, then pull out rear door harness from the rear door.

< REMOVAL AND INSTALLATION >

- 5. Remove rear door check link bolt (body side).
- Remove rear door hinge nuts (door side) and rear door assembly.

INSTALLATION

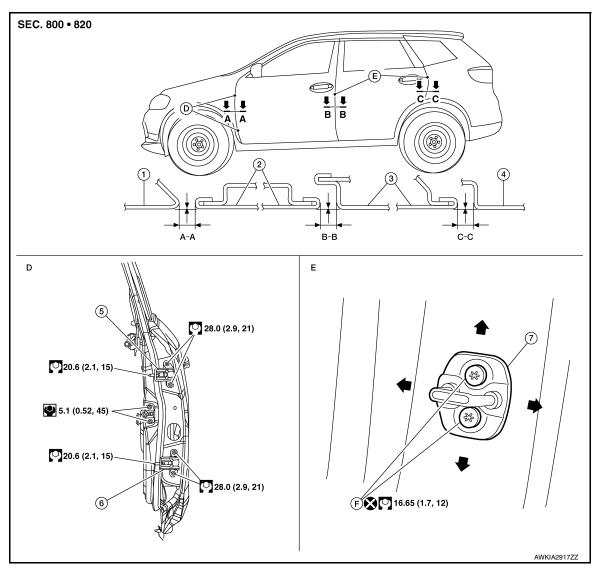
Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts/bolts to specification. Refer to <u>DLK-361, "Exploded View"</u>.
- · Apply anticorrosive agent where necessary.
- After installation, check rear door open/close and lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to <u>DLK-362</u>, "<u>DOOR ASSEMBLY</u>
 : <u>Adjustment</u>".

DOOR ASSEMBLY: Adjustment

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- 1. Front fender
- Body side outer
- 7. Rear door lower hinge
- 2. Front door
- Door striker
- F. Door striker bolts
- 3. Rear door
- 6. Rear door upper hinge

Check the clearance and surface height between rear door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

[WITHOUT INTELLIGENT KEY SYSTEM]

			Unit: mm (in)	
Portion	Section	Measurement	Standard	
Front fender - Front door	A – A	Clearance	4.0 ± 1.0 (0.16 ± 0.04)	
		Surface height	± 1.0 (± 0.04)	
Front door - Rear door	B – B	Clearance	4.3 ± 1.0 (0.17 ± 0.04)	
		Surface height	± 1.0 (± 0.04)	
Rear door - Body side outer	C – C	Clearance	3.7 ± 1.0 (0.15 ± 0.04)	
		Surface height	± 1.0 (± 0.04)	

- Remove center pillar lower finisher. Refer to <u>INT-22</u>, "<u>CENTER PILLAR LOWER FINISHER</u>: Removal and Installation".
- 2. Loosen rear door hinge nuts (door side).
- Adjust the surface height of rear door according to specifications provided.
- 4. Temporarily tighten rear door hinge nuts (door side).
- Loosen rear door hinge nuts and bolts (body side).
- 6. Raise rear door at rear end to adjust clearance of rear door according to the specifications provided.
- After adjustment tighten bolts and nuts to the specified torque. CAUTION:
 - Check rear door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
 - After adjusting, apply touch-up paint (body color) to the head of rear door hinge bolts and nuts.
- 8. Install center pillar lower finisher. Refer to INT-22, "CENTER PILLAR LOWER FINISHER: Removal and Installation".

DOOR STRIKER

DOOR STRIKER: Removal and Installation

REMOVAL

Remove bolts and rear door striker.

INSTALLATION

Installation is in the reverse order of removal.

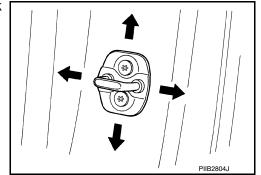
CAUTION:

- · Do not reuse rear door striker bolts.
- Tighten bolts to specification. Refer to <u>DLK-361, "Exploded View"</u>.
- After installation, check rear door open/close operation. If necessary, adjust the door striker. Refer to <u>DLK-363, "DOOR STRIKER: Adjustment"</u>.

DOOR STRIKER: Adjustment

DOOR STRIKER ADJUSTMENT

- 1. Loosen door striker bolts
- Adjust door striker so that it becomes parallel with front door lock insertion direction.



3. Tighten door striker bolts to specification. Refer to DLK-361, "Exploded View".

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REAR DOOR

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR HINGE

DOOR HINGE: Removal and Installation

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REMOVAL

- 1. Remove rear door assembly. Refer to DLK-361, "DOOR ASSEMBLY: Removal and Installation".
- Remove center pillar lower finisher (rear door lower hinge only). Refer to INT-22, "CENTER PILLAR LOWER FINISHER: Removal and Installation".
- 3. Remove rear door hinge bolts and nuts and rear door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts/bolts to specification. Refer to <u>DLK-361</u>, "Exploded View".
- Apply anticorrosive agent onto the hinge mating surface.
- After installation, check rear door open/close and lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to <u>DLK-362</u>, "<u>DOOR ASSEMBLY</u>: Adjustment".

DOOR CHECK LINK

DOOR CHECK LINK: Removal and Installation

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REMOVAL

- 1. Fully close the rear door window.
- Remove rear door speaker. Refer to <u>AV-68</u>, "<u>Removal and Installation</u>" (DISPLAY AUDIO), <u>AV-214</u>, "<u>Removal and Installation</u>" (NAVIGATION WITHOUT BOSE) or <u>AV-383</u>, "<u>Removal and Installation</u>" (NAV-IGATION WITH BOSE).
- 3. Remove rear door check link bolt (body side).
- 4. Remove rear door check link bolts (door side).
- 5. Remove rear door check link through the hole in rear door panel.

INSTALLATION

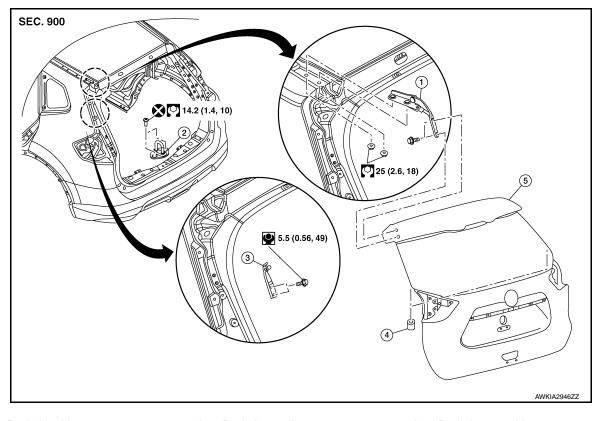
Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specification. Refer to DLK-361, "Exploded View".
- After installation, check rear door open/close and lock/unlock operation.
- Check rear door check link rotating point for poor lubrication. If necessary, apply a suitable multipurpose grease.

BACK DOOR

Exploded View



- Back door hinge
- Bumper rubber

- 2. Back door striker
- Back door

Back door stay hinge

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY: Removal and Installation

CAUTION:

Use two people when removing or installing the back door due to its heavy weight.

 Use shop cloths to protect surrounding components from damage during removal and installation of back door.

REMOVAL

1. Support the back door assembly using a suitable tool.

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Bodily injury may occur if back door assembly is not supported properly when removing the back door spindle unit.

- 2. Remove back door stays (LH/RH). Refer to DLK-264, "BACK DOOR STAY: Removal and Installation".
- Remove roof side moldings (LH/RH). Refer to EXT-39, "Removal and Installation".

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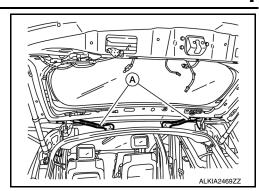
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BACK DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

4. Disconnect harness connectors (A) from back door.



- 5. Remove back door harness grommet, then pull harness from the back door.
- 6. Disconnect washer tube.
- 7. Remove washer tube grommet and washer tube from the back door.
- 8. Remove back door hinge bolts (door side) and back door assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specification. Refer to <u>DLK-365</u>, "Exploded View".
- Apply anticorrosive agent onto the surface between hinge and door side.
- When reusing stud ball, always apply locking sealant before installing stud ball to back door.
- After installation, perform the back door assembly adjustment procedure. Refer to <u>DLK-367, "BACK DOOR ASSEMBLY: Adjustment"</u>.
- Perform calibration of automatic back door position information. Refer to <u>DLK-103, "Work Procedure"</u>.

BACK DOOR ASSEMBLY: Adjustment

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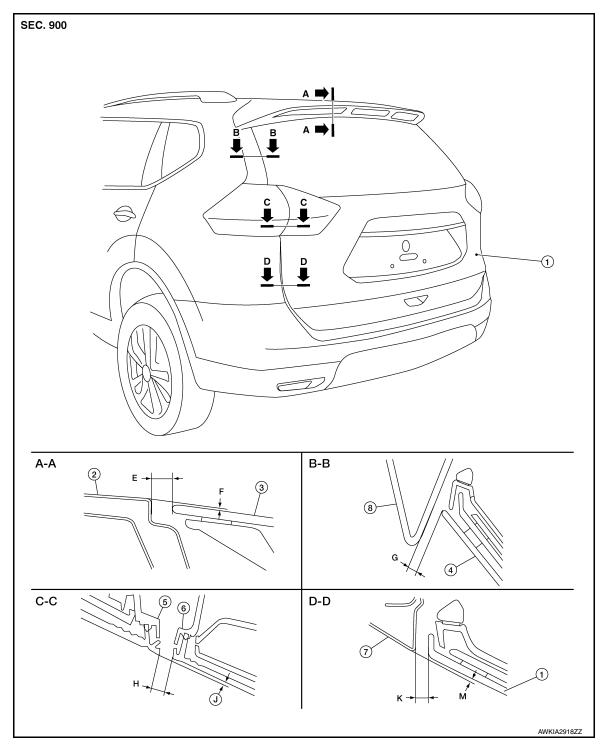
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- 1. Back door assembly
- 4. Back door glass
- Rear fender

procedure.

- 2. Roof panel
- 5. Rear combination lamp
- Side spoiler

- Rear spoiler
- 6. Back-up lamp

Check the clearance and the surface height between back door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment

[WITHOUT INTELLIGENT KEY SYSTEM]

					Unit: mm (in)
Portion	Section	Item	Measurement	Standard	Paraelleism
Roof panel – Rear spoiler	A – A	E	Clearance	$7.0 \pm 2.0 \; (0.28 \pm 0.08)$	2.0 (0.08)
		F	Surface height	$1.7 \pm 2.0 \; (0.07 \pm 0.08)$	2.0 (0.08)
Side spoiler – Back door glass	B – B	G	Clearance	$5.5 \pm 2.0 \; (0.22 \pm 0.08)$	2.0 (0.08)
		Н	Surface height	_	_
Rear combination lamp – Back-up lamp	C – C	J	Clearance	$4.5 \pm 2.0 \; (0.18 \pm 0.08)$	2.0 (0.08)
		K	Surface height	$2.2 \pm 2.0 \; (0.09 \pm 0.08)$	2.0 (0.08)
Rear fender – Back door	D – D	М	Clearance	$4.7 \pm 2.0 \; (0.19 \pm 0.08)$	2.0 (0.08)
		N	Surface height	$2.5 \pm 2.0 \; (0.10 \pm 0.08)$	2.0 (0.08)

- 1. Loosen back door hinge nuts (door side).
- 2. Lift up back door approximately 100 150 mm (3.94 5.91 in) height then close it lightly and check that it is engaged firmly with back door closed.
- 3. Check the clearance and surface height according to the specifications provided.
- 4. Tighten back door hinge nuts to specified torque.
 - **CAUTION:**
 - After installation, check back door open/close, lock/unlock operation.
 - Check back door hinge rotating point for poor lubrication. If necessary, apply a suitable multipurpose grease.
 - After adjusting, apply touch-up paint (body color) to the head of rear door hinge bolts and nuts.

BACK DOOR STRIKER

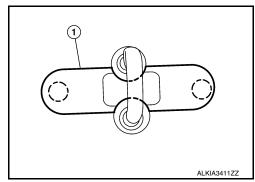
BACK DOOR STRIKER: Removal and Installation

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REMOVAL

1. Release back door striker cover (1) pawls using a suitable tool and remove.

(): Pawl



Remove bolts and back door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Do not reuse back door striker bolts.
- Tighten bolts to specification. Refer to <u>DLK-365, "Exploded View"</u>.
- After installation, check back door open/close operation. If necessary, adjust the door striker. Refer to DLK-368, "BACK DOOR STRIKER: Adjustment".

BACK DOOR STRIKER: Adjustment

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DOOR STRIKER ADJUSTMENT

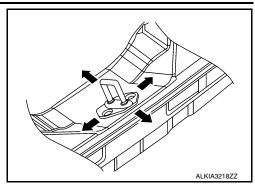
Loosen door striker bolts

BACK DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Adjust door striker so that it becomes parallel with front door lock insertion direction.



3. Tighten door striker bolts to specification. Refer to DLK-365, "Exploded View".

BACK DOOR HINGE

BACK DOOR HINGE: Removal and Installation

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REMOVAL

- 1. Remove back door assembly. Refer to DLK-365, "BACK DOOR ASSEMBLY: Removal and Installation".
- 2. Partially remove the rear of the headlining. Refer to INT-30, "Removal and Installation".
- 3. Remove nuts and back door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts to specification. Refer to <u>DLK-365, "Exploded View"</u>.
- Apply anticorrosive agent onto the surface between hinge and body side.
- After installation, perform the back door assembly adjustment procedure. Refer to <u>DLK-367</u>, "<u>BACK DOOR ASSEMBLY</u>: Adjustment".

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP: Removal and Installation

INFOID:0000000010282951

REMOVAL

Carefully remove back door weather-strip from opening door joint.

INSTALLATION

- 1. Beginning with upper section, align weather-strip mark with vehicle center position mark and install weather strip to the vehicle.
- For the lower section, align weather-strip seam with center of back door striker.

NOTE:

Pull weather-strip gently to ensure that there are no loose sections.

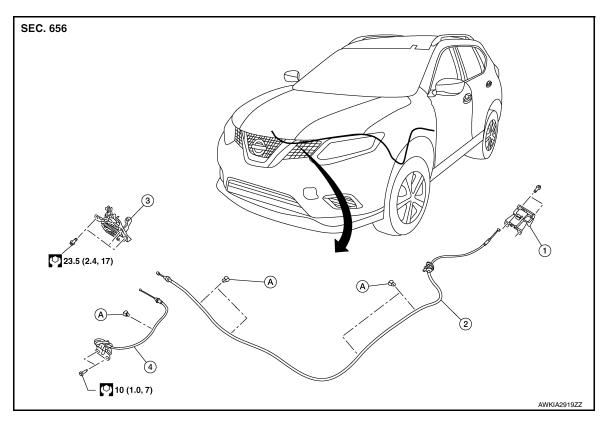
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HOOD LOCK

Exploded View



- 1. Hood lock release handle
- 2. Hood lock release cable
 - se cable 5.

Hood lock

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4. Secondary latch

A. Clip

HOOD LOCK

HOOD LOCK: Removal and Installation

REMOVAL

- 1. Disconnect hood lock release cable and secondary latch cable from hood lock.
- Remove bolts and hood lock.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specified torque. Refer to <u>DLK-370, "Exploded View"</u>.
- Check that hood lock release cable and secondary latch cable are properly engaged with hood lock.
- After installation, perform hood assembly adjustment procedure. Refer to <u>DLK-351</u>, "<u>HOOD ASSEM-BLY</u>: <u>Adjustment</u>".
- After adjusting, perform hood lock inspection. Refer to <u>DLK-370, "HOOD LOCK: Inspection"</u>.

HOOD LOCK: Inspection

NOTE:

If the hood lock cable is bent or deformed, replace it.

- Check that secondary latch is properly engaged with secondary striker with hoods own weight.
- 2. While operating hood lock release handle, carefully check that the front end of hood assembly is raised by approximately 20.0 mm (0.79 in). Also check that hood lock release handle returns to the original position.
- 3. Check that hood lock release handle operates at 49 N (5.0 kg-m, 11.0 ft-lb) or below.

HOOD LOCK

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- Install so that static closing force of hood is 315-490 N (32.1-50.0 kg-m, 70.8-110.2 ft-lb).
 NOTE:
 - Do not exert vertical force on right side and left side of hood lock.
 - · Do not press simultaneously on both sides.
- Check the hood lock lubrication condition. If necessary, apply a suitable multi-purpose grease to hood lock assembly.

SECONDARY LATCH

SECONDARY LATCH: Removal and Installation

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REMOVAL

- 1. Remove front grille. Refer to EXT-23, "Removal and Installation".
- Disconnect secondary latch cable from hood lock assembly.
- 3. Remove bolts and secondary latch.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specified torque. Refer to DLK-370, "Exploded View".
- Check that secondary latch cable is properly engaged with hood lock.

HOOD LOCK RELEASE CABLE

HOOD LOCK RELEASE CABLE: Removal and Installation

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REMOVAL

- 1. Remove fender protector (LH). Refer to EXT-28, "FENDER PROTECTOR: Removal and Installation".
- Remove front grille. Refer to <u>EXT-23</u>, "Removal and Installation".
- 3. Disconnect hood lock release cable from hood lock release handle and hood lock.
- 4. Release hood lock release cable clips using a suitable tool.
- Remove grommet on the lower dash and carefully pull the hood lock release cable into the passenger compartment.

CAUTION:

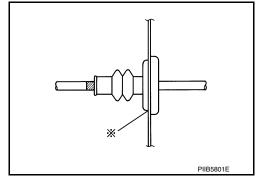
While pulling, be careful not to damage (peel) the outside of hood lock release cable.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Be careful not to bend cable too much, keep the radius 100 mm (3.94 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 release cable is properly engaged with hood lock assembly.
- After installation, perform hood assembly adjustment procedure. Refer to <u>DLK-351</u>, "<u>HOOD ASSEM-BLY</u>: <u>Adjustment</u>".
- After adjusting, perform hood lock inspection. Refer to <u>DLK-370, "HOOD LOCK: Inspection"</u>.
 HOOD LOCK RELEASE HANDLE

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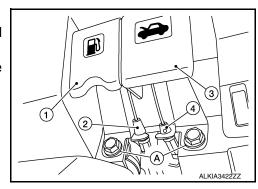
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HOOD LOCK RELEASE HANDLE: Removal and Installation

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REMOVAL

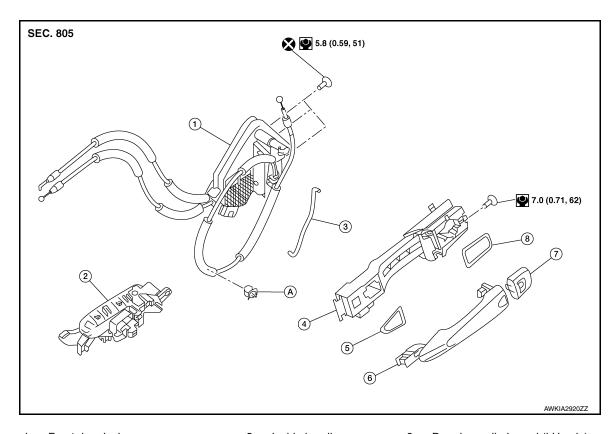
- 1. Remove fuel filler lid/hood lock release handle bolts (A).
- 2. Disconnect fuel filler lid release cable (2) from fuel filler lid release handle (1).
- 3. Disconnect hood lock release cable (4) from hood lock release handle (3).
- 4. Remove hood lock release handle.



INSTALLATION

Installation is in the reverse order of removal.

Exploded View



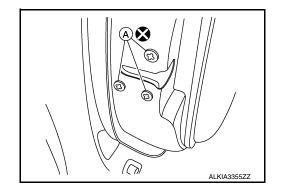
- 1. Front door lock
- 4. Outside handle bracket
- 7. Outside handle escutcheon / door key 8. cylinder (LH only)
- 2. Inside handle
- 5. Front gasket
 - Rear gasket
- 3. Door key cylinder rod (LH only)
- 6. Outside handle
- A. Clip

DOOR LOCK

DOOR LOCK: Removal and Installation

REMOVAL

- 1. Remove front door finisher. Refer to INT-15, "Removal and Installation".
- Remove vapor barrier.
- 3. Remove front door lock bolts (A).



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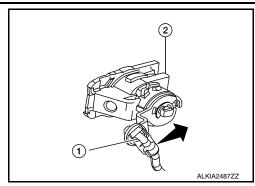
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< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

4. Disconnect door key cylinder rod (LH only) (1) from front door lock (2) (LH only).



- 5. Disconnect door lock cables from inside handle and outside handle...
- Disconnect the harness connector from the front door lock and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

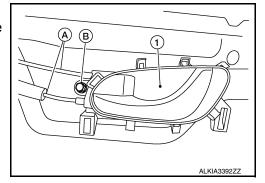
- · Do not reuse front door lock bolts.
- Tighten bolts to specification. Refer to <u>DLK-373, "Exploded View"</u>.
- After installation, check door lock cables are properly engaged to inside handle and outside handle bracket.
- When installing door key cylinder rod (LH only), be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check door open/close and lock/unlock operation.
- Check door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease. INSIDE HANDLE

INSIDE HANDLE: Removal and Installation

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REMOVAL

- Remove front door finisher. Refer to INT-15, "Removal and Installation".
- 2. Remove inside handle bolt (B).
- 3. Disconnect the door lock cables (A) and remove inside handle (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check door lock cables are properly engaged to inside handle.
- After installation, check door open/close and lock/unlock operation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

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REMOVAL

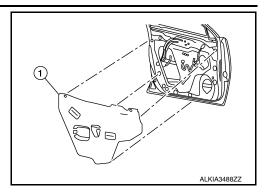
- 1. Fully close front door glass.
- Remove front door finisher. Refer to <u>INT-15, "Removal and Installation"</u>.

< REMOVAL AND INSTALLATION >

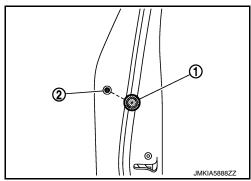
[WITHOUT INTELLIGENT KEY SYSTEM]

3. Remove front door vapor barrier (1). **NOTE:**

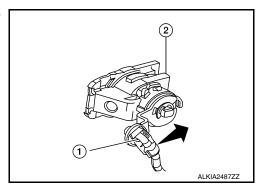
LH side shown; RH similar.



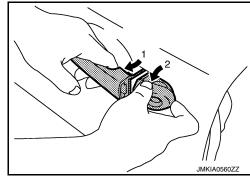
4. Remove door side grommet (1), and remove bolt from grommet hole (2).



5. Separate door key cylinder rod (LH only) (1) from door key cylinder assembly (LH only) (2).



6. While pulling (1) outside handle, remove (2) door key cylinder assembly (LH side) or outside handle escutcheon (RH side).



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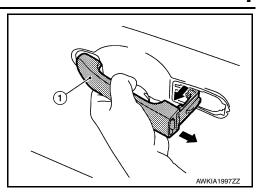
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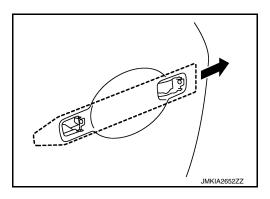
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

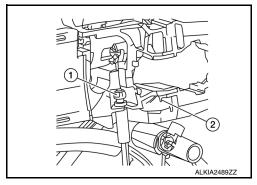
7. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



- 8. Remove front gasket and rear gasket.
- 9. Slide outside handle bracket toward rear of vehicle to remove.



10. Disconnect outside handle cable (1) from outside handle bracket (2) as shown.



INSTALLATION

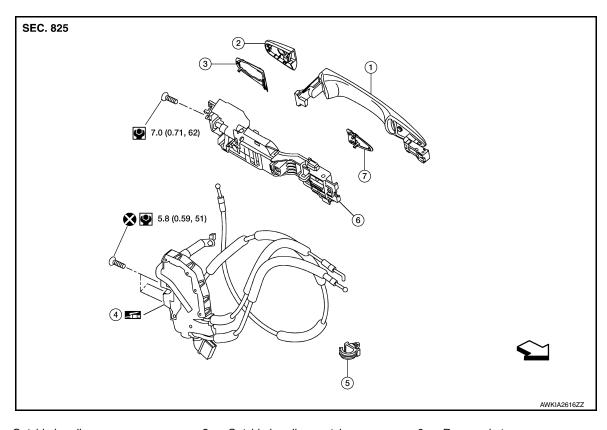
Installation is in the reverse order of removal.

CAUTION:

- When installing door key cylinder rod (LH only), be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check door lock cable is properly engaged to outside handle bracket.
- After installation, check door open/close and lock/unlock operation.

REAR DOOR LOCK

Exploded View



- 1. Outside handle
- 4. Rear door lock
- 7. Front gasket

- 2. Outside handle escutcheon
- 5. Cable clip
- ← Front

- 3. Rear gasket
- 6. Outside handle bracket

DOOR LOCK

DOOR LOCK: Removal and Installation

REMOVAL

- 1. Remove rear door finisher. Refer to INT-18, "Removal and Installation".
- 2. Remove vapor barrier.
- Remove rear door lock bolts.
- 4. Disconnect the door lock cables.
- Disconnect the harness connector from the rear door lock and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- · Do not reuse rear door lock bolts.
- Tighten bolts to specification. Refer to <u>DLK-377</u>, "Exploded View".
- After installation, check door lock cables are properly engaged to inside handle and outside handle.
- After installation, check door open/close and lock/unlock operation.

INSIDE HANDLE

INSIDE HANDLE: Removal and Installation

REMOVAL

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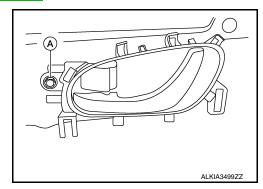
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REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- Remove rear door finisher. Refer to <u>INT-18</u>, "Removal and Installation".
- 2. Remove inside handle bolt (A).



3. Disconnect door lock cables from inside handle and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check door lock cables are properly engaged to inside handle.
- After installation, check door open/close and lock/unlock operation.

OUTSIDE HANDLE

OUTSIDE HANDLE: Removal and Installation

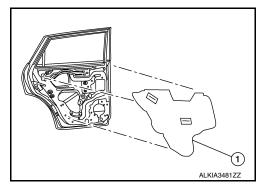
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REMOVAL

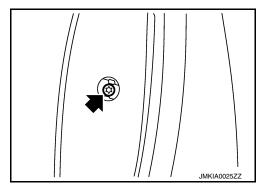
- 1. Fully close rear door glass.
- 2. Remove rear door finisher. Refer to INT-18, "Removal and Installation".
- 3. Remove rear door vapor barrier (1).

NOTE:

LH side shown; RH similar.



4. Remove door side grommet and bolt from grommet hole.

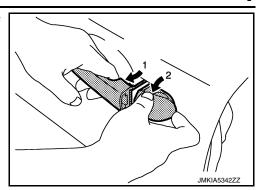


REAR DOOR LOCK

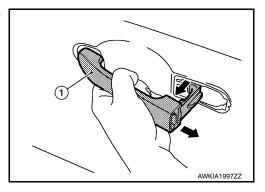
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

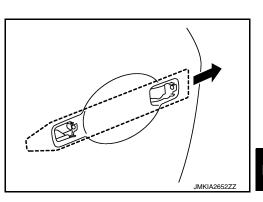
5. While pulling (1) outside handle, remove (2) outside handle escutcheon.



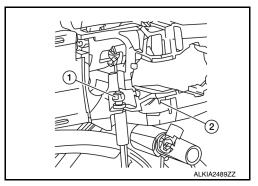
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



- 7. Remove front gasket and rear gasket.
- 8. Slide outside handle bracket toward rear of vehicle to remove.



9. Disconnect outside handle cable (1) from outside handle bracket (2) as shown.



INSTALLATION

Installation in the reverse order of removal.

CAUTION:

- After installation, check door lock cable is properly engaged to outside handle bracket.
- After installation, check door open/close and lock/unlock operation.

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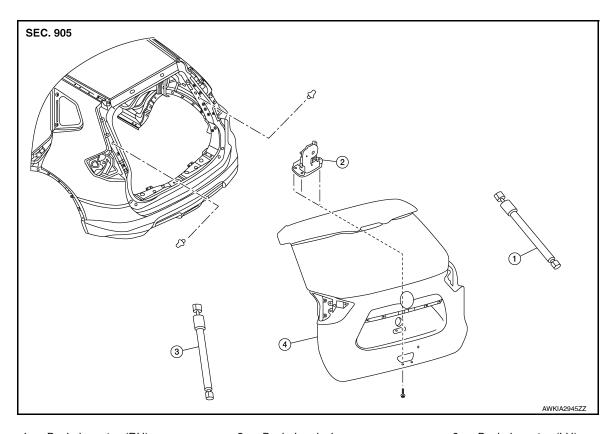
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BACK DOOR LOCK

Exploded View



- 1. Back door stay (RH)
- 2. Back door lock

Back door stay (LH)

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4. Back door

DOOR LOCK

DOOR LOCK: Removal and Installation

REMOVAL

- Remove back door finisher. Refer to <u>INT-38</u>, "Removal and Installation".
- 2. Disconnect the harness connector from the back door lock.
- 3. Remove bolts and back door lock.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specification. Refer to <u>DLK-380, "Exploded View"</u>.
- After installation, check back door open/close and lock/unlock operation.

BACK DOOR STAY

BACK DOOR STAY: Removal and Installation

REMOVAL

1. Support the back door using a suitable tool.

WARNING:

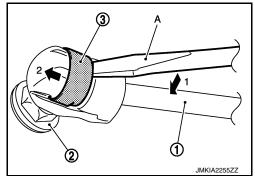
Body injury may occur if no supporting rod is holding the back door open when removing the back door stay.

BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- 2. Release the metal clip (3) located on the connection between the back door stay (1) and the stud ball (2) (back door side) using a suitable tool (A).
- 3. Remove the back door stay (back door side).



4. Repeat procedure for removing back door stay from body side.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check the back door open/close operation.

EMERGENCY LEVER

EMERGENCY LEVER: Unlock procedures

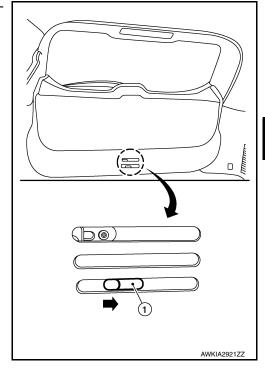
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UNLOCK PROCEDURES

NOTE:

If back door lock cannot be unlocked due to a malfunction or battery discharge, perform the following procedures to unlock back door assembly.

From inside the vehicle, rotate emergency lever (1) in the direction shown to unlock.



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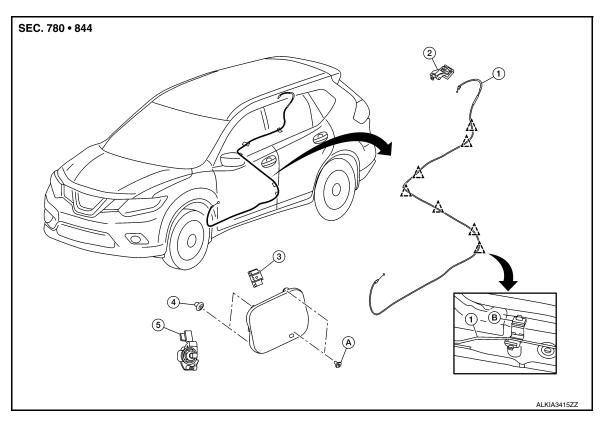
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FUEL FILLER LID OPENER

Exploded View



- 1. Fuel filler lid release cable
- 4. Bumper rubber

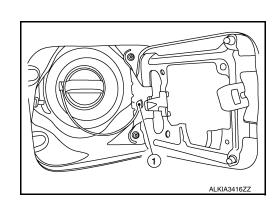
- 2. Fuel filler lid release handle
- 5. Fuel filler lid lock
- 3. Spring
- A. Screw

FUEL FILLER LID

FUEL FILLER LID: Removal and Installation

REMOVAL

1. Remove fuel cap pin (1).



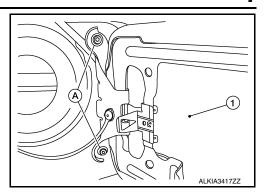
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FUEL FILLER LID OPENER

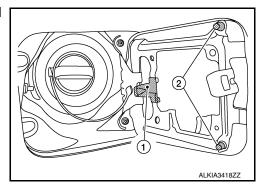
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

2. Remove screws(2) and fuel filler lid (1).



3. Remove fuel filler lid spring (1) and bumper rubber (2) from fuel filler lid (if necessary).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid open/close, lock/unlock operation.

FUEL FILLER LID LOCK

FUEL FILLER LID LOCK: Removal and Installation

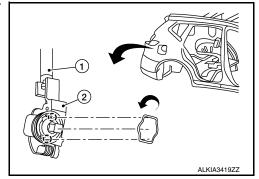
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REMOVAL

Remove luggage side lower finisher (RH). Refer to <u>INT-34, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation - With Third Row Seat"</u> (With Third Row Seat) or <u>INT-35, "LUGGAGE SIDE LOWER FINISHER: Removal and Installation - Without Third Row Seat"</u> (Without Third Row Seat).

2. Disconnect the fuel filler lid release cable (1) from the fuel filler lid lock (2).

Rotate fuel filler lid lock to release pawls and remove.
 Pawl



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid open/close, lock/unlock operation.

FUEL FILLER LID RELEASE CABLE

FUEL FILLER LID RELEASE CABLE : Removal and Installation

REMOVAL

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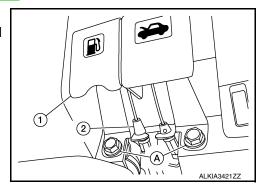
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FUEL FILLER LID OPENER

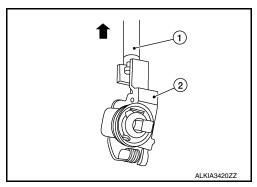
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- Partially remove front floor trim. Refer to <u>INT-26, "Removal and Installation"</u>.
- 2. Remove rear floor trim. Refer to INT-26, "Removal and Installation".
- 3. Remove the fuel filler lid/hood lock release handle bolts (A)
- 4. Disconnect the fuel filler lid release cable (2) from fuel filler lid release handle (1).



Disconnect the fuel filler lid release cable (1) from fuel filler lid lock (2).



6. Release the clips and remove fuel filler lid release cable.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

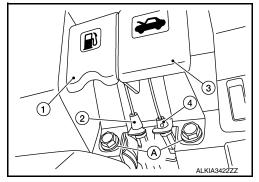
After installation, check fuel filler lid open/close, lock/unlock operation. FUEL FILLER LID RELEASE HANDLE

FUEL FILLER LID RELEASE HANDLE: Removal and Installation

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REMOVAL

- 1. Remove fuel filler lid/hood lock release handle bolts (A).
- 2. Disconnect fuel filler lid release cable (2) from fuel filler lid release handle (1).
- 3. Disconnect hood lock release cable (4) from hood lock release handle (3).
- 4. Remove fuel filler lid release handle.



INSTALLATION

Installation is in the reverse order of removal.

DOOR SWITCH

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

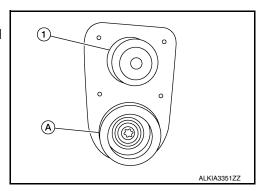
DOOR SWITCH

Removal and Installation

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REMOVAL

- 1. Remove the door switch bolt (A).
- 2. Disconnect the harness connector from the door switch (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

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BACK DOOR WARNING CHIME

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

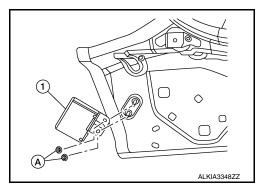
BACK DOOR WARNING CHIME

Removal and Installation

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REMOVAL

- 1. Remove the rear bumper fascia. Refer to EXT-20, "Removal and Installation".
- 2. Disconnect the harness connector from the back door warning chime.
- 3. Remove nuts (A) and back door warning chime (1).



INSTALLATION

Installation is in the reverse order of removal.

KEYFOB BATTERY

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

KEYFOB BATTERY

Removal and Installation

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REPLACEMENT

- 1. Remove screw from the rear of keyfob.
- 2. Place the key with the lower case facing up. Use a suitable tool wrapped with tape between upper case and lower case and separate the lower case from the upper case.
 - **CAUTION:**
 - Do not touch the circuit board or battery terminal. Doing so could cause the keyfob to malfunction
 - The keyfob is water-resistant. However, if it does get wet, immediately wipe it dry.
- When replacing the circuit board assembly, remove circuit board assembly from the upper case. [Circuit board assembly: Switch rubber + Board surface]
 CAUTION:

Do not touch the printed circuits directly.

4. Remove the battery from the lower case and replace it.

Battery replacement : Coin-type lithium battery (CR1620)

CAUTION:

When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.

After replacement, fit the lower and upper cases together and tighten with the screw. CAUTION:

After replacing the battery, Be sure to check that door locking operates normally using the keyfob. Refer to <u>DLK-333</u>, "Component Function Check".

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