

SECTION **DLK** DOOR & LOCK

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

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

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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

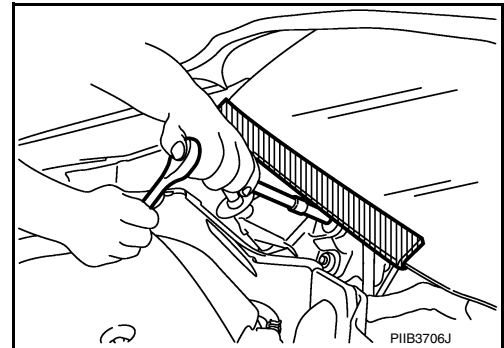
WARNING:

- 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.

Procedure without Cowl Top Cover

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



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.

PRECAUTIONS

< PRECAUTION >

- 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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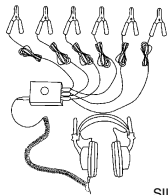
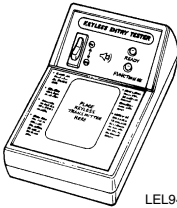
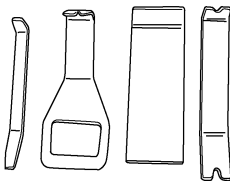
PREPARATION

PREPARATION

Special Service Tools

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

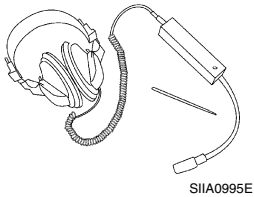
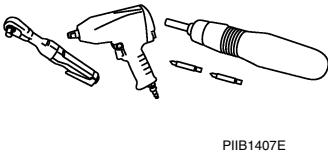
Tool number (Kent-Moore No.) Tool name	Description
— (J-39570) Chassis Ear  SIIA0993E	Locating the noise
— (J-50397) NISSAN Squeak and Rattle Kit  ALJIA1232ZZ	Repairing the cause of noise
— (J-43241) Remote Keyless Entry Tester  LEL946A	Used to test keyfobs
— (J-50190) Signal Tech II  ALEIA0131ZZ	• Check Intelligent Key relative signal strength • Confirm vehicle Intelligent Key antenna signal strength
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tools

INFOID:000000009486706

PREPARATION

< PREPARATION >

(Kent-Moore No.) Tool name	Description
(J-39565) Engine Ear  SIIA0995E	Locating the noise
(—) Power Tool  PIIB1407E	Loosening nuts, screws and bolts

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COMPONENT PARTS

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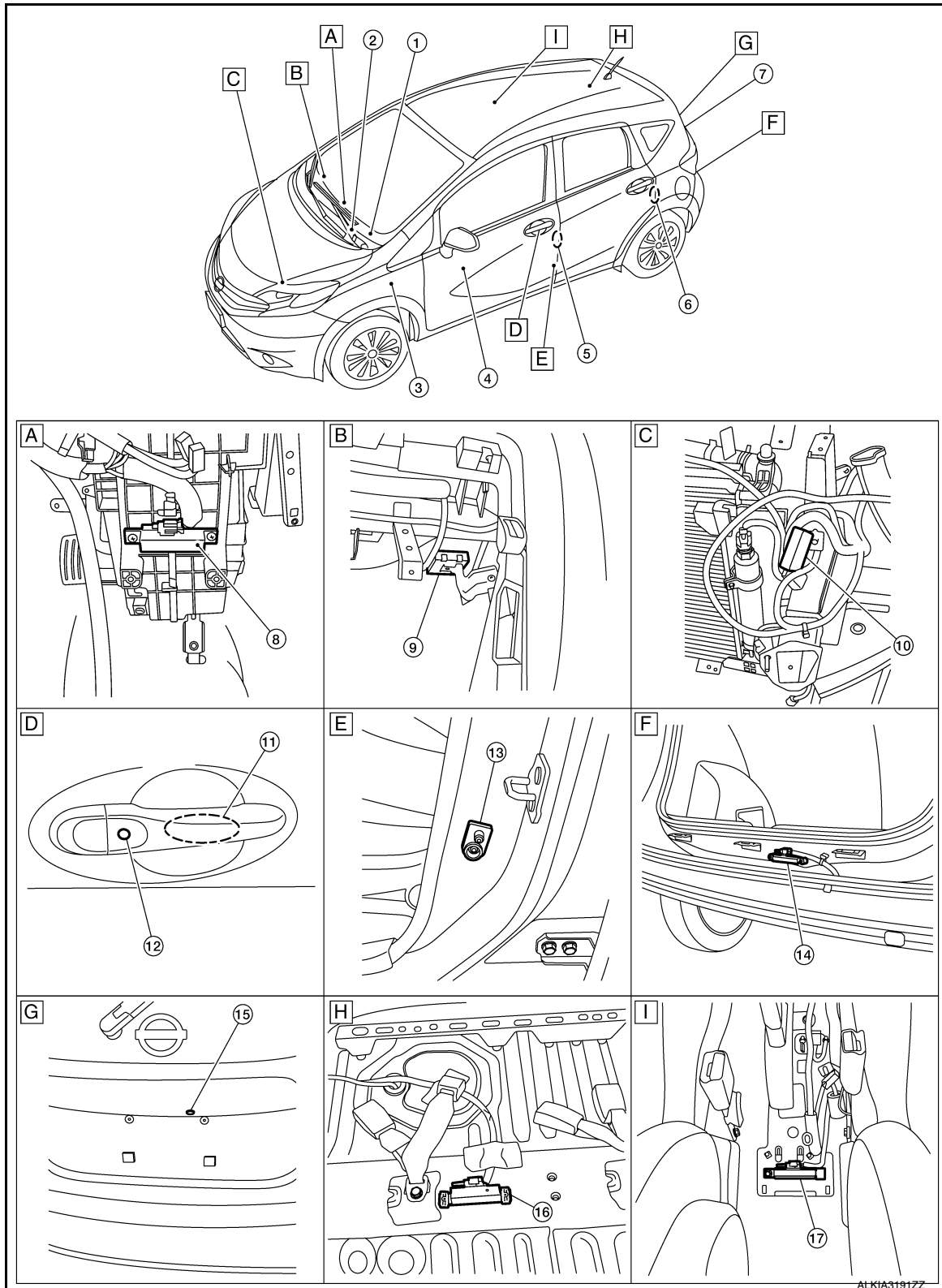
SYSTEM DESCRIPTION

COMPONENT PARTS

DOOR LOCK SYSTEM

DOOR LOCK SYSTEM : Component Parts Location

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

- A. View with instrument panel assembly removed B. View with glove box door removed C. View with front grill removed
- D. View of LH door. (RH similar) E. View of LH door switch (RH similar) F. View with rear bumper cover removed
- G. View from rear of vehicle H. View with rear seat cushion removed I. View with center console removed

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 : Combination Meter" .
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.	BCM	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 push-button 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-4, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
4.	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-6, "Power Window Main Switch" .
5.	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-14, "DOOR LOCK SYSTEM : Front Door Lock Assembly (Driver Side)" .
6.	Rear door lock actuator LH	Rear door lock actuator locks/unlocks the rear door latch assembly.
7.	Back door lock actuator	Back door lock actuator locks/unlocks the back door latch assembly.

COMPONENT PARTS

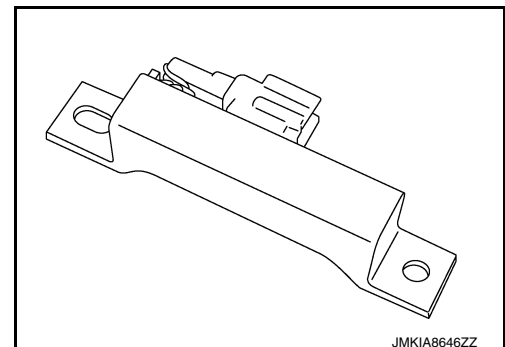
< SYSTEM DESCRIPTION >

No.	Component	Function
8.	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-12. "DOOR LOCK SYSTEM : Inside Key Antenna (Instrument Center)" .
9.	Remote keyless entry receiver	Remote keyless entry receiver receives button operation signal and key ID signal of Intelligent Key, and then transmits them to the BCM. Refer to DLK-14. "DOOR LOCK SYSTEM : Remote Keyless Entry Receiver" .
10.	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. Refer to DLK-14. "DOOR LOCK SYSTEM : Intelligent Key Warning Buzzer" .
11.	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-13. "DOOR LOCK SYSTEM : Outside Key Antenna (Driver Side)" .
12.	Door request switch	Door request switch transmits door lock/unlock request signal to the BCM.
13.	Door switch	Door switch detects door open/close condition and then transmits ON/OFF signal to BCM.
14.	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-13. "DOOR LOCK SYSTEM : Outside Key Antenna (Rear Bumper)" .
15.	Back door request switch	Back door request switch transmits door lock/unlock request signal to the BCM.
16.	Inside key antenna (trunk room)	Inside key antenna (trunk room) detects whether Intelligent Key is inside the vehicle or not, and then transmits the signal to the BCM. Refer to DLK-13. "DOOR LOCK SYSTEM : Inside Key Antenna (Trunk Room)" .
17.	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-13. "DOOR LOCK SYSTEM : Inside Key Antenna (Console)" .

DOOR LOCK SYSTEM : Inside Key Antenna (Instrument Center)

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- 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 (instrument center) is installed in the rear of cluster lid C of instrument center.



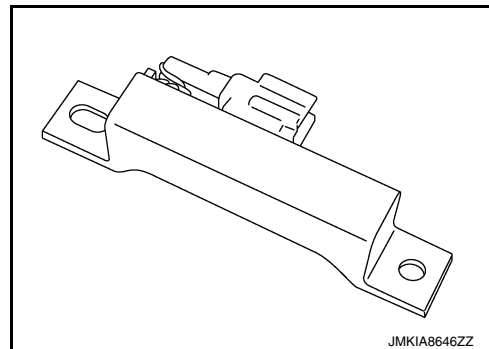
COMPONENT PARTS

< SYSTEM DESCRIPTION >

DOOR LOCK SYSTEM : Inside Key Antenna (Console)

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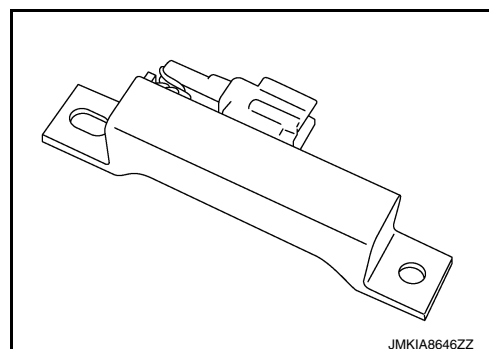
- Inside key antenna (console) detects that Intelligent Key is within the inside detection area, and then transmits detection status to BCM.
- Inside key antenna (console) is installed underneath the center console.



DOOR LOCK SYSTEM : Inside Key Antenna (Trunk Room)

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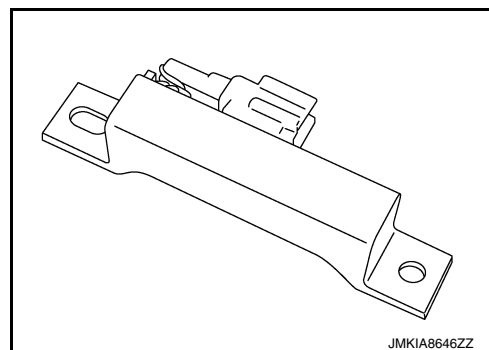
- Inside key antenna (trunk room) detects that Intelligent Key is within the inside detection area, and then transmits detection status to BCM.
- Inside key antenna (trunk room) is installed under the rear seat cushion.



DOOR LOCK SYSTEM : Outside Key Antenna (Rear Bumper)

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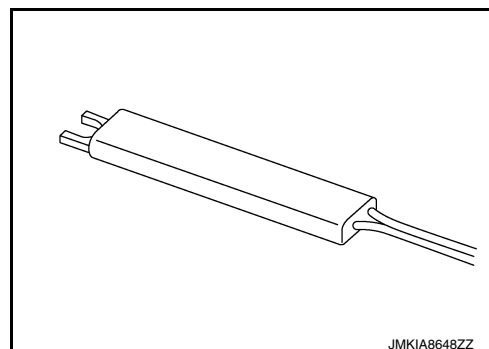
- Outside key antenna (rear bumper) detects that Intelligent Key is within the outside detection area, and then transmits detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.
- Outside key antenna (rear bumper) is installed in the rear of rear bumper.



DOOR LOCK SYSTEM : Outside Key Antenna (Driver Side)

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



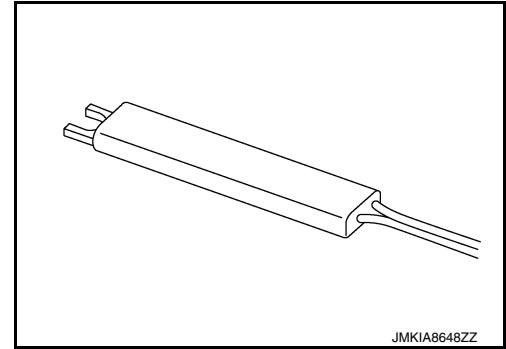
COMPONENT PARTS

< SYSTEM DESCRIPTION >

DOOR LOCK SYSTEM : Outside Key Antenna (Passenger Side)

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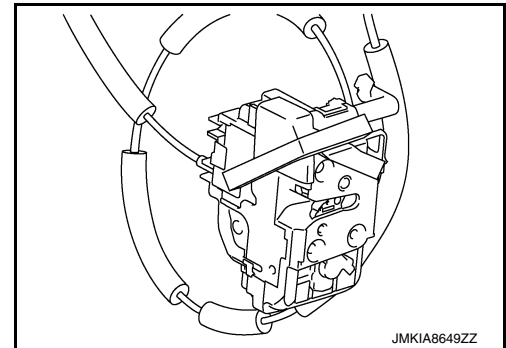
- Outside key antenna (passenger side) detects that Intelligent Key is within the outside detection area, and then transmits detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.
- Outside key antenna (passenger side) is installed in driver side outside handle.



DOOR LOCK SYSTEM : Front Door Lock Assembly (Driver Side)

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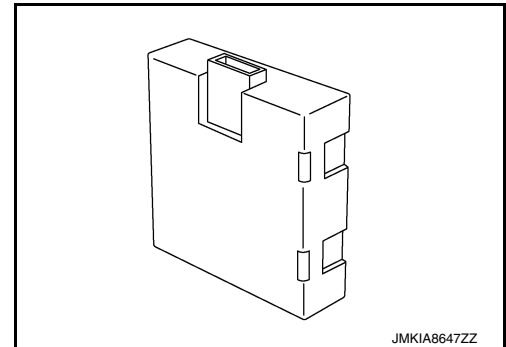
- Door lock actuator and unlock sensor are Integrated in driver door lock assembly.
- Door lock actuator receives lock/unlock signal from BCM, and then locks/unlocks driver door.
- Only front door lock assembly (driver side) integrates unlock sensor. Unlock sensor transmits lock/unlock status of driver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



DOOR LOCK SYSTEM : Remote Keyless Entry Receiver

INFOID:000000009516564

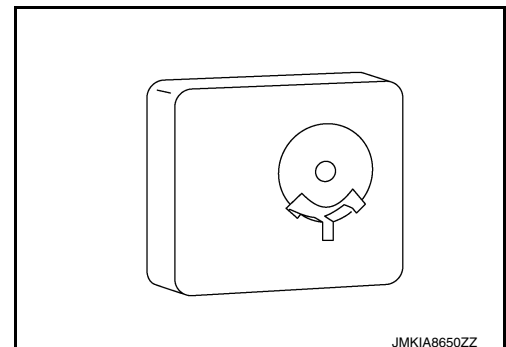
- Remote keyless entry receiver receives button operation signal and key ID signal of Intelligent Key, and then transmits them to BCM.
- Remote keyless entry receiver is installed in the rear of glove box lid.



DOOR LOCK SYSTEM : Intelligent Key Warning Buzzer

INFOID:000000009516565

- 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 underneath headlight RH.



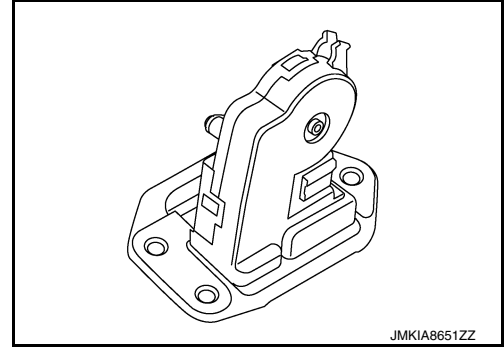
COMPONENT PARTS

< SYSTEM DESCRIPTION >

DOOR LOCK SYSTEM : Back Door Lock Assembly

INFOID:000000009516566

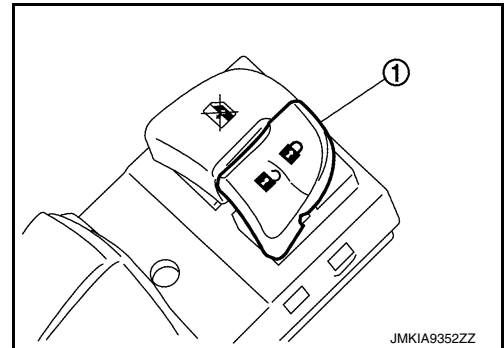
- Back door lock assembly lock assembly integrates door lock actuator and back door latch.
- Door lock actuator locks/unlocks the back door according to the door lock/unlock signal from BCM.



DOOR LOCK SYSTEM : Door Lock and Unlock Switch

INFOID:000000009516567

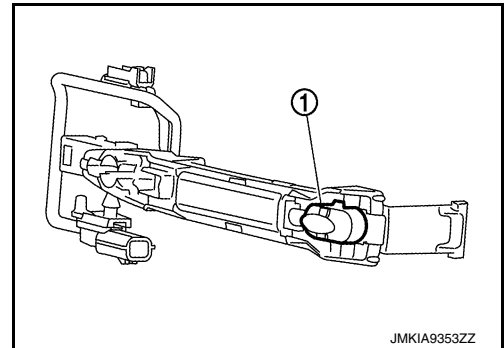
- Door lock and unlock switch transmits door lock/unlock signal operation to BCM.
- Door lock and unlock switch (1) is integrated in the power window main switch and front power window switch (passenger side).



DOOR LOCK SYSTEM : Front Door Request Switch (Driver Side)

INFOID:000000009516568

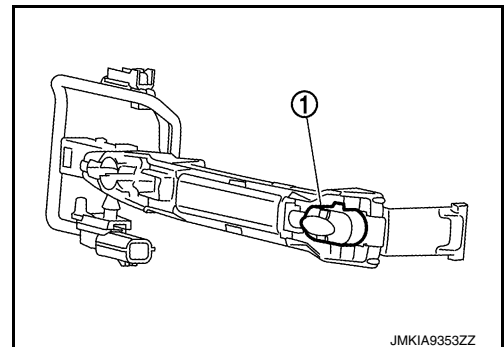
- Front door request switch (driver side) transmits door request switch signal to BCM.
- Front door request switch (driver side) (1) is integrated in driver side outside handle.



DOOR LOCK SYSTEM : Front Door Request Switch (Passenger Side)

INFOID:000000009516569

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



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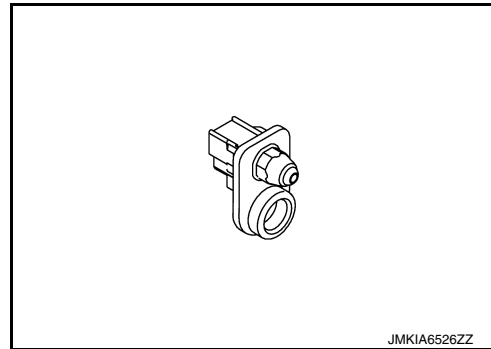
COMPONENT PARTS

< SYSTEM DESCRIPTION >

DOOR LOCK SYSTEM : Door Switch

INFOID:000000009516570

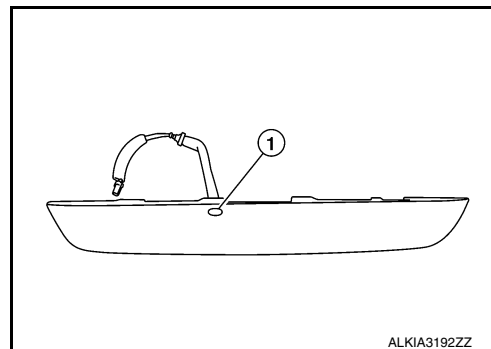
Door switch detects open/close status of door and transmits door switch signal to BCM.



DOOR LOCK SYSTEM : Back Door Request Switch

INFOID:000000009516571

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

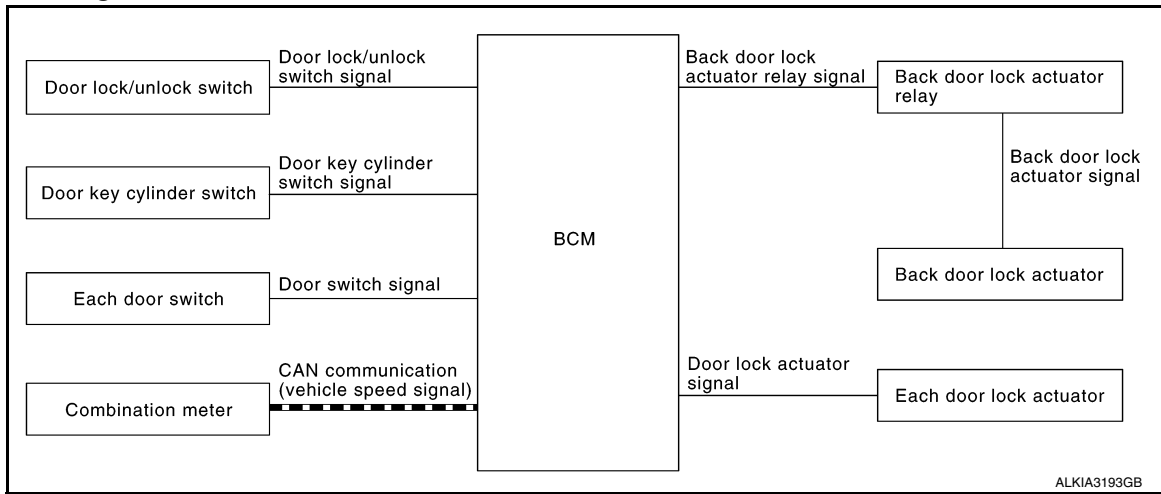


SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

SYSTEM (POWER DOOR LOCK SYSTEM)

System Diagram



System Description

INFOID:000000009516452

Input	Single	Function	Actuator
Door lock/unlock switch	Door lock/unlock signal	Door lock function	• Each door lock actuator
Door key cylinder switch			
Each door switch	Door open/close signal	Key reminder function	
Combination meter.	Warning buzzer signal		
	Vehicle speed signal	Automatic door lock/unlock function	

DOOR LOCK FUNCTION

- The door lock and unlock switch (driver side) is built into power window main switch.
- The door lock and unlock switch (passenger side) is on door trim.
- 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 are unlocked.

Door Key Cylinder

- With the door key inserted in the door key cylinder on driver side, turning it to “LOCK”, will lock door lock actuator of all doors.
- With the door key inserted in the door key cylinder on driver side, turning it to “UNLOCK” once unlocks the driver side door lock actuator; turning it to “UNLOCK” 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 “AUTO LOCK SET” mode in “WORK SUPPORT”. Refer to [BCS-17, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

AUTOMATIC DOOR LOCKS (LOCK OPERATION)

The automatic door locks function is the function that locks all doors linked with the vehicle speed or shift position.

Vehicle Speed Sensing Auto Door Lock*1

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.

If a door is opened and closed at any time during one ignition cycle (OFF → ON), even after initial auto door lock operation has taken place, the BCM will re-lock all doors when the vehicle speed reaches 24 km/h (15 MPH) or more again.

SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

Setting change of Automatic Door Locks (LOCK) Function

The LOCK operation setting of the automatic door locks function can be changed.

Ⓟ **With CONSULT**

The ON/OFF switching of the automatic door locks (LOCK) function and the type selection of the automatic door locks (LOCK) function can be performed at the WORK SUPPORT setting of CONSULT. Refer to [BCS-17, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

ⓧ **Without CONSULT**

The automatic door locks (LOCK) function can be switched ON/OFF by performing the following operation.

1. Close all doors (door switch OFF)
2. Push the ignition switch to the ON position
3. 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 is completed when the hazard lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

5. The ignition switch must be turned OFF and ON again between each setting change.

AUTOMATIC DOOR LOCKS (UNLOCK OPERATION)

The automatic door locks (UNLOCK) function is the function that unlocks all doors linked with the key position or shift position.

IGN OFF Interlock Door Unlock^{*1}

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.

Setting change of Automatic Door Locks (UNLOCK) Function

The UNLOCK operation setting of the automatic door locks function can be changed.

Ⓟ **With CONSULT**

The ON/OFF switching of the automatic door locks (UNLOCK) function and the type selection of the automatic door locks (UNLOCK) function can be performed at the WORK SUPPORT setting of CONSULT. Refer to [BCS-17, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

ⓧ **Without CONSULT**

The automatic door locks (UNLOCK) function can be switched ON/OFF by performing the following operation.

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

OFF → ON : 2 blinks

ON → OFF : 1 blink

5. The ignition switch must be turned OFF and ON again between each setting change.

^{*1}: This function is set to ON before delivery.

SYSTEM (INTELLIGENT KEY SYSTEM)

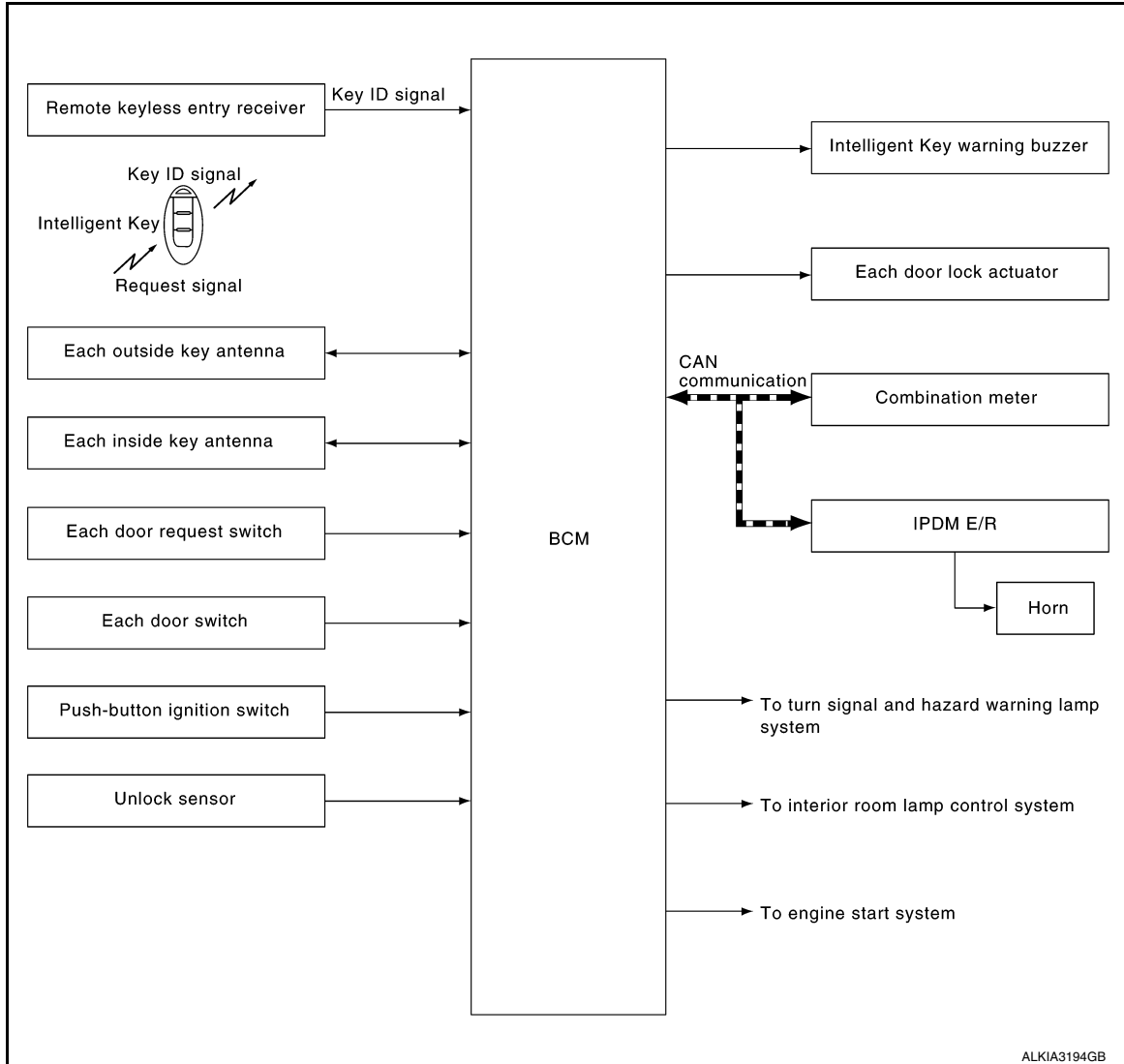
< SYSTEM DESCRIPTION >

SYSTEM (INTELLIGENT KEY SYSTEM) INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Description

INFOID:000000009516518

SYSTEM DIAGRAM



SYSTEM DESCRIPTION

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

NOTE:

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

Function	Description	Refer
Door lock	Lock/unlock can be performed by pressing the request switch	DLK-20
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key	DLK-22

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

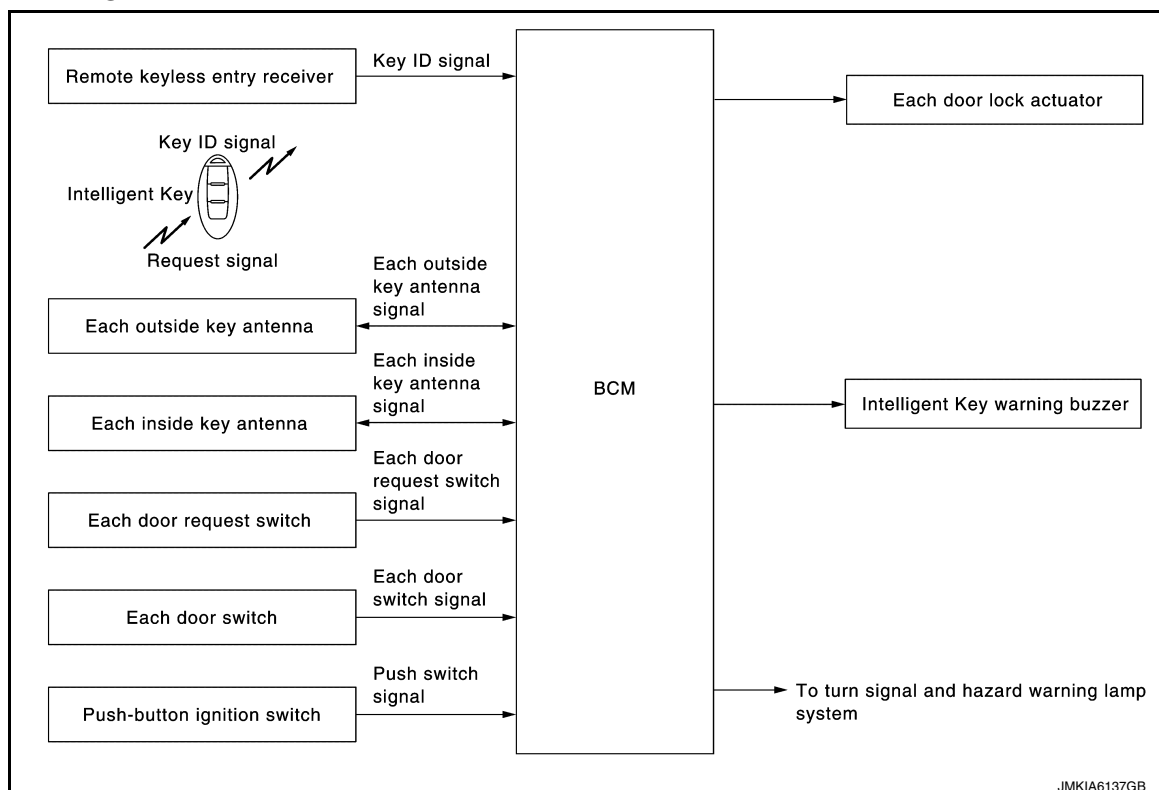
Function	Description	Refer
Key reminder	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle	DLK-24
Warning	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver	DLK-24
Engine start	The engine can be turned on while carrying the Intelligent Key	DLK-19
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state	INL-7

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Description

INFOID:000000009516519

SYSTEM DIAGRAM



DOOR REQUEST SWITCH OPERATION

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

OPERATION DESCRIPTION

- When the BCM detects that each door request switch is pressed, it starts the outside key antenna and inside key antenna corresponding to the pressed door request switch and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM transmits door lock/unlock signal and operates each door lock actuator. At the same time, BCM blinks hazard warning lamp (lock: 1 time, unlock: 2 times) and sounds Intelligent Key buzzer (lock: 1 time, unlock: 2 times) as a reminder.

OPERATION CONDITION

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

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

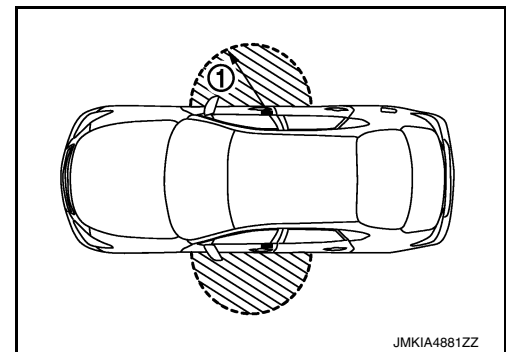
Each request switch operation	Operation condition
Lock	• All doors are closed • Ignition switch is in the LOCK or OFF position • Intelligent Key is outside the vehicle • Intelligent Key is within outside key antenna detection area • P position warning is not activated
Unlock	• All doors are closed • Ignition switch is in the LOCK or OFF position • Intelligent Key is outside the vehicle • Intelligent Key is within outside key antenna detection area *

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

Door lock function can be changed using “LOCK/UNLOCK BY I-KEY” mode in “WORK SUPPORT”. Refer to [BCS-21, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

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). However, this operating range depends on the ambient conditions.



HAZARD AND BUZZER REMINDER FUNCTION

For the operation check, BCM blinks hazard warning lamps (lock: 1 time, unlock: 2 times) and sounds Intelligent Key warning buzzer (lock: 1 time, unlock: 2 times) when door lock or unlock operates by operation of each door request switch.

How to Change Hazard and Buzzer Reminder Mode

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

AUTO DOOR LOCK FUNCTION

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

Operating condition	• Door switch is ON (door is open) • BCM receives lock signal • Push switch is pressed
---------------------	--

Auto door lock mode can be changed by the “AUTO LOCK SET” mode in “WORK SUPPORT”. Refer to [BCS-21, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

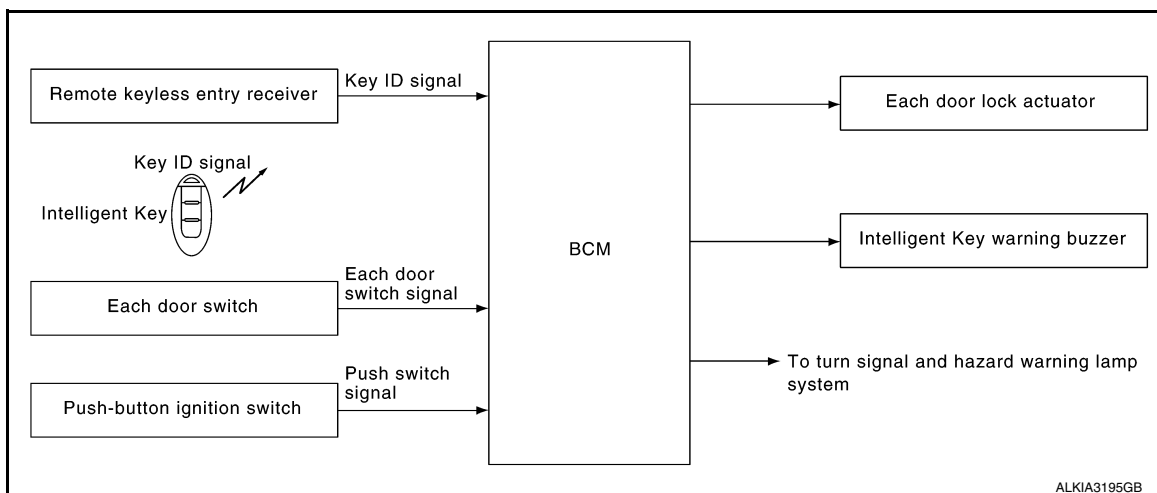
Door lock function	Intelligent Key	Remote keyless entry receiver	Door switch	Door request switch	Door lock actuator	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamp	Push-button ignition switch	Combination meter
Door lock/unlock function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

REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:000000009516520

SYSTEM DIAGRAM



REMOTE KEYLESS ENTRY OPERATION

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

Remote keyless entry system controls operation of the following items.

- Auto door lock
- Door lock/unlock
- Hazard and buzzer reminder

OPERATION AREA

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

DOOR LOCK/UNLOCK FUNCTION

- When door lock/unlock button of the Intelligent Key is pressed, lock signal or unlock signal is transmitted from Intelligent Key to BCM via remote keyless entry receiver.
- BCM receives the signal and compares it with the registered key ID to the vehicle.
- BCM transmits door lock/unlock signal to each door lock actuator and operates each door lock actuator, when key ID matches. At the same time, BCM blinks hazard warning lamps (lock: 1 time, unlock: 2 times) and sounds Intelligent Key buzzer (lock: 1 time, unlock: 2 times) as a reminder.

OPERATION CONDITION

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

Remote controller operation	Operation condition
Lock	• All door are closed • Ignition switch is in the LOCK or OFF position • P position warning is not activated
Unlock	• Ignition switch is in the LOCK or OFF position • Intelligent Key is outside the vehicle • P position warning is not activated

HAZARD AND BUZZER REMINDER FUNCTION

For the operation check, BCM blinks hazard warning lamps (lock: 1 time, unlock: 2 times) and sounds Intelligent Key warning buzzer (lock: 1 time, unlock: 2 times) when door lock or unlock operates by each remote controller button operation of Intelligent Key.

How to Change Hazard and Buzzer Reminder Mode

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

AUTO DOOR LOCK FUNCTION

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

Operating condition	• Door switch is ON (door is open) • BCM receives lock signal • Push switch is pressed
---------------------	--

Auto door lock mode can be changed by the "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [BCS-21, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Remote keyless entry functions	Intelligent Key	Remote keyless entry receiver	Door switch	Door lock actuator	Push-button ignition switch	Intelligent Key warning buzzer	CAN communication system	BCM	Combination meter	Hazard warning lamp	IPDM E/R	Horn
Door lock/unlock function by remote control button	×	×	×	×	×			×				
Hazard and buzzer reminder function	×	×				×	×	×	×	×		
Auto door lock function	×	×	×	×	×			×				

KEY REMINDER FUNCTION

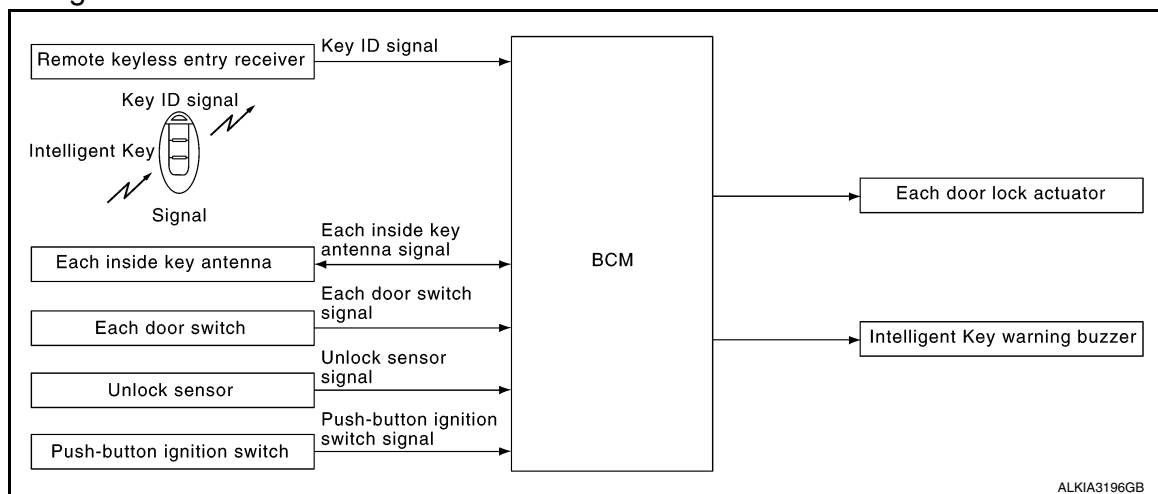
SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

KEY REMINDER FUNCTION : System Description

INFOID:000000009516521

System Diagram



BASIC OPERATION

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

Key reminder function	Operation condition	Operation
Driver side door closed*	Right after driver side door is closed under the following conditions - Intelligent Key is inside the vehicle - Driver side door is opened - Driver side door is in unlock state	All doors unlock
Door is open or closed	Right after all doors are closed under the following conditions - Door lock/unlock switch or driver side door lock knob are operated - Intelligent Key is inside the vehicle - Any door is opened - All doors are locked.	- All doors unlock - Honk Intelligent Key warning buzzer
Back door is closed	Right after Back door is closed under the following conditions - Intelligent Key is inside luggage room - All doors are closed - All doors are locked	- Back door open - Honk Intelligent Key warning buzzer

*:When closing the door if something comes into contact with the door lock switch it might activate the door locks accidentally, but the unlock operation will override this.

NOTE:

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

WARNING FUNCTION

WARNING FUNCTION : System Description

INFOID:000000009516522

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, shift P warning lamp and engine start operation indicator lamp.

- Intelligent Key system malfunction
- OFF position warning
- P position warning
- ACC warning
- Take away warning
- Door lock operation warning
- Engine start information

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

- Intelligent Key low battery warning
- Key ID warning

OPERATION CONDITION

Operation condition of warning and information is as per the following table.

Warning/Information functions		Operation procedure
Intelligent Key system malfunction		A malfunction is detected on BCM and key warning lamp turns ON
OFF position warning		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 push-button 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)
P position warning	For internal	• Shift position: Other than P • Engine is stopped (Ignition switch is turned from ON to OFF)
	For external	• P position warning (For internal) operates • Door switch: ON to OFF (Door is open to close) • Intelligent Key cannot be detected inside the vehicle
ACC warning		• After P position warning operates, or when ignition switch is turned ON immediately after P position warning operates • Ignition switch: ACC
Take away warning	Door status changes from open to close	• Ignition switch: Other than LOCK and OFF • Door switch: ON to OFF (Door status changes from open to close) • Registered Intelligent Key is not detected inside the vehicle
	Door status is open	• Ignition switch: Other than LOCK and OFF • Door switch: ON (Door is open) • Registered Intelligent Key is not detected inside the vehicle during Key ID verification for 5 seconds
	Push button-ignition switch operation	• Ignition switch: Other than LOCK position • Push-button ignition switch is pressed • Registered Intelligent Key is not detected inside the vehicle
Door lock operation warning		Door lock operation is requested while door lock operation condition of door request switch is not satisfied
Engine start information	Ignition switch is ON position	• Ignition switch: ON position • Shift position: P • Engine is stopped
	Ignition switch is other than ON position	• Ignition switch: Other than ON • Shift position: P • Intelligent Key is in the passenger room after driver door is opened and closed
	Ignition switch is ON position to OFF position	• Ignition switch: ON position to OFF position • Shift position: P position NOTE: Engine start information turns ON for several seconds and then turns OFF, when ignition switch is turned to the ON position from the OFF position. Engine start information does not turn ON until opening and closing of driver door is detected again.
Intelligent Key low battery warning		BCM detects that Intelligent Key is low battery, after ignition switch is turned ON
Key ID warning		• Push-button ignition switch is pressed • Registered Intelligent Key is not detected inside the vehicle

WARNING METHOD

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

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

Warning/Information functions		“KEY” warning lamp	Shift P warning lamp	Warning chime		Engine start operation indicator lamp
				Combination meter buzzer	Intelligent Key warning buzzer	
Intelligent Key system malfunction		Indicate	—	—	—	—
OFF position warning	For internal	—	—	Activate	—	—
	For external	—	—	—	Activate	—
P position warning	For internal	Blink (yellow)	Indicate	Activate	—	—
	For external		—	—	Active	—
ACC warning		—	—	Activate	—	—
Take away warning	Door is open to close	Blink (yellow)	—	Activate	Activate	—
	Door is open		—	—	—	—
	Push-ignition switch operation		—	Activate	—	—
Door lock operation warning		—	—	—	Activate	—
Engine start information		—	—	—	—	Indicate
Intelligent Key low battery warning		Blink (green)	—	—	—	—
Key ID warning		Blink (yellow)	—	—	—	—

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Function		Intelligent Key	Push-button ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter buzzer	CAN communication system	BCM	Shift P warning lamp	Engine start operation indicator lamp	“KEY” warning lamp
Intelligent Key system malfunction										×	×			×
OFF position warning	For internal			×					×	×	×			
	For external			×				×			×			
P position warning			×						×	×	×	×		×
ACC warning			×						×	×	×			
Take away warning	Door is open or close	×		×		×		×	×	×	×			×
	Door is open	×		×		×				×	×			×
	Push-button ignition switch operation	×	×			×			×	×	×			×
Door lock operation warning		×		×	×	×	×	×			×			
Key ID warning			×			×				×	×			×
Engine start information		×	×			×				×	×		×	
Intelligent Key low battery warning		×				×				×	×			×

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000009015761

ECU	Reference
BCM	BCS-28, "Reference Value"
	BCS-44, "Fail-safe"
	BCS-46, "DTC Inspection Priority Chart"
	BCS-46, "DTC Index"

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

WIRING DIAGRAM

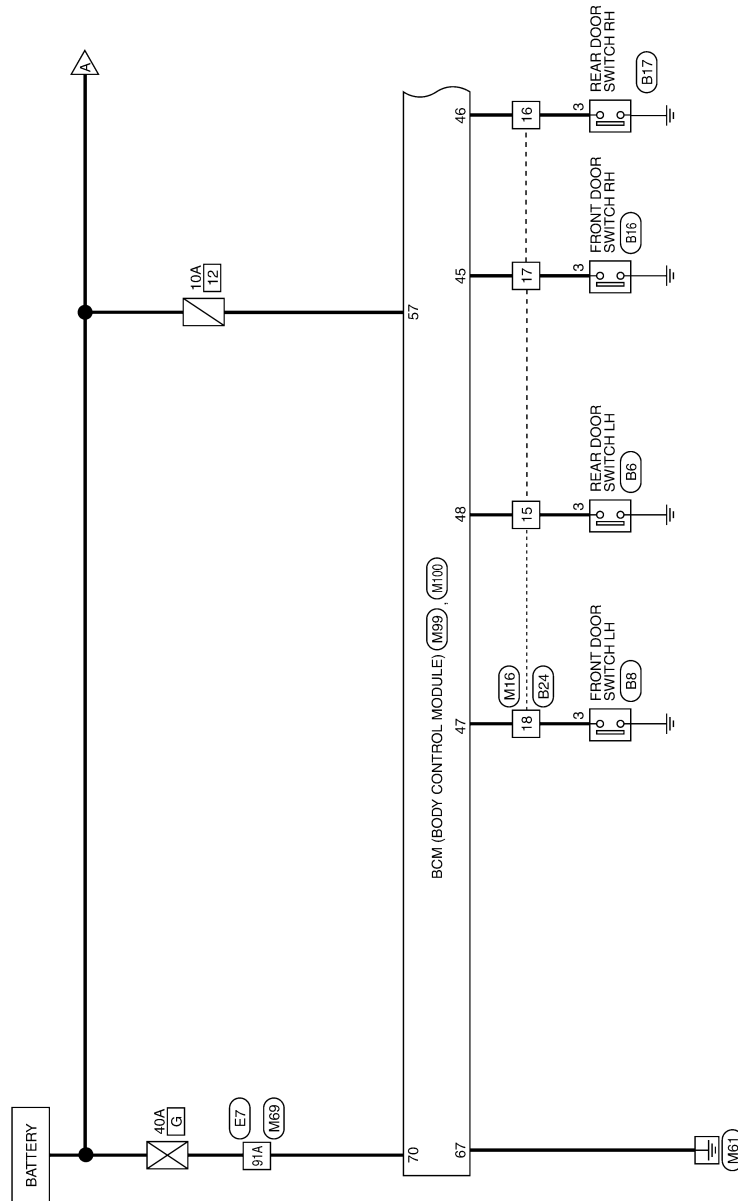
DOOR & LOCK SYSTEM

POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : Wiring Diagram

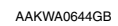
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POWER DOOR LOCK SYSTEM



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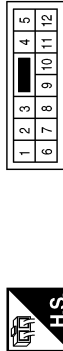


DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Color	WHITE



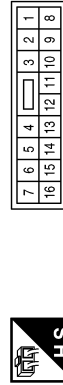
Terminal No.	Color of Wire	Signal Name
6	SB	-
7	G	-
9	B	-

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Color	WHITE



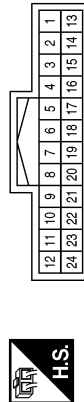
Terminal No.	Color of Wire	Signal Name
12	G	-
13	SB	-

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Color	WHITE



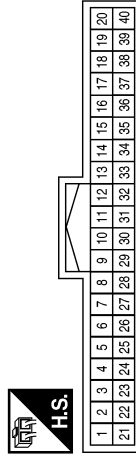
Terminal No.	Color of Wire	Signal Name
2	SB	-
3	P	-
5	G	-
8	W	-

Connector No.	M16
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
15	W	-
16	BR	-
17	O	-
18	SB	-

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
7	W	KEY CYLINDER UNLOCK SW
8	GR	KEY CYLINDER LOCK SW
12	GR	CENTRAL DOOR LOCK SW
13	BR	CENTRAL DOOR UNLOCK SW
31	Y	DOOR LOCK STATUS SW (DR)
39	L	CAN-H
40	P	CAN-L

Connector No.	M41
Connector Name	BACK DOOR LOCK ACTUATOR RELAY
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	G	-
2	G	-
3	G	-
4	B	-
5	LG	-

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Color	WHITE

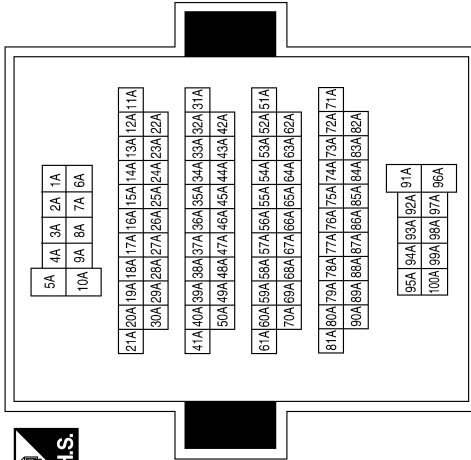
1	2	3	4	5
6	7	8	9	10
11	12			



Terminal No.	Color of Wire	Signal Name
7	SB	-
8	G	-
9	BR	-
10	GR	-
11	B	-

Terminal No.	Color of Wire	Signal Name
91A	G	-

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



Connector No.	M100
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK

41	42	43	44	45	46	47	48	49
50	51	52	53	54	55			



Terminal No.	Color of Wire	Signal Name
45	O	DOOR SW (AS)
46	BR	DOOR SW (RR)
47	SB	DOOR SW (OR)
48	W	DOOR SW (RL)
50	G	DOOR UNLOCK OUTPUT (BACK)
51	W	REQUEST SW (TRUNK/BACK DOOR)
55	G	DOOR UNLOCK OUTPUT (RR, RL)

Connector No.	M99
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE

56	57	58	59	60	61	62	63	64
65	66	67	68	69	70			



Terminal No.	Color of Wire	Signal Name
57	Y	BATTERY (FUSE)
59	G	DOOR UNLOCK OUTPUT (AS)
65	SB	DOOR LOCK OUTPUT
66	G	DOOR UNLOCK COMMON (DR)
67	B	GND
70	G	BATTERY (F/L)

Connector No.	M93
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
6	W	-
7	GR	-
18	GR	-
19	BR	-
20	Y	-

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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Color	WHITE

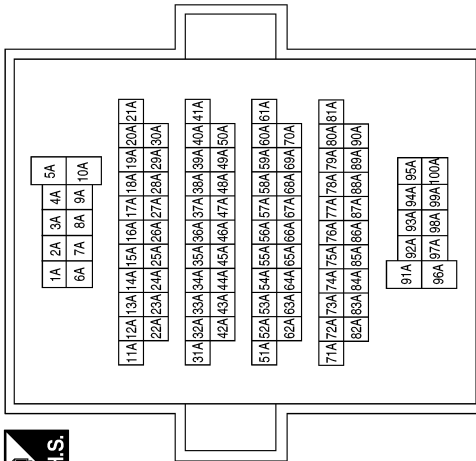


4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name
7	G	—
8	W	—

Terminal No.	Color of Wire	Signal Name
91A	Y	—

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



4	3	2	1
10	9	8	7
6	5		

Terminal No.	Color of Wire	Signal Name
7	G	—
8	SB	—

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



1	2	3	4
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Terminal No.	Color of Wire	Signal Name
3	LG	—

Connector No.	B6
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



1	2	3	4
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Terminal No.	Color of Wire	Signal Name
3	V	—

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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

Connector No.	B23
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
2	SB	-
3	P	-
5	G	-
8	W	-

Connector No.	B17
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



1	2	3	4
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Terminal No.	Color of Wire	Signal Name
3	R	-

Connector No.	B16
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



1	2	3	4
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Terminal No.	Color of Wire	Signal Name
3	L	-

Connector No.	B52
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Connector No.	B29
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
12	G	-
13	SB	-

Connector No.	B24
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
15	V	-
16	R	-
17	L	-
18	LG	-

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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

Connector No.	D7
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
6	L	UNLOCK SWITCH

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



5	4		3	2	1	
12	11		10	9	8	7

Terminal No.	Color of Wire	Signal Name
6	LG	-
7	R	-
9	B	-

Connector No.	B53
Connector Name	WIRE TO WIRE
Connector Color	WHITE



4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
2	W	-

Connector No.	D16
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
6	W	-
7	GR	-
18	GR	-
19	L	-

Connector No.	D14
Connector Name	FRONT DOOR LOCK ACTUATOR LH
Connector Color	GRAY



1	2	3	4	5	6
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Terminal No.	Color of Wire	Signal Name
1	LG	-
2	R	-
3	P	-
4	B	-
5	W	-
6	GR	-

Connector No.	D8
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE



17	18	19
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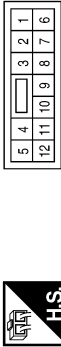
Terminal No.	Color of Wire	Signal Name
17	B	GND
18	GR	LOCK SW

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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

Connector No.	D115
Connector Name	WIRE TO WIRE
Connector Color	WHITE



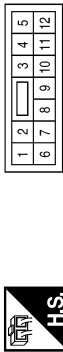
Terminal No.	Color of Wire	Signal Name
7	LG	-
8	R	-
9	BR	-
10	GR	-
11	B	-

Connector No.	D114
Connector Name	FRONT DOOR LOCK ACTUATOR RH
Connector Color	GRAY



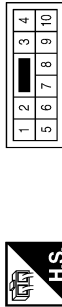
Terminal No.	Color of Wire	Signal Name
1	R	-
2	LG	-

Connector No.	D105
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	GR	-
2	BR	-
3	B	-

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	G	-
8	SB	-

Connector No.	D205
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	SB	-
2	G	-

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	G	-
8	SB	-

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DOOR & LOCK SYSTEM

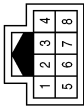
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Connector No.	D504
Connector Name	WIRE TO WIRE
Connector Color	WHITE



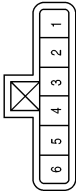
Terminal No.	Color of Wire	Signal Name
1	G	-
2	B	-
3	SB	-

Connector No.	D503
Connector Name	WIRE TO WIRE
Connector Color	WHITE



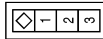
Terminal No.	Color of Wire	Signal Name
2	W	-
6	P	-

Connector No.	D305
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	G	-
2	SB	-

Connector No.	D509
Connector Name	BACK DOOR SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	P	-
3	B	-

Connector No.	D506
Connector Name	BACK DOOR REQUEST SWITCH
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	W	-
2	B	-

Connector No.	D505
Connector Name	BACK DOOR LOCK ACTUATOR
Connector Color	WHITE

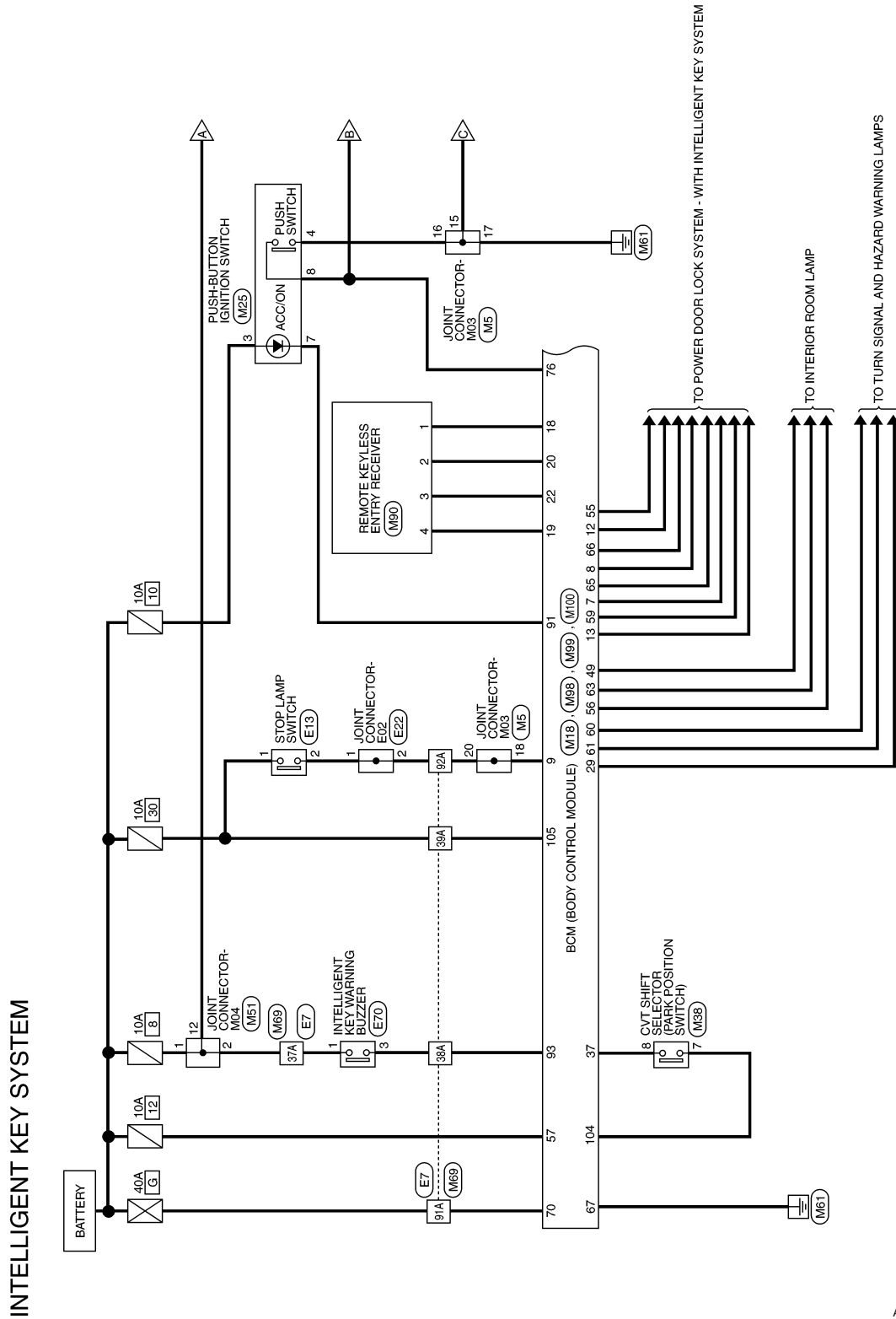


Terminal No.	Color of Wire	Signal Name
1	G	-
2	SB	-

INTELLIGENT KEY SYSTEM

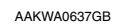
AAKIA1300GB

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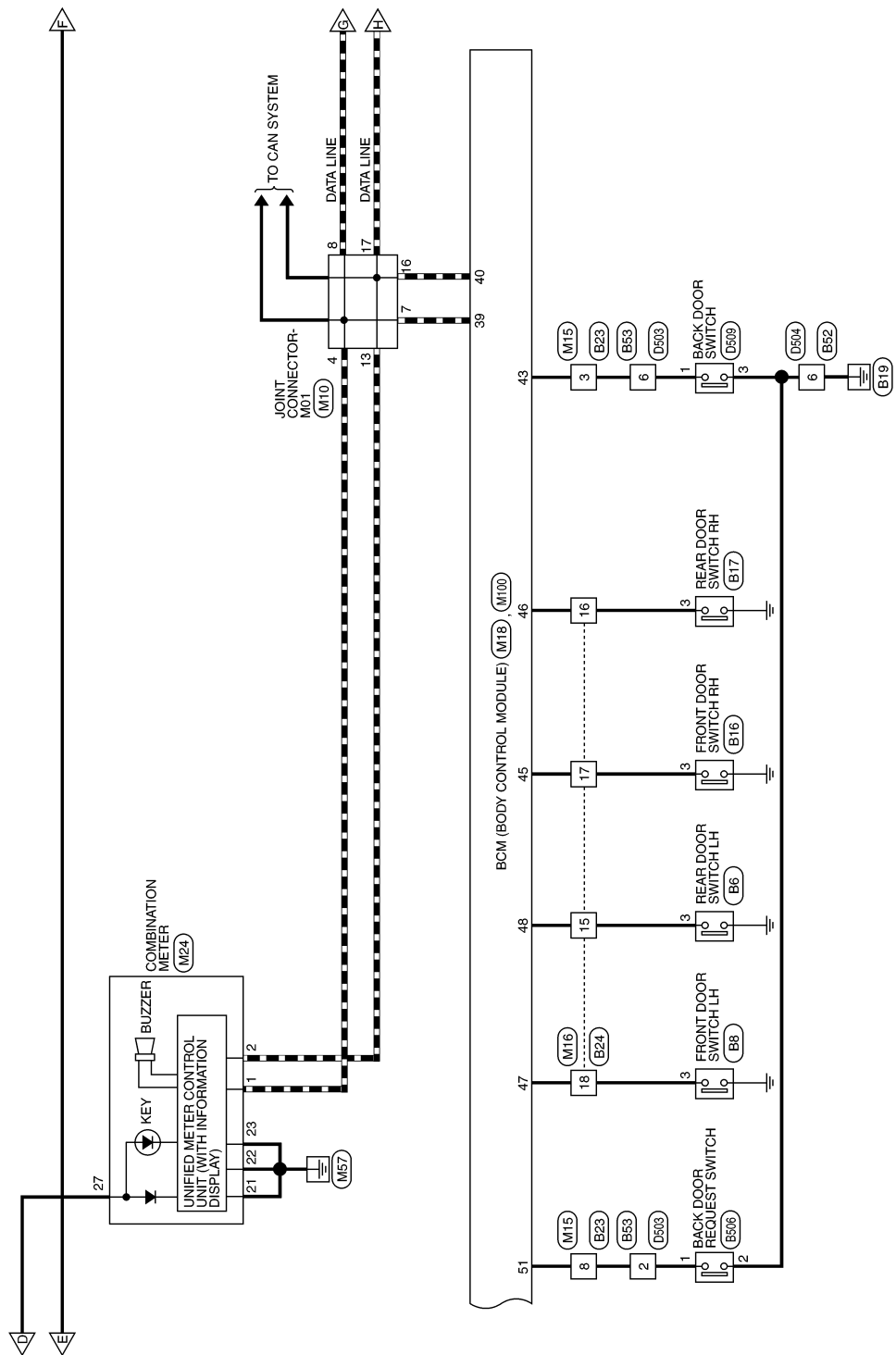


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< WIRING DIAGRAM >

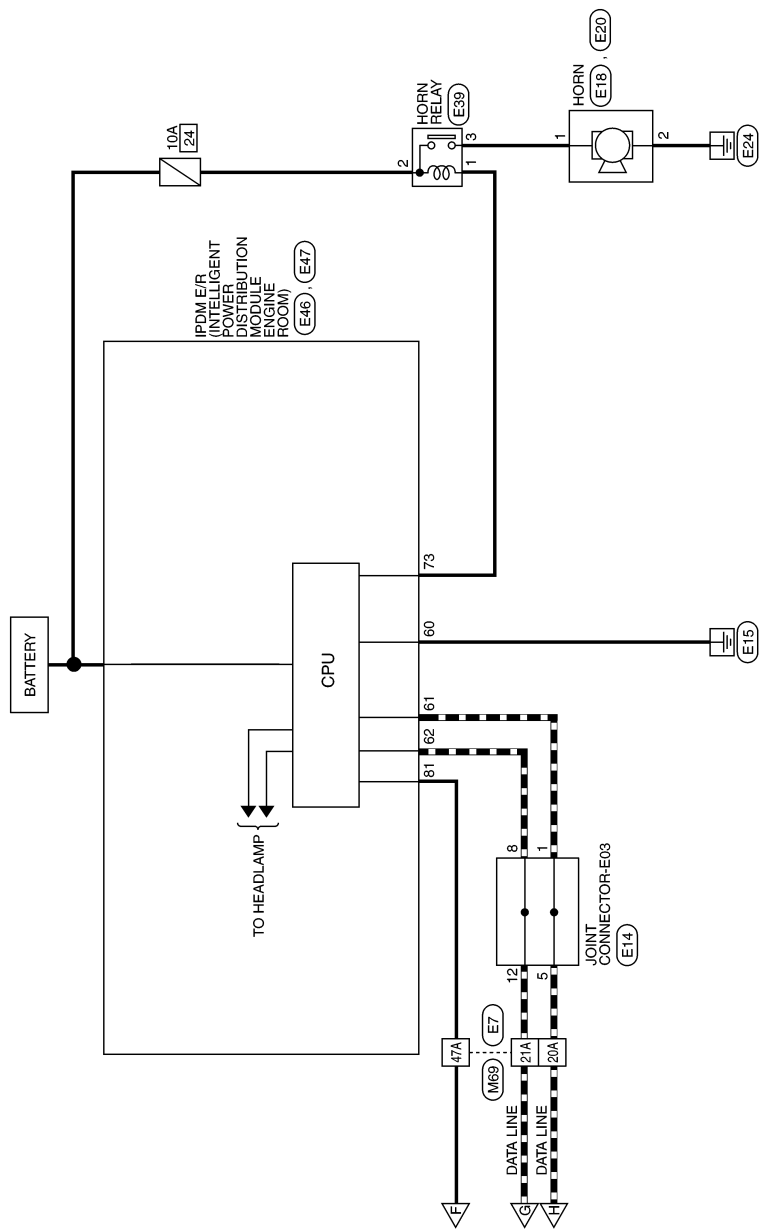


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DOOR & LOCK SYSTEM

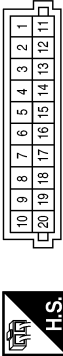
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AAKWA0639GB

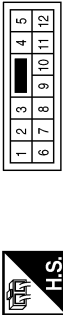
INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M5
Connector Name	JOINT CONNECTOR-M03
Connector Color	BROWN



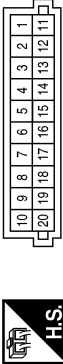
Terminal No.	Color of Wire	Signal Name
15	B	-
16	B	-
17	B	-
18	LG	-
20	R	-

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Color	WHITE



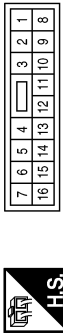
Terminal No.	Color of Wire	Signal Name
9	B	-

Connector No.	M10
Connector Name	JOINT CONNECTOR-M01
Connector Color	GRAY



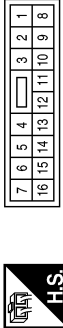
Terminal No.	Color of Wire	Signal Name
4	L	-
7	L	-
8	L	-
13	P	-
16	P	-
17	P	-

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Color	WHITE



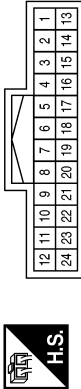
Terminal No.	Color of Wire	Signal Name
6	B	-
7	W	-

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	P	-
8	W	-

Connector No.	M16
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10	V	-
15	W	-
16	BR	-
17	O	-
18	SB	-
22	LG	-

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
7	W	KEY CYLINDER UNLOCK SW
8	GR	KEY CYLINDER LOCK SW
9	LG	BRAKE SW1

Terminal No.	Color of Wire	Signal Name
12	GR	CENTRAL DOOR LOCK SW
13	BR	CENTRAL DOOR UNLOCK SW
18	V	KEYLESS TUNER, AUTO LIGHT SENSOR GND
19	LG	KEYLESS TUNER POWER SUPPLY
20	G	KEYLESS TUNER SIGNAL
22	W	KEYLESS TUNER RSSI
29	SB	HAZARD SW
37	R	SHIFT P POSITION, PARKING POSITION SW
38	-	-
39	L	CAN-H
40	P	CAN-L

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE



20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21

Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
2	P	CAN-L
21	B/W	GND (ILL)
22	B	GND (POWER)
23	B	GND (CIRCUIT)
27	R	BAT

Connector No.	M25
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Color	BROWN



8	3	4	1	2
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Terminal No.	Color of Wire	Signal Name
3	G	-
4	B	-
7	V	-
8	L	-

Connector No.	M38
Connector Name	CVT SHIFT SELECTOR
Connector Color	WHITE



1	2	3	4
5	6	7	8

Terminal No.	Color of Wire	Signal Name
7	V	-
8	R	-

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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

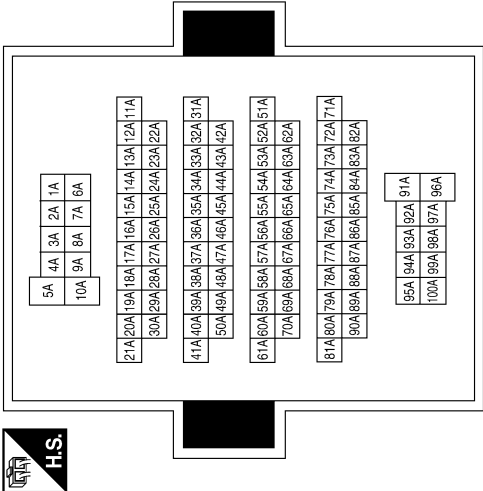
Connector No.	M89
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Color	BLUE



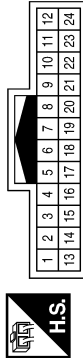
Terminal No.	Color of Wire	Signal Name
1	G	-
2	R	-

Terminal No.	Color of Wire	Signal Name
20A	P	-
21A	L	-
37A	V	-
38A	R	-
39A	SB	-
47A	L	-
91A	G	-
92A	R	-

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

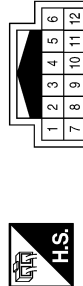


Connector No.	M93
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
21	V	-
22	P	-
23	GR	-

Connector No.	M92
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	L	-
2	B	-
7	P	-
8	Y	-

Connector No.	M90
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	V	-
2	G	-
3	W	-
4	LG	-

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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

Connector No.	M99
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE

56	57	58	59	60	61	62	63	64
65	66	67	68	69	70			



Terminal No.	Color of Wire	Signal Name
56	W	BATTERY SAVER OUTPUT
57	Y	BATTERY (FUSE)
59	G	DOOR UNLOCK OUTPUT (AS)
60	V	FLASHER OUTPUT (LEFT)
61	W	FLASHER OUTPUT (RIGHT)
63	R	ROOM LAMP OUTPUT
65	SB	DOOR LOCK OUTPUT
66	G	DOOR UNLOCK COMMON (DR)
67	B	GND
70	G	BATTERY (F/L)

Connector No.	M98
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110

Terminal No.	Color of Wire	Signal Name
75	GR	REQUEST SW (DR)
76	L	ENGINE START SW
78	P	DOOR ANTENNA (DR) +
79	V	DOOR ANTENNA (DR) -
80	LG	DOOR ANTENNA (AS) +
81	Y	DOOR ANTENNA (AS) -
82	W	BACK DOOR ANTENNA +
83	B	BACK DOOR ANTENNA -
84	P	ROOM ANTENNA 1 +
85	L	ROOM ANTENNA 1 -
86	G	ROOM ANTENNA 2 +
87	R	ROOM ANTENNA 2 -
88	V	ROOM ANTENNA 3 +
89	LG	ROOM ANTENNA 3 -
91	V	POWER POSITION LED (LOCK POSITION LED)
93	R	SMART KEYLESS BUZZER OUTPUT
100	P	REQUEST SW (AS)
104	V	AT DEVICE OUTPUT
105	SB	BRAKE SW2

Connector No.	M95
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Color	BLUE



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

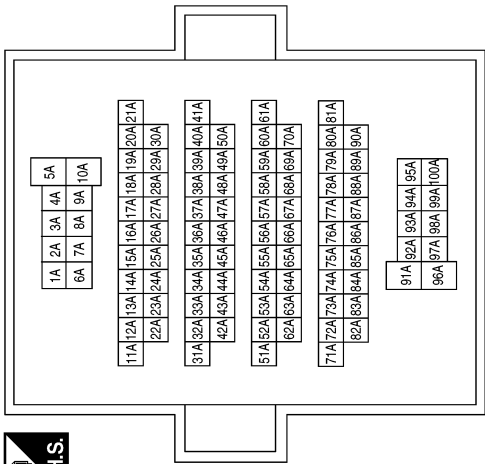
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DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
20A	P	-
21A	L	-
37A	W	-
38A	R	-
39A	SB	-
47A	BR	-
91A	Y	-
92A	LG	-

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M100
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM))
Connector Color	BLACK



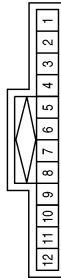
Terminal No.	Color of Wire	Signal Name
43	P	-
45	P	DOOR SW (AS)
46	LG	DOOR SW (RR)
47	SB	DOOR SW (DR)
48	W	DOOR SW (RL)
49	L	LUGGAGE LAMP OUTPUT
50	G	DOOR UNLOCK OUTPUT (RR, RL)
51	V	REQUEST SW (TRUNK)

Connector No.	E18
Connector Name	HORN
Connector Color	BLACK



Terminal No.	1	Color of Wire	G	Signal Name	-
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Connector No.	E14
Connector Name	JOINT CONNECTOR-E03
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	P	-
5	P	-
8	L	-
12	L	-

Connector No.	E13
Connector Name	STOP LAMP SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	SB	-
2	LG	-

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DOOR & LOCK SYSTEM

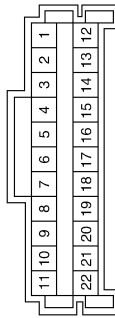
< WIRING DIAGRAM >

Connector No.	E20
Connector Name	HORN
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	B	-

Connector No.	E22
Connector Name	JOINT CONNECTOR-E02
Connector Color	WHITE



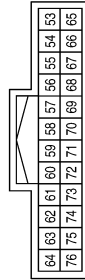
Terminal No.	Color of Wire	Signal Name
1	LG	-
2	LG	-

Connector No.	E39
Connector Name	HORN RELAY
Connector Color	WHITE



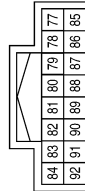
Terminal No.	Color of Wire	Signal Name
1	SB	-
2	L	-
3	G	-

Connector No.	E46
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
60	B	GND (SIGNAL)
61	P	CAN-L
62	L	CAN-H
73	SB	HORN RLY

Connector No.	E47
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
81	SB	PUSH START SW

Connector No.	E70
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Color	BROWN



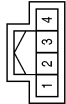
Terminal No.	Color of Wire	Signal Name
1	W	-
3	R	-

AAKIA1282GB

DOOR & LOCK SYSTEM

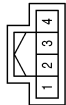
< WIRING DIAGRAM >

Connector No.	B16
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



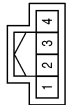
Terminal No.	3	Color of Wire	L	Signal Name	-
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Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



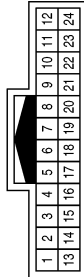
Terminal No.	3	Color of Wire	LG	Signal Name	-
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Connector No.	B6
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



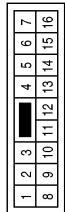
Terminal No.	3	Color of Wire	V	Signal Name	-
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Connector No.	B24
Connector Name	WIRE TO WIRE
Connector Color	WHITE



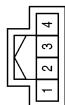
Terminal No.	10	Color of Wire	V	Signal Name	-
	15	Color of Wire	V	Signal Name	-
	16	Color of Wire	R	Signal Name	-
	17	Color of Wire	L	Signal Name	-
	18	Color of Wire	LG	Signal Name	-

Connector No.	B23
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	3	Color of Wire	P	Signal Name	-
	8	Color of Wire	W	Signal Name	-

Connector No.	B17
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	3	Color of Wire	R	Signal Name	-
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AAKIA1283GB

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

DLK

DOOR & LOCK SYSTEM

< WIRING DIAGRAM >

Connector No.	B49
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Color	BLUE



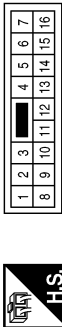
Terminal No.	Color of Wire	Signal Name
1	W	-
2	B	-

Connector No.	B48
Connector Name	INSIDE KEY ANTENNA (TRUNK ROOM)
Connector Color	BLUE



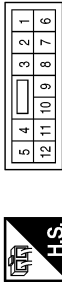
Terminal No.	Color of Wire	Signal Name
1	V	-
2	LG	-

Connector No.	B29
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
6	B	-
7	W	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



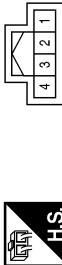
Terminal No.	Color of Wire	Signal Name
9	B	-

Connector No.	B53
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	L	-
6	P	-

Connector No.	B52
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	B	-

AAKIA1284GB

DOOR & LOCK SYSTEM

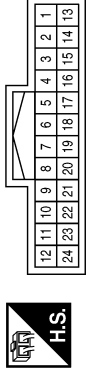
< WIRING DIAGRAM >

Connector No.	D17
Connector Name	FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	L	-
2	B	-

Connector No.	D16
Connector Name	WIRE TO WIRE
Connector Color	WHITE



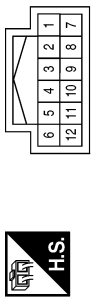
Terminal No.	Color of Wire	Signal Name
21	Y	-
22	LG	-
23	L	-

Connector No.	D6
Connector Name	FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	LG	-
2	Y	-

Connector No.	D116
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	L	-
5	B	-
7	Y	-
8	LG	-

Connector No.	D113
Connector Name	FRONT OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	L	-
2	B	-

Connector No.	D106
Connector Name	FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	LG	-
2	Y	-

AAKIA1285GB

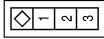
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DOOR & LOCK SYSTEM

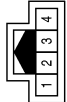
< WIRING DIAGRAM >

Connector No.	D509
Connector Name	BACK DOOR SWITCH
Connector Color	WHITE



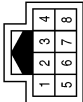
Terminal No.	Color of Wire	Signal Name
1	P	-
3	B	-

Connector No.	D504
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	B	-

Connector No.	D503
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	W	-
6	P	-

ABKIA4627GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

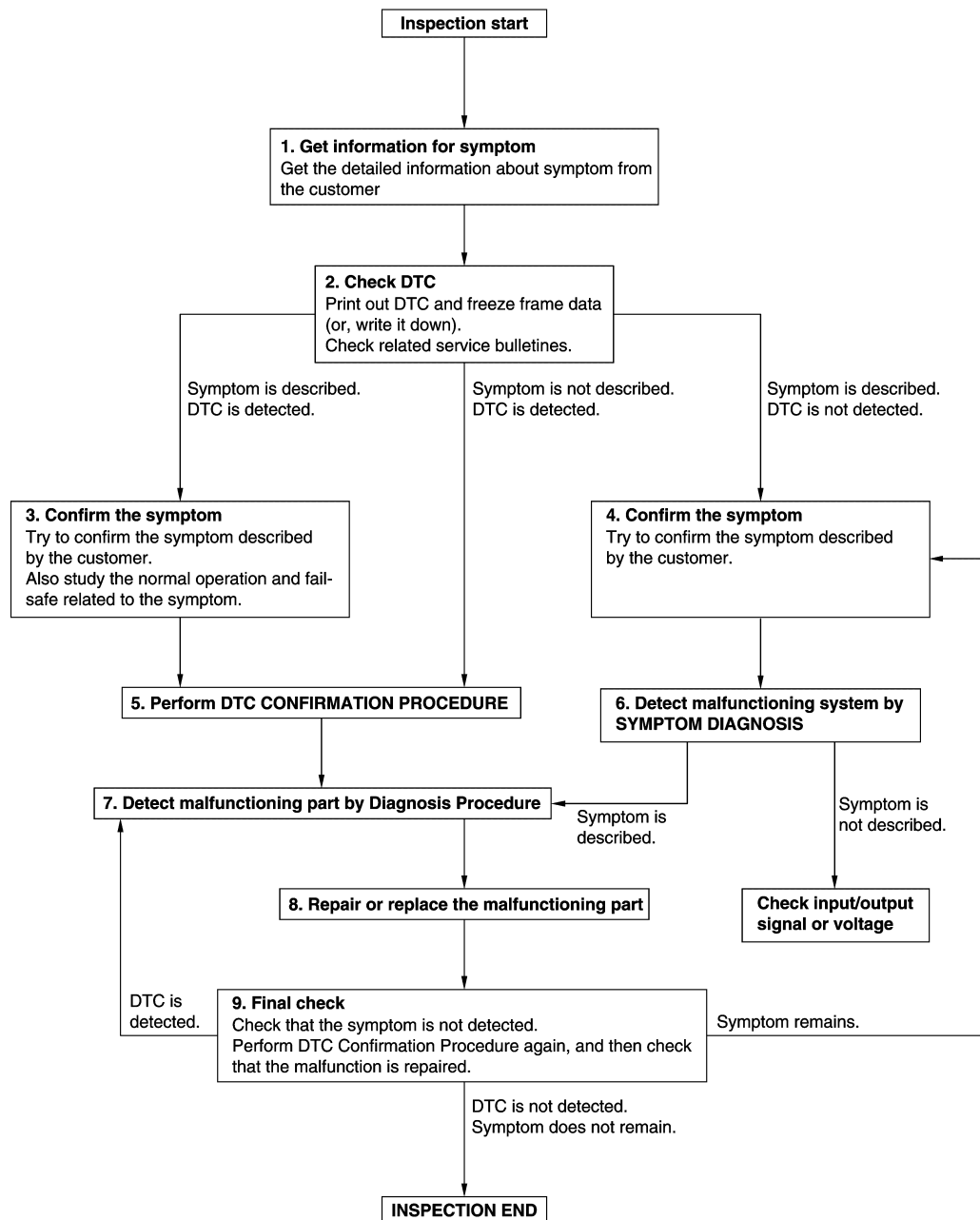
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000009015763

OVERALL SEQUENCE



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DETAILED FLOW

Revision: April 2013

DLK-51

2014 Note

JMKIA8652GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

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

Are any symptoms described and any DTC detected?

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

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

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

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

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

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

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

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time.

If two or more DTCs are detected, refer to [BCS-46. "DTC Inspection Priority Chart"](#) and determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

YES >> GO TO 7.

NO >> Check intermittent incident.

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check intermittent incident.

8.REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9.FINAL CHECK

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

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

Is DTC detected and does symptom remain?

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

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

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

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B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

DTC/CIRCUIT DIAGNOSIS

B2621 INSIDE ANTENNA

DTC Logic

INFOID:000000009515834

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2621	INSIDE ANTENNA 1	An excessive high or low voltage from inside antenna (instrument center) is sent to BCM	- Inside key antenna (instrument center) - Between BCM Inside key antenna (instrument center)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

- YES >> Refer to [DLK-54, "Diagnosis Procedure"](#).
- NO >> Inside key antenna (instrument center) is OK.

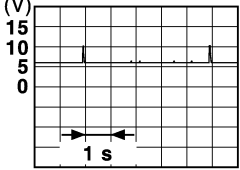
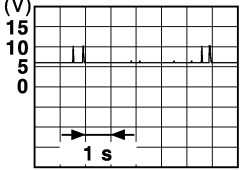
Diagnosis Procedure

INFOID:0000000009515835

Regarding Wiring Diagram information, refer to [DLK-37, "INTELLIGENT KEY SYSTEM : Wiring Diagram"](#).

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M98	84 85	Ground	When Intelligent Key is in the antenna detection area	 JMKIA3639GB
			When Intelligent Key is not in the antenna detection area	 JMKIA5951GB

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).
- NO >> GO TO 2.

B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

BCM		Inside key antenna (instrument center)		Continuity
Connector	Terminal	Connector	Terminal	
M98	84	M95	1	Yes
	85		2	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M98	84		No
	85		

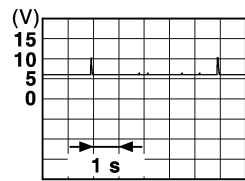
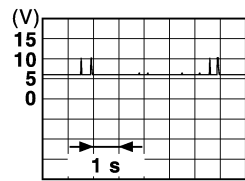
Is the inspection result normal?

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M98	84	Ground	When Intelligent Key is in the antenna detection area	 JMKIA3839GB
	85		When Intelligent Key is not in the antenna detection area	 JMKIA5951GB

Is the inspection result normal?

YES >> Replace inside key antenna (instrument center). Refer to [DLK-159. "INSTRUMENT CENTER : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-67. "Removal and Installation"](#).

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2622 INSIDE ANTENNA

DTC Logic

INFOID:000000009515836

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA 2	An excessive high or low voltage from inside antenna (console) is sent to BCM	- Inside key antenna (console) - Between BCM Inside key antenna (console)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

- YES >> Refer to [DLK-56. "Diagnosis Procedure"](#).
NO >> Inside key antenna (console) is OK.

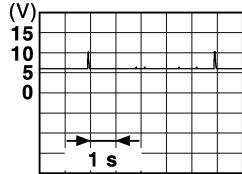
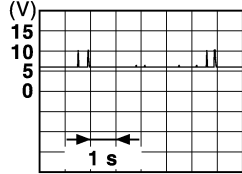
Diagnosis Procedure

INFOID:000000009515837

Regarding Wiring Diagram information, refer to [DLK-37. "INTELLIGENT KEY SYSTEM : Wiring Diagram"](#).

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M98	86 87	Ground	When Intelligent Key is in the antenna detection area	 JMKIA3839GB
			When Intelligent Key is not in the antenna detection area	 JMKIA5951GB

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-67. "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK INSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and inside key antenna (console) connector.

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

- Check continuity between BCM harness connector and inside key antenna (console) harness connector.

BCM		Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	
M98	86	M89	1	Yes
	87		2	

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M98	86		No
	87		

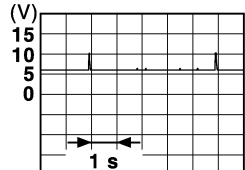
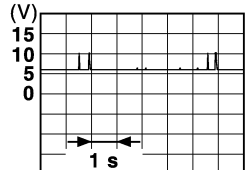
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace inside key antenna (console). (New antenna or other antenna)
- Connect BCM connector and inside key antenna (console) connector.
- Turn ignition switch ON.
- Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M98	86	Ground	When Intelligent Key is in the antenna detection area	 JMKIA3839GB
	87		When Intelligent Key is not in the antenna detection area	 JMKIA5951GB

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to [DLK-159, "CONSOLE : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).

B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2623 INSIDE ANTENNA

DTC Logic

INFOID:000000009515838

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2623	INSIDE ANTENNA 3	An excessive high or low voltage from inside antenna (trunk room) is sent to BCM	• Inside key antenna (trunk room) • Between BCM Inside key antenna (trunk room)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

- YES >> Refer to [DLK-58. "Diagnosis Procedure"](#).
NO >> Inside key antenna (trunk room) is OK.

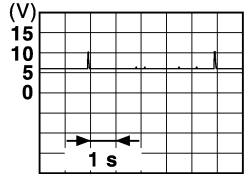
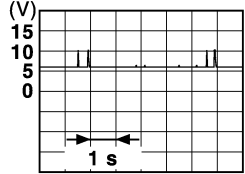
Diagnosis Procedure

INFOID:000000009515839

Regarding Wiring Diagram information, refer to [DLK-37. "INTELLIGENT KEY SYSTEM : Wiring Diagram"](#).

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M98	88 89	Ground	When Intelligent Key is in the antenna detection area	 JMKIA3839GB
			When Intelligent Key is not in the antenna detection area	 JMKIA5951GB

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-67. "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK INSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and inside key antenna (trunk room) connector.

B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between BCM harness connector and inside key antenna (trunk room) harness connector.

BCM		Inside key antenna (trunk room)		Continuity
Connector	Terminal	Connector	Terminal	
M98	88	B48	1	Yes
	89		2	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M98	88		No
	89		

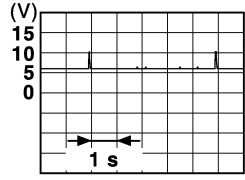
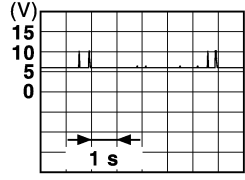
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M98	88 89	Ground	When Intelligent Key is in the antenna detection area	 JMKIA3839GB
			When Intelligent Key is not in the antenna detection area	 JMKIA5951GB

Is the inspection result normal?

YES >> Replace inside key antenna (trunk room). Refer to [DLK-159, "LUGGAGE ROOM : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).

B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2626 OUTSIDE ANTENNA

DTC Logic

INFOID:000000009515840

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2626	OUTSIDE ANTENNA 1	An excessive high or low voltage from outside key antenna (LH) is sent to BCM	• Outside key antenna (LH) • Between BCM Outside key antenna (LH)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

- YES >> Refer to [DLK-60. "Diagnosis Procedure"](#).
NO >> Outside key antenna (LH) is OK.

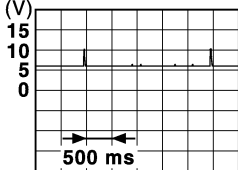
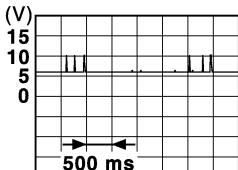
Diagnosis Procedure

INFOID:000000009515841

Regarding Wiring Diagram information, refer to [DLK-37. "INTELLIGENT KEY SYSTEM : Wiring Diagram"](#).

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M98	78	Ground	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	
	79		When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-67. "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

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

B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

BCM		Outside key antenna (LH)		Continuity
Connector	Terminal	Connector	Terminal	
M98	78	D6	1	Yes
	79		2	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M98	78		No
	79		

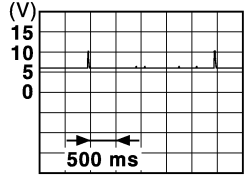
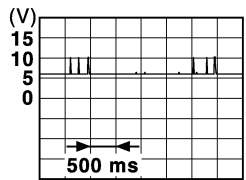
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M98	78	Ground	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	 JMKIA5955GB
	79		When the driver door request switch is operated with ignition switch OFF	 JMKIA5954GB

Is the inspection result normal?

YES >> Replace outside key antenna (LH). Refer to [DLK-161, "OUTSIDE HANDLE : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).

B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2627 OUTSIDE ANTENNA

DTC Logic

INFOID:000000009515842

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2627	OUTSIDE ANTENNA 2	An excessive high or low voltage from outside key antenna (RH) is sent to BCM	• Outside key antenna (RH) • Between BCM Outside key antenna (RH)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check Self Diagnostic Result mode of BCM using CONSULT.

Is outside key antenna DTC detected?

YES >> Refer to [DLK-62, "Diagnosis Procedure"](#).
NO >> Outside key antenna (RH) is OK.

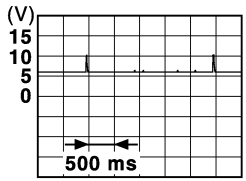
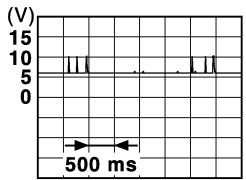
Diagnosis Procedure

INFOID:000000009515843

Regarding Wiring Diagram information, refer to [DLK-37, "INTELLIGENT KEY SYSTEM : Wiring Diagram"](#).

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M98	80	Ground	When the passenger side door request switch is operated with ignition switch OFF	 JMKIA5955GB
	81		When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	 JMKIA5954GB
			When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

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

B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

BCM		Outside key antenna (RH)		Continuity
Connector	Terminal	Connector	Terminal	
M98	80	D106	1	Yes
	81		2	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M98	80		No
	81		

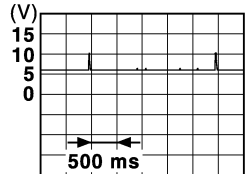
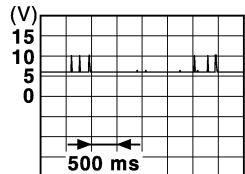
Is the inspection result normal?

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

(+) BCM		(-)	Condition		Signal (Reference value)
Connector	Terminal				
M98	80	Ground	When the passenger side 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)	 JMKIA5955GB
	81			When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	 JMKIA5954GB

Is the inspection result normal?

YES >> Replace outside key antenna (RH). Refer to [DLK-161, "OUTSIDE HANDLE : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).

B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

B2628 OUTSIDE ANTENNA

DTC Logic

INFOID:000000009515844

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2628	OUTSIDE ANTENNA 3	An excessive high or low voltage from outside key antenna (rear bumper) is sent to BCM	• Outside key antenna (rear bumper) • Between BCM – Outside key antenna (rear bumper)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check Self Diagnostic Result mode of BCM using CONSULT.

Is outside key antenna DTC detected?

- YES >> Refer to [DLK-64, "Diagnosis Procedure"](#).
NO >> Outside key antenna (rear bumper) is OK.

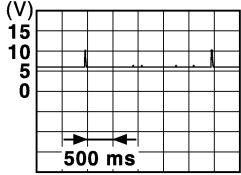
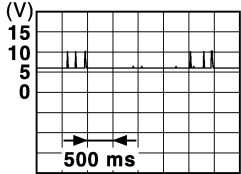
Diagnosis Procedure

INFOID:000000009515845

Regarding Wiring Diagram information, refer to [DLK-37, "INTELLIGENT KEY SYSTEM : Wiring Diagram"](#).

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M98	82,83	Ground	When the back door request switch is operated with ignition switch OFF	 JMKIA5955GB
			When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	 JMKIA5954GB

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and outside key antenna (rear bumper) connector.

B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

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

BCM		Outside key antenna (rear bumper)		Continuity
Connector	Terminal	Connector	Terminal	
M98	82	B49	1	Yes
	83		2	

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M98	82		No
	83		

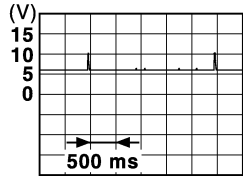
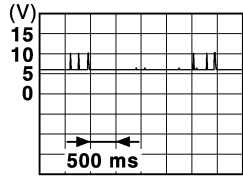
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace outside key antenna (rear bumper). (New antenna or other antenna)
- Connect BCM and outside key antenna (rear bumper) connector.
- Turn ignition switch ON.
- Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M98	82,83	Ground	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	 JMKIA5955GB
			When the back door request switch is operated with ignition switch OFF	 JMKIA5954GB

Is the inspection result normal?

YES >> Replace outside key antenna (rear bumper). Refer to [DLK-161, "REAR BUMPER : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000009567651

Regarding Wiring Diagram information, refer to [BCS-48. "Wiring Diagram"](#).

1. CHECK FUSES AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuses and fusible link No.
57	Battery power supply	12 (10A)
70		G (40A)

Is the fuse blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M99.
2. Check voltage between BCM connector M99 and ground.

BCM		Ground	Voltage
Connector	Terminal		
M99	57	—	Battery voltage
	70		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M99 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M99	67	—	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

COMBINATION METER BUZZER

< DTC/CIRCUIT DIAGNOSIS >

COMBINATION METER BUZZER

Component Function Check

INFOID:000000009515847

1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select INSIDE BUZZER in ACTIVE TEST mode.
3. Touch Key, Knob or Take Out to check that it works normally.

Is the inspection result normal?

- Yes >> Combination meter buzzer is OK.
No >> Refer to [DLK-67. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009515848

1.CHECK METER BUZZER CIRCUIT

Refer to [WCS-28. "Component Function Check"](#).

Is the inspection result normal?

- Yes >> GO TO 2.
No >> Repair or replace harness.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

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DLK

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:000000009515849

1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR LOCK in ACTIVE TEST mode.
3. Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-68, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000009515850

Regarding Wiring Diagram information, refer to [DLK-28, "POWER DOOR LOCK SYSTEM : Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+) Front door lock actuator LH		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
D14	1	Ground	Door lock and unlock switch	Lock	12 V
	2			Unlock	

Is the inspection result normal?

YES >> Replace front door lock actuator LH.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock actuator LH		Continuity
Connector	Terminal	Connector	Terminal	
M99	66	D14	1	Yes
	65		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M99	65		No
	66		

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 front door lock actuator LH harness connector and ground.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

(+)		(-)	Condition		Voltage (Approx.)
BCM					
Connector	Terminal				
M99	65	Ground	Door lock and unlock switch	Lock	12 V
	66			Unlock	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:000000009515851

1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR LOCK in ACTIVE TEST mode.
3. Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-69, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000009515852

Regarding Wiring Diagram information, refer to [DLK-28, "POWER DOOR LOCK SYSTEM : Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. 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.

(+)		(-)	Condition		Voltage (Approx.)
Front door lock actuator RH					
Connector	Terminal				
D114	2	Ground	Door lock and unlock switch	Lock	12 V
	1			Unlock	

Is the inspection result normal?

YES >> Replace front door lock actuator (RH).

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock actuators.
2. Check continuity between BCM harness connector and front door lock actuator RH harness connector.

BCM		Front door lock actuator RH		Continuity
Connector	Terminal	Connector	Terminal	
M99	65	D114	2	Yes
	59		1	

3. Check continuity between BCM harness connector and ground.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

BCM		Ground	Continuity
Connector	Terminal		
M99	65		No
	59		

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 front door lock actuator RH harness connector and ground.

(+) BCM		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
M99	65	Ground	Door lock and unlock switch	Lock	12 V
	59			Unlock	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).

REAR LH

REAR LH : Component Function Check

INFOID:000000009515853

1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR LOCK in ACTIVE TEST mode.
3. Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-71, "REAR RH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000009515854

Regarding Wiring Diagram information, refer to [DLK-28, "POWER DOOR LOCK SYSTEM : Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+) Rear door lock actuator LH		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
D205	1	Ground	Door lock and unlock switch	Lock	12 V
	2			Unlock	

Is the inspection result normal?

YES >> Replace rear door lock actuator LH.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock actuator connectors.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

- Check continuity between BCM harness connector and rear door lock actuator LH harness connector.

BCM		Rear door lock actuator LH		Continuity
Connector	Terminal	Connector	Terminal	
M99	65	D205	1	Yes
	55		2	

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M99	65		No
	55		

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 rear door lock actuator LH harness connector and ground.

(+) BCM		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
M99	65	Ground	Door lock and unlock switch	Lock	12 V
	55			Unlock	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).

REAR RH

REAR RH : Component Function Check

INFOID:0000000009515855

DLK

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-71, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:0000000009515856

Regarding Wiring Diagram information, refer to [DLK-28, "POWER DOOR LOCK SYSTEM : Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

(+) Rear door lock actuator RH		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
D305	2	Ground	Door lock and unlock switch	Lock	12 V
	1			Unlock	

Is the inspection result normal?

YES >> Replace rear door lock actuator RH.

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock actuator connectors.
2. 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	
M99	65	D305	2	Yes
	55		1	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M99	65		No
	55		

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 rear door lock actuator RH harness connector and ground.

(+) BCM		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
M99	65	Ground	Door lock and unlock switch	Lock	12 V
	55			Unlock	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-67. "Removal and Installation"](#).

BACK DOOR

BACK DOOR : Description

INFOID:0000000009519658

Locks/unlocks the door with the signal from BCM.

BACK DOOR : Component Function Check

INFOID:0000000009519659

1.CHECK FUNCTION

1. Use CONSULT to perform Active Test ("DOOR LOCK").
2. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Back door lock actuator is OK.
NO >> Refer to [DLK-73. "BACK DOOR : Diagnosis Procedure"](#).

BACK DOOR : Diagnosis Procedure

INFOID:000000009519660

Regarding Wiring Diagram information, refer to [DLK-28. "POWER DOOR LOCK SYSTEM : Wiring Diagram"](#).

1. CHECK BACK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(-)	Condition		Voltage (V) (Approx.)
Back door lock actuator					
Connector	Terminal				
D505	1	Ground	Door lock and unlock switch	Unlock	0 → Battery voltage → 0
	2			Lock	0 → Battery voltage → 0

Is the inspection result normal?

- YES >> Replace back door lock actuator. Refer to [DLK-153. "Exploded View"](#).
NO-1 >> GO TO 2 (lock signal).
NO-2 >> GO TO 3 (unlock signal).

2. CHECK BACK DOOR LOCK ACTUATOR LOCK CIRCUIT

1. Disconnect BCM connector and all door lock actuator connectors.
2. Check continuity between BCM harness connector and back door lock actuator harness connector.

BCM		Back door lock actuator		Continuity
Connector	Terminal	Connector	Terminal	
M99	65	D505	2	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M99	65		No

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-67. "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK BACK DOOR LOCK ACTUATOR UNLOCK CIRCUIT

1. Disconnect back door lock actuator relay connector.
2. Check continuity between back door lock actuator relay harness connector and back door lock actuator harness connector.

Back door lock actuator relay		Back door lock actuator		Continuity
Connector	Terminal	Connector	Terminal	
M41	3	D505	1	Yes

3. Check continuity between BCM harness connector and ground.

Back door lock actuator relay		Ground	Continuity
Connector	Terminal		
M41	3		No

Is the inspection result normal?

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to [GI-41. "Intermittent Incident"](#)

>> Inspection End.

BACK DOOR LOCK ACTUATOR RELAY

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR LOCK ACTUATOR RELAY

Description

INFOID:0000000009519998

Controls back door lock actuator lock/unlock operation.

Component Function Check

INFOID:0000000009519999

1.CHECK FUNCTION

1. Use CONSULT to perform Active Test ("DOOR LOCK").
2. Touch "ALL LOCK" or "ALL UNLK" to check that it works normally.

Is the inspection result normal?

- YES >> Back door lock actuator relay is OK.
NO >> Refer to [DLK-75. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000009520000

Regarding Wiring Diagram information, refer to [DLK-28. "POWER DOOR LOCK SYSTEM : Wiring Diagram"](#).

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10 A fuse, [No. 8, located in fuse block (J/B)].

Is the inspection result normal?

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

2.CHECK BACK DOOR LOCK ACTUATOR RELAY POWER CIRCUIT

1. Remove back door lock actuator relay.
2. Check voltage between back door lock actuator relay harness connector and ground.

(+) Back door lock actuator relay		(-)	Voltage (V) (Approx.)
Connector	Terminal		
M41	1	Ground	Battery voltage
	5		

Is the inspection result normal?

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

3.CHECK BACK DOOR LOCK ACTUATOR RELAY CIRCUIT 1

1. Install the back door lock actuator relay.
2. Check voltage between BCM harness connector and ground.

(+) BCM		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
M100	50	Ground	Door lock and un- lock switch	LOCK	Battery voltage
				UNLOCK	0

Is the inspection result normal?

- YES >> GO TO 6.
NO-1 (when voltage is fixed at 12V)>>Replace BCM. Refer to [BCS-67. "Removal and Installation"](#).
NO-2 (when voltage is fixed at 0V)>>GO TO 4.

4.CHECK BACK DOOR LOCK ACTUATOR RELAY CIRCUIT 1

BACK DOOR LOCK ACTUATOR RELAY

< DTC/CIRCUIT DIAGNOSIS >

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

(+)		(-)	Voltage (V) (Approx.)
BCM			
Connector	Terminal		
M100	50	Ground	Battery voltage

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).
NO >> GO TO 5.

5.CHECK BACK DOOR LOCK ACTUATOR RELAY CIRCUIT 2

1. Remove back door lock actuator relay.
2. Check continuity between BCM harness connector and back door lock actuator relay harness connector.

Back door lock actuator relay		BCM		Continuity
Connector	Terminal	Connector	Terminal	
M41	2	M100	50	Yes

3. Check continuity between BCM harness connector and ground.

Back door lock actuator relay		Ground	Continuity
Connector	Terminal		
M41	2		No

Is the inspection result normal?

- YES >> Replace back door lock actuator relay.
NO >> Repair or replace harness.

6.CHECK BACK DOOR LOCK ACTUATOR RELAY GROUND CIRCUIT

Check continuity between back door lock actuator relay harness connector and ground.

Back door lock actuator relay		Ground	Continuity
Connector	Terminal		
M41	4		Yes

Is the inspection result normal?

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

7.CHECK BACK DOOR LOCK ACTUATOR RELAY

Check back door lock actuator relay. Refer to [DLK-76, "Component Inspection"](#)

Is the inspection result normal?

- YES >> GO TO 8.
NO >> Replace back door lock actuator relay.

8.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to [GI-41, "Intermittent Incident"](#)

>> Inspection End.

Component Inspection

INFOID:000000009520001

1.CHECK BACK DOOR LOCK ACTUATOR RELAY

1. Turn ignition switch OFF.
2. Remove back door lock actuator relay.

BACK DOOR LOCK ACTUATOR RELAY

< DTC/CIRCUIT DIAGNOSIS >

3. Check continuity between back door lock actuator relay terminals.

Back door lock actuator relay		Condition	Continuity
Terminal			
3	4	12 V direct current supply between terminals 1 and 2	No
		No current supply	Yes
	5	12 V direct current supply between terminals 1 and 2	Yes
		No current supply	No

Is the inspection result normal?

- YES >> Inspection End
- NO >> Replace back door lock actuator relay.

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DLK

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK AND UNLOCK SWITCH

Component Function Check

INFOID:000000009515857

1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select CDL LOCK SW, CDL UNLOCK SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CDL LOCK SW	Main power window and door lock/unlock switch	LOCK	ON
		UNLOCK	OFF
CDL UNLOCK SW		LOCK	OFF
		UNLOCK	ON

Is the inspection result normal?

YES >> Main power window and door lock/unlock switch is OK.

NO >> Refer to [DLK-78, "Diagnosis Procedure"](#).

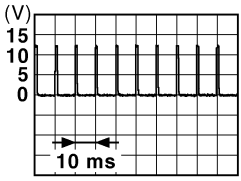
Diagnosis Procedure

INFOID:000000009515858

Regarding Wiring Diagram information, refer to [DLK-28, "POWER DOOR LOCK SYSTEM : Wiring Diagram"](#).

1.CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch connector.
3. Check signal between main power window and door lock/unlock switch harness connector and ground using oscilloscope.

(+)Main power window and door lock/unlock switch		(-)	Signal (Reference value)
Connector	Terminal		
D7	6	Ground	
D8	18		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

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

BCM		Main power window and door lock/unlock switch		Continuity
Connector	Terminal	Connector	Terminal	
M18	12	D8	18	Yes
	13	D7	6	

3. Check continuity between BCM harness connector and ground.

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BCM		Ground	Continuity
Connector	Terminal		
M18	12		No
	13		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between main power window and door lock/unlock switch harness connector and ground.

Main power window and door lock/unlock switch		Ground	Continuity
Connector	Terminal		
D8	17		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR LOCK AND UNLOCK SWITCH

Refer to [DLK-79, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-44, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000009515859

DLK

1.CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

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 terminals.

Main power window and door lock/unlock switch		Condition		Continuity
Terminal				
6	17	Main power window and door lock/ unlock switch	LOCK	No
			UNLOCK	Yes
18			LOCK	Yes
			UNLOCK	No

Is the inspection result normal?

YES >> Inspection End

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-44, "Removal and Installation"](#).

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR REQUEST SWITCH

Component Function Check

INFOID:000000009515860

1.CHECK FUNCTION

1. Select INTELLIGENT KEY of CM 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	Door request switch LH	Pressed	ON
		Released	OFF
REQ SW -AS	Door request switch RH	Pressed	ON
		Released	OFF

Is the inspection result normal?

- YES >> Front door request switch is OK.
NO >> Refer to [DLK-80, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009515861

Regarding Wiring Diagram information, refer to [DLK-37, "INTELLIGENT KEY SYSTEM : Wiring Diagram"](#).

1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

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

(+)		Terminal	(−)	Voltage (Approx.)
Front door request switch				
Connector				
Left side	D17	1	Ground	12 V
Right side	D113			

Is the inspection result normal?

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

2.CHECK DOOR REQUEST SWITCH CIRCUIT

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

Front door request switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
Left side	D17	M98	75	Yes
Right side	D113		100	

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

Front door request switch		Ground	Continuity
Connector	Terminal		
Left side	D17	1	No
Right side	D113		

Is the inspection result normal?

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace BCM. Refer to [BCS-67, "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		Ground	Continuity
Connector	Terminal		
Left side	D17		Yes
Right side	D113	2	

Is the inspection result normal?

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

4.CHECK DOOR REQUEST SWITCH

Refer to [DLK-81, "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Replace malfunctioning front door request switch.

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000009515862

1.CHECK DOOR REQUEST SWITCH

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

Front door request switch		Condition		Continuity
Terminal				
1	2	Door request switch	Pressed	Yes
			Released	No

Is the inspection result normal?

- YES >> Inspection End.
NO >> Replace malfunctioning front door request switch. Refer to [DLK-147, "OUTSIDE HANDLE : Removal and Installation"](#).

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR REQUEST SWITCH

Description

INFOID:000000009519952

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:000000009519953

1.CHECK FUNCTION

Check ("REQSW-BD/TR") in "Data Monitor" mode using CONSULT.

Monitor item	Condition		Status
REQSW-BD/TR	Back door request switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

- YES >> Back door request switch is OK.
NO >> Refer to [DLK-82, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009519954

Regarding Wiring Diagram information, refer to [DLK-37, "INTELLIGENT KEY SYSTEM : Wiring Diagram"](#).

1.CHECK BACK DOOR REQUEST SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (V) (Approx.)
Back door request switch			
Connector	Terminal		
D506	1	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK BACK DOOR REQUEST SWITCH CIRCUIT

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

BCM		Back door request switch		Continuity
Connector	Terminal	Connector	Terminal	
M100	51	D506	1	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M100	51		No

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).
NO >> Repair harness or connector.

3.CHECK BACK DOOR REQUEST SWITCH GROUND CIRCUIT

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

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Back door request switch		Ground	Continuity
Connector	Terminal		
D506	2		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR REQUEST SWITCH

Refer to [DLK-83, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door request switch. Refer to [DLK-153, "OUTSIDE HANDLE : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000009519955

1.CHECK BACK DOOR REQUEST SWITCH

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

Back door request switch		Condition		Continuity
Terminal				
1	2	Back door request switch	Pressed	Yes
			Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door request switch. Refer to [DLK-153, "OUTSIDE HANDLE : Removal and Installation"](#).

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH

Component Function Check

INFOID:000000009515863

1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR SW-DR, DOOR SW-AS, DOOR SW-RL and DOOR SW-RR in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-DR	Front door LH	Open	ON
		Closed	OFF
DOOR SW-AS	Front door RH	Open	ON
		Closed	OFF
DOOR SW-RL	Rear door LH	Open	ON
		Closed	OFF
DOOR SW-RR	Rear door RH	Open	ON
		Closed	OFF

Is the inspection result normal?

YES >> Door switch is OK.

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

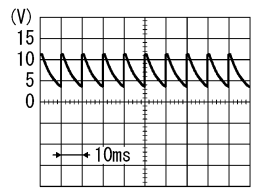
Diagnosis Procedure

INFOID:000000009515864

Regarding Wiring Diagram information, refer to [DLK-37, "INTELLIGENT KEY SYSTEM : Wiring Diagram"](#).

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check signal between malfunctioning door switch harness connector and ground using oscilloscope.

(+)			(-)	Signal (Reference value)
Door switch				
Connector		Terminal		
Front door switch LH	B8	3	Ground	 7.0 - 8.0 V
Front door switch RH	B16	3		
Rear door switch LH	B6	3		
Rear door switch RH	B17	3		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Door switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
Front door switch LH	B8	M100	47	Yes
Front door switch RH	B16		45	
Rear door switch LH	B6		48	
Rear door switch RH	B17		46	

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

Door switch		Ground	Continuity
Connector	Terminal		
Front door switch LH	B8	3	No
Front door switch RH	B16		
Rear door switch LH	B6		
Rear door switch RH	B17		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-67. "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR SWITCH

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch. Refer to [DLK-158. "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:000000009515865

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					
Front door switch LH	3	Ground part of door switch	Door switch	Pressed	No
				Released	Yes
Front door switch RH				Pressed	No
				Released	Yes
Rear door switch LH				Pressed	No
				Released	Yes
Rear door switch RH				Pressed	No
				Released	Yes

Is the inspection result normal?

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Inspection End.
- NO >> Replace malfunction door switch. Refer to [DLK-158, "Removal and Installation"](#).

HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

HAZARD FUNCTION

Component Function Check

INFOID:000000009515866

1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select FLASHER in ACTIVE TEST mode.
3. Touch LH or RH to check that it works normally.

Is the inspection result normal?

- YES >> Hazard warning lamp circuit is OK.
NO >> Refer to [DLK-87. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009515867

1.CHECK HAZARD SWITCH CIRCUIT

Refer to [DLK-87. "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair or replace harness.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-41. "Intermittent Incident"](#).

>> Inspection End.

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INTELLIGENT KEY

< DTC/CIRCUIT DIAGNOSIS >

INTELLIGENT KEY

Component Function Check

INFOID:000000009515868

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 [DLK-88, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009515869

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.

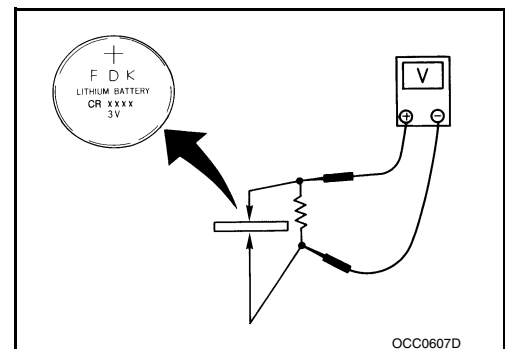
1.CHECK INTELLIGENT KEY BATTERY

Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA. Refer to [DLK-165, "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.



REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

REMOTE KEYLESS ENTRY RECEIVER

Component Function Check

INFOID:000000009515872

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	Checks whether value changes when operating Intelligent Key

Is the inspection result normal?

- YES >> Remote keyless entry receiver is OK.
NO >> Refer to [DLK-89. "Diagnosis Procedure"](#).

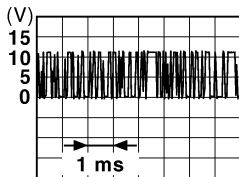
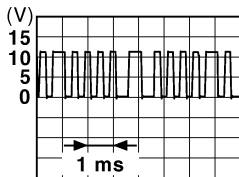
Diagnosis Procedure

INFOID:000000009515874

Regarding Wiring Diagram information, refer to [DLK-37. "INTELLIGENT KEY SYSTEM : Wiring Diagram"](#).

1.CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between remote keyless entry receiver connector and ground with oscilloscope.

Terminals			Condition	Signal (Reference value)
(+)		(-)		
Remote keyless entry receiver connector	Terminal			
M90	2	Ground	Waiting (All doors closed)	 JMKIA0064GB
			When signal is received (All doors closed)	 JMKIA0065GB

Is the inspection result normal?

- YES >> GO TO 7
NO >> GO TO 2

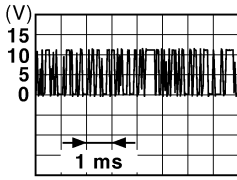
2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

1. Disconnect remote keyless entry receiver connector.
2. Check signal between remote keyless entry receiver connector and ground with oscilloscope.

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

Terminals		Signal (Reference value)
(+)	(-)	
Remote keyless entry receiver connector	Terminal	
M90	4	Ground



1 ms

JMKIA0064GB

Is the inspection result normal?

YES >> GO TO 4

NO >> GO TO 3

3.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

1. Disconnect BCM connector.
2. Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M18	19	M90	4	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M18	19		No

Is the inspection result normal?

YES >> Reconnect BCM, GO TO 4

NO >> Repair or replace harness between BCM and remote keyless entry receiver.

4.CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

Check continuity between remote keyless entry receiver connector and ground.

Remote keyless entry receiver connector	Terminal	Ground	Continuity
M90	1		Yes

Is the inspection result normal?

YES >> GO TO 6

NO >> GO TO 5

5.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2

Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M18	18	M90	1	Yes

Is the inspection result normal?

YES >> GO TO 6

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness between BCM and remote keyless entry receiver.

6.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 3

1. Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M18	20	M90	2	Yes

2. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M18	20		No

Is the inspection result normal?

YES >> GO TO 7

NO >> Repair or replace harness between BCM and remote keyless entry.

7.CHECK REMOTE KEYLESS ENTRY RECEIVER RSSI SIGNAL CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and remote keyless entry receiver harness connector.

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M18	22	M90	3	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M18	22		No

Is the inspection result normal?

YES >> GO TO 8

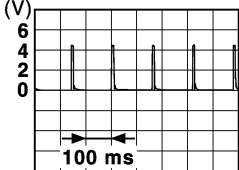
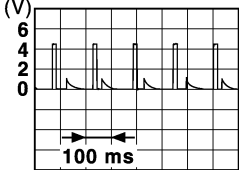
NO >> Repair or replace harness between BCM and remote keyless entry.

8.CHECK REMOTE KEYLESS ENTRY RECEIVER RSSI SIGNAL

1. Reconnect remote keyless entry receiver connector.
2. Check signal between remote keyless entry receiver harness connector and ground using oscilloscope.

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

(+) Remote keyless entry receiver		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M90	3	Ground	During waiting	 JMKIA5952GB
			When pressing and holding either button on Intelligent Key	 JMKIA5953GB

Is the inspection result normal?

YES >> GO TO 9.

NO >> Replace remote keyless entry receiver. Refer to [DLK-164, "Removal and Installation"](#).

9.CHECK INTERMITTENT INCIDENT

Refer to [GI-41, "Intermittent Incident"](#).

>> Inspection End.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Description

INFOID:0000000009516182

All doors do not lock/unlock using door lock and unlock switch.

ALL DOOR : Diagnosis Procedure

INFOID:0000000009516183

1.CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Refer to [DLK-78, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (driver side).

Refer to [DLK-145, "DOOR LOCK : Removal and Installation"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

DRIVER SIDE

DLK

DRIVER SIDE : Description

INFOID:0000000009516184

Driver side door does not lock/unlock using door lock and unlock switch.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000009516185

1.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (driver side).

Refer to [DLK-68, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

PASSENGER SIDE

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE : Description

INFOID:000000009516186

Passenger side door does not lock/unlock using door lock and unlock switch.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000009516187

1.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (passenger side).

Refer to [DLK-69, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

REAR LH

REAR LH : Description

INFOID:000000009516188

Rear LH side door does not lock/unlock using door lock and unlock switch.

REAR LH : Diagnosis Procedure

INFOID:000000009516189

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock assembly LH.

Refer to [DLK-70, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

REAR RH

REAR RH : Description

INFOID:000000009516190

Rear RH side door does not lock/unlock using door lock and unlock switch.

REAR RH : Diagnosis Procedure

INFOID:000000009516191

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock assembly RH.

Refer to [DLK-71, "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "Removal and Installation"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

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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DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

Diagnosis Procedure

INFOID:000000009516192

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-78, "Diagnosis Procedure"](#).

2.CHECK UNLOCK SENSOR

Check unlock sensor.

Refer to [DLK-78, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH ALL DOOR REQUEST SWITCHES

ALL DOOR REQUEST SWITCHES : Description

INFOID:0000000009516193

All doors do not lock/unlock using all door request switches.

ALL DOOR REQUEST SWITCHES : Diagnosis Procedure

INFOID:0000000009516194

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.

NO >> Refer to [DLK-17, "System Description"](#).

2.CHECK LOCK/UNLOCK BY I-KEY SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM using CONSULT.

2. Select LOCK/UNLOCK BY I-KEY in WORK SUPPORT mode.

3. Check LOCK/UNLOCK BY I-KEY setting in WORK SUPPORT.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "ON" in "LOCK/UNLOCK BY I-KEY".

3.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-84, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-54, "DTC Logic"](#).

• Console: Refer to [DLK-56, "DTC Logic"](#).

• Luggage room: Refer to [DLK-58, "DTC Logic"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.

• Driver side: Refer to [DLK-60, "DTC Logic"](#).

• Passenger side: Refer to [DLK-62, "DTC Logic"](#).

• Rear bumper: Refer to [DLK-64, "DTC Logic"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

DRIVER SIDE DOOR REQUEST SWITCH

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

DRIVER SIDE DOOR REQUEST SWITCH : Description

INFOID:000000009516195

All doors do not lock/unlock using driver side door request switch.

DRIVER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:000000009516196

1.CHECK DRIVER SIDE DOOR REQUEST SWITCH

Check driver side door request switch.

Refer to [DLK-80, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (driver side).

Refer to [DLK-60, "DTC Logic"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

PASSENGER SIDE DOOR REQUEST SWITCH

PASSENGER SIDE DOOR REQUEST SWITCH : Description

INFOID:000000009516197

All doors do not lock/unlock using passenger side door request switch.

PASSENGER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:000000009516198

1.CHECK PASSENGER SIDE DOOR REQUEST SWITCH

Check passenger side door request switch.

Refer to [DLK-80, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (passenger side).

Refer to [DLK-62, "DTC Logic"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:000000009516199

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-78, "Diagnosis Procedure"](#).

2.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to [DLK-89, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to [DLK-88, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-84, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009516204

1. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with driver side door lock knob and door key cylinder?

YES >> GO TO 2.

NO >> Refer to [DLK-78, "Diagnosis Procedure"](#).

2. CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-84, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009516205

1.CHECK AUTO LOCK SET SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select AUTO LOCK SET in WORK SUPPORT mode.
3. Check AUTO LOCK SET setting in WORK SUPPORT.
Refer to [BCS-21, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Set MODE 2, MODE 3, MODE 4, MODE 5, MODE 6 or MODE 7 in AUTO LOCK SET.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

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VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009516206

1. CHECK AUTOMATIC LOCK/UNLOCK SELECT SETTING IN WORK SUPPORT

1. Select DOOR LOCK of BCM using CONSULT.
2. Select AUTOMATIC LOCK/UNLOCK SELECT in WORK SUPPORT mode.
3. Check AUTOMATIC LOCK/UNLOCK SELECT setting in WORK SUPPORT.
Refer to [BCS-17, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Set Lock Only or Lock/Unlock in WORK SUPPORT.

2. CHECK AUTOMATIC DOOR LOCK SELECT SETTING IN WORK SUPPORT

1. Select DOOR LOCK of BCM using CONSULT.
2. Select AUTOMATIC DOOR LOCK SELECT in WORK SUPPORT mode.
3. Check AUTOMATIC DOOR LOCK SELECT setting in WORK SUPPORT.
Refer to [BCS-17, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Set VH SPD in AUTOMATIC DOOR LOCK SELECT.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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 AND BUZZER REMINDER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

HAZARD AND BUZZER REMINDER DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009516208

1.CHECK HAZARD ANSWER BACK SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select HAZARD ANSWER BACK in WORK SUPPORT mode.
3. Check the HAZARD ANSWER BACK setting in WORK SUPPORT.
Refer to [BCS-21, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Set the Lock Only, Unlock Only or Lock/Unlock in HAZARD ANSWER BACK.

2.CHECK ANS BACK I-KEY LOCK SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select ANS BACK I-KEY LOCK in WORK SUPPORT mode.
3. Check the ANS BACK I-KEY LOCK setting in WORK SUPPORT.
Refer to [BCS-21, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Set the Horn Chirp or Buzzer in ANS BACK I-KEY LOCK.

3.CHECK ANS BACK I-KEY UNLOCK SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select ANS BACK I-KEY UNLOCK in WORK SUPPORT mode.
3. Check the ANS BACK I-KEY UNLOCK 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 the On in ANS BACK I-KEY UNLOCK.

4.CHECK HAZARD FUNCTION

Check hazard function.

Refer to [DLK-87, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEY REMINDER FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009516209

1. CHECK ANTI KEY LOCK IN FUNCTI SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select ANTI KEY LOCK IN FUNCTI in WORK SUPPORT mode.
3. Check ANTI KEY LOCK IN FUNCTI setting in WORK SUPPORT.
Refer to [BCS-21, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Set On in ANTI KEY LOCK IN FUNCTI.

2. CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-84, "Component Function Check"](#).

Is the inspection result normal?

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

3. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to [DLK-54, "DTC Logic"](#).
- Console: Refer to [DLK-56, "DTC Logic"](#).
- Luggage room: Refer to [DLK-58, "DTC Logic"](#).

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CHECK UNLOCK SENSOR

Check unlock sensor.

Refer to [DLK-78, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5. REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

OFF POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

OFF POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009516210

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 (driver side).

Refer to [DLK-84, "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 [DLK-67, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

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P POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

P POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009516211

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 COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-67, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to [DLK-84, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

ACC WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

ACC WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009516212

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 COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-67, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

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TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

TAKE AWAY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009516213

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 INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to [DLK-54, "DTC Logic"](#).
- Console: Refer to [DLK-56, "DTC Logic"](#).
- Trunk room: Refer to [DLK-58, "DTC Logic"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-84, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-67, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009516214

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.

3. 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.

4.CHECK INTELLIGENT KEY

Check Intelligent key.

Refer to [DLK-88, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-54, "DTC Logic"](#).

• Console: Refer to [DLK-56, "DTC Logic"](#).

• Luggage room: Refer to [DLK-58, "DTC Logic"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009516215

1.CHECK DOOR LOCK FUNCTION

Check door lock function.

Does door lock/unlock using door request switch?

YES >> GO TO 2.

NO >> Refer to [DLK-80, "Diagnosis Procedure"](#).

2.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-67, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

KEY ID WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

KEY ID WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009516216

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 INTELLIGENT KEY

Check Intelligent Key.

Refer to [DLK-88, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-54, "DTC Logic"](#).

• Console: Refer to [DLK-56, "DTC Logic"](#).

• Luggage room: Refer to [DLK-58, "DTC Logic"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.REPLACE BCM

1. Replace BCM. Refer to [BCS-67, "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"](#).

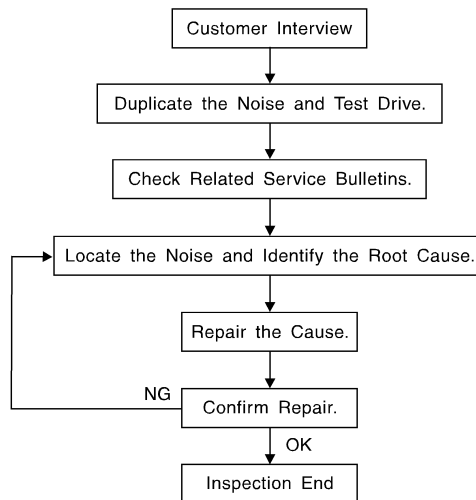
SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000009671276



SBT842

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-116, "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 >

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-113, "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:000000009671277

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

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
5. 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:

1. 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
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks 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
3. 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
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

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 >

3. 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:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component 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.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

Diagnostic Worksheet

INFOID:000000009671278

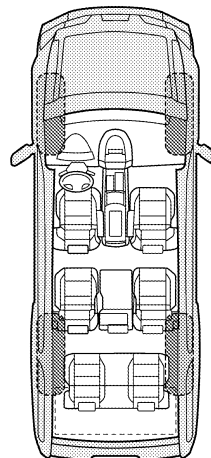
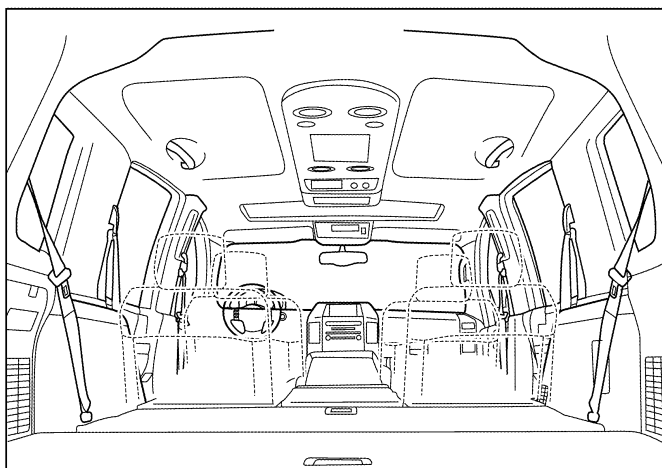
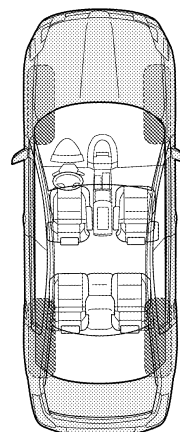
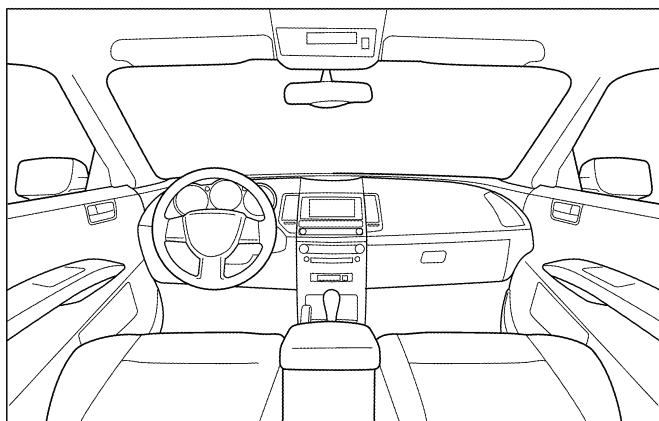
Dear Customer:

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 >

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| ☐ 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: |

III. WHEN DRIVING:

- ☐ Through driveways
- ☐ Over rough roads
- ☐ Over speed bumps
- ☐ Only about ____ mph
- ☐ On acceleration
- ☐ Coming to a stop
- ☐ On turns: left, right or either (circle)
- ☐ With passengers or cargo
- ☐ Other: _____
- ☐ After driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- ☐ Squeak (like tennis shoes on a clean floor)
- ☐ Creak (like walking on an old wooden floor)
- ☐ Rattle (like shaking a baby rattle)
- ☐ Knock (like a knock at the door)
- ☐ Tick (like a clock second hand)
- ☐ Thump (heavy muffled knock noise)
- ☐ Buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	☐	☐	_____
- Noise verified on test drive	☐	☐	_____
- Noise source located and repaired	☐	☐	_____
- Follow up test drive performed to confirm repair	☐	☐	_____

VIN: _____ Customer Name _____
W.O.# _____ Date: _____

This form must be attached to Work Order

LAIA0071E

HOOD

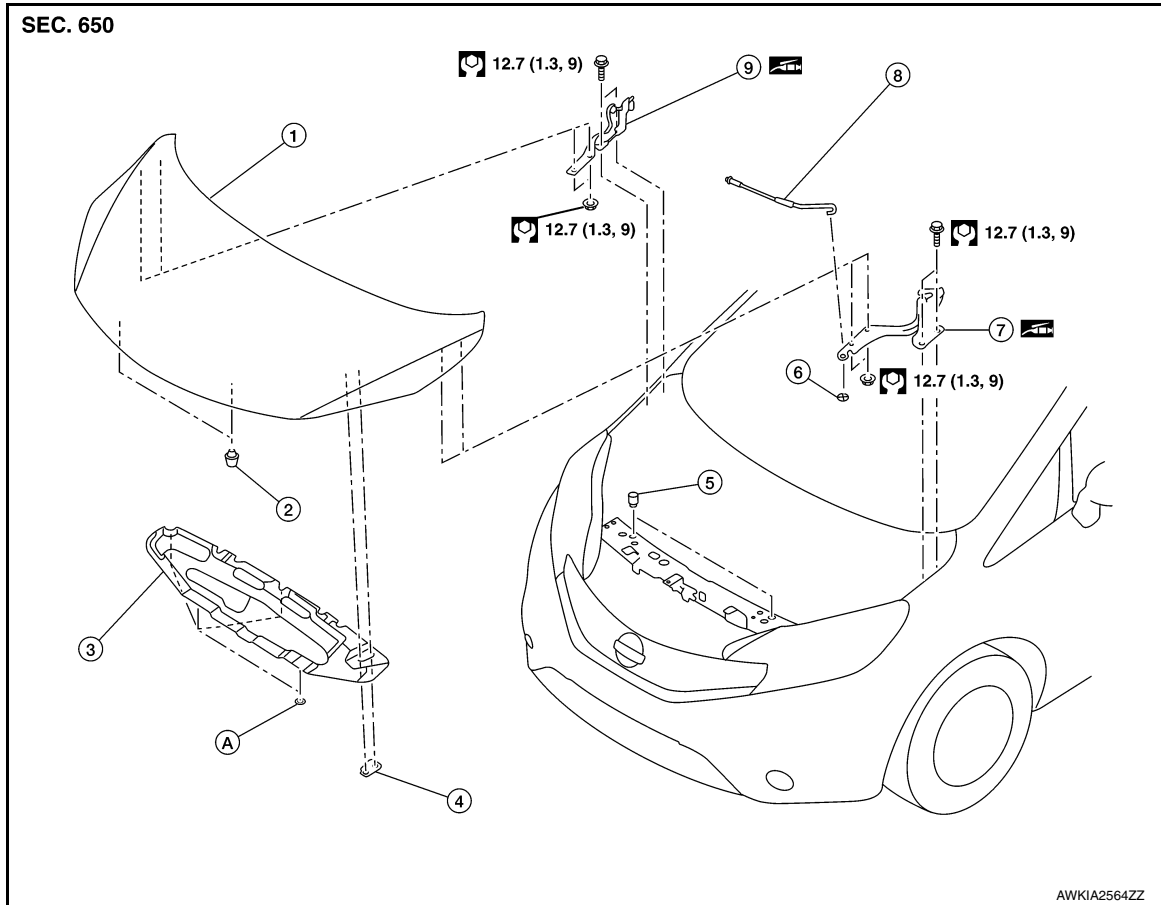
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

HOOD

Exploded View

INFOID:000000009567329



- | | | |
|------------------------|------------------------------|---------------------------------|
| 1. Hood | 2. Bumper rubber (hood side) | 3. Hood insulator (if equipped) |
| 4. Hood rod clamp | 5. Bumper rubber (body side) | 6. Hood rod grommet |
| 7. Hood hinge (LH) | 8. Hood support rod | 9. Hood hinge (RH) |
| A. Hood insulator clip | | |

HOOD ASSEMBLY

HOOD ASSEMBLY : Removal and Installation

INFOID:000000009567330

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 hood assembly using a suitable tool.

WARNING:

Bodily injury may occur if hood assembly is not supported properly when removing hood assembly.

2. Remove hood hinge nuts and hood assembly.
3. Remove clips and hood insulator (if necessary) (if equipped).

INSTALLATION

HOOD

< REMOVAL AND INSTALLATION >

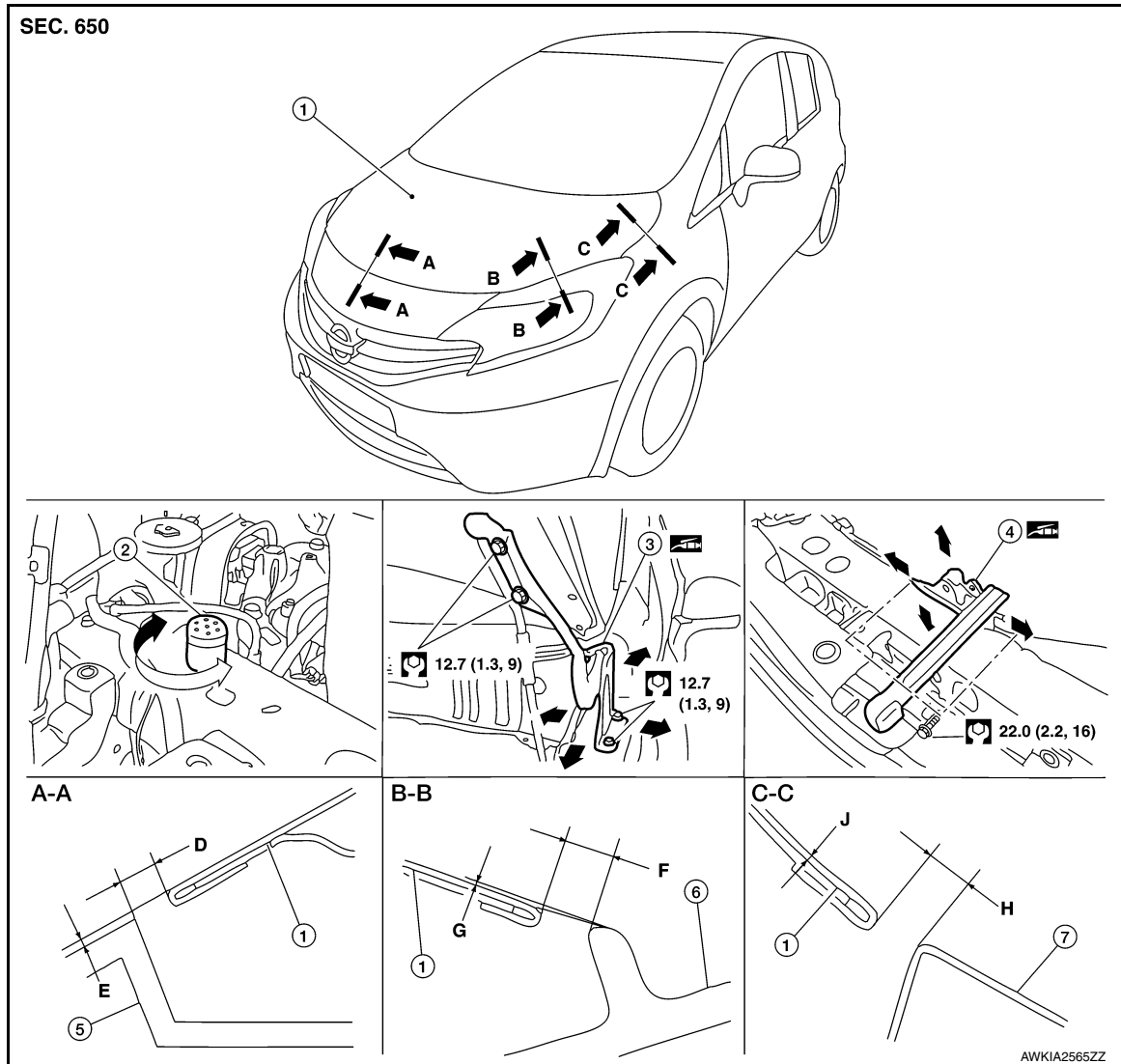
Installation is in the reverse order of removal.

CAUTION:

- Before installing hood assembly, apply anticorrosive agent to the surface of hood hinge.
- After installation, perform the hood assembly adjustment procedure. Refer to [DLK-119, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (body color) to the head of hood hinge nuts.

HOOD ASSEMBLY : Adjustment

INFOID:000000009567331



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 procedure.

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism	Equality
A - A	D	Clearance	4.4 ± 2.0 (0.17 $\pm$ 0.08)	2.0 (0.08)	—
	E	Surface height	-0.5 +2.0, -1.5 (0.02 +0.08, -0.06)	2.0 (0.08)	—
B - B	F	Clearance	4.0 ± 2.0 (0.16 $\pm$ 0.08)	2.0 (0.08)	3.0 (0.12)
	G	Surface height	—	—	—

HOOD

< REMOVAL AND INSTALLATION >

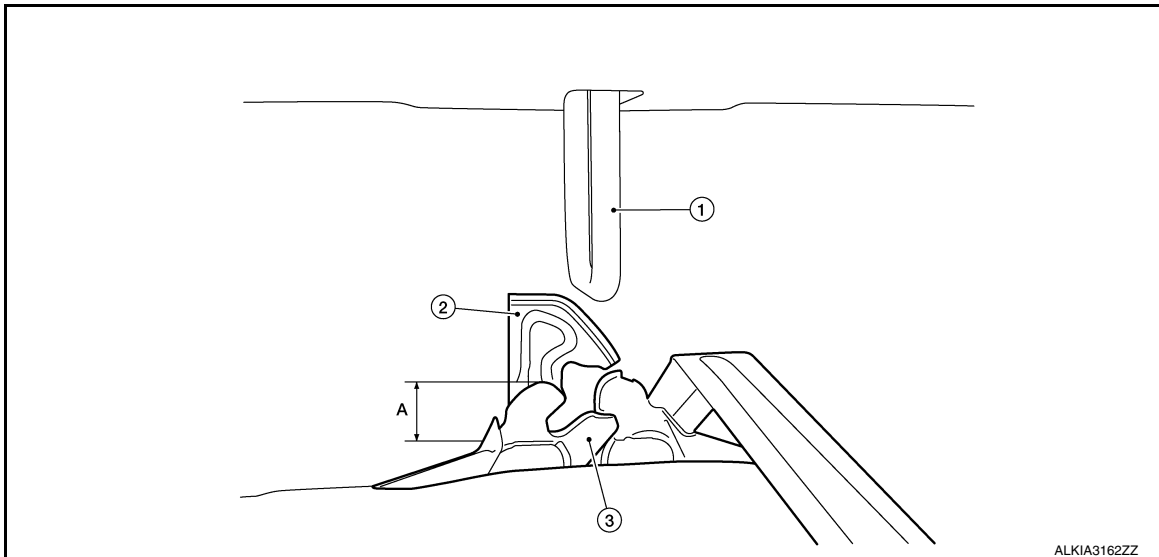
Section	Item	Measurement	Standard	Parallelism	Equality
C – C	H	Clearance	3.5 ± 1.0 (0.14 ± 0.04)	1.5 (0.06)	1.5 (0.06)
	J	Surface height	0.0 ± 1.5 (0.0 ± 0.06)	1.5 (0.06)	1.5 (0.06)

CLEARANCE ADJUSTMENT

1. Loosen hood hinge nuts and bolts.
2. Loosen hood lock assembly bolts.
3. Adjust the hood lock assembly so the clearance measurements are within the specifications provided.
4. Tighten hood hinge nuts and bolts to specified torque.
5. Tighten hood lock assembly bolts to specified torque.

HEIGHT ADJUSTMENT

1. Loosen hood lock assembly bolts.
2. Adjust the surface height of hood assembly to front upper grille, front fender and front combination lamp to the specified values by rotating hood bumper rubber.
3. Temporarily tighten hood lock assembly bolts.
4. Adjust (A) 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. Hood striker
A. 20.0 mm (0.79 in)
2. Secondary latch
3. Primary latch

5. After adjustment, tighten hood lock assembly bolts to specified torque.

HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:000000009567332

REMOVAL

1. Remove hood assembly. Refer to [DLK-118, "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove front fender. Refer to [DLK-125, "Removal and Installation"](#).
3. Remove cowl top side cover. Refer to [EXT-22, "Exploded View"](#).
4. Remove hood hinge bolts and hood hinge.

INSTALLATION

Installation is in the reverse order of removal.

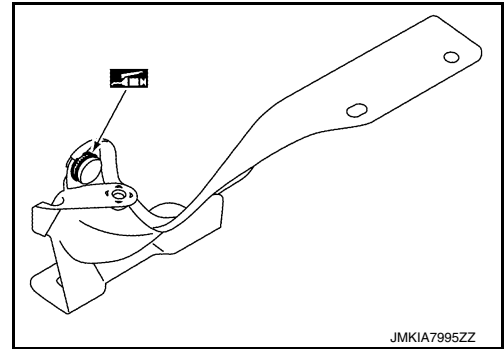
CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.

HOOD

< REMOVAL AND INSTALLATION >

- Check hood hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.



HOOD SUPPORT ROD

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000009567333

REMOVAL

1. Support hood assembly using a suitable tool.

WARNING:

Bodily injury may occur if hood assembly is not supported properly when removing hood support rod.

2. Rotate and remove hood support rod from grommet.
3. Release tab and remove grommet from hood hinge (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

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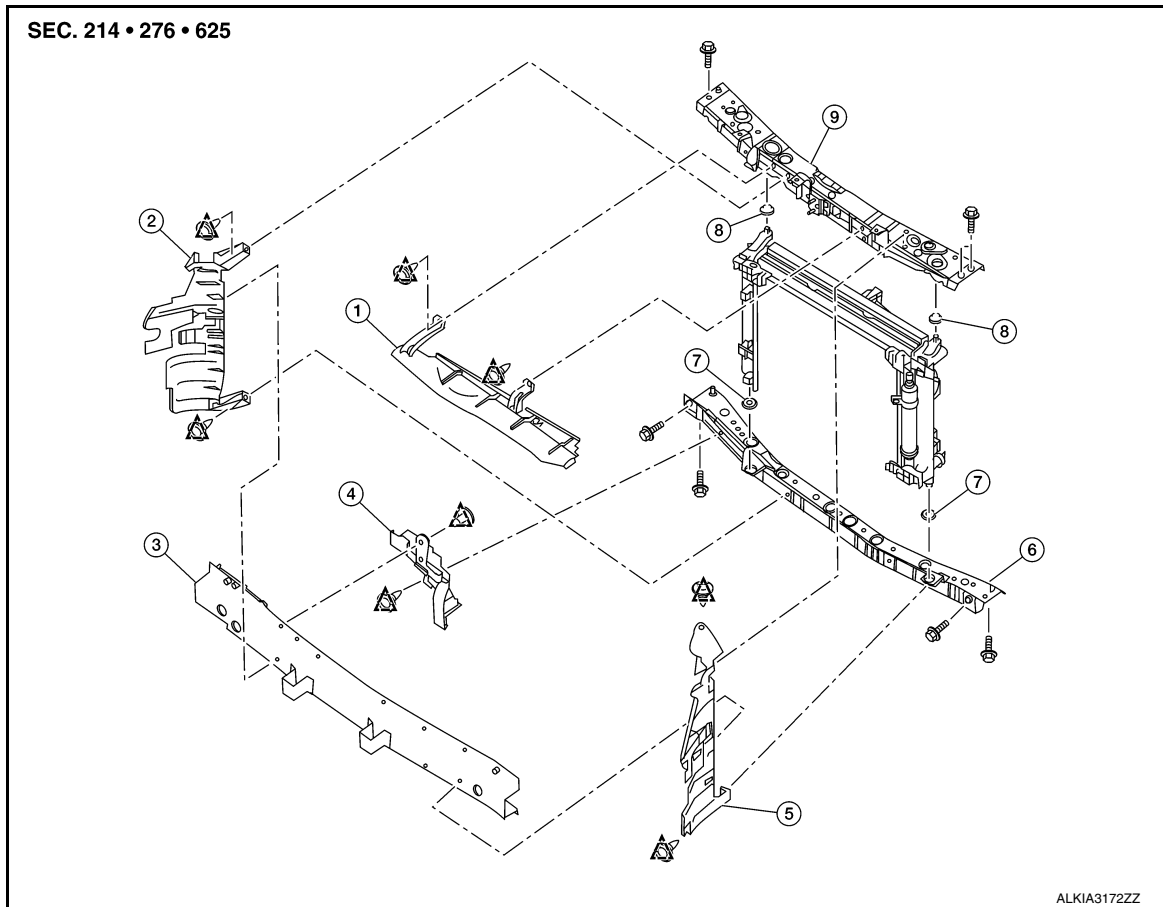
RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

RADIATOR CORE SUPPORT

Exploded View

INFOID:000000009567334



- | | | |
|--------------------|-------------------|--------------------------------|
| 1. Upper air guide | 2. Air guide (RH) | 3. Front bumper reinforcement |
| 4. Lower air guide | 5. Air guide (LH) | 6. Radiator core lower support |
| 7. Lower grommet | 8. Upper grommet | 9. Radiator core upper support |

 Clip

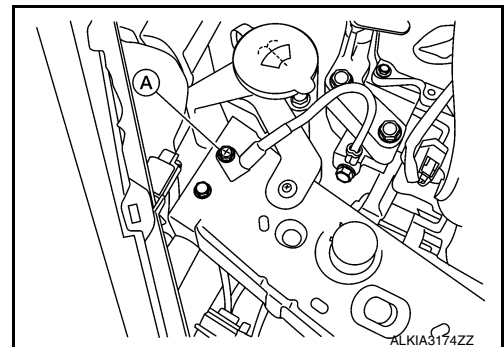
RADIATOR CORE SUPPORT UPPER

RADIATOR CORE SUPPORT UPPER : Removal and Installation

INFOID:000000009567335

REMOVAL

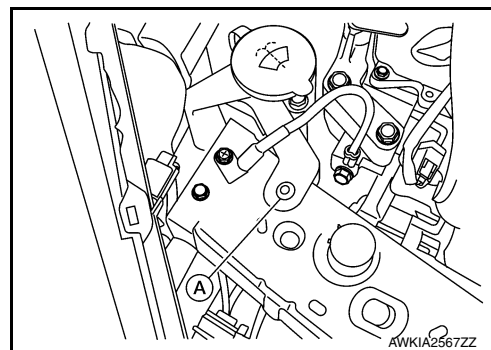
1. Remove front grille. Refer to [EXT-21, "Removal and Installation"](#).
2. Remove ground harness bolt (A).



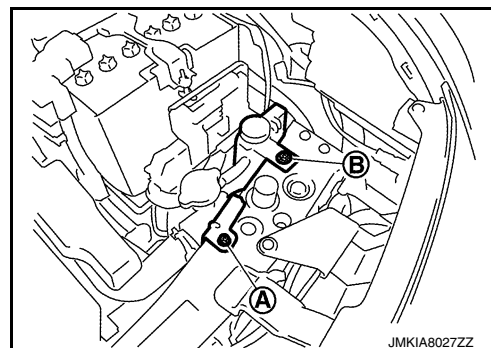
RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

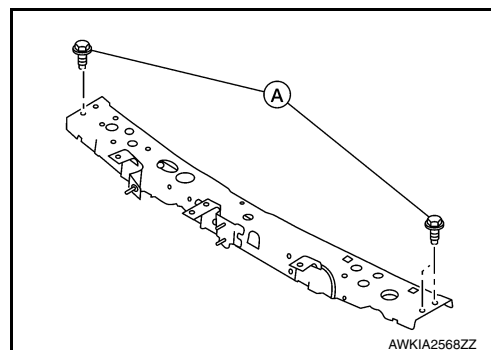
3. Remove washer tube inlet clip (A).



4. Remove radiator cap adapter bracket bolt (A) and radiator reservoir tank bolt (B).



5. Remove horn. Refer to [HRN-6, "Removal and Installation"](#).
6. Remove crash zone sensor. Refer to [SR-19, "Removal and Installation"](#).
7. Remove hood lock assembly. Refer to [DLK-142, "HOOD LOCK : Removal and Installation"](#).
8. Release hood lock release cable clips from radiator core support upper using a suitable tool.
9. Remove upper air guide. Refer to [DLK-122, "Exploded View"](#).
10. Remove air guide (LH/RH). Refer to [DLK-122, "Exploded View"](#).
11. Release all harness connector clips from radiator core support upper using a suitable tool.
12. Remove bolts (A) and radiator core support upper.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, perform hood assembly adjustment procedure. Refer to [DLK-119, "HOOD ASSEMBLY : Adjustment"](#).

RADIATOR CORE SUPPORT LOWER

RADIATOR CORE SUPPORT LOWER : Removal and Installation

INFOID:000000009567336

REMOVAL

1. Remove radiator core support upper. Refer to [DLK-122, "RADIATOR CORE SUPPORT UPPER : Removal and Installation"](#).
2. Reposition the radiator and condenser.

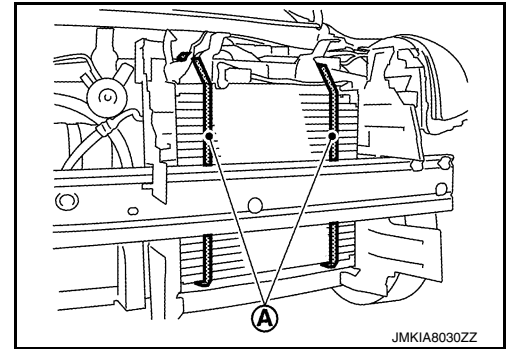
RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

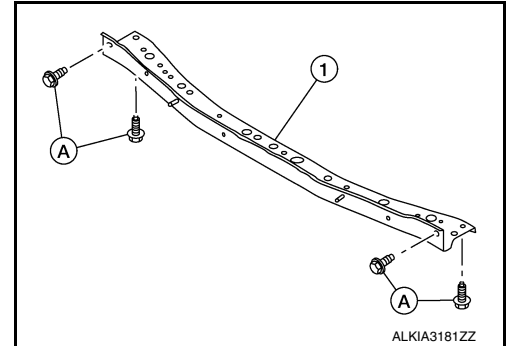
3. Using a suitable tool (A), suspend radiator and condenser to prevent them from falling.

CAUTION:

Use care to avoid damaging radiator and condenser.



4. Remove bolts (A) and radiator core support lower (1).



INSTALLATION

Installation is in the reverse order of removal.

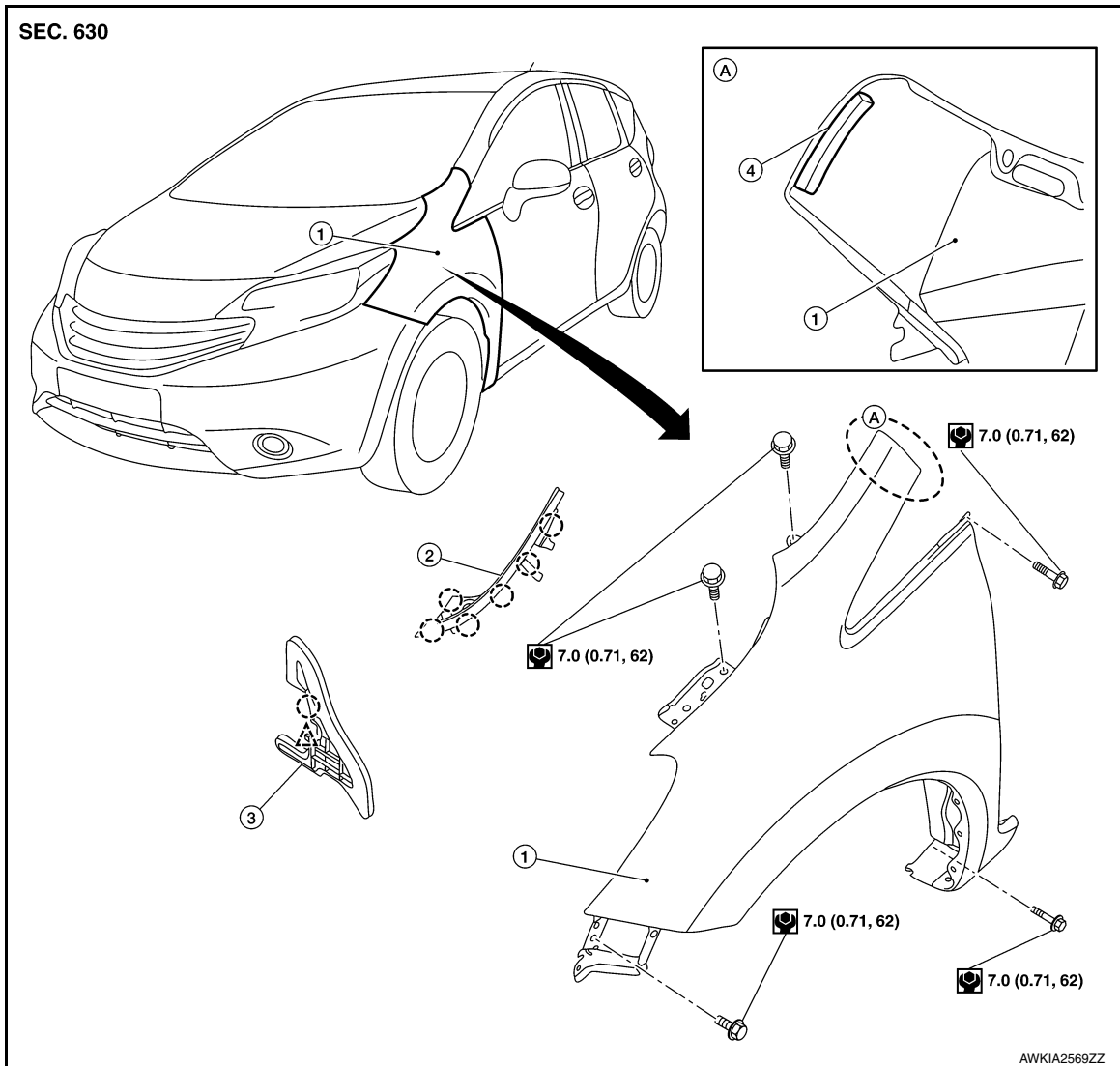
FRONT FENDER

< REMOVAL AND INSTALLATION >

FRONT FENDER

Exploded View

INFOID:000000009567337



- | | | |
|---------------------------|------------------------|---------------------------|
| 1. Front fender | 2. Cowl top side cover | 3. Front fender insulator |
| 4. Front fender stiffener | ○ Pawl | △ Clip |

Removal and Installation

INFOID:000000009567338

CAUTION:

Use a shop cloths to protect the body from being damaged during removal and installation.

REMOVAL

1. Remove the front combination lamp. Refer to [EXL-108. "Removal and Installation"](#).
2. Remove cowl top side cover. Refer to [DLK-125. "Exploded View"](#).
3. Remove front fender bolts.

FRONT FENDER

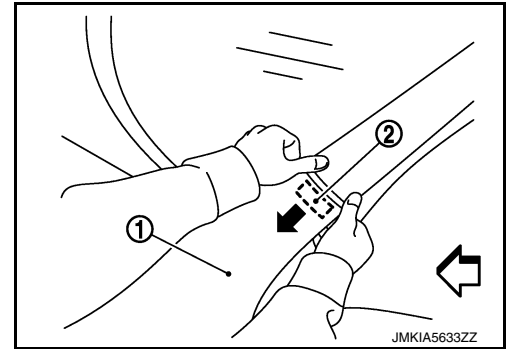
< REMOVAL AND INSTALLATION >

4. Remove front fender stiffener (2) by carefully pulling upper portion of front fender (1) away from body.

⇐: Front

CAUTION:

Use care when removing the front fender. The front fender stiffener foam adheres the front fender to the body. Carefully release the stiffener foam or damage to front fender may occur.



5. Remove front fender.

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 [DLK-119, "HOOD ASSEMBLY : Adjustment"](#).
 - Front door assembly: Refer to [DLK-128, "DOOR ASSEMBLY : Adjustment"](#).

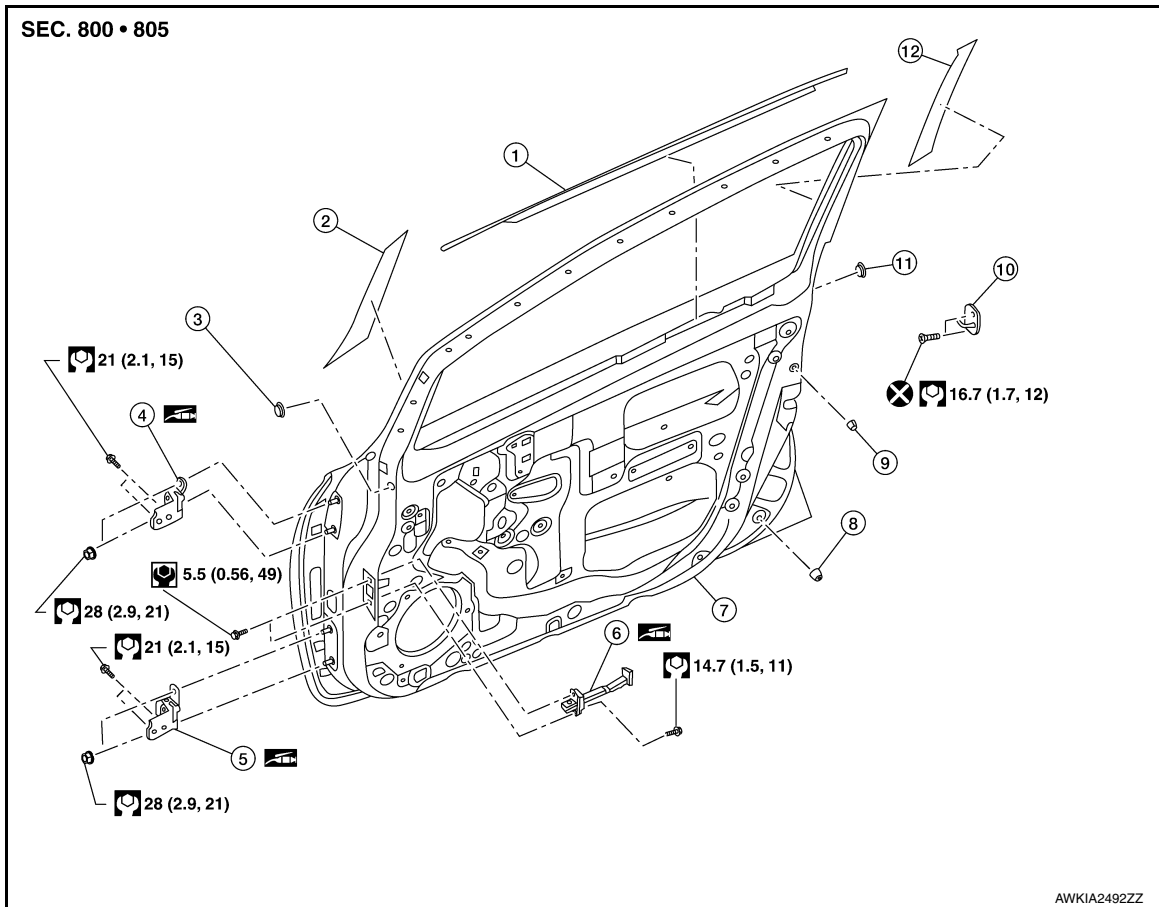
FRONT DOOR

< REMOVAL AND INSTALLATION >

FRONT DOOR

Exploded View

INFOID:000000009567339



- | | | |
|---------------------|-------------------------|-------------------------------|
| 1. Inside seal | 2. Door sash front tape | 3. Grommet (driver side only) |
| 4. Door upper hinge | 5. Door lower hinge | 6. Door check link |
| 7. Front door panel | 8. Lower grommet | 9. Upper grommet |
| 10. Door striker | 11. Body panel plug | 12. Door sash rear tape |

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

INFOID:000000009567340

CAUTION:

- Use two people when removing or installing front door due to its heavy weight
- When removing and installing front door assembly, support the door using a suitable tool.
- Do not use air tools or electric tools for servicing.
- Before servicing, turn ignition switch off, disconnect both battery terminals and wait at least three minutes.

REMOVAL

1. Disconnect the battery positive and negative terminals and wait at least three minutes. Refer to [PG-69, "Removal and Installation \(Battery\)"](#).
2. Remove dash side finisher. Refer to [INT-22, "DASH SIDE FINISHER : Removal and Installation"](#).
3. Disconnect the harness connectors from the front door.
4. Remove door check link bolt (body side).
5. Remove door hinge nuts (door side) and front door assembly.

INSTALLATION

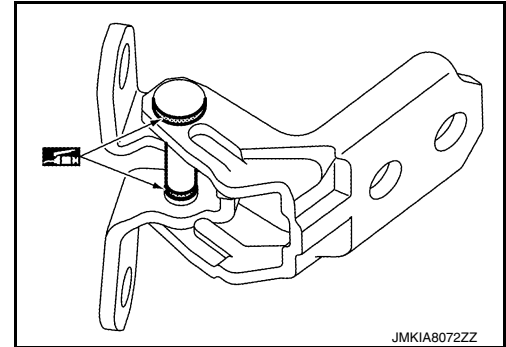
FRONT DOOR

< REMOVAL AND INSTALLATION >

Installation is in the reverse order of removal.

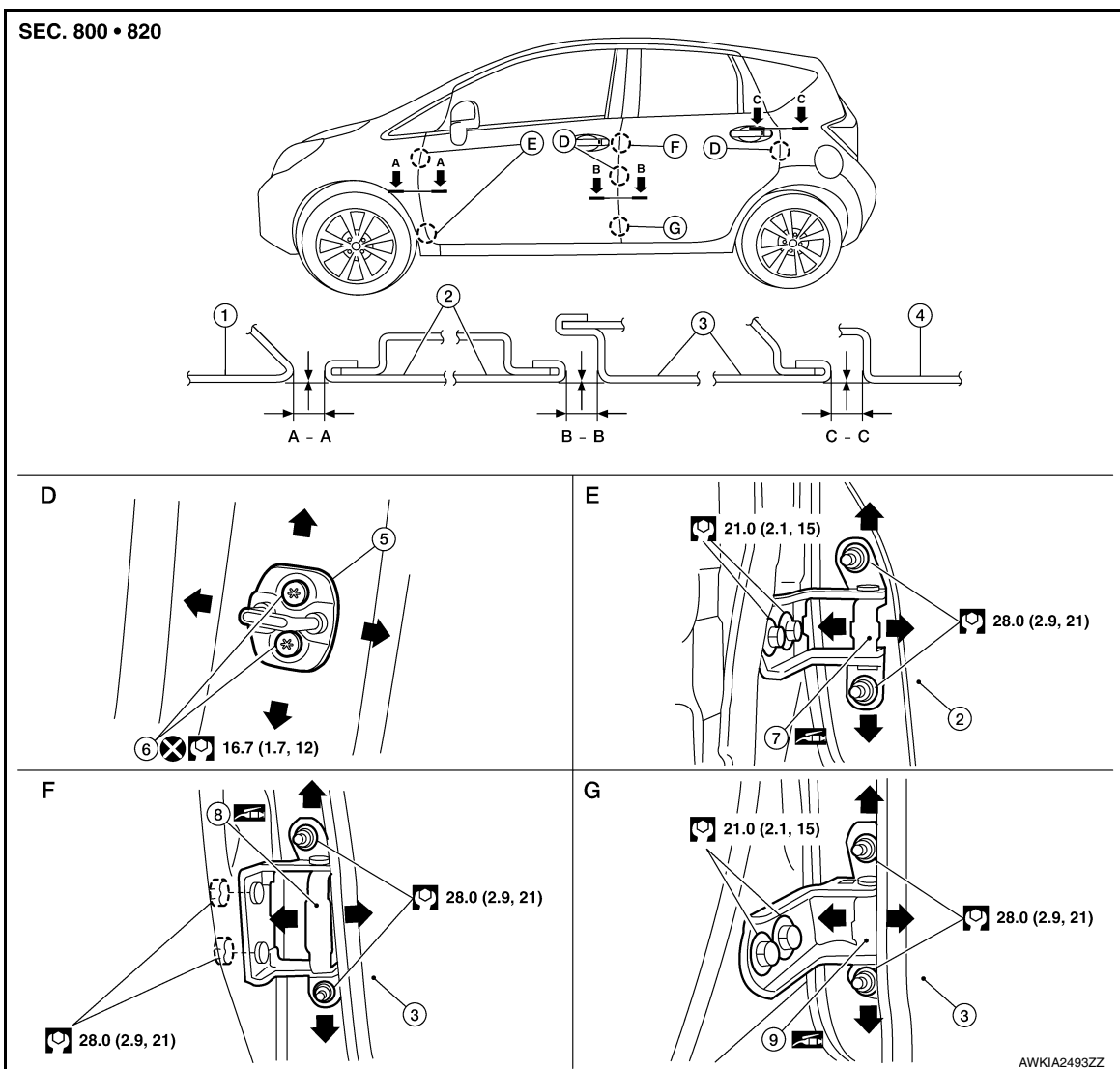
CAUTION:

- After installation, perform the front door adjustment procedure. Refer to [DLK-128, "DOOR ASSEMBLY : Adjustment"](#).
- Apply anticorrosive agent to the door hinge mating surface.
- Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.



DOOR ASSEMBLY : Adjustment

INFOID:000000009567341



- | | | |
|---------------------|--------------------------|--------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Door striker | 6. Striker bolt |
| 7. Front door hinge | 8. Rear door upper hinge | 9. Rear door lower hinge |

FRONT DOOR

< REMOVAL AND INSTALLATION >

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.

Unit: mm (in)

Section	Measurement	Standard
A – A	Clearance	4.6 ± 1.0 (0.18 ± 0.04)
	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
B – B	Clearance	4.6 ± 2.0 (0.18 ± 0.08)
	Surface height	0.0 ± 1.5 (0.0 ± 0.06)
C – C	Clearance	4.6 ± 1.0 (0.18 ± 0.04)
	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

1. Remove front fender. Refer to [DLK-125, "Removal and Installation"](#).
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 or lower the 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.
8. Install front fender. Refer to refer to [DLK-125, "Removal and Installation"](#).

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:0000000009567342

REMOVAL

Remove bolts and door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

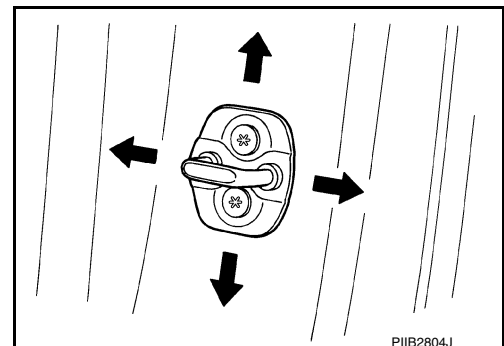
- Do not reuse door striker bolts.
- Tighten bolts to specification. Refer to [DLK-127, "Exploded View"](#).
- After installation, check front door open/close operation. If necessary, perform the door striker adjustment procedure. Refer to [DLK-129, "DOOR STRIKER : Adjustment"](#).

DOOR STRIKER : Adjustment

INFOID:0000000009567343

DOOR STRIKER ADJUSTMENT

1. Loosen door striker bolts
2. Adjust door striker so that it becomes parallel with front door lock insertion direction.



FRONT DOOR

< REMOVAL AND INSTALLATION >

3. Tighten door striker bolts to specification. Refer to [DLK-127, "Exploded View"](#).

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:000000009567344

REMOVAL

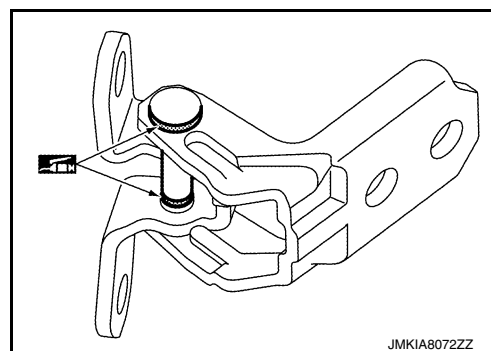
1. Remove front fender. Refer to [DLK-125, "Removal and Installation"](#).
2. Remove front door assembly. Refer to [DLK-127, "DOOR ASSEMBLY : Removal and Installation"](#).
3. Remove front door hinge bolts (body side) and front door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent to the hinge mating surface.
- After installation, perform the front door adjustment procedure. Refer to [DLK-128, "DOOR ASSEMBLY : Adjustment"](#).
- Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.



DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000009567345

REMOVAL

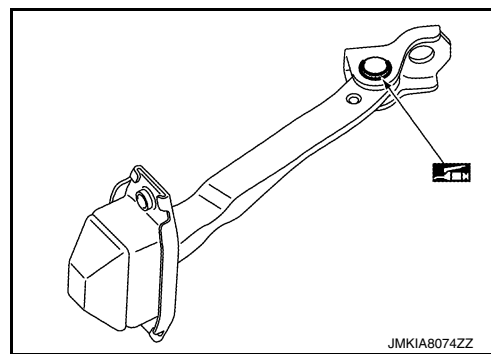
1. Remove front door speaker. Refer to [AV-34, "Removal and Installation"](#) (BASE AUDIO), [AV-94, "Removal and Installation"](#) (DISPLAY AUDIO) or [AV-179, "Removal and Installation"](#) (NAVIGATION).
2. Remove door check link bolt (body side).
3. Remove door check link bolts (door side) and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

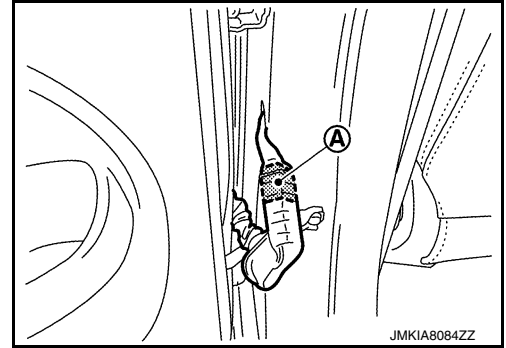
- After installation, check rear door open/close, lock/unlock operation.
- Check door check link rotating point for poor lubrication. If necessary, apply a multi-purpose grease.



REAR DOOR

< REMOVAL AND INSTALLATION >

2. Disconnect the harness connector (A) from rear door.



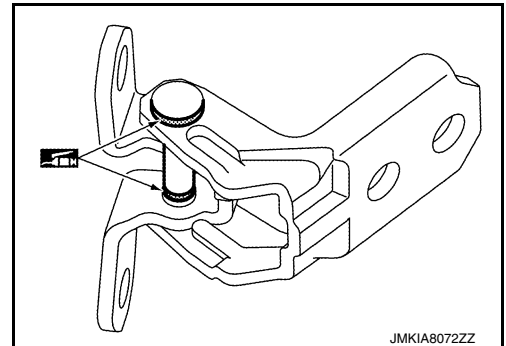
3. Remove door check link bolt (body side).
4. Remove door hinge nuts (door side) and rear door assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent to the hinge mating surface.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-133, "DOOR ASSEMBLY : Adjustment"](#).
- After adjusting, apply touch-up paint (body color) to the head of door hinge nuts.
- Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.

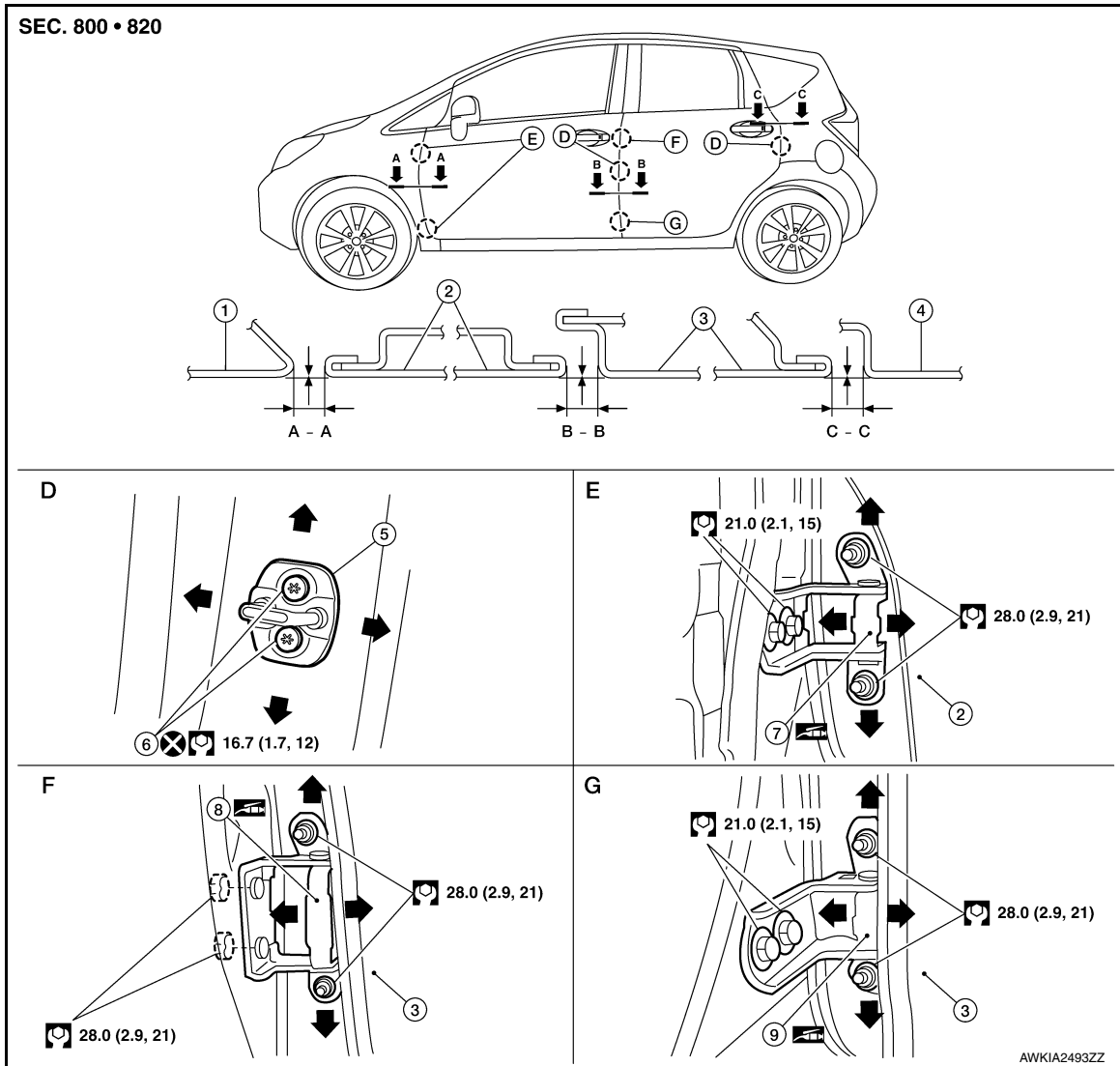


REAR DOOR

< REMOVAL AND INSTALLATION >

DOOR ASSEMBLY : Adjustment

INFOID:000000009567348



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 procedure.

Unit: mm (in)

Section	Measurement	Standard
A - A	Clearance	4.6 ± 1.0 (0.18 ± 0.04)
	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
B - B	Clearance	4.6 ± 2.0 (0.18 ± 0.08)
	Surface height	0.0 ± 1.5 (0.0 ± 0.06)
C - C	Clearance	4.6 ± 1.0 (0.18 ± 0.04)
	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

1. Remove center pillar lower finisher. Refer to [INT-23, "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).

REAR DOOR

< REMOVAL AND INSTALLATION >

- Loosen door hinge nuts (door side).
 - Adjust the surface height of rear door according to the specifications provided.
 - Temporarily tighten door hinge nuts (door side).
 - Loosen door hinge nuts and bolts (body side).
 - 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:**
- Apply touch-up paint (body color) to the head of hinge bolts and nuts.
 - Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- Install center pillar lower finisher. Refer to [INT-23, "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:000000009567349

REMOVAL

Remove bolts and rear door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

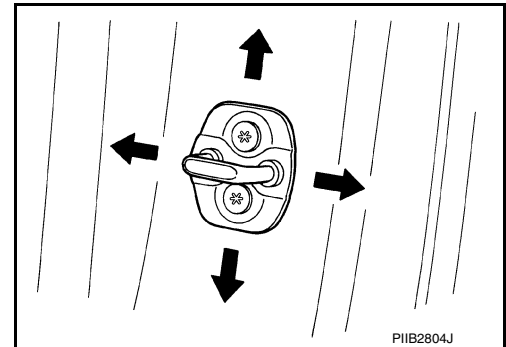
- Do not reuse door striker bolts.
- Tighten door striker bolts to specification. Refer to [DLK-131, "Exploded View"](#).
- After installation, check front door open/close operation. If necessary, adjust the door striker. Refer to [DLK-134, "DOOR STRIKER : Adjustment"](#).

DOOR STRIKER : Adjustment

INFOID:000000009567350

DOOR STRIKER ADJUSTMENT

- Loosen door striker bolts.
- Adjust door striker so that it becomes parallel with rear door lock insertion direction.



- Tighten door striker bolts to specification. Refer to [DLK-131, "Exploded View"](#).

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:000000009567351

REMOVAL

- Remove rear door assembly. Refer to [DLK-131, "DOOR ASSEMBLY : Removal and Installation"](#).
- Remove center pillar lower finisher. Refer to [INT-23, "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).
- Remove rear door hinge bolts and nuts (body side) and rear door hinge.

INSTALLATION

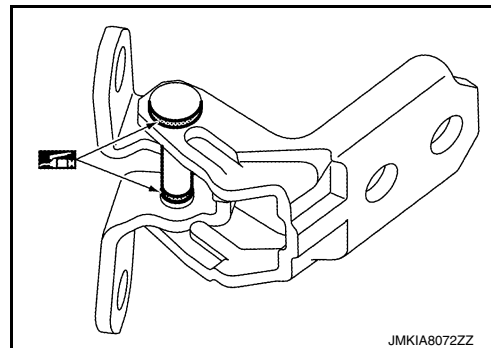
Installation is in the reverse order of removal.

CAUTION:

REAR DOOR

< REMOVAL AND INSTALLATION >

- Apply anticorrosive agent to the door hinge mating surface.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-133, "DOOR ASSEMBLY : Adjustment"](#).
- After adjusting, apply touch-up paint (body color) to the head of door hinge bolts and nuts.
- Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.



DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000009567352

REMOVAL

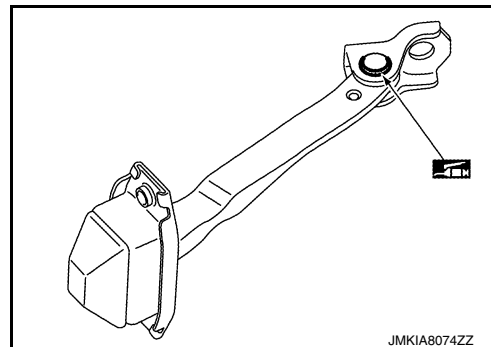
1. Remove rear door speaker. Refer to [AV-35, "Removal and Installation"](#) (BASE AUDIO), [AV-95, "Removal and Installation"](#) (DISPLAY AUDIO) or [AV-180, "Removal and Installation"](#) (NAVIGATION).
2. Remove door check link bolt (body side).
3. Remove door check link bolts (door side) and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check rear door open/close operation.
- Check door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.



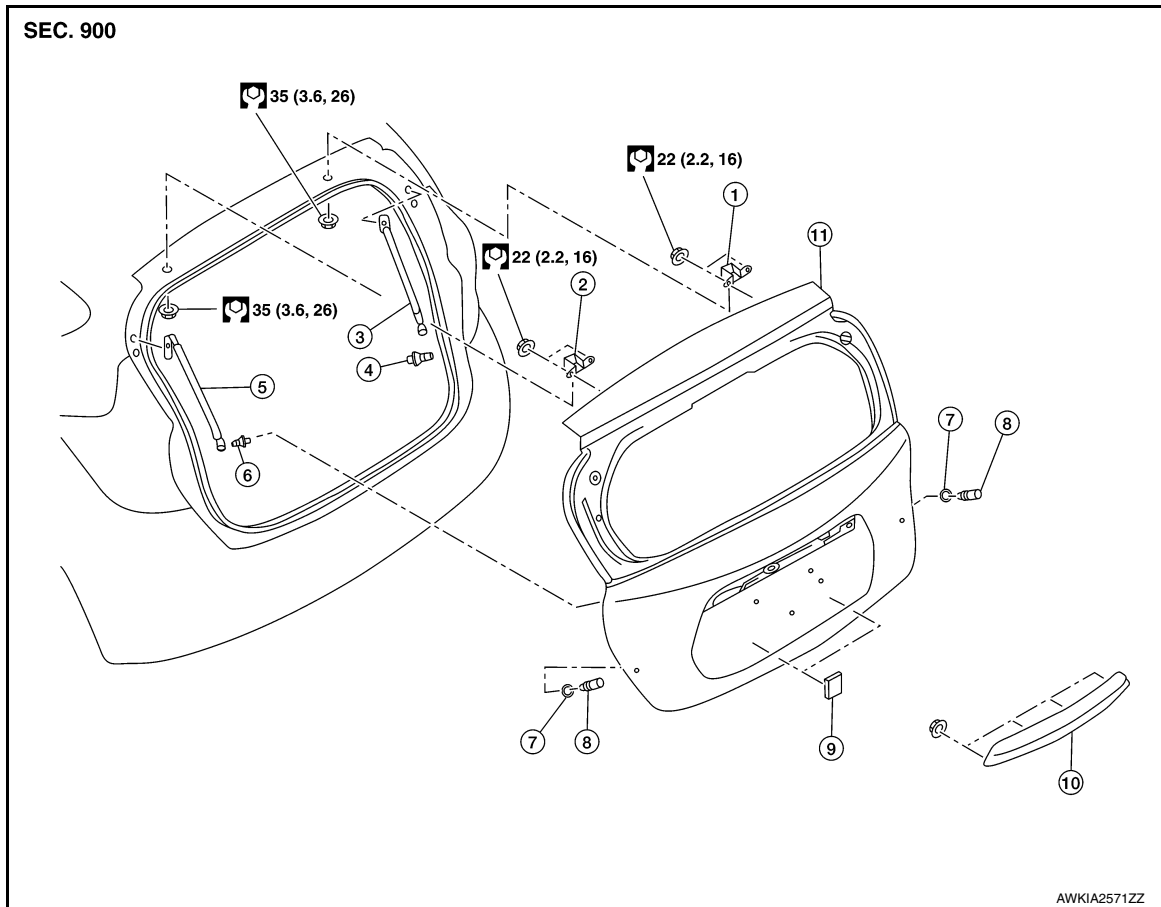
BACK DOOR

< REMOVAL AND INSTALLATION >

BACK DOOR

Exploded View

INFOID:000000009567353



- | | | |
|----------------------------------|-------------------------|----------------------------------|
| 1. Back door hinge (RH) | 2. Back door hinge (LH) | 3. Back door stay (RH) |
| 4. Back door stay stud ball (RH) | 5. Back door stay (LH) | 6. Back door stay stud ball (LH) |
| 7. Bumper rubber seal | 8. Bumper rubber | 9. Spacer |
| 10. Back door outer finisher | 11. Back door assembly | |

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000009567354

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.

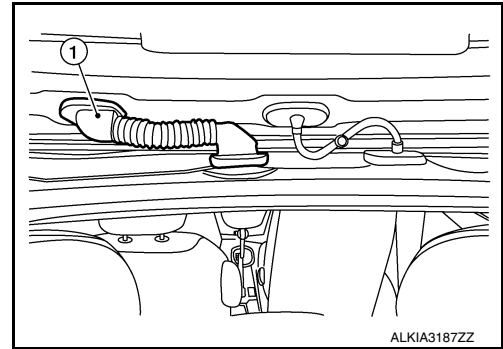
REMOVAL

1. Remove back door inner finisher. Refer to [INT-34, "BACK DOOR INNER FINISHER : Removal and Installation"](#).
2. Remove back door stay (LH/RH). Refer to [DLK-140, "BACK DOOR STAY : Removal and Installation"](#).

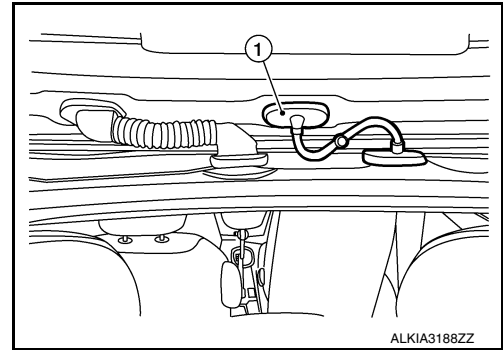
BACK DOOR

< REMOVAL AND INSTALLATION >

3. Remove back door harness grommet (1), then pull harness from the back door.



4. Disconnect washer tube from rear wiper.
5. Remove washer tube grommet (1), then pull washer tube from the back door.



6. 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.

7. Remove back door hinge nuts (door side) and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- 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 [DLK-138, "BACK DOOR ASSEMBLY : Adjustment"](#).

A
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DLK

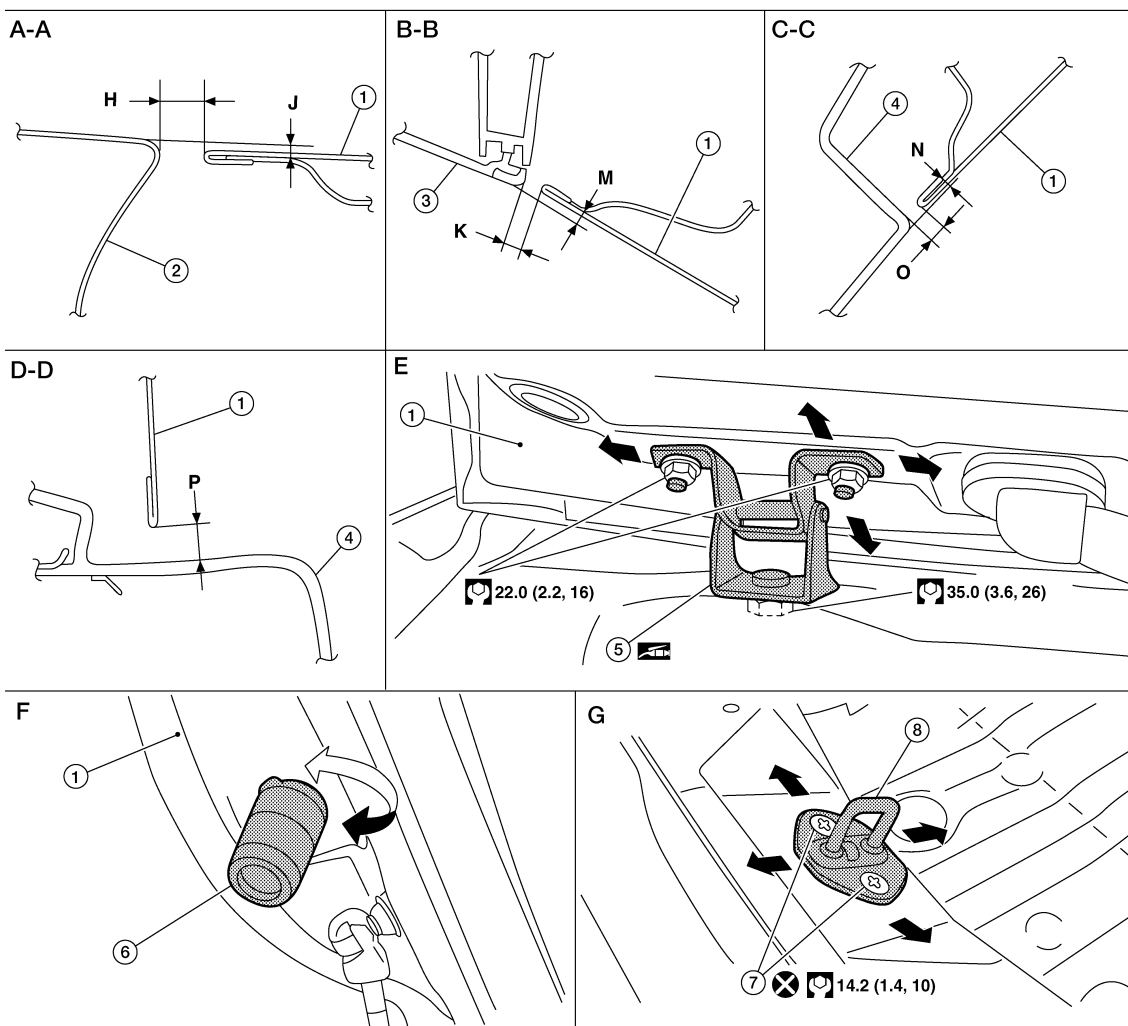
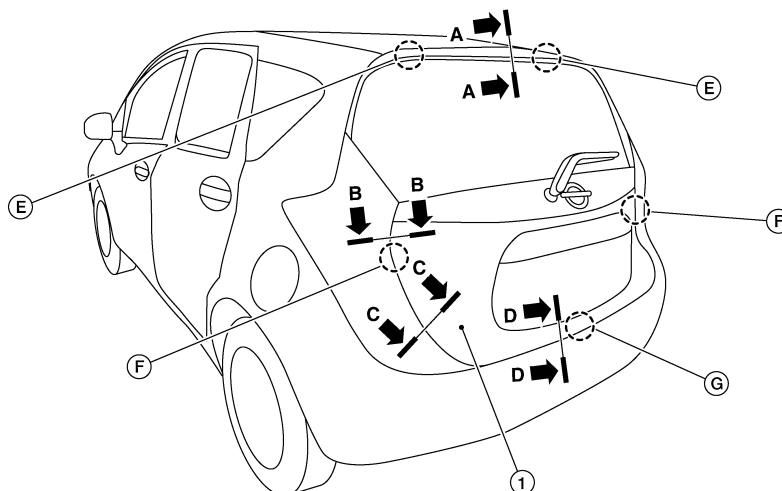
BACK DOOR

< REMOVAL AND INSTALLATION >

BACK DOOR ASSEMBLY : Adjustment

INFOID:000000009567355

SEC. 900



AWKIA2495ZZ

- 1. Back door panel
- 4. Rear bumper fascia
- 7. Bolt

- 2. Roof panel
- 5. Back door hinge
- 8. Back door striker

- 3. Rear combination lamp
- 6. Bumper rubber

BACK DOOR

< REMOVAL AND INSTALLATION >

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.

Unit: mm (in)

Portion	Section	Item	Measurement	Standard
Back door panel – Roof panel	A – A	H	Clearance	6.0 ± 1.0 (0.24 ± 0.04)
		I	Surface height	$0.0 +0.5, -1.5$ ($0.00 +0.02, -0.06$)
Rear combination lamp – Back door panel	B – B	J	Clearance	5.0 ± 2.0 (0.20 ± 0.08)
		K	Surface height	-2.0 ± 2.0 (-0.08 ± 0.08)
Rear bumper fascia – Back-door panel	C – C	L	Clearance	5.0 ± 2.0 (0.20 ± 0.08)
		M	Surface height	$0.0 +0.5, -2.0$ ($0.0 +0.02, -0.08$)
	D – D	M	Clearance	7.0 ± 2.0 (0.28 ± 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 and adjust back door as necessary.
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 multi-purpose 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:000000009567356

REMOVAL

1. Remove back door kicking plate using a suitable tool.
2. Remove bolts and back door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

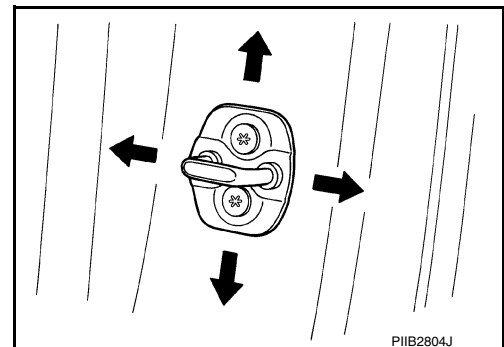
- Do not reuse back door striker bolts.
- After installation, check back door open/close, lock/unlock operation.
- After installation, perform the back door assembly adjustment procedure. Refer to [DLK-138, "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR STRIKER : Adjustment

INFOID:000000009567357

DOOR STRIKER ADJUSTMENT

1. Loosen door striker bolts.
2. Adjust door striker so that it becomes parallel with back door lock insertion direction.



3. Tighten door striker bolts to specification. Refer to [DLK-136, "Exploded View"](#).

BACK DOOR

< REMOVAL AND INSTALLATION >

BACK DOOR HINGE

BACK DOOR HINGE : Removal and Installation

INFOID:000000009567358

REMOVAL

1. Remove back door assembly. Refer to [DLK-136, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Partially remove back door weatherstrip. Refer to [DLK-141, "BACK DOOR WEATHER-STRIP : Removal and Installation"](#).
3. Remove back door hinge nuts and bolts (body side) and then remove back door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Apply anticorrosive agent onto the surface between hinge and body side.
- After installation, perform the back door assembly adjustment procedure. Refer to [DLK-138, "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR STAY

BACK DOOR STAY : Removal and Installation

INFOID:000000009567359

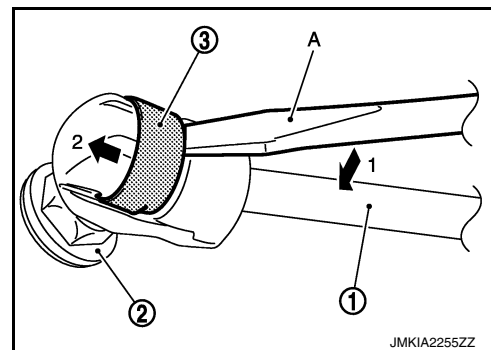
REMOVAL

1. Support the back door with a suitable tool too prevent it from falling.

WARNING:

Body injury may occur if no supporting rod is holding the back door open when removing the back door stay.

2. Remove the metal clip (3) located on the connection between the back door stay (1) and the stud ball (2) (back door side) by using a flat blade screwdriver (A).
3. Remove the back door stay (back door side).



4. In the same way, remove the back door stay from the body side.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Check the back door open/close operation after installation.

BACK DOOR STAY : Disposal

INFOID:000000009567360

BACK DOOR STAY DISPOSAL

WARNING:

When performing disposal procedure, wear protective gloves and glasses.

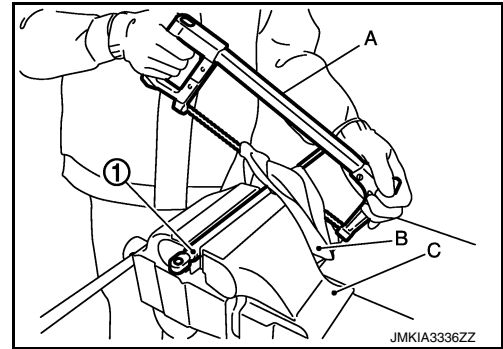
BACK DOOR

< REMOVAL AND INSTALLATION >

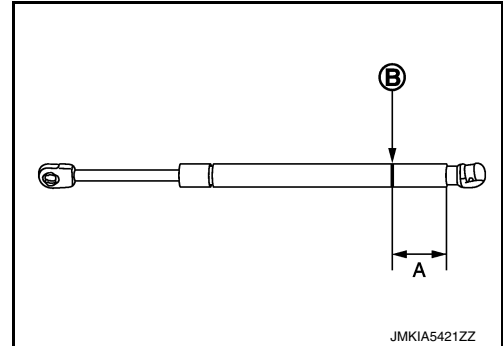
1. Secure back door stay (1) using a vice (C).

CAUTION:

When cutting back door stay, always cover suitable tool (A) using a shop cloth (B) to avoid scattering metal fragments or oil.



2. Slowly cut a hole in back door stay and drain the gas using a hacksaw at position (B) as shown.
A: 20 mm (0.79 in)



BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000009567361

REMOVAL

1. Support back door using a suitable tool.
2. 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.
2. For the lower section, align weather-strip seam with center of back door striker.

NOTE:

Pull weather-strip gently to make sure that there are no loose sections.

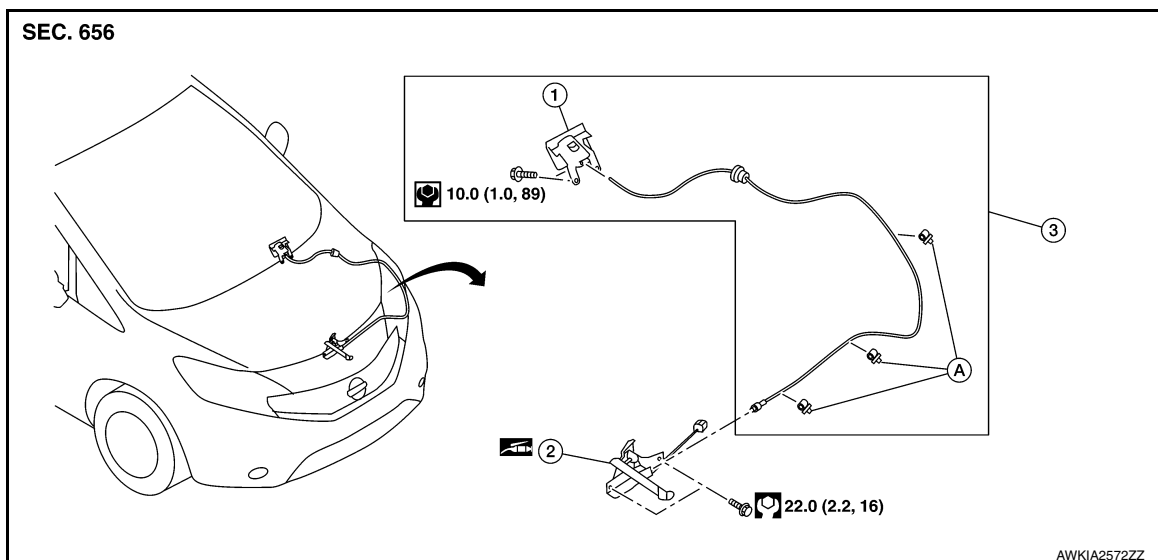
HOOD LOCK

< REMOVAL AND INSTALLATION >

HOOD LOCK

Exploded View

INFOID:000000009567362



1. Hood lock/fuel filler lid release handle 2. Hood lock assembly 3. Hood lock release cable assembly
A. Clip

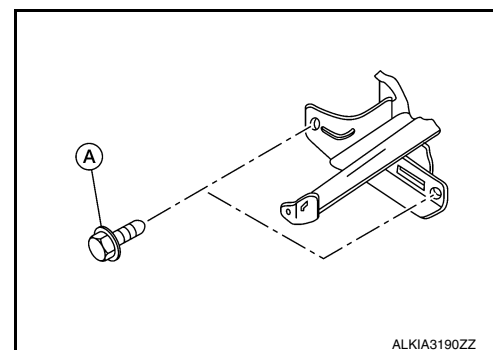
HOOD LOCK

HOOD LOCK : Removal and Installation

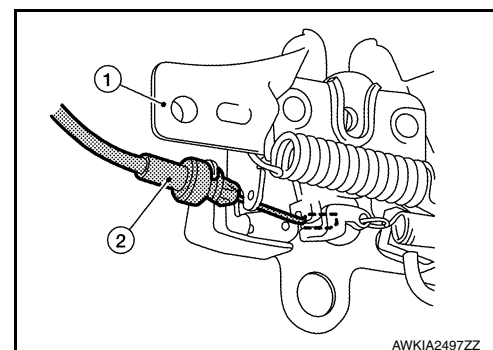
INFOID:000000009567363

REMOVAL

1. Remove hood lock bolts (A).



2. Disconnect the harness connector from the hood lock assembly (if equipped).
3. Disconnect hood lock release cable (2) from hood lock (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

HOOD LOCK

< REMOVAL AND INSTALLATION >

CAUTION:

- After installation, perform hood assembly adjustment procedure. Refer to [DLK-119, "HOOD ASSEMBLY : Adjustment"](#).
- After adjustment, perform hood lock control inspection. Refer to [DLK-143, "HOOD LOCK : Inspection"](#).

HOOD LOCK : Inspection

INFOID:000000009567364

HOOD LOCK INSPECTION

NOTE:

If hood lock cable is bent or deformed, replace it. Refer to [DLK-142, "HOOD LOCK : Removal and Installation"](#).

1. Check that secondary latch is properly engage with secondary striker with hoods own weight.
2. While operating hood lock release lever, 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 lever returns to original position.
3. Check that hood lock release lever operates at 49 N (5.0 kg-m, 11.0 ft-lb) or below.
4. Install so that static closing force of hood is 315-490 N (32.1-50.0 kg-m, 70.8-110.2 ft-lb).
5. Check hood lock assembly lubrication condition. If necessary, apply a suitable multi-purpose grease.

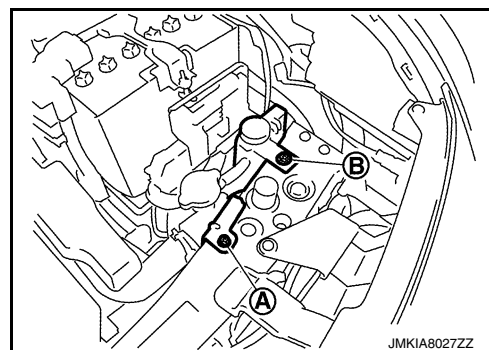
HOOD LOCK RELEASE CABLE

HOOD LOCK RELEASE CABLE : Removal and Installation

INFOID:000000009567365

REMOVAL

1. Disconnect hood lock release cable from hood lock. Refer to [DLK-142, "Exploded View"](#).
2. Remove radiator cap adapter bracket bolt (A) and radiator reservoir tank bolt (B).



3. Remove fender protector (LH). Refer to [EXT-24, "Removal and Installation"](#).
4. Release hood lock control cable clips using a suitable tool.
5. Remove hood lock/fuel filler door release handle. Refer to [DLK-144, "HOOD LOCK RELEASE HANDLE : Removal and Installation"](#).
6. Remove dash side finisher (LH). Refer to [INT-22, "DASH SIDE FINISHER : Removal and Installation"](#).
7. Remove grommet on the lower dash and pull the hood lock release cable into the passenger compartment.

CAUTION:

While pulling, be careful not to damage (peel) the outside of the hood lock release cable.

INSTALLATION

Installation is in the reverse order of removal.

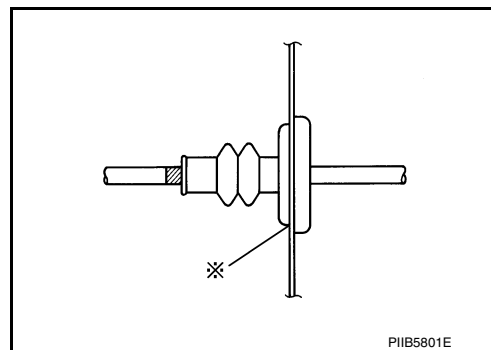
CAUTION:

- Be careful not to bend cable too much, keep the radius 100 mm (3.94 in) or more.
- Check that hood lock release cable is properly engaged with hood lock.

HOOD LOCK

< REMOVAL AND INSTALLATION >

- Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (at * mark).



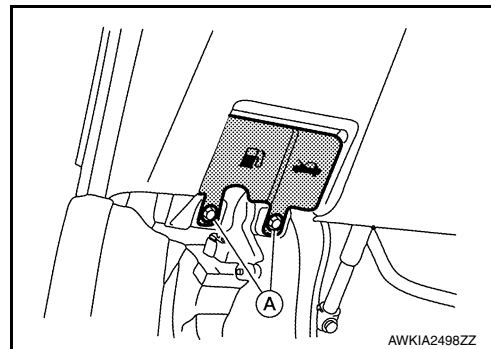
HOOD LOCK RELEASE HANDLE

HOOD LOCK RELEASE HANDLE : Removal and Installation

INFOID:000000009567366

REMOVAL

1. Remove hood lock/fuel filler door release handle bolts (A).



2. Disconnect hood lock release cable from hood lock/fuel filler door release handle and remove.

INSTALLATION

Installation is in the reverse order of removal.

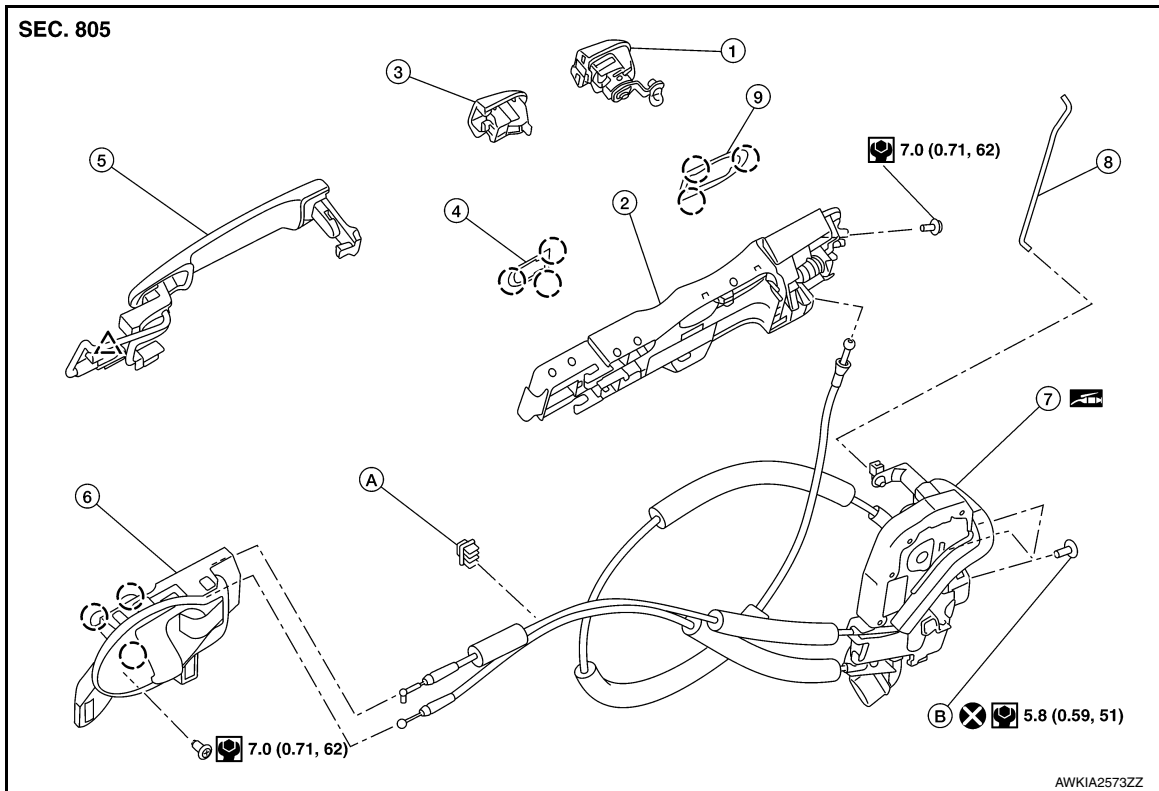
FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

FRONT DOOR LOCK

Exploded View

INFOID:000000009567367



- | | | |
|-------------------------------|-----------------------------------|---|
| 1. Key cylinder (driver side) | 2. Outside handle bracket | 3. Outside handle escutcheon (passenger side) |
| 4. Front gasket | 5. Outside handle | 6. Inside handle |
| 7. Door lock | 8. Key cylinder rod (driver side) | 9. Rear gasket |
| A. Clip | B. Bolt | ○ Pawl |

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000009567368

REMOVAL

1. Remove inside handle. Refer to [DLK-146, "INSIDE HANDLE : Removal and Installation"](#).
2. Remove outside handle. Refer to [DLK-147, "OUTSIDE HANDLE : Removal and Installation"](#).
3. Disconnect the harness connector from the door lock actuator.
4. Remove front door glass rear run. Refer to [GW-21, "Exploded View"](#).
5. Remove bolts and door lock.

INSTALLATION

Installation is in the reverse order of removal.

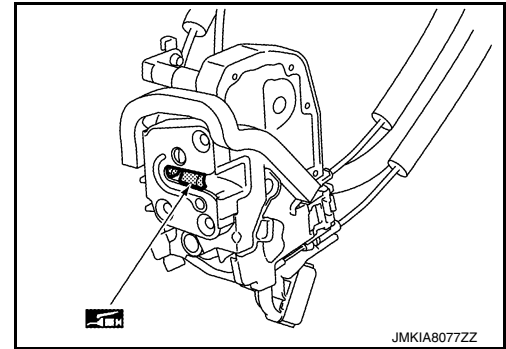
CAUTION:

- Do not reuse door lock bolts.
- After installation, check door open/close, lock/unlock operation.
- Check door lock cables are properly engaged to inside handle and outside handle bracket.
- When installing key cylinder on front door, be sure to rotate key cylinder rod holder until a click is felt.

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

- Check door lock for poor lubrication. Apply a suitable multi-purpose grease to door lock if necessary.



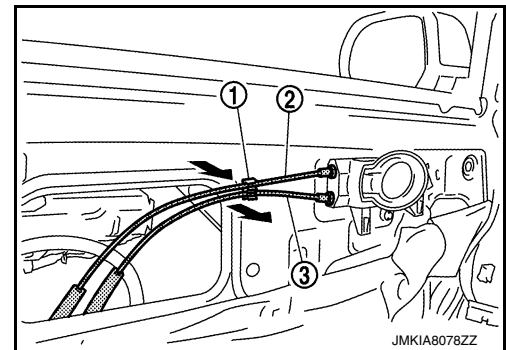
INSIDE HANDLE

INSIDE HANDLE : Removal and Installation

INFOID:000000009567369

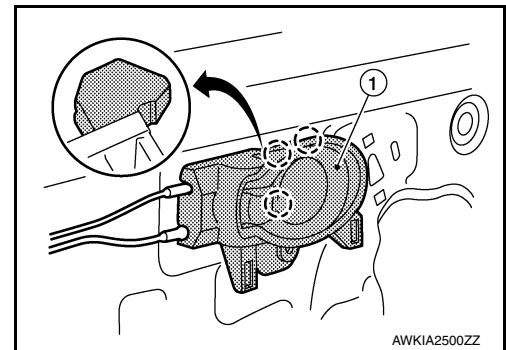
REMOVAL

1. Remove front door finisher. Refer to [INT-15, "Removal and Installation"](#).
2. Partially remove vapor barrier. Refer to [GW-21, "Exploded View"](#).
3. Release lock knob (2) and inside handle cable (3) from clip (1) using a suitable tool.

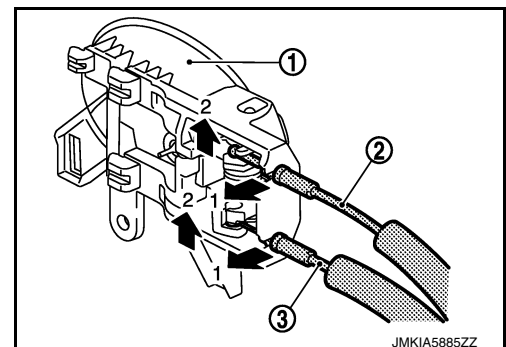


4. Remove inside handle bolt.
5. Release inside handle (1) from door panel using a suitable tool and remove.

⊖: Pawl



6. Release inside handle cable (3) and lock cable (2) from inside handle (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

- Check that door lock cables are properly engaged to inside handle.
- After installation, check door open/close, lock/unlock operation.

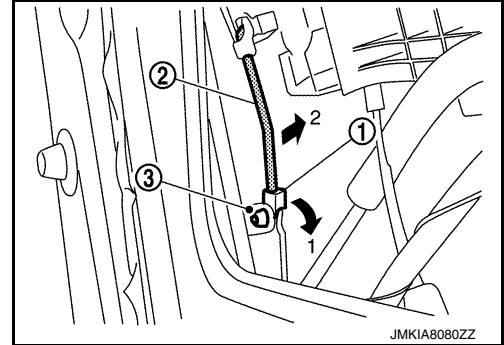
OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

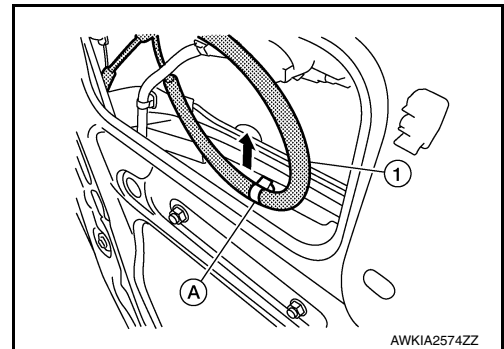
INFOID:000000009567370

REMOVAL

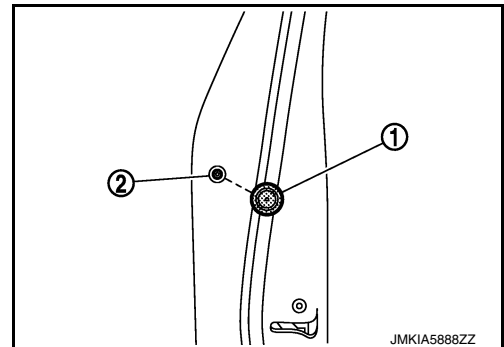
1. Remove front door finisher. Refer to [INT-15, "Removal and Installation"](#).
2. Partially remove vapor barrier. Refer to [GW-21, "Exploded View"](#).
3. Open rod holder (1) by pulling downward and separate key rod (3) from door lock assembly (2) (driver side only).



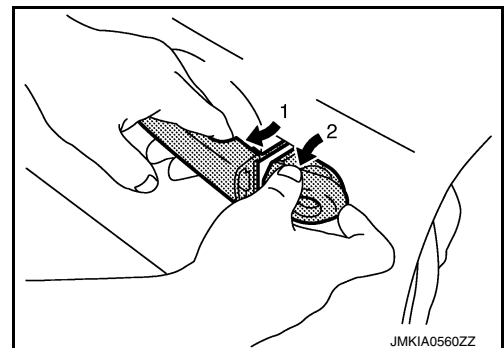
4. Release outside handle cable (1) from cable clip (A).



5. Remove door grommet (1) and bolt from grommet hole (2).



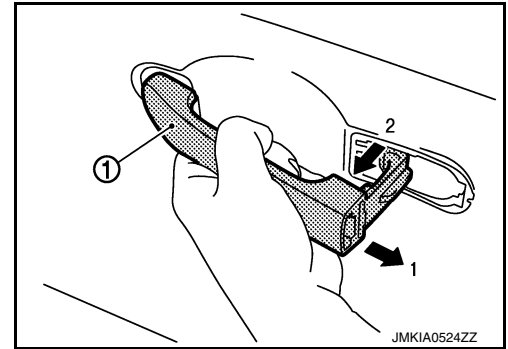
6. While pulling outside handle, remove outside handle escutcheon.



FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

7. While pulling outside handle (1), slide toward rear of vehicle.

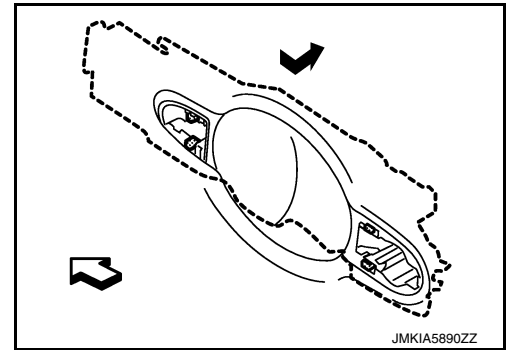


8. Disconnect the harness connectors from the outside handle and remove.

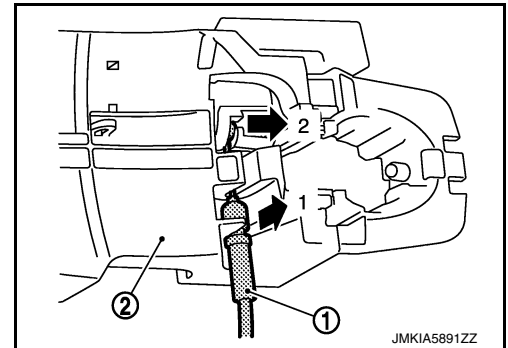
9. Remove front gasket and rear gasket.

10. Slide outside handle bracket toward rear of vehicle to remove.

⇐: Front



11. Disconnect outside handle cable (1) from outside handle bracket (2) as shown.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Check that door lock cables are properly engaged with outside handle bracket.
- After installation, check door open/close, and lock/unlock operation.

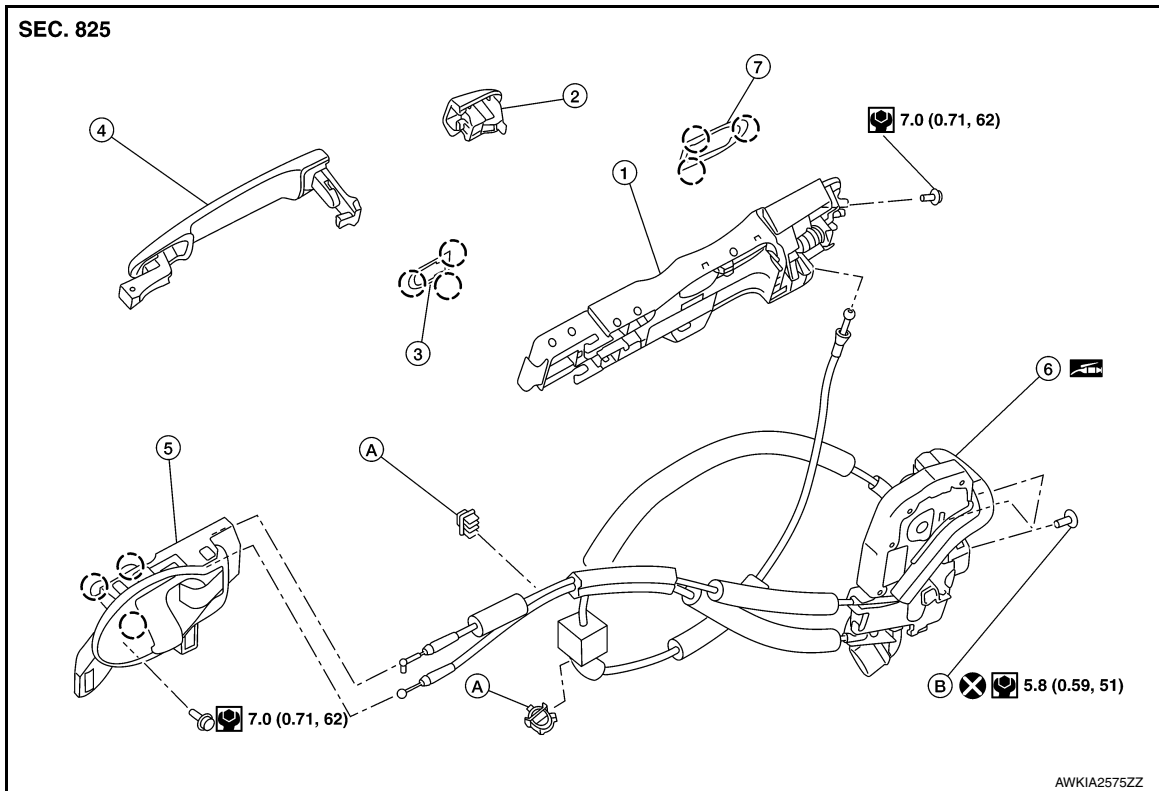
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

REAR DOOR LOCK

Exploded View

INFOID:000000009567371



- | | | |
|---------------------------|------------------------------|-----------------|
| 1. Outside handle bracket | 2. Outside handle escutcheon | 3. Front gasket |
| 4. Outside handle | 5. Inside handle | 6. Door lock |
| 7. Door lock | A. Clip | B. Bolt |

○ Pawl

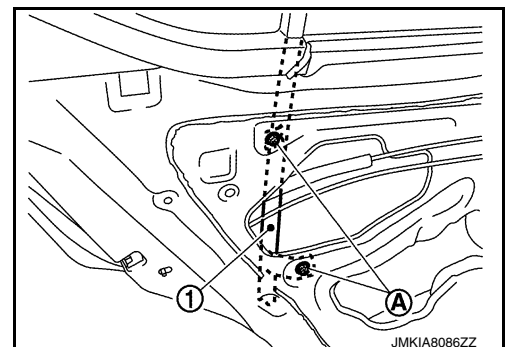
DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:000000009567372

REMOVAL

1. Remove inside handle. Refer to [DLK-150, "INSIDE HANDLE : Removal and Installation"](#).
2. Remove outside handle. Refer to [DLK-151, "OUTSIDE HANDLE : Removal and Installation"](#).
3. Remove bolts (A) from rear door glass rear run (1).



4. Disconnect the harness connector from door lock actuator.
5. Remove bolts and door lock.

REAR DOOR LOCK

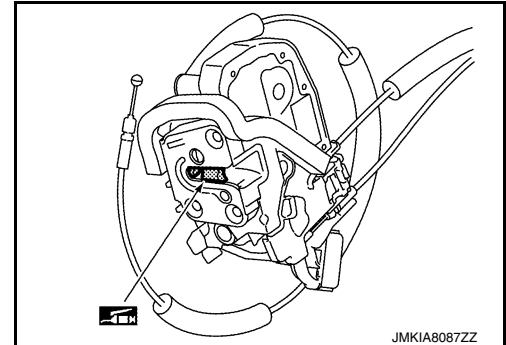
< REMOVAL AND INSTALLATION >

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Do not reuse door lock assembly bolts.
- After installation, check door open/close, lock/unlock operation.
- Check door lock cable is properly engaged with inside handle and outside handle bracket.
- Check door lock assembly for poor lubrication. If necessary, apply a suitable multi-purpose grease.



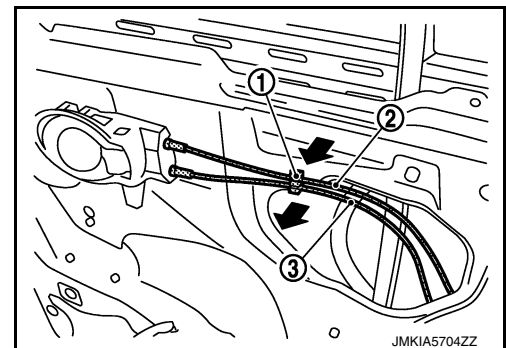
INSIDE HANDLE

INSIDE HANDLE : Removal and Installation

INFOID:000000009567373

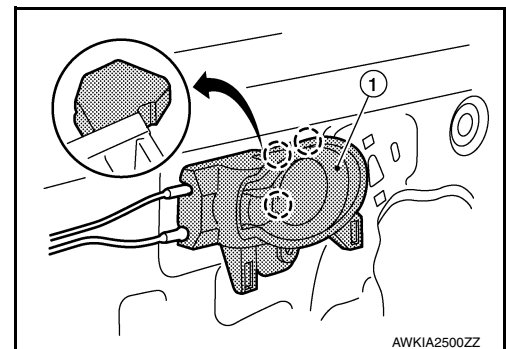
REMOVAL

1. Remove rear door finisher. Refer to [INT-17, "Removal and Installation"](#).
2. Remove upper portion of vapor barrier. Refer to [GW-25, "Exploded View"](#).
3. Release lock knob (2) and inside handle cable (3) from clip (1) using a suitable tool.



4. Remove inside handle bolt.
5. Release inside handle (1) from door panel using a suitable tool and remove.

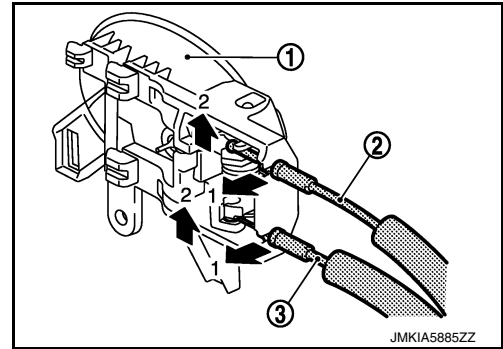
○: Pawl



REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

6. Release inside handle cable (3) and lock cable (2) from inside handle (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Check that door lock cables are properly engaged to inside handle.
- After installation, check door open/close, lock/unlock operation.

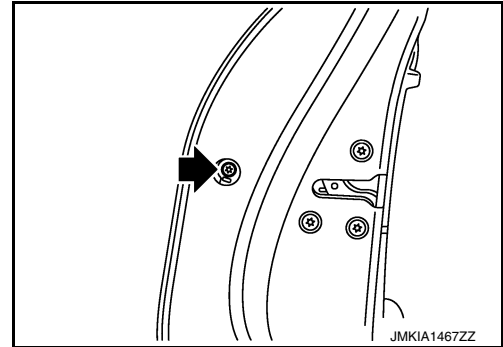
OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

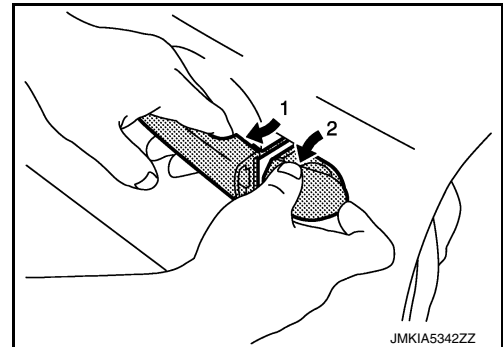
INFOID:000000009567374

REMOVAL

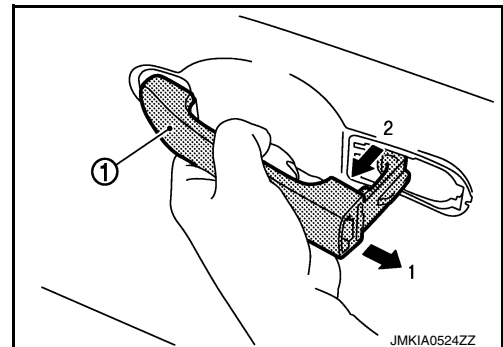
1. Remove inside handle. Refer to [DLK-150, "INSIDE HANDLE : Removal and Installation"](#)
2. Remove door grommet and bolt from grommet hole.



3. While pulling outside handle, remove outside handle escutcheon.



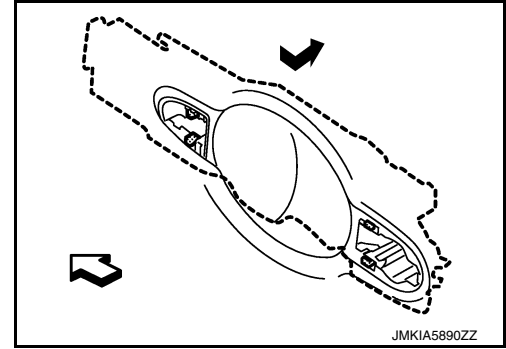
4. While pulling outside handle (1), slide towards rear of vehicle to remove.



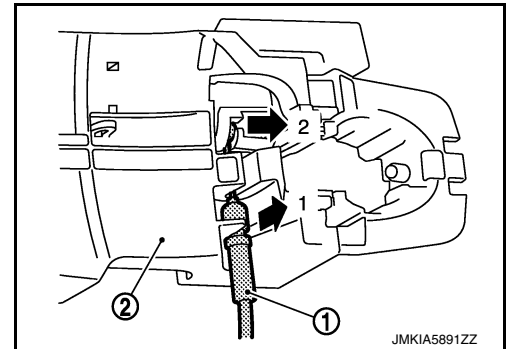
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

5. Remove front gasket and rear gasket.
6. Slide outside handle bracket toward rear of vehicle to remove.
⇐: Front



7. Disconnect outside handle cable (1) from outside handle bracket (2) as shown.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check door open/close, lock/unlock operation.
- Check door lock cable is properly engaged with outside handle bracket.

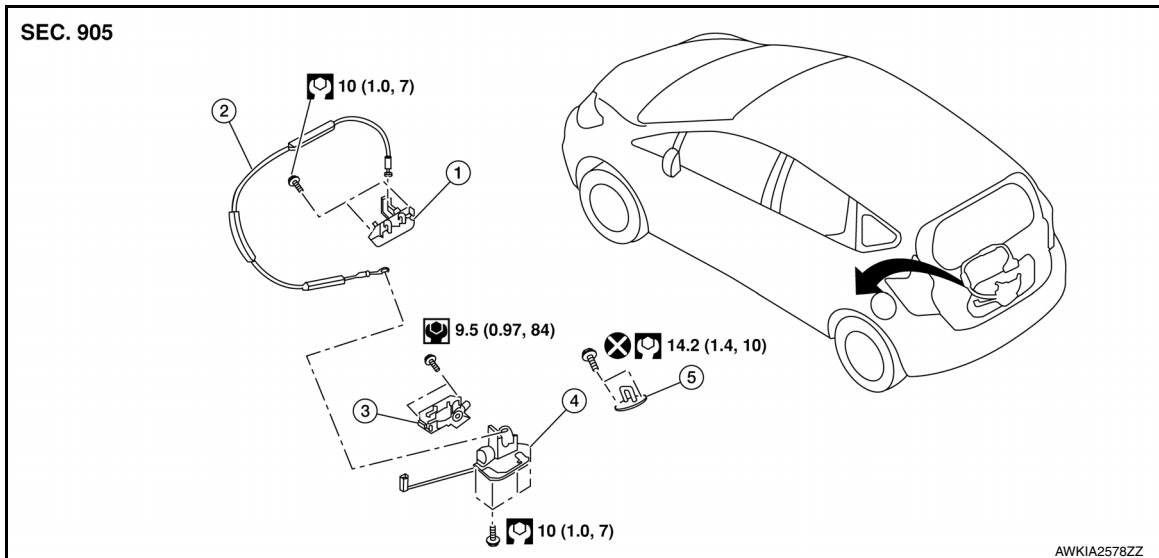
BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

BACK DOOR LOCK

Exploded View

INFOID:000000009671215



- | | | |
|-------------------|-------------------------|----------------------------|
| 1. Outside handle | 2. Back door lock cable | 3. Back door lock actuator |
| 4. Back door lock | 5. Door striker | |

BACK DOOR LOCK

BACK DOOR LOCK : Removal and Installation

INFOID:000000009567376

REMOVAL

1. Remove back door inner finisher. Refer to [INT-34, "BACK DOOR INNER FINISHER : Removal and Installation"](#).
2. Remove back door outer finisher. Refer to [EXT-34, "Removal and Installation"](#).
3. Disconnect lock rod from key cylinder (if equipped).
4. Disconnect the harness connectors from the back door lock.
5. Disconnect door lock cable from handle.
6. Remove back door lock bolts and back door lock.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten back door bolts to specification.
- After installation, check back door open/close and lock/unlock operation.

OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

INFOID:000000009567377

REMOVAL

1. Remove back door outer finisher. Refer to [EXT-34, "Removal and Installation"](#).
2. Release the back door lock cable from the outside handle.
3. Remove outside handle bolts and outside handle.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten outside handle bolts to specification. Refer to [DLK-153, "Exploded View"](#).

BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

- **After installation, check back door open/close and lock/unlock operation.**

EMERGENCY LEVER

EMERGENCY LEVER : Removal and Installation

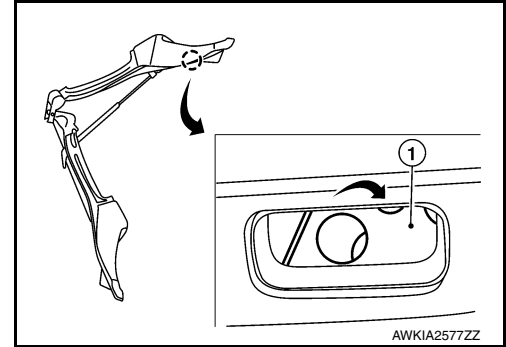
INFOID:000000009567378

UNLOCK PROCEDURE

NOTE:

If back door lock cannot be unlocked due to a malfunction or battery discharge, perform the following procedure to unlock back door assembly.

From inside the vehicle, using a suitable tool, rotate the emergency lever (1) in a clockwise direction to unlock the back door assembly.



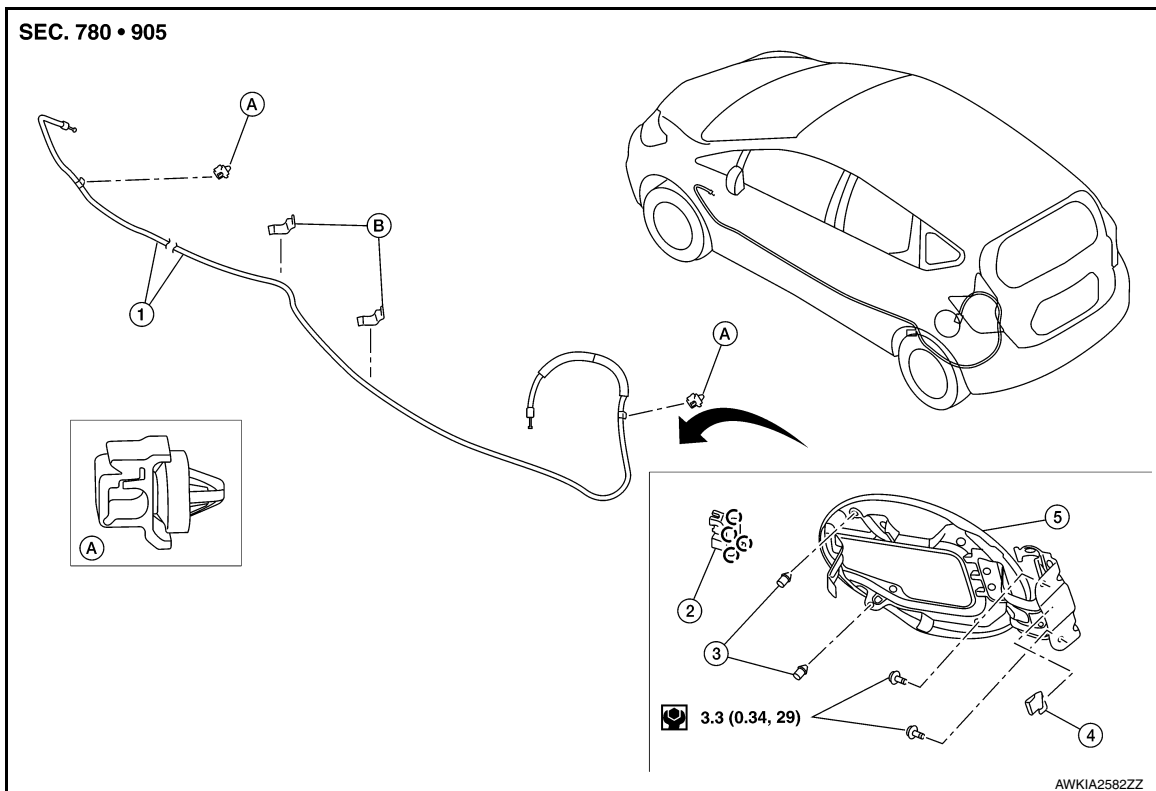
FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

FUEL FILLER LID OPENER

Exploded View

INFOID:000000009567379



1. Fuel filler lid lock release cable

4. Fuel filler lid spring

B. Cable protector

2. Fuel filler lid lock

5. Fuel filler lid

⊖ Pawl

3. Fuel filler lid bumper

A. Clip

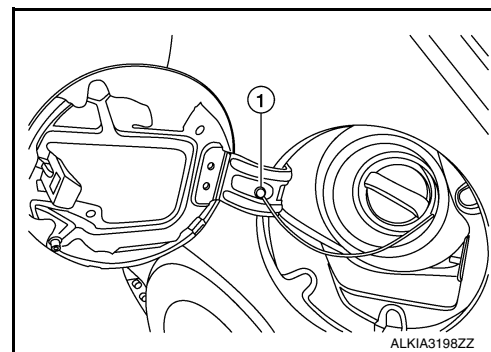
FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

INFOID:000000009567380

REMOVAL

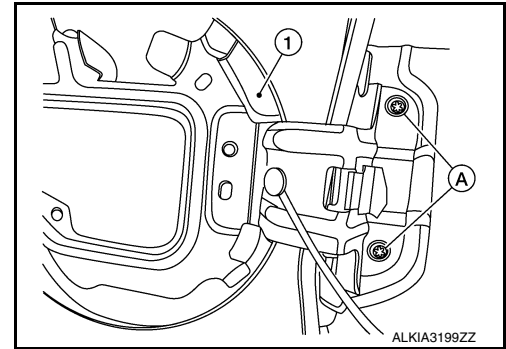
1. Remove fuel cap pin (1).



FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

2. Remove fuel filler lid screws (A) and fuel filler lid (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close and lock/unlock operation.

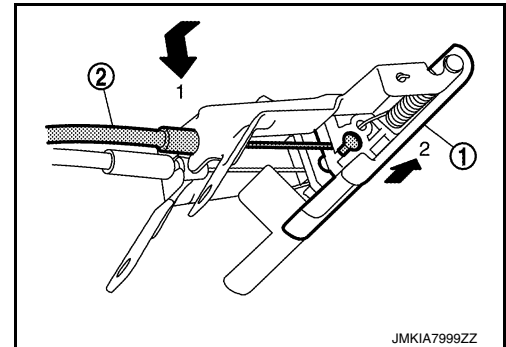
FUEL FILLER OPENER CABLE

FUEL FILLER OPENER CABLE : Removal and Installation

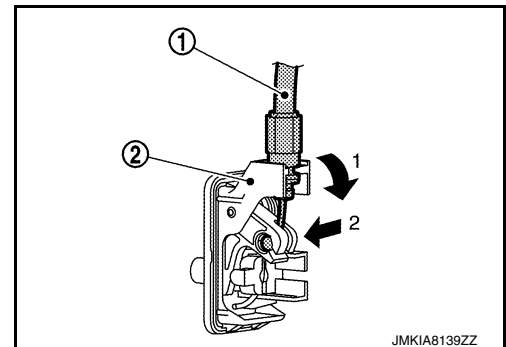
INFOID:000000009567381

REMOVAL

1. Remove hood lock/fuel filler lid lock release handle. Refer to [DLK-144, "HOOD LOCK RELEASE HANDLE : Removal and Installation"](#).
2. Disconnect fuel filler lid opener cable (2) from hood lock/fuel filler lid lock release handle (1).



3. Remove dash side finisher (LH). Refer to [INT-22, "DASH SIDE FINISHER : Removal and Installation"](#).
4. Remove center pillar lower finisher (LH). Refer to [INT-23, "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).
5. Remove luggage side lower finisher (LH). Refer to [INT-32, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).
6. Disconnect fuel filler lid opener cable (1) by pulling downward and then sliding cable end to the side to remove from fuel filler lid lock assembly (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

FUEL FILLER LID LOCK

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

FUEL FILLER LID LOCK : Removal and Installation

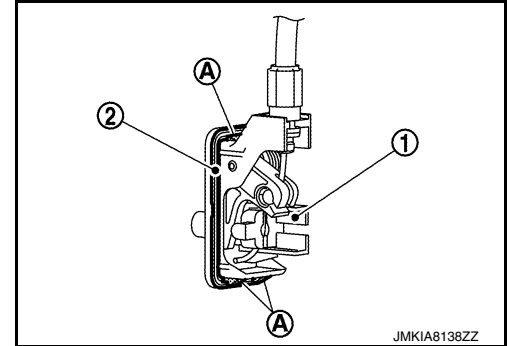
INFOID:000000009567382

REMOVAL

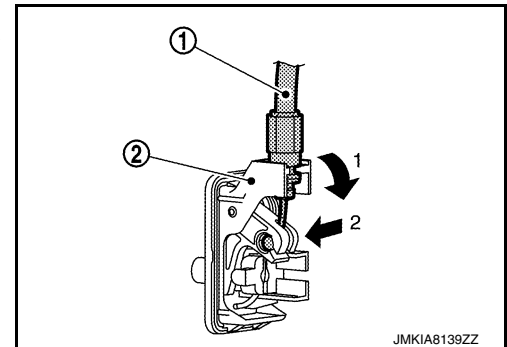
1. Fully open fuel filler lid.
2. Remove luggage side lower finisher (LH). Refer to [INT-32, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation"](#).
3. Disconnect the harness connector from the fuel filler lid lock assembly.
4. Release pawls (A) and remove fuel filler lid lock assembly (1).

CAUTION:

Be careful not to damage gasket (2) when removing.



5. Disconnect fuel filler lid opener cable (1) by pulling downward and then sliding cable end to the side to remove from fuel filler lid lock assembly (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

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DLK

DOOR SWITCH

< REMOVAL AND INSTALLATION >

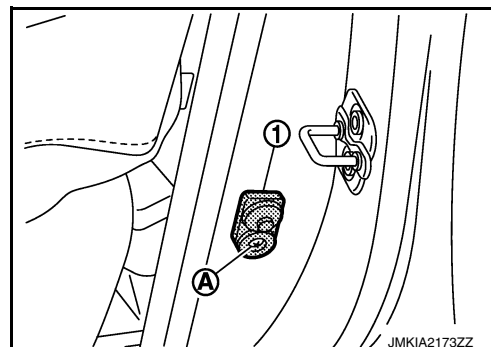
DOOR SWITCH

Removal and Installation

INFOID:000000009567383

REMOVAL

1. Remove the door switch bolt (A).
2. Disconnect the harness connector and remove door switch (1).



INSTALLATION

Installation is in the reverse order of removal.

INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

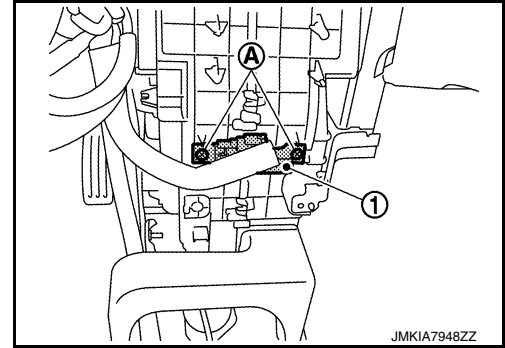
INSIDE KEY ANTENNA INSTRUMENT CENTER

INSTRUMENT CENTER : Removal and Installation

INFOID:000000009567384

REMOVAL

1. Remove center console lower. Refer to [IP-20, "Removal and Installation"](#).
2. Disconnect the harness connector from the inside key antenna (instrument center).
3. Remove screws (A) and the inside key antenna (instrument center) (1).



INSTALLATION

Installation is in the reverse order of removal.

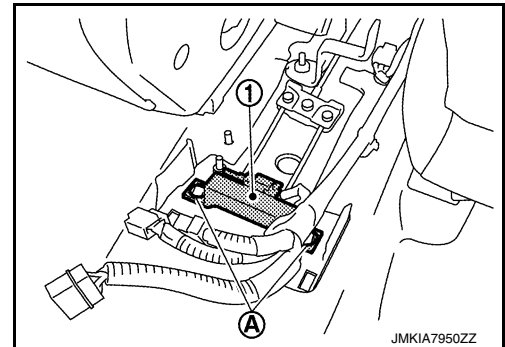
CONSOLE

CONSOLE : Removal and Installation

INFOID:000000009567385

REMOVAL

1. Remove center console assembly. Refer to [IP-18, "Removal and Installation"](#).
2. Disconnect the harness connector from the inside key antenna (console).
3. Release clips (A) and remove inside key antenna (console) (1).



INSTALLATION

Installation is in the reverse order of removal.

LUGGAGE ROOM

LUGGAGE ROOM : Removal and Installation

INFOID:000000009567386

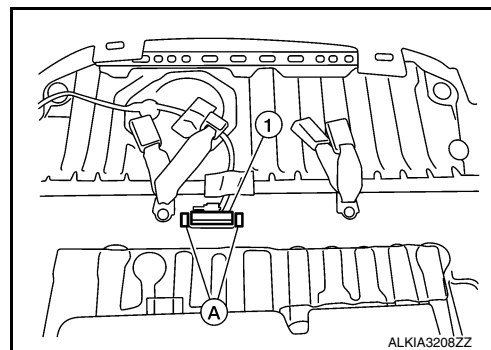
REMOVAL

1. Remove rear seat cushion. Refer to [SE-19, "SEAT CUSHION : Removal and Installation"](#).
2. Disconnect the harness connector from the inside key antenna (luggage room).

INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

3. Release clips (A) and remove inside key antenna (luggage room) (1).



INSTALLATION

Installation is in the reverse order of removal.

OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

OUTSIDE KEY ANTENNA

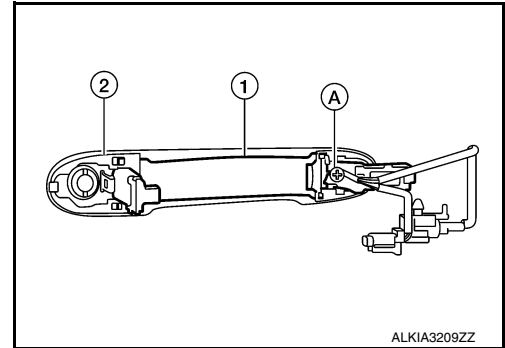
OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

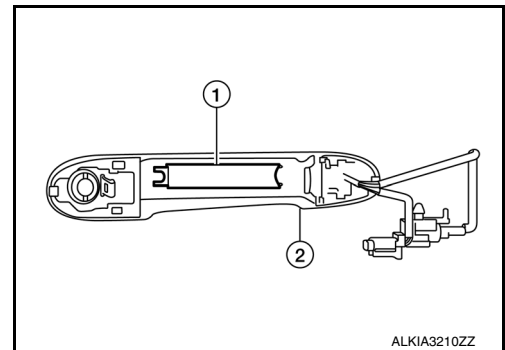
INFOID:0000000009567387

REMOVAL

1. Remove outside handle. Refer to [DLK-147, "OUTSIDE HANDLE : Removal and Installation"](#).
2. Remove screw (1) and outside handle finisher (1) from outside handle (2).



3. Remove outside key antenna (outside handle) (1) from outside handle (2).



INSTALLATION

Installation is in the reverse order of removal.

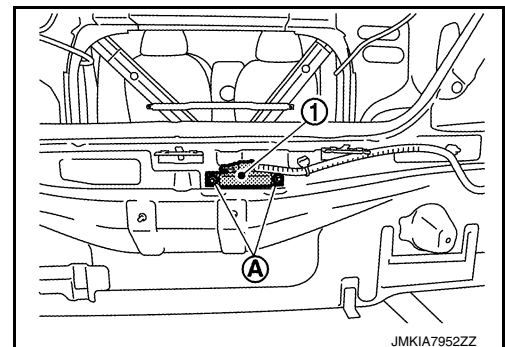
REAR BUMPER

REAR BUMPER : Removal and Installation

INFOID:0000000009567388

REMOVAL

1. Remove the rear bumper fascia. Refer to [EXT-18, "Removal and Installation"](#).
2. Disconnect the harness connector from the outside key antenna (rear bumper)
3. Release clips (A) and remove outside key antenna (rear bumper) (1).



INSTALLATION

Installation is in the reverse order of removal.

DOOR REQUEST SWITCH

< REMOVAL AND INSTALLATION >

DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Removal and Installation

INFOID:000000009671358

The door request switch (driver side) is serviced as an assembly with the outside handle. Refer to [DLK-147, "OUTSIDE HANDLE : Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Removal and Installation

INFOID:000000009671359

The door request switch (passenger side) is serviced as an assembly with the outside handle. Refer to [DLK-147, "OUTSIDE HANDLE : Removal and Installation"](#).

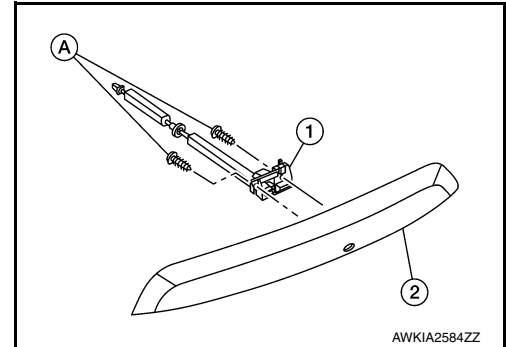
BACK DOOR

BACK DOOR : Removal and Installation

INFOID:000000009671360

REMOVAL

1. Remove back door outer finisher. Refer to [EXT-34, "Removal and Installation"](#).
2. Remove screws (A) and back door request switch (1) from back door outer finisher (2).



INSTALLATION

Installation is in the reverse order of removal.

INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

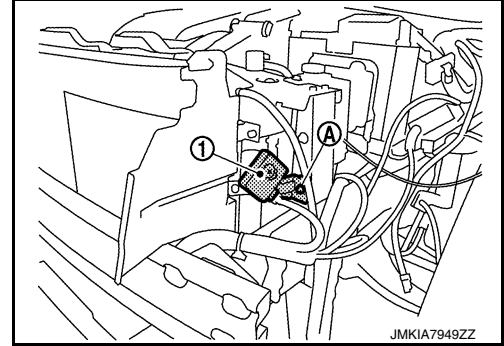
INTELLIGENT KEY WARNING BUZZER

Removal and Installation

INFOID:000000009567389

REMOVAL

1. Remove front combination lamp (LH). Refer to [EXL-108. "Removal and Installation"](#)
2. Remove bolt (A) and Intelligent Key warning buzzer (1).



INSTALLATION

Installation is in the reverse order of removal.

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DLK

REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

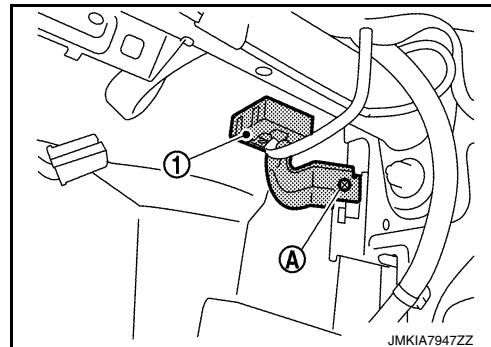
REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

INFOID:000000009567390

REMOVAL

1. Remove glove box assembly. Refer to [IP-25. "Removal and Installation"](#).
2. Remove remote keyless entry receiver bolt (A).
3. Disconnect the harness connector and remove remote keyless entry receiver (1)



INSTALLATION

Installation is in the reverse order of removal.

INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

INTELLIGENT KEY BATTERY

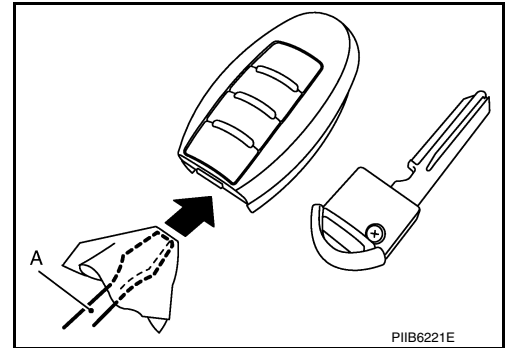
Removal and Installation

INFOID:000000009567391

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.
2. Insert a suitable tool (A) wrapped with a cloth into the slit of the corner and rotate it to separate the upper part from the lower part.

CAUTION:

- Do not touch the circuit board or battery terminal.
- The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.



3. Replace the battery with new one.

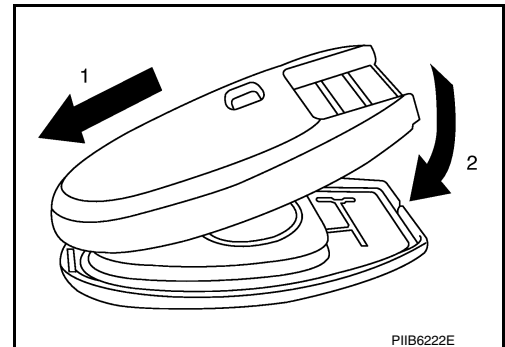
Battery replacement

**:Coin-type lithium battery
(CR2025)**

4. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, check that all Intelligent Key functions work normally.



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