

# 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"

INFOID:0000000014391090

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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, 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 Air Bag Diagnosis Sensor Unit or other Air Bag 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 or batteries, and wait at least three minutes before performing any service.

### Precaution for Servicing Doors and Locks

INFOID:0000000014391091

#### **WARNING:**

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

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

# PREPARATION

< PREPARATION >

## PREPARATION

### PREPARATION

#### Special Service Tool

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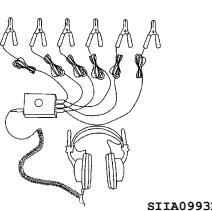
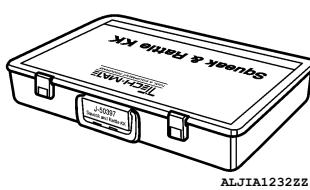
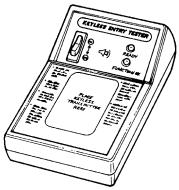
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The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate 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	 Used to test keyfobs
— (J-50190) Signal Tech II	 ALEIA0131ZZ <ul style="list-style-type: none"><li>Activate and display TPMS transmitter IDs</li><li>Display tire pressure reported by the TPMS transmitter</li><li>Read TPMS DTCs</li><li>Register TPMS transmitter IDs</li><li>Check Intelligent Key relative signal strength</li><li>Confirm vehicle Intelligent Key antenna signal strength</li><li>Compatible with future sensors</li><li>Equipped with a display</li></ul>

# PREPARATION

## < PREPARATION >

Tool number (TechMate No.) Tool name	Description
KV48105501 (J-45295-A) Transmitter Activation Tool	<ul style="list-style-type: none"> <li>Activate TPMS transmitter IDs</li> <li>Compatible with future sensors</li> <li>Equipped with a display (KV48105501 only)</li> </ul> 
— (J-46534) Trim Tool Set	Removing trim components

## Commercial Service Tool

INFOID:0000000014391093

(TechMate No.) Tool name	Description
(J-39565) Engine Ear	Locating the noise
Power Tool	Loosening nuts, screws and bolts

# COMPONENT PARTS

< SYSTEM DESCRIPTION >

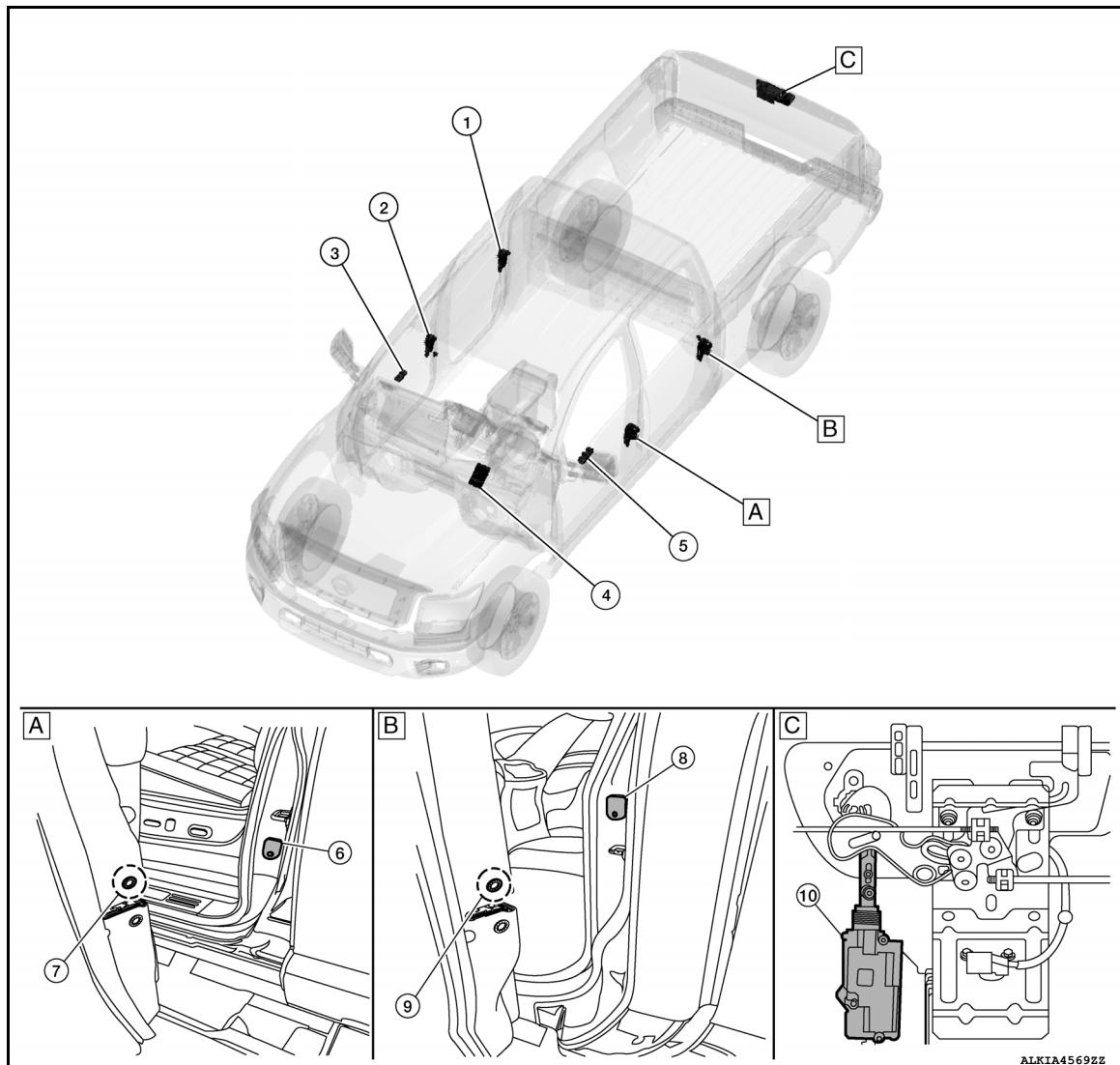
## SYSTEM DESCRIPTION

### COMPONENT PARTS

#### POWER DOOR LOCK SYSTEM

#### POWER DOOR LOCK SYSTEM : Component Parts Location

INFOID:0000000014391094



A. View of left front door

B. View of left rear door

C. View with tailgate access panel removed

No.	Component	Function
1.	Rear door lock actuator RH	Rear door lock actuator locks/unlocks the rear door latch assembly.
2.	Front door lock actuator RH	Front door lock actuator locks/unlocks the front door latch assembly.
3.	Power window and door lock/unlock switch RH	<a href="#">DLK-13, "Door Lock and Unlock Switch (Passenger Side)"</a>
4.	BCM	BCM controls the door lock system. Refer to <a href="#">BCS-5, "BODY CONTROL SYSTEM : Component Parts Location"</a> for detailed installation location.
5.	Main power window and door lock/unlock switch	<a href="#">DLK-13, "Door Lock and Unlock Switch (Driver Side)"</a>

## COMPONENT PARTS

### < SYSTEM DESCRIPTION >

No.	Component	Function
6.	Front door switch LH	<a href="#">DLK-15, "Front Door Switch"</a>
7.	Front door lock assembly LH	<a href="#">DLK-16, "Front Door Lock Assembly (LH)"</a>
8.	Rear door switch LH	<a href="#">DLK-16, "Rear Door Switch"</a>
9.	Rear door lock actuator LH	Rear door lock actuator locks/unlocks the rear door latch assembly.
10.	Tailgate lock actuator	Tailgate lock actuator locks/unlocks the tailgate latch assembly.

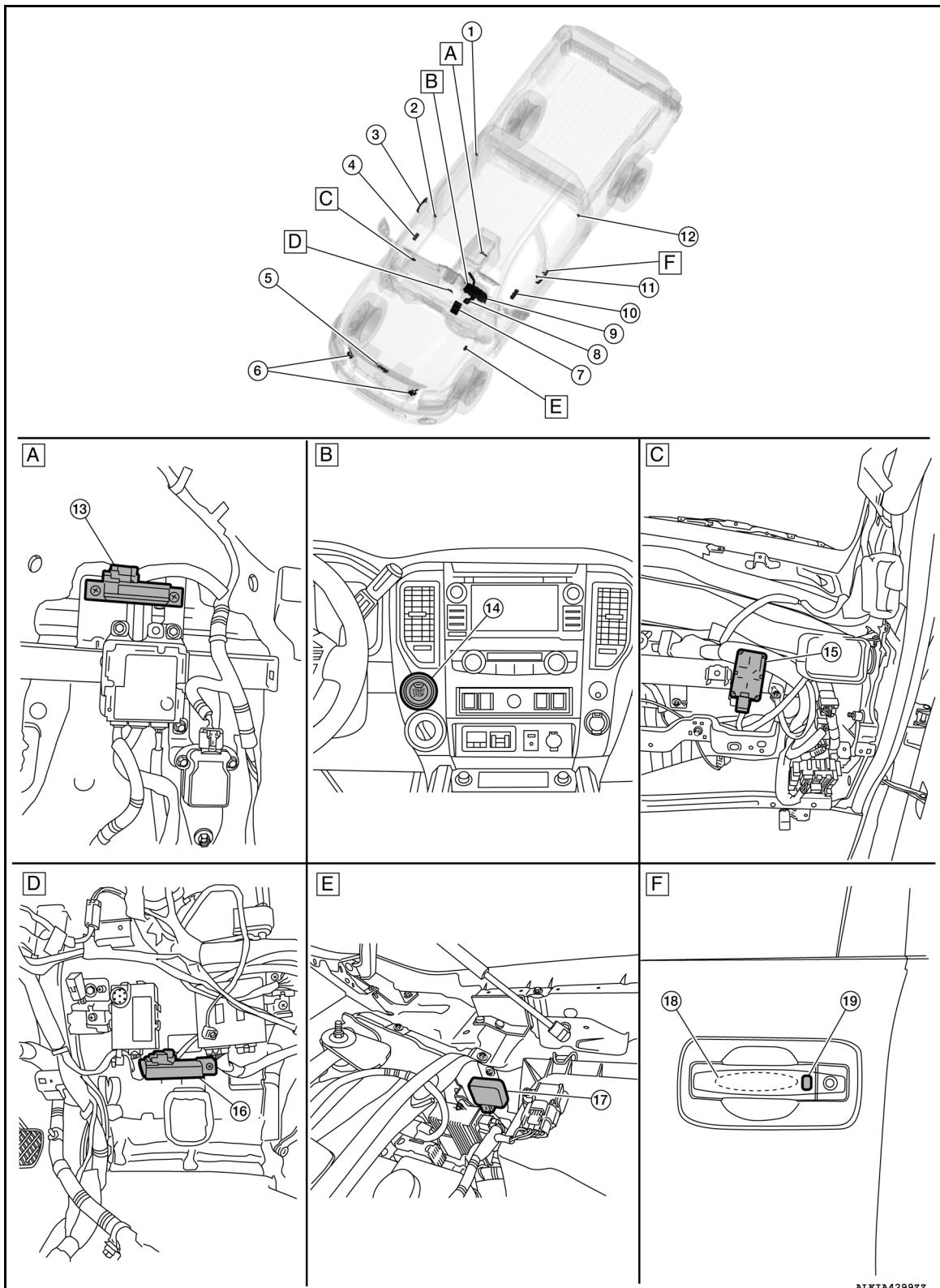
### INTELLIGENT KEY SYSTEM

# COMPONENT PARTS

< SYSTEM DESCRIPTION >

INTELLIGENT KEY SYSTEM : Component Parts Location

INFOID:000000014391095



- A. Center console area (view with center console removed)
- B. Center of the instrument panel
- C. Instrument lower panel RH (with instrument panel assembly removed)
- D. Center of instrument panel (view with instrument panel assembly removed)
- E. Engine room left side
- F. Left front outside door handle

# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

No.	Component	Function
1.	Rear door switch RH	Door switch detects door open/close condition and then transmits ON/OFF signal to BCM.
2.	Front door switch RH	Door switch detects door open/close condition and then transmits ON/OFF signal to BCM.
3.	Front outside handle assembly RH (door request switch RH) and (outside key antenna RH)	<ul style="list-style-type: none"> <li>Door request switch transmits door lock/unlock request signal to the BCM.</li> <li>Outside key antenna (RH) detects whether Intelligent Key is outside the vehicle or not, and then transmits the signal to the BCM.</li> </ul>
4.	Power window and door lock/unlock switch RH	Door lock and unlock switch is integrated into the power window switch. Door lock and unlock switch transmits door lock/unlock operation signal to BCM.
5.	Hood switch	Hood switch detects hood open/close condition and then transmits ON/OFF signal to IPDM E/R.
6.	Horns	IPDM E/R energizes the horns when the security system is activated after door lock.
7.	BCM	<p>BCM controls INTELLIGENT KEY SYSTEM (ENGINE START FUNCTION), NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS [NVIS (NATS)] and VEHICLE SECURITY SYSTEM.</p> <p>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.</p> <p>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 <a href="#">BCS-5, "BODY CONTROL SYSTEM : Component Parts Location"</a> for detailed installation location.</p>
8.	A/T shift selector	A/T shift selector detects the shift lever status, transmits park position switch signal to the BCM.
9.	Combination meter	<p>Combination meter transmits the vehicle speed signal to BCM via CAN communication.</p> <p>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.</p> <p>Security indicator lamp is located on combination meter.</p> <p>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.</p> <p>Refer to <a href="#">MWI-8, "METER SYSTEM : Component Parts Location"</a>.</p>
10.	Main power window and door lock/unlock switch	<p>Door lock and unlock switch is integrated into the power window main switch.</p> <p>Door lock and unlock switch transmits door lock/unlock operation signal to BCM.</p> <p>Refer to <a href="#">PWC-7, "Main Power Window and Door Lock/Unlock Switch"</a>.</p>
11.	Front door switch LH	Door switch detects door open/close condition and then transmits ON/OFF signal to BCM.
12.	Rear door switch LH	Door switch detects door open/close condition and then transmits ON/OFF signal to BCM.
13.	Inside key antenna (console)	<p>Inside key antenna (console) detects whether Intelligent Key is inside the vehicle or not and then transmits the signal to the BCM.</p> <p>Refer to <a href="#">DLK-14, "Inside Key Antenna (Console)"</a>.</p>
14.	Push-button ignition switch	<p>Push-button ignition switch has a push switch inside which detects that push-button ignition switch is pressed and then transmits ON/OFF signal to BCM.</p> <p>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.</p>
15.	Remote keyless entry receiver	Remote keyless entry receiver receives button operation signal and key ID signal of Intelligent Key and then transmits them to BCM.
		Refer to <a href="#">DLK-13, "Remote Keyless Entry Receiver"</a> .

# COMPONENT PARTS

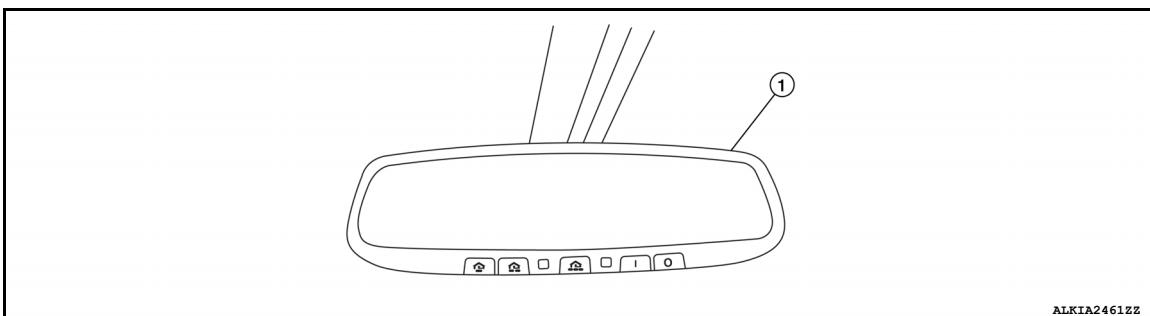
## < SYSTEM DESCRIPTION >

No.	Component	Function
16.	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 <a href="#">DLK-14, "Inside Key Antenna (Instrument Center)"</a> .
17.	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.
18.	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 <a href="#">DLK-14, "Outside Key Antenna (LH)"</a> .
19.	Door request switch LH	Door request switch transmits door lock/unlock request signal to the BCM.

## INTEGRATED HOMELINK TRANSMITTER

### INTEGRATED HOMELINK TRANSMITTER : Component Parts Location

INFOID:0000000014391096



No.	Component	Function
1.	Auto anti-dazzling inside mirror	<a href="#">DLK-16, "Integrated Homelink Transmitter"</a>

## Door Lock and Unlock Switch (Driver Side)

INFOID:0000000014391097

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

## Door Lock and Unlock Switch (Passenger Side)

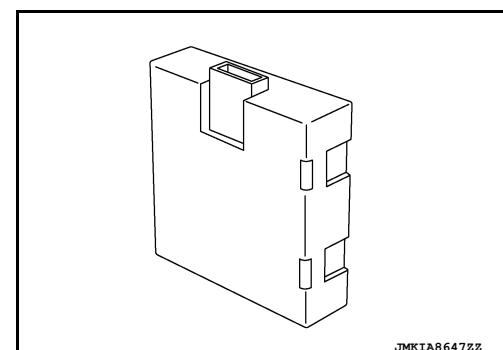
INFOID:0000000014391098

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

## Remote Keyless Entry Receiver

INFOID:0000000014391099

- 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 behind the glove box.



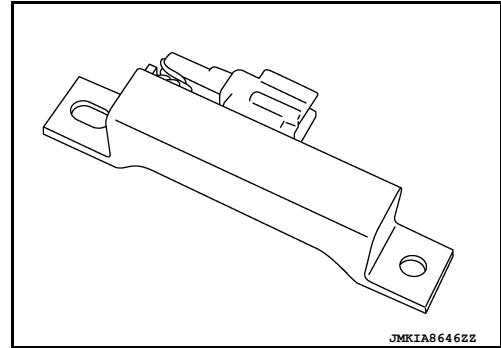
# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

### Inside Key Antenna (Instrument Center)

INFOID:0000000014391100

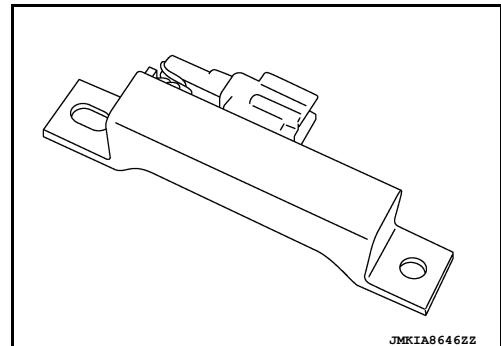
- Inside key antenna (instrument center) detects that Intelligent Key is within the inside detection area and then transmits detection status to BCM.



### Inside Key Antenna (Console)

INFOID:0000000014391101

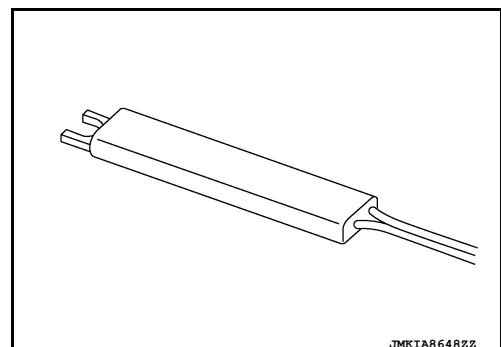
- Inside key antenna (console) detects that Intelligent Key is within the inside detection area and then transmits detection status to BCM.



### Outside Key Antenna (LH)

INFOID:0000000014391102

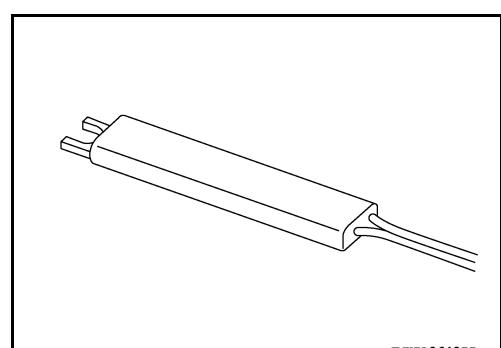
- Outside key antenna (LH) detects that Intelligent Key is within the outside detection area and then transmits detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.
- Outside key antenna (LH) is installed in driver side outside handle.



### Outside Key Antenna (RH)

INFOID:0000000014391103

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



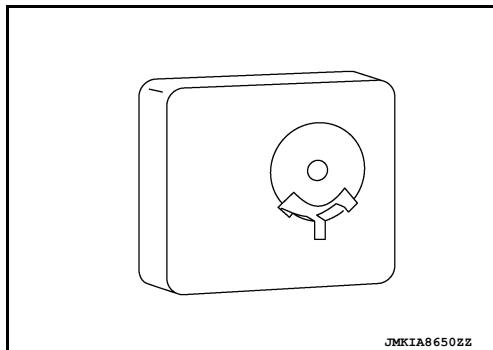
# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

### Intelligent Key Warning Buzzer

INFOID:0000000014391104

- 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.
- Intelligent Key warning buzzer is installed just behind the air cleaner housing.

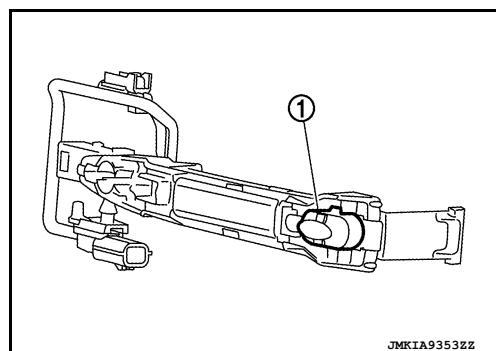


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### Front Door Request Switch (LH)

INFOID:0000000014391105

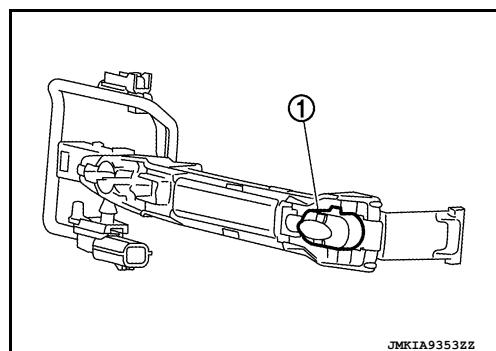
- Front door request switch (LH) transmits door request switch signal to BCM.
- Front door request switch (LH) (1) is integrated into driver side outside handle.



### Front Door Request Switch (RH)

INFOID:0000000014391106

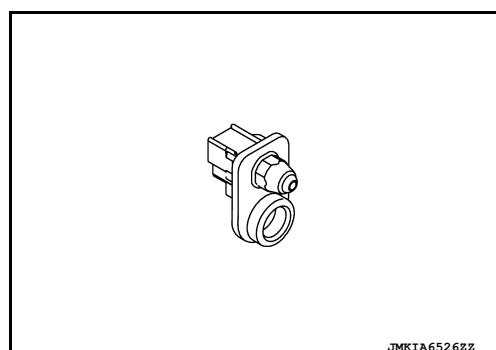
- Front door request switch (RH) transmits door request switch signal to BCM.
- Front door request switch (RH) (1) is integrated into passenger side outside handle.



### Front Door Switch

INFOID:0000000014391107

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



# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

### Rear Door Switch

INFOID:000000014391108

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

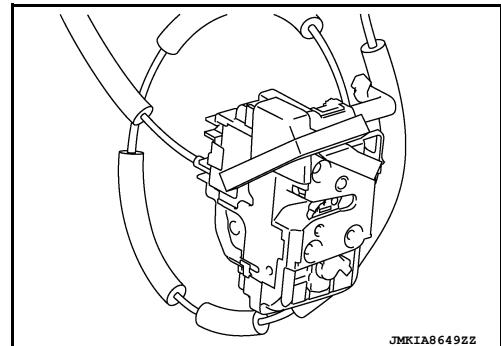


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### Front Door Lock Assembly (LH)

INFOID:000000014391109

- Door lock actuator and unlock sensor are integrated into 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.

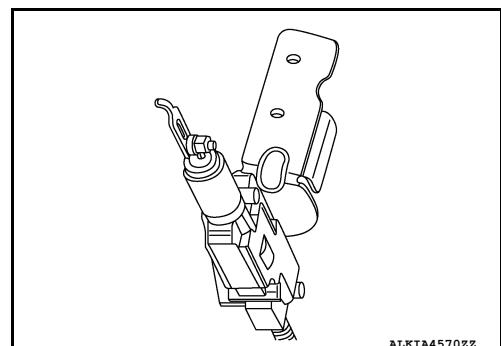


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### Tailgate Lock Actuator

INFOID:000000014692792

- Tailgate lock actuator is located inside the tailgate next to the tailgate handle.
- Tailgate lock actuator receives lock/unlock signal from BCM and then locks/unlocks the tailgate.



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### Integrated Homelink Transmitter

INFOID:000000014391110

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

# SYSTEM (POWER DOOR LOCK SYSTEM)

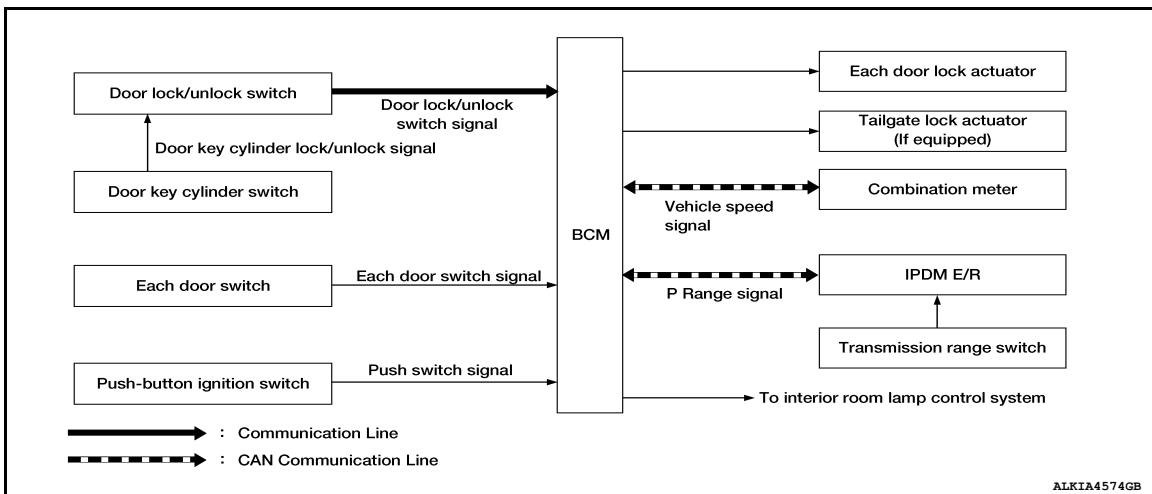
< SYSTEM DESCRIPTION >

## SYSTEM (POWER DOOR LOCK SYSTEM)

### System Description

INFOID:0000000014391111

### SYSTEM DIAGRAM



### DOOR LOCK FUNCTION

#### Door Lock and Unlock Switch

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

#### Door Key Cylinder Switch

- With the mechanical key inserted into the door key cylinder on driver side, turning it to lock position locks door lock actuator of all doors and tailgate lock actuator (if equipped).
- With the mechanical key inserted into the door key cylinder on driver side, turning it to unlock position once unlocks the driver side door and tailgate lock actuator (if equipped) and turning it to unlock position again within 60 seconds after the first unlock operation unlocks all of the other doors (SELECTIVE UNLOCK OPERATION).

Selective unlock operation mode can be changed using CONSULT.

Refer to [BCS-20, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

### IGNITION POSITION WARNING FUNCTION

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

### INTERIOR ROOM LAMP CONTROL FUNCTION

Interior room lamp is controlled according to door lock/unlock state. Refer to [INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description".](#)

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

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

#### Vehicle Speed Sensing Auto Door Lock

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

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

#### P Range Interlock Door Lock

All doors and tailgate are locked when shifting the selector lever from the P (Park) position to any position other than P (Park).

# SYSTEM (POWER DOOR LOCK SYSTEM)

## < SYSTEM DESCRIPTION >

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

### Setting Change of Automatic Door Lock/Unlock Function

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

#### With CONSULT

The ON/OFF switching of the automatic door lock function and the type selection of the automatic door lock/unlock function can be performed in the “Work support” mode.

#### Without CONSULT

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

1. Close all doors (door switch OFF).
2. Ignition switch: OFF→ON
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 complete when the hazard lamp blinks as follows:

OFF → ON : 2 blinks

ON → OFF : 1 blink

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

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

### IGN OFF Interlock Door Unlock

All doors and tailgate lock actuator (if equipped) are unlocked when the power supply position is changed from ON to OFF.

BCM outputs the unlock signal to all door lock actuators and tailgate lock actuator (if equipped) when it detects that the power supply position is changed from ignition switch ON to OFF.

### P Range Interlock Door Unlock

All doors and tailgate lock actuator (if equipped) are unlocked when shifting the selector lever from any position other than P to the P position.

BCM outputs the unlock signal to all door lock actuators and tailgate lock actuator (if equipped) when it detects that the ignition switch is in the ON position and the shift signal received from park position switch when shifted from any position other than P to the P position.

### Setting Change of Automatic Door Lock/Unlock Function

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

#### With CONSULT

The ON/OFF switching of the automatic door lock/unlock function and the type selection of the automatic door lock/unlock function can be performed in the “Work support” mode.

#### Without CONSULT

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

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

OFF → ON : 2 blinks

ON → OFF : 1 blink

# SYSTEM (INTELLIGENT KEY SYSTEM)

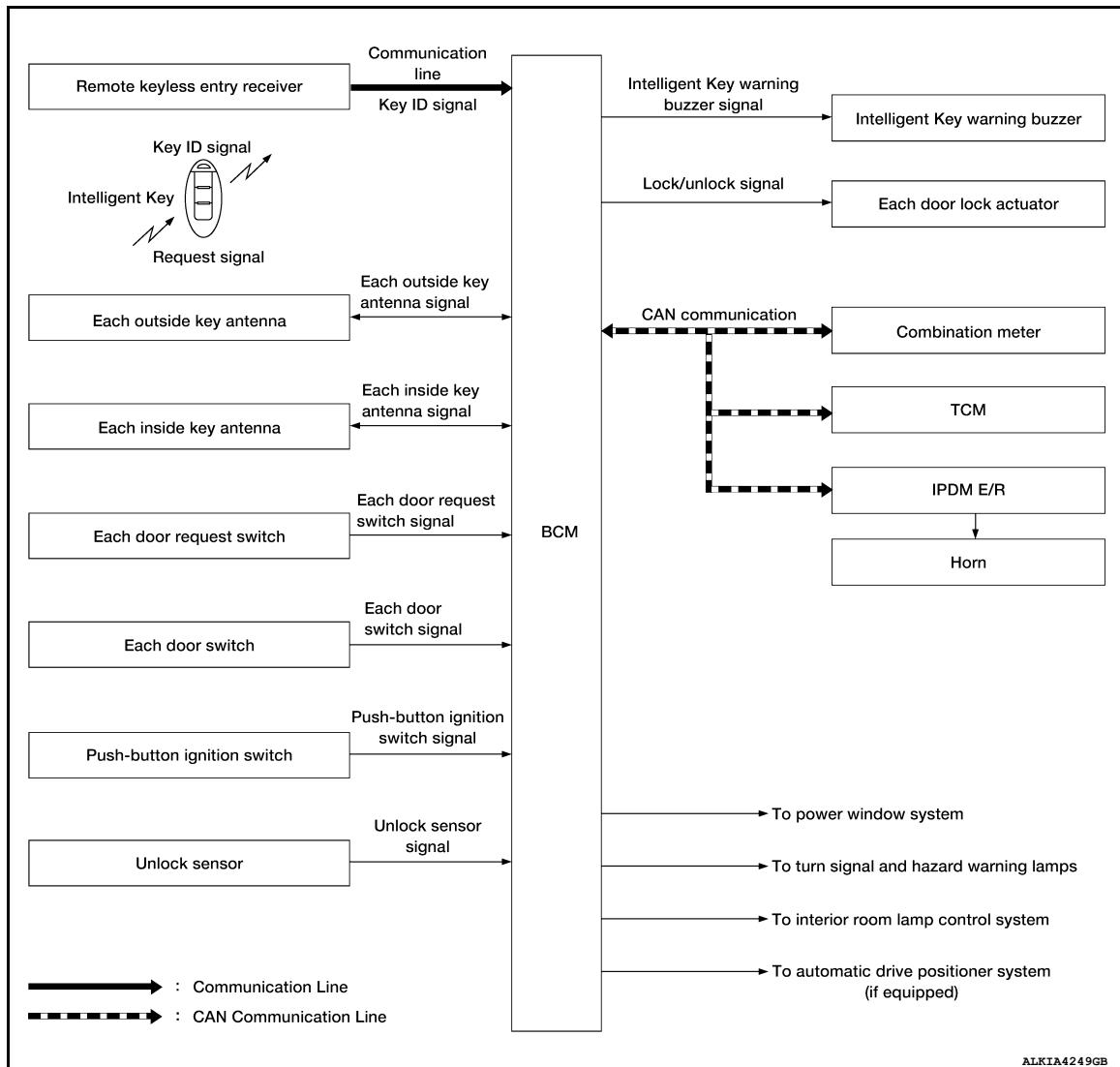
< SYSTEM DESCRIPTION >

## SYSTEM (INTELLIGENT KEY SYSTEM) INTELLIGENT KEY SYSTEM

### INTELLIGENT KEY SYSTEM : System Description

INFOID:000000014391112

#### 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).

#### CAUTION:

**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.
- For initialization and registration of Intelligent Keys, refer to CONSULT Immobilizer mode and follow the on-screen instructions.

Function	Description	Reference
Door lock	Lock/unlock can be performed by pressing the request switch.	<a href="#">DLK-19</a>
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.	<a href="#">DLK-20</a>

# SYSTEM (INTELLIGENT KEY SYSTEM)

## < SYSTEM DESCRIPTION >

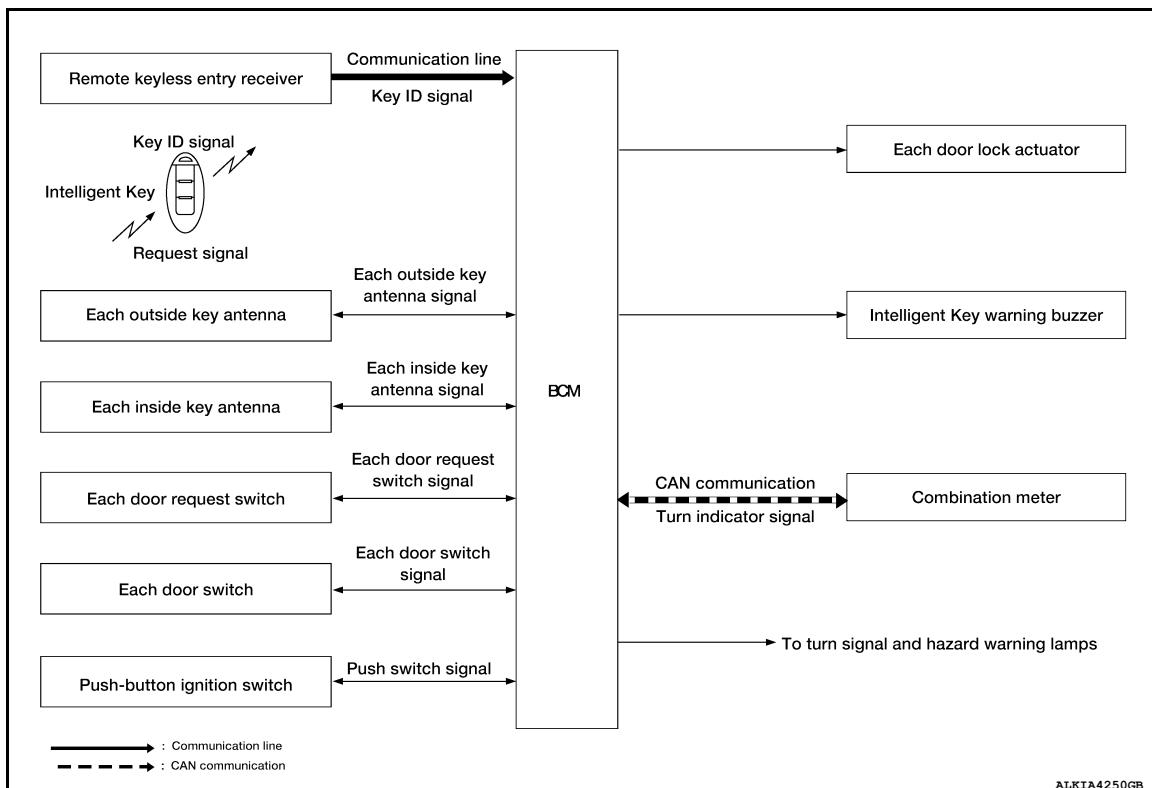
Function	Description	Reference
Key reminder	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.	<a href="#">DLK-24</a>
Warning	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver.	<a href="#">DLK-24</a>
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state.	<a href="#">DLK-19</a>
Panic alarm	When Intelligent Key panic alarm button is pressed, horn sounds.	<a href="#">DLK-24</a>

## DOOR LOCK FUNCTION

### DOOR LOCK FUNCTION : System Description

INFOID:0000000014391113

#### SYSTEM DIAGRAM



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

#### OPERATION DESCRIPTION

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

#### OPERATION CONDITION

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

# SYSTEM (INTELLIGENT KEY SYSTEM)

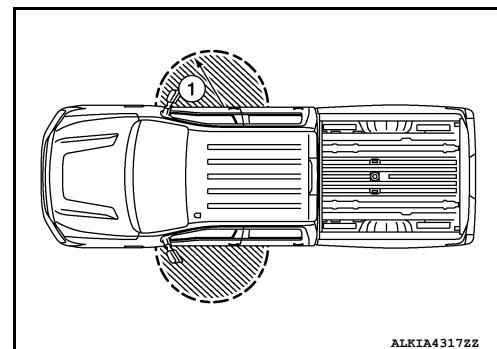
## < SYSTEM DESCRIPTION >

Each door request switch operation	Operation condition
Lock	<ul style="list-style-type: none"> <li>• All doors are closed.</li> <li>• Panic alarm is not activated.</li> <li>• P (Park) position warning is not activated.</li> <li>• Intelligent Key is outside the vehicle.</li> <li>• Intelligent Key is within outside key antenna detection area*.</li> </ul>
Unlock	<ul style="list-style-type: none"> <li>• Panic alarm is not activated.</li> <li>• Intelligent Key is outside the vehicle.</li> <li>• Intelligent Key is within outside key antenna detection area*.</li> </ul>

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

## OUTSIDE KEY ANTENNA DETECTION AREA

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



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## SELECTIVE UNLOCK FUNCTION

### Lock Operation

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

### Unlock Operation

- When an UNLOCK signal from driver side door request switch is transmitted, driver side door is unlocked. When another UNLOCK signal is transmitted within 60 seconds, all other doors are unlocked.
- When an UNLOCK signal from passenger side door request switch is transmitted, passenger side door is unlocked. When another UNLOCK signal is transmitted within 60 seconds, all other doors are unlocked.

### How To Change Selective Unlock Operation Mode

Selective unlock operation mode can be changed using CONSULT.

Refer to [BCS-26, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

## HAZARD AND BUZZER REMINDER FUNCTION

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

### Operating Function of Hazard and Buzzer Reminder

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

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

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

### How To Change Hazard And Buzzer Reminder Mode

Hazard and buzzer reminder mode can be changed using CONSULT.

Refer to [BCS-26, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

## AUTO DOOR LOCK FUNCTION

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

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DLK

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O

P

# SYSTEM (INTELLIGENT KEY SYSTEM)

## < SYSTEM DESCRIPTION >

Operating condition	<ul style="list-style-type: none"> <li>Door switch is ON (door is open).</li> <li>Door is locked.</li> <li>Push switch is pressed.</li> </ul>
---------------------	---

### How To Change Auto Door Lock Operation Mode

Auto door lock operation mode can be changed using CONSULT.

Refer to [BCS-26, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

### LIST OF OPERATION RELATED PARTS

Parts marked with **x** are the parts related to operation.

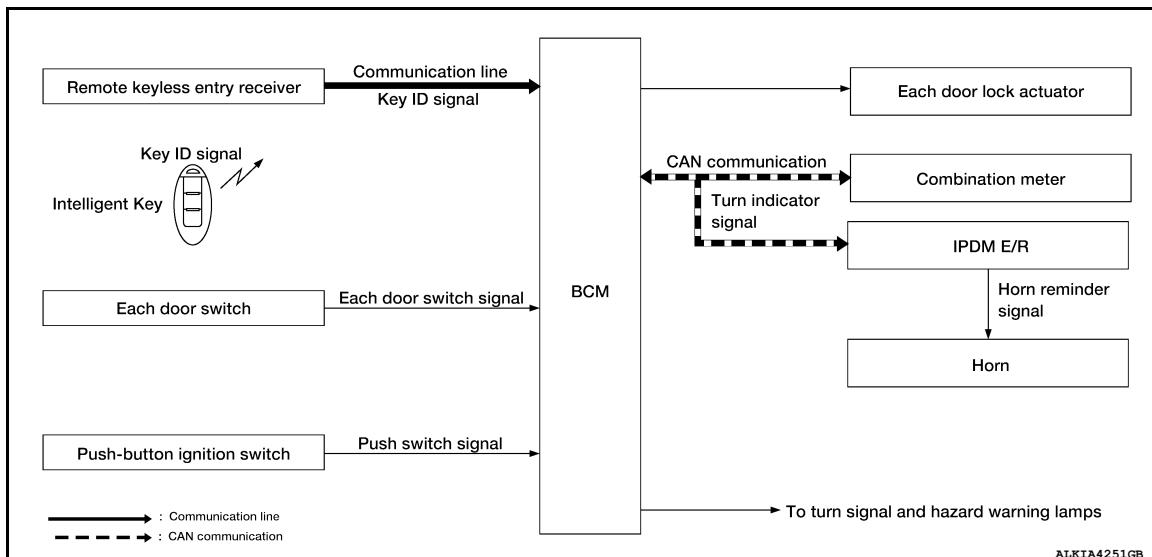
Function	Intelligent Key	Door switch	Door request switch	Door lock actuator	Inside key antenna	Outside key antenna	CAN communication system	BCM	Hazard warning lamp	Intelligent Key warning buzzer	Push-button ignition switch
Door lock/unlock function	x	x	x	x	x	x	x				
Hazard reminder function							x	x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

## REMOTE KEYLESS ENTRY FUNCTION

### REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:0000000014391114

### SYSTEM DIAGRAM



### SYSTEM DESCRIPTION

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

### OPERATION

Remote keyless entry system controls operation of the following items:

- Door lock/unlock function
- Selective unlock function
- Auto door lock function
- Hazard and horn reminder function

# SYSTEM (INTELLIGENT KEY SYSTEM)

## < SYSTEM DESCRIPTION >

- Remote engine start

## OPERATION AREA

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

## DOOR LOCK/UNLOCK FUNCTION

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

## OPERATION CONDITION

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

Remote controller operation	Operation condition
Lock	<ul style="list-style-type: none"><li>• Panic alarm is not activated.</li><li>• P (Park) position warning is not activated.</li></ul>
Unlock	Panic alarm is not activated.

## SELECTIVE UNLOCK FUNCTION

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

### How To Change Selective Unlock Operation Mode.

Selective unlock operation mode can be changed using CONSULT.

Refer to [BCS-20, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

## AUTO DOOR LOCK FUNCTION

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

Operating condition	<ul style="list-style-type: none"><li>• Door switch is ON (door is open).</li><li>• Door is locked.</li><li>• Push switch is pressed.</li></ul>
---------------------	---

### How To Change Auto Door Lock Operation Mode.

Auto door lock mode can be changed using CONSULT.

Refer to [BCS-26, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

## HAZARD AND HORN REMINDER FUNCTION

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

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

Operating Function of Hazard and Horn Reminder

	C mode		S mode	
Intelligent Key operation	Lock	Unlock	Lock	Unlock
Hazard warning lamps blink	Twice	Once	Twice	—
Horn sounds	Once	—	—	—

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

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

### How to Change Hazard and Horn Reminder Mode

#### With CONSULT

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

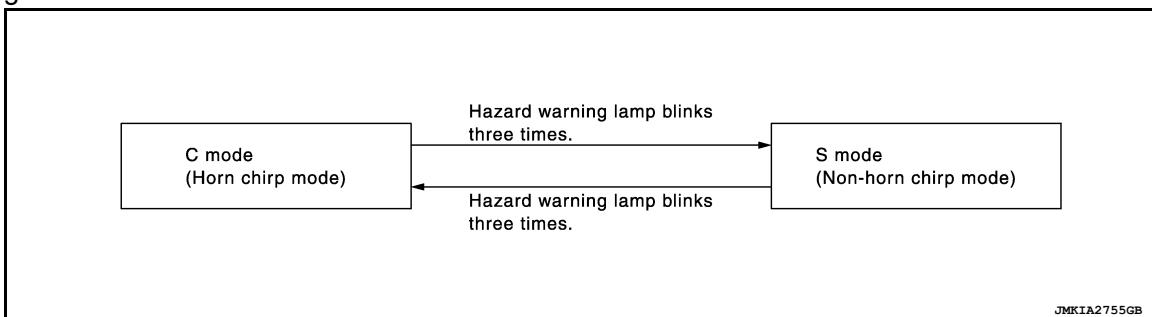
Refer to [BCS-26, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

#### Without CONSULT

# SYSTEM (INTELLIGENT KEY SYSTEM)

## < SYSTEM DESCRIPTION >

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



## LIST OF OPERATION RELATED PARTS

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

Function	Intelligent Key	Door switch	Door lock actuator	Push-button ignition switch	CAN communication system	BCM	IPDM E/R	Horn	Combination meter	Hazard warning lamp
Door lock/unlock function	$\times$	$\times$	$\times$			$\times$				
Selective unlock function	$\times$	$\times$	$\times$			$\times$				
Hazard and horn reminder function					$\times$	$\times$	$\times$	$\times$	$\times$	$\times$

## WARNING FUNCTION

### WARNING FUNCTION : System Description

INFOID:0000000014391115

### OPERATION DESCRIPTION

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

- Intelligent Key system malfunction
- OFF position warning
- P position warning
- Take away warning
- Door lock operation warning
- Engine start information
- Intelligent Key low battery warning
- Key ID warning
- Key ID verification information

### OPERATION CONDITION

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

# SYSTEM (INTELLIGENT KEY SYSTEM)

## < SYSTEM DESCRIPTION >

Warning/Information functions		Operation procedure
Intelligent Key system malfunction		When a malfunction is detected on BCM, "KEY" warning lamp illuminates.
OFF position warning	For internal	<p>When condition A, B or C is satisfied:</p> <ul style="list-style-type: none"> <li>Condition A</li> <li>- Ignition switch: ACC position</li> <li>- Door switch (driver side): ON (Door is open.)</li> <li>Condition B</li> <li>- Turn ignition switch from ON to OFF while door is open.</li> <li>Condition C</li> <li>- Intelligent Key backside is contacted to ignition switch while brake pedal is depressed and ignition switch is in LOCK or OFF (when the Intelligent Key battery is discharged.)</li> <li>- Door switch (driver side): ON (Door is open.)</li> </ul>
	For external	<p>OFF position warning (for internal) is in active mode and driver side door is closed.</p> <p><b>NOTE:</b> OFF position (for external) active only when each of the sequence occurs as below: P position warning → ACC warning → OFF position warning (for internal) → OFF position warning (for internal)</p>
P position warning	For internal	<ul style="list-style-type: none"> <li>Shift position: Except P (Park) position</li> <li>Engine is running to stopped (ignition switch is ON to OFF.)</li> </ul>
	For external	Warning is activated when driver door is closed from the open position while the P (Park) position warning (for inside vehicle) is ON.
ACC warning		<ul style="list-style-type: none"> <li>When P (Park) position warning is in active mode, shift position changes P (Park) position.</li> <li>Ignition switch: ACC position</li> </ul>
Take away warning	Door is open to closed	<ul style="list-style-type: none"> <li>Ignition switch: Except Lock position</li> <li>Door switch: ON to OFF (Door is open to close.)</li> <li>Intelligent Key cannot be detected inside the vehicle.</li> </ul>
	Door is open.	<ul style="list-style-type: none"> <li>Ignition switch: Except Lock position</li> <li>Door switch: ON (Door is open.)</li> <li>Key ID verification every 5 seconds when registered Intelligent Key cannot be detected inside the vehicle.</li> </ul>
	Push-button ignition switch operation	<ul style="list-style-type: none"> <li>Ignition switch: Except Lock position</li> <li>Press push-button ignition switch.</li> <li>Intelligent Key cannot be detected inside the vehicle.</li> </ul>
Door lock operation warning		When door lock operation is requested while door lock operating conditions of door request switch or Intelligent Key are not satisfied.
Engine start information	Ignition switch is in ON position.	<ul style="list-style-type: none"> <li>Ignition switch: ON position</li> <li>Shift position: P (Park) position</li> <li>Engine is stopped.</li> </ul>
	Ignition switch is in except ON position.	<ul style="list-style-type: none"> <li>Ignition switch: Except ON position</li> <li>Shift position: P (Park) position</li> <li>Intelligent Key is inserted in key slot or Intelligent Key can be detected inside the vehicle.</li> </ul>
Intelligent Key low battery warning		When Intelligent Key is low battery, BCM is detected after ignition switch is turned ON.
Key ID warning		When registered Intelligent Key cannot be detected inside the vehicle after ignition switch is turned ON.
Key ID verification information		<ul style="list-style-type: none"> <li>When registered Intelligent Key cannot be detected inside the vehicle</li> <li>Intelligent Key battery is discharged</li> <li>When NATS antenna amp. cannot detect NATS ID.</li> </ul>

## WARNING METHOD

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

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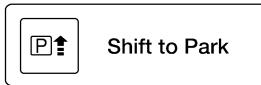
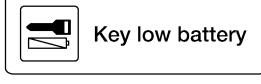
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# SYSTEM (INTELLIGENT KEY SYSTEM)

## < SYSTEM DESCRIPTION >

Warning/Information functions		"KEY" warning lamp	Information display (combination meter)	Warning chime	
				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	—	 Shift to Park  <b>ALKIA2515GB</b>	Activate	—
	For external			—	Active
Take away warning	Door is open to closed.	—	 No Key Detected  <b>ALKIA2517GB</b>	Activate	Activate
	Door is open.			—	—
	Push-button ignition switch operation			Activate	—
Door lock operation warning	Request switch operation	—	—	—	Activate
	Intelligent Key	—	—	—	Activate
Key ID warning		—	 Key ID Incorrect  <b>ALKIA2518GB</b>	—	—
Intelligent Key low battery warning		—	 Key low battery  <b>ALKIA2520GB</b>	—	—
Key ID verification information		—		—	—

## LIST OF OPERATION RELATED PARTS

Parts marked with  are the parts related to operation.

# SYSTEM (INTELLIGENT KEY SYSTEM)

## < SYSTEM DESCRIPTION >

Warning function		Intelligent Key	Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter buzzer	CAN communication system	BCM	Information display	“KEY” warning lamp
Intelligent Key system malfunction										x	x		x
OFF position warning	For internal			x					x	x	x		
	For external			x				x			x		
P (Park) position warning			x					x	x	x	x	x	x
Take away warning	Door is open or closed.	x		x	x			x	x	x	x	x	x
	Door is open.	x		x	x	x			x	x	x	x	x
	Push-button ignition switch operation	x	x			x			x	x	x	x	x
Door lock operation warning		x		x	x	x	x	x			x		
Key ID warning			x			x				x	x	x	x
Engine start information	Ignition switch is in ON position.	x	x			x				x	x	x	
	Ignition switch is in except ON position.	x	x			x				x	x	x	
Intelligent Key low battery warning		x				x				x	x	x	x
Key ID verification information		x				x				x	x	x	

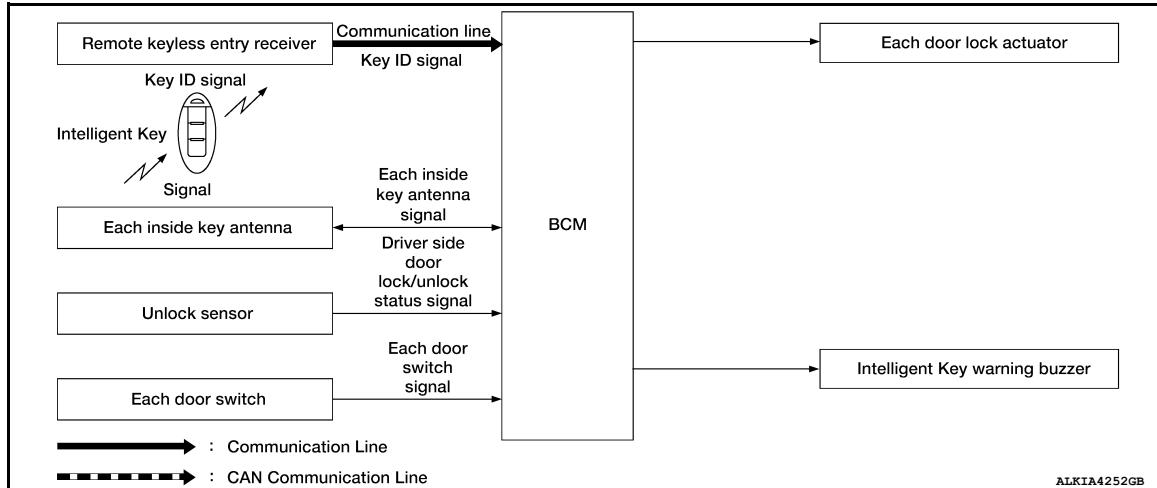
## KEY REMINDER FUNCTION

### KEY REMINDER FUNCTION : System Description

INFOID:000000014391116

DLK

#### SYSTEM DIAGRAM



#### SYSTEM DESCRIPTION

Key reminder is the function that prevents the key from being left in the vehicle.

Key reminder has the following 3 functions:

# SYSTEM (INTELLIGENT KEY SYSTEM)

## < SYSTEM DESCRIPTION >

Key reminder function	Operation condition	Operation
Driver door is closed*.	Right after driver door is closed under the following conditions: <ul style="list-style-type: none"> <li>Door lock operation is performed.</li> <li>Driver side door is open.</li> <li>Driver side door is in lock state.</li> </ul>	All doors.
Door is open or closed.	Right after all doors are closed under the following conditions: <ul style="list-style-type: none"> <li>Intelligent Key is inside the vehicle.</li> <li>Any door is open.</li> <li>All doors (except for back door) are locked by door lock and unlock switch or door lock knob.</li> </ul>	<ul style="list-style-type: none"> <li>All doors.</li> <li>Honk Intelligent Key warning buzzer.</li> </ul>

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

### CAUTION:

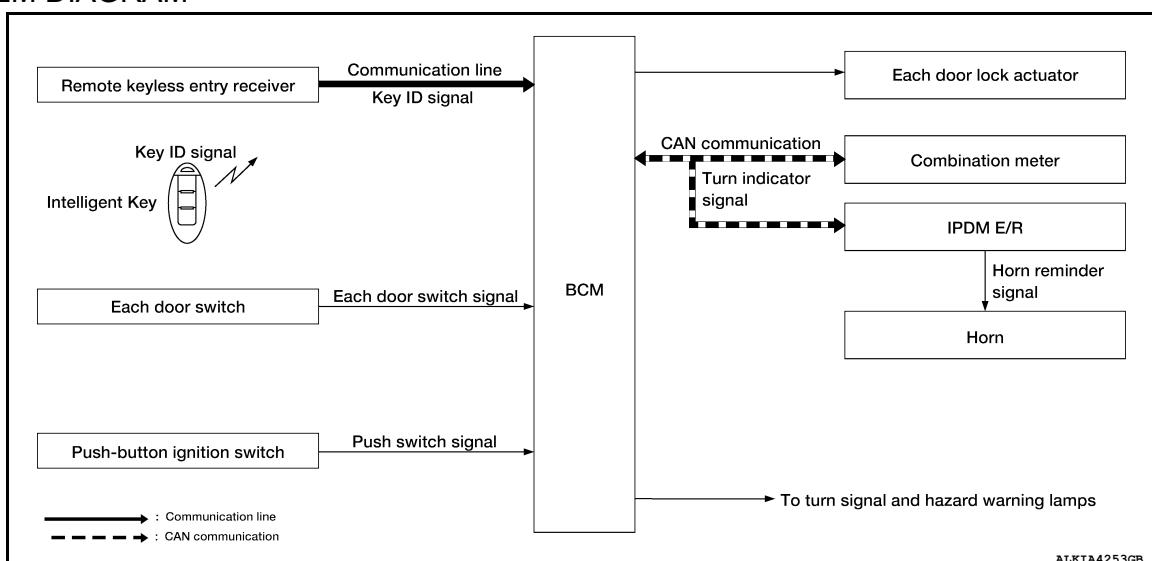
- The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected. This function does not operate when the Intelligent Key is on the instrument panel, rear parcel shelf or in the glove box. Also, this system sometimes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

## REMOTE ENGINE START FUNCTION

### REMOTE ENGINE START FUNCTION : System Description

INFOID:0000000014391117

### SYSTEM DIAGRAM



ALKIA4253GB

### OPERATION

Remote keyless entry system controls operation of the following items:

- Door lock/unlock function
- Selective unlock function
- Auto door lock function
- Hazard and horn reminder function
- Remote engine start

### OPERATION AREA

The remote engine start operating range is approximately 60 m (197 ft) from the vehicle but not inside the vehicle.

### REMOTE ENGINE START FUNCTION

- The remote engine start function is activated when the lock button of the Intelligent Key is pressed and released, and then within 5 seconds, the remote engine start button is pressed and held for at least 2 seconds. At this time, a start signal is transmitted from the Intelligent Key to the BCM via the remote keyless entry receiver.
- When the BCM receives the lock signal, it locks all doors and the fuel lid, flashes the hazard lamps and chirps the horn (the horn will chirp only if the answer back horn feature is activated).

# SYSTEM (INTELLIGENT KEY SYSTEM)

## < SYSTEM DESCRIPTION >

- When the BCM receives a successful remote engine start signal, the turn signals will flash once and the parking/tail lamps will come on.
- To enter normal engine run mode from inside the vehicle, depress and hold the brake pedal then press the push-button ignition switch.
- To cancel the remote engine start mode away from the vehicle, press the remote engine start button on the Intelligent Key.
- Once the vehicle has been started using the remote engine start feature, it will remain running for 10 minutes. Extended run time can be added to the initial 10 minute running time by first pressing and releasing the lock button and then within 5 seconds, pressing and holding the remote engine start button for at least 2 seconds. The turn signals will flash once and an additional 10 minutes of running time will be added. The additional 10 minutes start when the extended run time is activated. Extended time can only be added once for a maximum run time of up to 20 minutes.

Additional remote engine start cancel operations	<ul style="list-style-type: none"> <li>Anti-theft alarm is activated - unauthorized entry.</li> <li>Maximum time for engine to run by remote start has been exceeded.</li> <li>Hazard lamps are turned on.</li> <li>Push-button ignition switch is pressed without the Intelligent Key in the vehicle.</li> <li>Push-button ignition switch is pressed without depressing the brake pedal first.</li> <li>The hood is opened while the remote engine start is engaged.</li> <li>The vehicle has been moved out of park before "brake and push" action is completed.</li> </ul>
Limitations/Restrictions	<ul style="list-style-type: none"> <li>Remote engine start must be set to ON within Vehicle Settings in the combination meter.</li> <li>Engine must be stopped (0 rpm) before engine can be remotely started. <ul style="list-style-type: none"> <li>Must wait for 6 seconds or more after IGN RUN → OFF.</li> </ul> </li> <li>Remote engine start can only be activated up to 2 times. <ul style="list-style-type: none"> <li>Remote engine start extended time counts as 1 remote engine start activation.</li> <li>Cycling IGN via push-button ignition switch resets this counter.</li> </ul> </li> <li>User has 5 seconds to press and hold remote engine start button after lock button is pressed.</li> <li>Remote engine start must be pressed and held for 2 seconds or more after lock button is pressed.</li> <li>Maximum remote start time is 20 minutes (this includes remote engine start extended time).</li> <li>Operation area is approximately 60 m (197 ft) from the vehicle but not inside the vehicle.</li> <li>The push-button ignition switch must not be in the ACC or ON position.</li> <li>The vehicle must be in Park.</li> <li>Hazard flashers must not be on.</li> <li>There must not be any registered Intelligent Keys inside the vehicle.</li> <li>Brakes must not be pressed when attempting to activate remote engine start. <ul style="list-style-type: none"> <li>Improper remote engine start operation can occur when stop lamp switch is misadjusted or inoperative.</li> </ul> </li> <li>The doors must be closed.</li> <li>The hood must be closed.</li> <li>No current DTCs in the BCM can be present.</li> </ul>

## HAZARD AND HORN REMINDER FUNCTION

When remote engine start is initiated by Intelligent Key, BCM blinks hazard warning lamps as a reminder. The hazard and horn reminder has a horn chirp mode (C mode) and a non-horn chirp mode (S mode).

### Operating Function of Hazard and Horn Reminder

	C mode		S mode	
Intelligent Key operation	Lock	Unlock	Lock	Unlock
Hazard warning lamps blink	Twice	Once	Twice	—
Horn sounds	Once	—	—	—

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

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

### How to Change Hazard and Horn Reminder Mode

#### With CONSULT

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

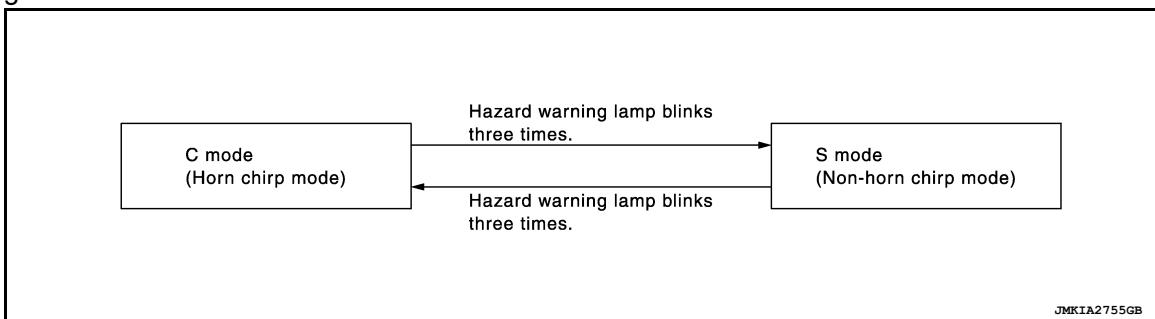
Refer to [BCS-26, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

#### Without CONSULT

# SYSTEM (INTELLIGENT KEY SYSTEM)

## < SYSTEM DESCRIPTION >

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



JMKIA2755GB

## LIST OF OPERATION RELATED PARTS

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

Function	Intelligent Key	Door switch	Door lock actuator	Fuel lid lock actuator	Push-button ignition switch	CAN communication system	BCM	IPDM E/R	Horn	Combination meter	Hazard warning lamp
Door lock/unlock function	$\times$	$\times$	$\times$	$\times$			$\times$				
Selective unlock function	$\times$	$\times$	$\times$	$\times$			$\times$				
Auto door lock function	$\times$	$\times$	$\times$	$\times$	$\times$		$\times$				
Hazard and horn reminder function						$\times$	$\times$	$\times$	$\times$	$\times$	$\times$
Remote engine start function	$\times$			$\times$	$\times$	$\times$	$\times$	$\times$	$\times$		$\times$

## SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

< SYSTEM DESCRIPTION >

### SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

#### System Description

INFOID:0000000014391118

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

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# DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (BCM)

### COMMON ITEM

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

INFOID:000000014664544

### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
ECU Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul style="list-style-type: none"><li>The vehicle specification can be read and saved.</li><li>The vehicle specification can be written when replacing BCM.</li></ul>
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.

### SYSTEM APPLICATION

BCM can perform the following functions:

System	Sub System	Direct Diagnostic Mode						
		ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Door lock	DOOR LOCK		×	×	×	×		
Rear window defogger	REAR DEFOGGER			×	×	×		
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEADLAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×	×		
Air conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×	×			
Interior room lamp battery saver	BATTERY SAVER			×	×			
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×				

### FREEZE FRAME DATA (FFD)

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

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description	
Vehicle Speed	km/h	Vehicle speed at the moment a particular DTC is detected	A
Odo/Trip Meter	km	Total mileage (Odometer value) at the moment a particular DTC is detected	B
Vehicle Condition	SLEEP>LOCK	Power position status at the moment a particular DTC is detected*	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK").
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF").
	LOCK>ACC		While turning power supply position from "LOCK" to "ACC".
	ACC>ON		While turning power supply position from "ACC" to "IGN".
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopped and selector lever is in P position.)
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF		While turning power supply position from "ACC" to "OFF".
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK".
	OFF>ACC		While turning power supply position from "OFF" to "ACC".
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING".
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF") to low power consumption mode.
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK") to low power consumption mode.
	LOCK		Power supply position is "LOCK" (Ignition switch OFF)*
	OFF		Power supply position is "OFF" (Ignition switch OFF)
	ACC		Power supply position is "ACC" (Ignition switch ACC)
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)
	CRANKING		Power supply position is "CRANKING" (At engine cranking)
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected <ul style="list-style-type: none"> <li>The number is 0 when a malfunction is detected now.</li> <li>The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition is switched OFF → ON.</li> <li>The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.</li> </ul>	DLK

### NOTE:

\*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met:

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

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

### DOOR LOCK

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

INFOID:0000000014664545

### SELF DIAGNOSTIC RESULT

Refer to [BCS-52, "DTC Index"](#).

### DATA MONITOR

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

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

## ACTIVE TEST

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

## WORK SUPPORT

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

\* : Initial setting

## INTELLIGENT KEY

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

INFOID:0000000014664546

## SELF DIAGNOSTIC RESULT

Refer to [BCS-52, "DTC Index"](#).

## DATA MONITOR

Monitor Item [Unit]	Main	Description
REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	×	Indicates condition of door request switch RH.
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor Item [Unit]	Main	Description
SHIFTLOCK SOLENOID PWR SUPPLY [On/Off]	×	Indicates condition of power supply to shiftlock solenoid.
BRAKE SW 1 [On/Off]	×	Indicates condition of brake switch.
BRAKE SW 2 [On/Off]		Indicates condition of brake switch.
DETE/CANCL SW [On/Off]	×	Indicates condition of P (park) position.
SFT PN/N SW [On/Off]	×	Indicates condition of P (park) or N (neutral) position.
UNLK SEN -DR [On/Off]	×	Indicates condition of door unlock sensor.
PUSH SW -IPDM [On/Off]		Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line.
IGN RLY1 -F/B [On/Off]		Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line.
DETE SW -IPDM [On/Off]		Indicates condition of park position switch received from TCM on CAN communication line.
SFT PN -IPDM [On/Off]		Indicates condition of P (park) or N (neutral) position from TCM on CAN communication line.
SFT P -MET [On/Off]		Indicates condition of P (park) position from TCM on CAN communication line.
SFT N -MET [On/Off]		Indicates condition of N (neutral) position from IPDM E/R on CAN communication line.
ENGINE STATE [Stop/Start/Crank/Run]	×	Indicates condition of engine state from ECM on CAN communication line.
VEH SPEED 1 [mph/km/h]	×	Indicates condition of vehicle speed signal received from ABS on CAN communication line.
VEH SPEED 2 [mph/km/h]	×	Indicates condition of vehicle speed signal received from combination meter on CAN communication line.
DOOR STAT -DR [LOCK/READY/UNLK]	×	Indicates condition of driver side door status.
DOOR STAT -AS [LOCK/READY/UNLK]	×	Indicates condition of passenger side door status.
DOOR STAT -RR [LOCK/READY/UNLK]	×	Indicates condition of rear right side door status.
DOOR STAT -RL [LOCK/READY/UNLK]	×	Indicates condition of rear left side door status.
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
PRMT RKE STRT [Set/Reset]		Indicates condition of engine start possibility from Intelligent Key.
I-KEY OK FLAG [Key ON/Key OFF]	×	Indicates condition of Intelligent Key OK flag.
PRBT ENG STRT [Set/Reset]		Indicates condition of engine start prohibit.
ID AUTHENTICATION CANCEL TIMER [under a stop]		Indicates condition of Intelligent Key ID authentication.
ACC BATTERY SAVER [under a stop]		Indicates condition of battery saver.
CRNK PRBT TMR [On/Off]		Indicates condition of crank prohibit timer.
AUT CRNK TMR [On/Off]		Indicates condition of automatic engine crank timer from Intelligent Key.
CRNK PRBT TME [sec]		Indicates condition of crank prohibit timer.
AUT CRNK TMR [sec]		Indicates condition of automatic engine crank timer from Intelligent Key.
CRANKING TME [sec]		Indicates condition of engine cranking time from Intelligent Key.
ST RLY -REQ		Indicates condition of starter relay.
IGN RLY 1 -REQ		Indicates condition of ignition 1 relay.
IGN RLY 2 -REQ		Indicates condition of ignition 2 relay.
DETE SW PWR [On/Off]		Indicates condition of park position switch voltage.
ACC RLY -REQ [On/Off]		Indicates condition of accessory relay control request.
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.

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# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Monitor Item [Unit]	Main	Description
RKE OPE COUN2 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE-LOCK [On/Off]		Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]		Indicates condition of unlock signal from Intelligent Key.
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal from Intelligent Key.

## ACTIVE TEST

Test Item	Description
INTELLIGENT KEY LINK (CAN)	This test is able to check Intelligent Key identification number [Off/ID No1/ID No2/ID No3/ID No4/ID No5].
INT LAMP	This test is able to check interior room lamp operation [On/Off].
FLASHER	This test is able to check hazard lamp operation [LH/RH/Off].
HORN	This test is able to check horn operation [On].
BATTERY SAVER	This test is able to check battery saver operation [On/Off].
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation [On/Off].
INSIDE BUZZER	This test is able to check combination meter warning chime operation [Take Out/Knob/Key/Off].
INDICATOR	This test is able to check combination meter warning lamp operation [KEY ON/KEY IND/Off].
IGN CONT2	This test is able to check ignition relay-2 control operation [On/Off].
ENGINE SW ILLUMI	This test is able to check push-button ignition switch START indicator operation [On/Off].
PUSH SWITCH INDICATOR	This test is able to check push-button ignition switch indicator operation [On/Off].
ACC CONT	This test is able to check accessory relay control operation [On/Off].
IGN CONT1	This test is able to check ignition relay-1 control operation [On/Off].
ST CONT LOW	This test is able to check starter control relay operation [On/Off].
IGNITION RELAY	This test is able to check ignition relay operation [On/Off].
TRUNK/LUGGAGE LAMP TEST	This test is able to check cargo lamp illumination operation [On/Off].
KEYFOB PW TEST	This test is able to check power window operation using the Intelligent Key [P/W up/down OFF/Send P/W down ON/Send P/W up ON].
SHIFTLOCK SOLENOID TEST	This test is able to check shift lock solenoid operation [On/Off].

## WORK SUPPORT

Support Item	Setting	Description
IGN/ACC BATTERY SAVER	On*	Battery saver function ON.
	Off	Battery saver function OFF.
REMOTE ENGINE STARTER	On*	Remote engine start function ON.
	Off	Remote engine start function OFF.
ANSWERBACK I-KEY LOCK UNLOCK	BUZZER*	Buzzer reminder function by door lock/unlock request switch ON.
	HORN	Horn chirp reminder function by door lock request switch ON.
	Off	No reminder function by door lock/unlock request switch.
	INVALID	This mode is not used.
ANSWERBACK KEYLESS LOCK UNLOCK	On*	Buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key.
	Off	No buzzer or horn chirp reminder when doors are locked/unlocked with Intelligent Key.

# DIAGNOSIS SYSTEM (BCM)

## < SYSTEM DESCRIPTION >

Support Item	Setting		Description
ANSWER BACK	On*		Horn chirp reminder when doors are locked with Intelligent Key.
	Off		No horn chirp reminder when doors are locked with Intelligent Key.
RETRACTABLE MIRROR SET	On		Retractable mirror set ON.
	Off*		Retractable mirror set OFF.
LOCK/UNLOCK BY I-KEY	On*		Door lock/unlock function from Intelligent Key ON.
	Off		Door lock/unlock function from Intelligent Key OFF.
ENGINE START BY I-KEY	On*		Engine start function from Intelligent Key ON.
	Off		Engine start function from Intelligent Key OFF.
CONFIRM KEY FOB ID	—		Intelligent Key ID code can be checked.
SHORT CRANKING OUTPUT	Start	70 msec	Starter motor operation duration times.
		100 msec	
		200 msec	
	End	—	
INSIDE ANT DIAGNOSIS	—		This function allows inside key antenna self-diagnosis.
AUTO LOCK SET	MODE7	5 min	Auto door lock time can be set in this mode.
	MODE6	4 min	
	MODE5	3 min	
	MODE4	2 min	
	MODE3*	1 min	
	MODE2	30 sec	
	MODE1	Off	

\*: Initial Setting

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&lt; ECU DIAGNOSIS INFORMATION &gt;

# ECU DIAGNOSIS INFORMATION

**BCM**

List of ECU Reference

INFOID:000000014391122

ECU	Reference
BCM	<a href="#">BCS-32, "Reference Value"</a>
	<a href="#">BCS-51, "Fail Safe"</a>
	<a href="#">BCS-51, "DTC Inspection Priority Chart"</a>
	<a href="#">BCS-52, "DTC Index"</a>

## INTELLIGENT KEY SYSTEM

## < WIRING DIAGRAM >

## WIRING DIAGRAM

## INTELLIGENT KEY SYSTEM

## Wiring Diagram

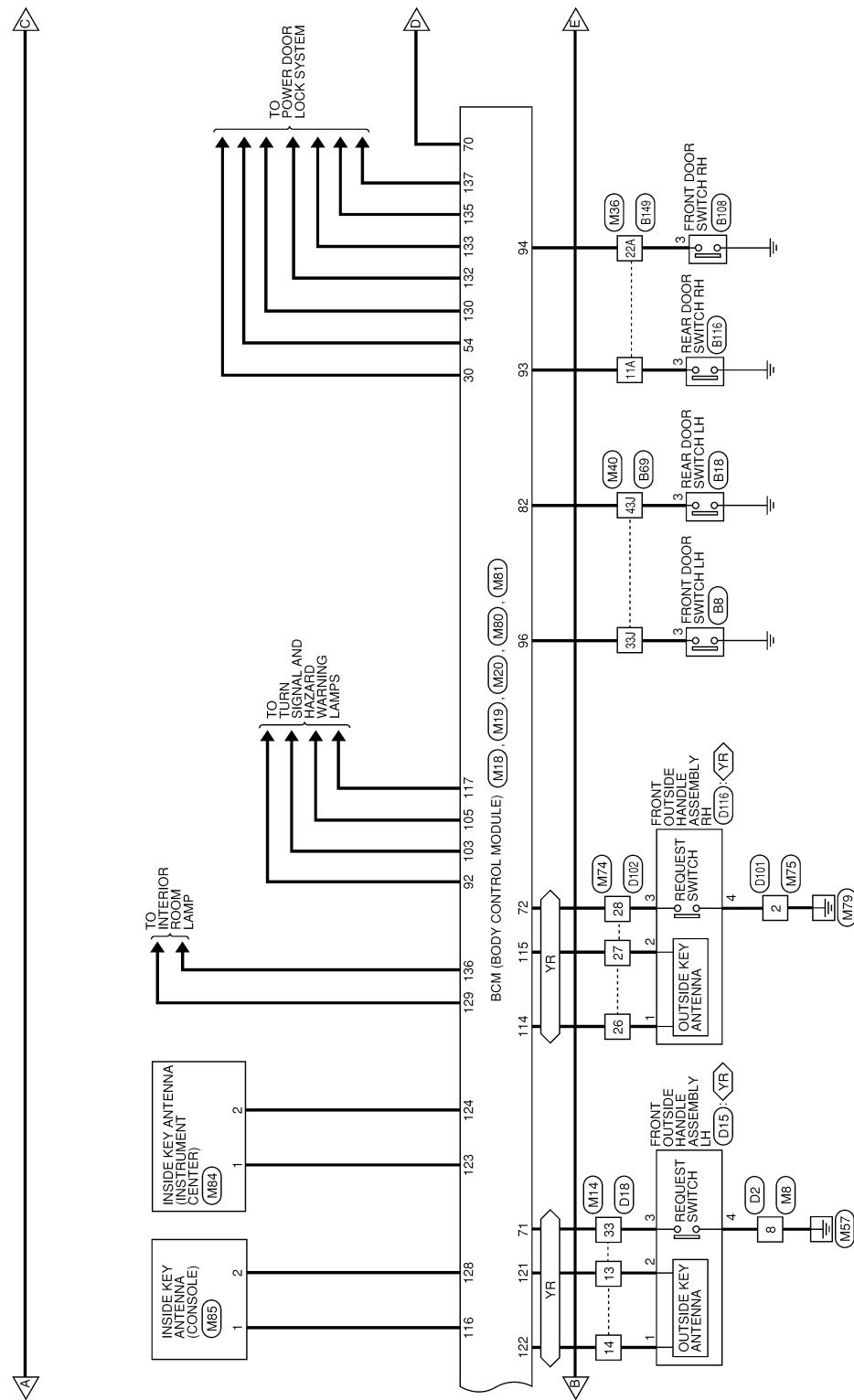
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# INTELLIGENT KEY SYSTEM

## < WIRING DIAGRAM >

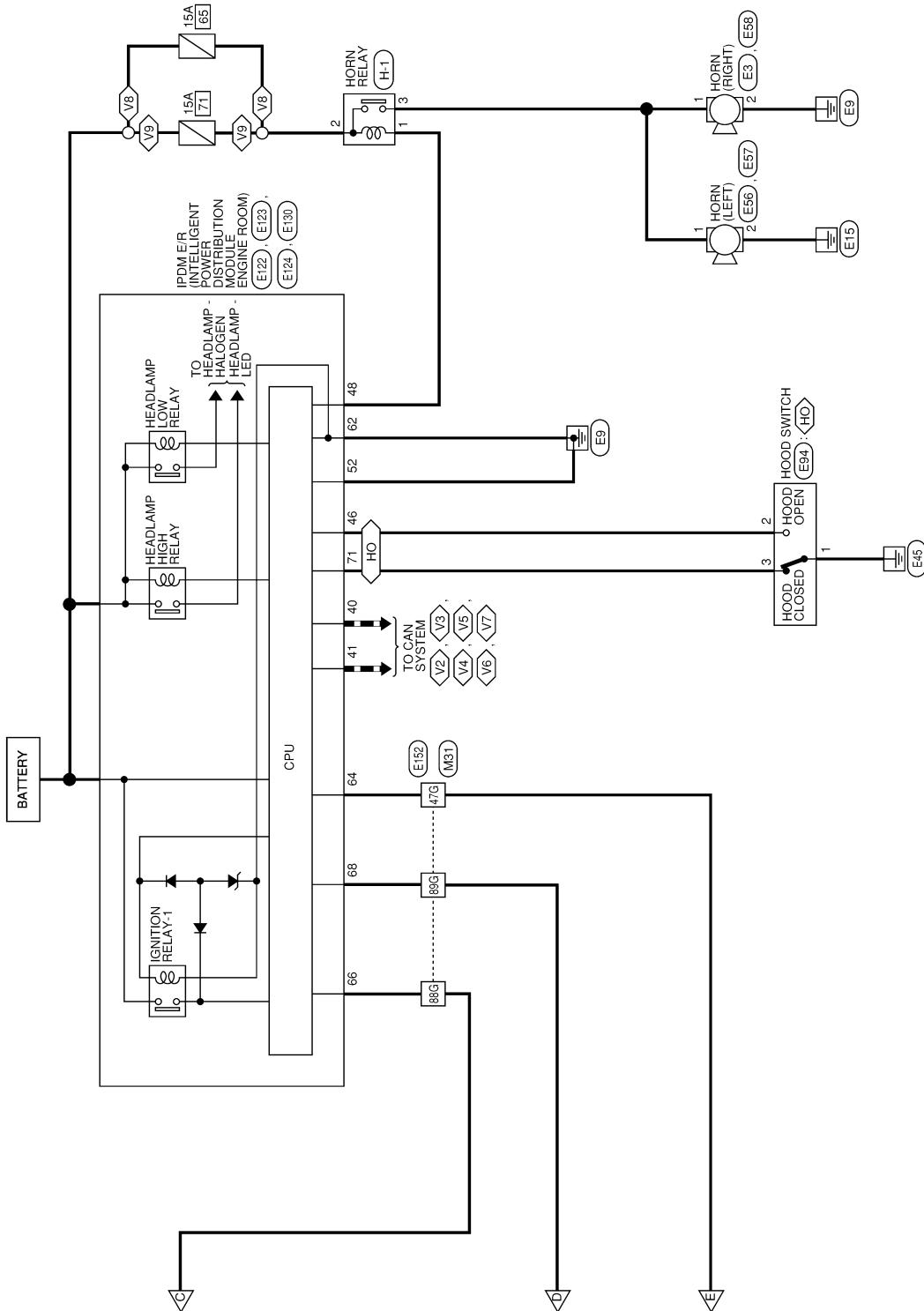
- ◀V7▶ : WITH Cummins 5.0L AND WITH NAVIGATION WITHOUT BLIND SPOT WARNING SYSTEMS
- ◀V8▶ : WITH VK561D
- ◀V9▶ : WITH Cummins 5.0L
- ◀HR▶ : WITH REQUEST SWITCH



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## INTELLIGENT KEY SYSTEM

## < WIRING DIAGRAM >



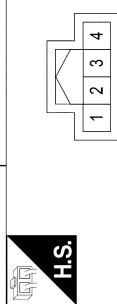
AAKWA1493GB

## INTELLIGENT KEY SYSTEM

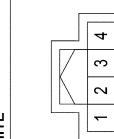
## < WIRING DIAGRAM >

## INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Type	TH04FW-NH
Connector Color	WHITE

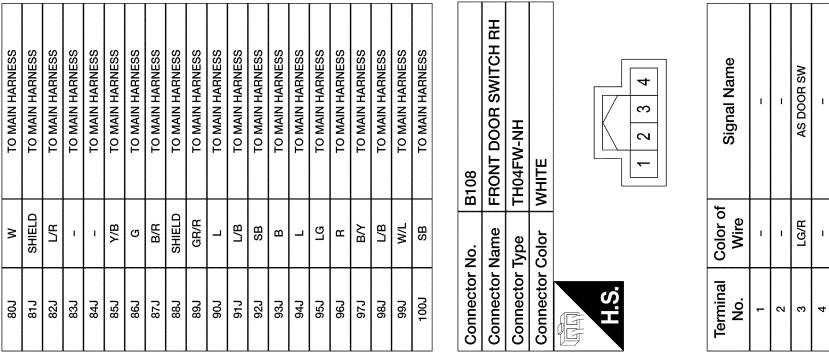


Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE



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

28J	L	TO MAIN HARNESS
29J	G/O	TO MAIN HARNESS
30J	SB	TO MAIN HARNESS
31J	LG	TO MAIN HARNESS
32J	R	TO MAIN HARNESS
33J	L	TO MAIN HARNESS
34J	Y	TO MAIN HARNESS
35J	P	TO MAIN HARNESS
36J	G/R	TO MAIN HARNESS
37J	LG/B	TO MAIN HARNESS
38J	SB	TO MAIN HARNESS
39J	Y/L	TO MAIN HARNESS
40J	BR	TO MAIN HARNESS
41J	L	TO MAIN HARNESS
42J	L	TO MAIN HARNESS
43J	SB	TO MAIN HARNESS
44J	BR	TO MAIN HARNESS
45J	BG	TO MAIN HARNESS
46J	P/Y	TO MAIN HARNESS
47J	Y/GR	TO MAIN HARNESS
48J	V	TO MAIN HARNESS
49J	BR/Y	TO MAIN HARNESS
50J	G/W	TO MAIN HARNESS
51J	—	TO MAIN HARNESS
52J	SHIELD	TO MAIN HARNESS
53J	R	TO MAIN HARNESS
54J	L	TO MAIN HARNESS
55J	R	TO MAIN HARNESS
56J	W	TO MAIN HARNESS
57J	L/G	TO MAIN HARNESS
58J	O	TO MAIN HARNESS
59J	—	TO MAIN HARNESS
60J	SHIELD	TO MAIN HARNESS
61J	G	TO MAIN HARNESS
62J	—	TO MAIN HARNESS
63J	R/W	TO MAIN HARNESS
64J	L/W	TO MAIN HARNESS
65J	SHIELD	TO MAIN HARNESS
66J	B	TO MAIN HARNESS
67J	SHIELD	TO MAIN HARNESS
68J	O/L	TO MAIN HARNESS
69J	SHIELD	TO MAIN HARNESS
70J	BR	TO MAIN HARNESS
71J	L/W	TO MAIN HARNESS
72J	—	TO MAIN HARNESS
73J	—	TO MAIN HARNESS
74J	SHIELD	TO MAIN HARNESS
75J	L/G/B	TO MAIN HARNESS
76J	R	TO MAIN HARNESS
77J	SHIELD	TO MAIN HARNESS
78J	GR/B	TO MAIN HARNESS
79J	B	TO MAIN HARNESS



# INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

## INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	Signal Name	Color of Wire	Terminal No.	Color of Wire	Signal Name
B116	LG/Y	6A	57A	-	TO MAIN HARNESS
REAR DOOR SWITCH RH	LG	6A	59A	-	TO MAIN HARNESS
TH04FW-NH	W	7A	60A	G/W	TO MAIN HARNESS
WHITE	B	8A	61A	-	TO MAIN HARNESS
	UB	9A	62A	-	TO MAIN HARNESS
	W	10A	63A	-	TO MAIN HARNESS
	LG	11A	64A	-	TO MAIN HARNESS
	B/R/O	12A	65A	-	TO MAIN HARNESS
	Y/W	13A	66A	-	TO MAIN HARNESS
	R/G	14A	67A	-	TO MAIN HARNESS
	Y/L	15A	68A	-	TO MAIN HARNESS
	O/L	16A	69A	Y/R	TO MAIN HARNESS
	L	17A	70A	R/G	TO MAIN HARNESS
	Y	18A	71A	-	TO MAIN HARNESS
	LG	19A	72A	Y/B	TO MAIN HARNESS
	R	20A	73A	G	TO MAIN HARNESS
	B/G	21A	74A	B/R	TO MAIN HARNESS
	L/G/R	22A	75A	SHIELD	TO MAIN HARNESS
	Y/L/G	23A	76A	G/R/R	TO MAIN HARNESS
	B/R/Y	24A	77A	L	TO MAIN HARNESS
	-	25A	78A	SHIELD	TO MAIN HARNESS
	GR	26A	79A	Y	TO MAIN HARNESS
	LG	27A	80A	L	TO MAIN HARNESS
	L/G/B	28A	81A	R	TO MAIN HARNESS
	-	29A	82A	SHIELD	TO MAIN HARNESS
	BR	30A	83A	LG/B	TO MAIN HARNESS
	-	31A	84A	R	TO MAIN HARNESS
	W/R	32A	85A	SHIELD	TO MAIN HARNESS
	G/R	33A	86A	G/R/B	TO MAIN HARNESS
	-	34A	87A	B	TO MAIN HARNESS
	SHIELD	35A	88A	W	TO MAIN HARNESS
	P	36A	89A	SHIELD	TO MAIN HARNESS
	B	37A	90A	G	TO MAIN HARNESS
	-	38A	91A	WL	TO MAIN HARNESS
	G/O	39A	92A	BR	TO MAIN HARNESS
	V	40A	93A	L/Y	TO MAIN HARNESS
	SHIELD	41A	94A	R/L	TO MAIN HARNESS
	TO MAIN HARNESS	42A	95A	BR	TO MAIN HARNESS
	SHIELD	43A	96A	R	TO MAIN HARNESS
	TO MAIN HARNESS	44A	97A	LG	TO MAIN HARNESS
	G	45A	98A	B/V	TO MAIN HARNESS
	-	46A	99A	OL	TO MAIN HARNESS
	Y	47A	100A	BR/W	TO MAIN HARNESS
	R/W	48A			TO MAIN HARNESS
	R/L	49A			TO MAIN HARNESS
	B	50A			TO MAIN HARNESS
	-	51A			TO MAIN HARNESS
	Y	52A			TO MAIN HARNESS
	BR	53A			TO MAIN HARNESS
	GROUND	54A			TO MAIN HARNESS
	-	55A			TO MAIN HARNESS
	BR/W	56A			TO MAIN HARNESS

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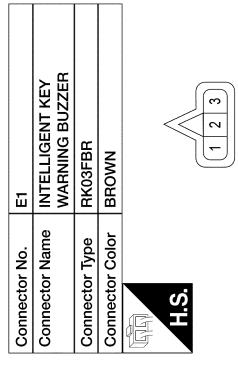
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## INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	D18
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

32	R	TO MAIN HARNESS
33	BR	TO MAIN HARNESS
34	-	TO MAIN HARNESS
35	W	TO MAIN HARNESS
36	L	TO MAIN HARNESS
37	LR	TO MAIN HARNESS
38	LG	TO MAIN HARNESS
39	SB	TO MAIN HARNESS
40	L	TO MAIN HARNESS

4	L	TO MAIN HARNESS
5	L/R	TO MAIN HARNESS
6	L	TO MAIN HARNESS
7	R/G	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	W	TO MAIN HARNESS
10	Y	TO MAIN HARNESS
11	LG	TO MAIN HARNESS
12	L	TO MAIN HARNESS
13	Y/V	TO MAIN HARNESS



## INTELLIGENT KEY SYSTEM

## < WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
1	G	BATTERY
2	-	-
3	W	BUZZER SIGNAL

Connector No.	E3
Connector Name	HORN (RIGHT)
Connector Type	P01FB-A
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	G	HORN RELAY OUTPUT

1000

Connector No.	D116
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY RH
Connector Type	RH04FB
Connector Color	BLACK

Terminal No.	Color of Wire	Signal Name
1	LG	DOOR ANTENNA +
2	Y	DOOR ANTENNA -
3	BR	REQUEST SW
4	B	GROUND

Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	B/W	TO MAIN HARNESS
2	B	TO MAIN HARNESS
3	W/L	TO MAIN HARNESS
4	V	TO MAIN HARNESS
5	W/B	TO MAIN HARNESS
6	G/Y	TO MAIN HARNESS
7	W/B	TO MAIN HARNESS
8	L/B	TO MAIN HARNESS
9	G/Y	TO MAIN HARNESS
10	-	TO MAIN HARNESS

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	TH322W-NH
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	BR	TO MAIN HARNESS
2	V	TO MAIN HARNESS
3	BR	TO MAIN HARNESS

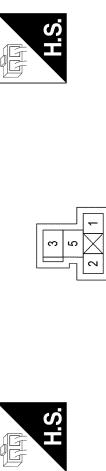
AAKIA4095GB

# INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

## INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	E12
Connector Name	STOP LAMP RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



**H.S.**

Connector No.	E56
Connector Name	HORN (LEFT)
Connector Type	P01FB-A
Connector Color	BLACK



**H.S.**



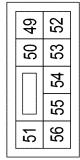
Connector No.	E94
Connector Name	HOOD SWITCH
Connector Type	RH03MB
Connector Color	BLACK



**H.S.**



Connector No.	E123
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS06FBR-CS
Connector Color	BROWN



**H.S.**

Connector No.	E124
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC
Connector Color	BLACK



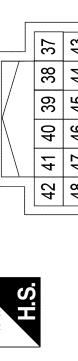
**H.S.**

Connector No.	E125
Connector Name	A/C COMP - (WITH VKS6VDO)
Connector Type	A/C COMP - (WITH CUMMINS 5.0L)
Connector Color	Y/B



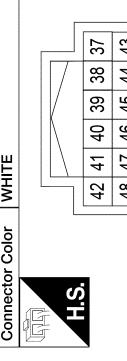
**H.S.**

Connector No.	E126
Connector Name	TRAILER TOW
Connector Type	-
Connector Color	-



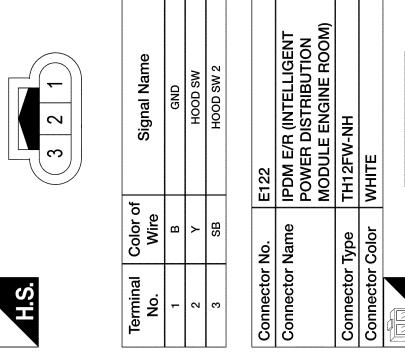
**H.S.**

Connector No.	E127
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH
Connector Color	WHITE



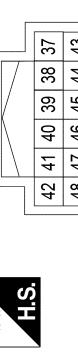
**H.S.**

Connector No.	E128
Connector Name	STOP LAMP SWITCH
Connector Type	IM04FW-LC
Connector Color	WHITE



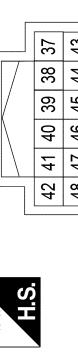
**H.S.**

Connector No.	E129
Connector Name	HORN RELAY OUTPUT
Connector Type	-
Connector Color	-



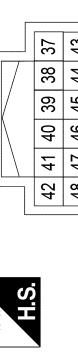
**H.S.**

Connector No.	E130
Connector Name	BATTERY
Connector Type	-
Connector Color	-



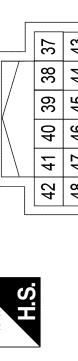
**H.S.**

Connector No.	E131
Connector Name	RELAY CONT - (WITHOUT LED REAR COMBINATION LAMPS)
Connector Type	STOP LAMPS - (WITH LED REAR COMBINATION LAMPS)
Connector Color	IGNITION



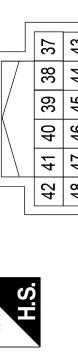
**H.S.**

Connector No.	E132
Connector Name	STOP 2
Connector Type	-
Connector Color	-



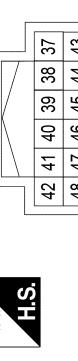
**H.S.**

Connector No.	E133
Connector Name	IGNITION
Connector Type	-
Connector Color	-



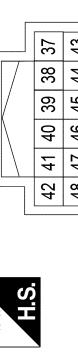
**H.S.**

Connector No.	E134
Connector Name	STOP 1
Connector Type	-
Connector Color	-



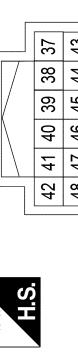
**H.S.**

Connector No.	E135
Connector Name	STOP 1
Connector Type	-
Connector Color	-



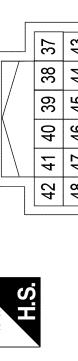
**H.S.**

Connector No.	E136
Connector Name	STOP 1
Connector Type	-
Connector Color	-



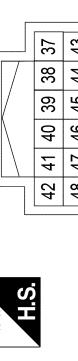
**H.S.**

Connector No.	E137
Connector Name	STOP 1
Connector Type	-
Connector Color	-



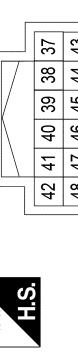
**H.S.**

Connector No.	E138
Connector Name	STOP 1
Connector Type	-
Connector Color	-



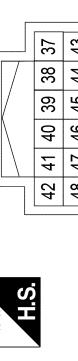
**H.S.**

Connector No.	E139
Connector Name	STOP 1
Connector Type	-
Connector Color	-



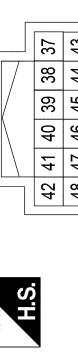
**H.S.**

Connector No.	E140
Connector Name	STOP 1
Connector Type	-
Connector Color	-



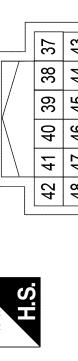
**H.S.**

Connector No.	E141
Connector Name	STOP 1
Connector Type	-
Connector Color	-



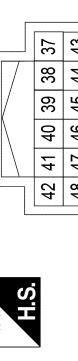
**H.S.**

Connector No.	E142
Connector Name	STOP 1
Connector Type	-
Connector Color	-



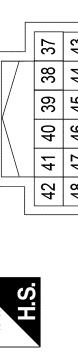
**H.S.**

Connector No.	E143
Connector Name	STOP 1
Connector Type	-
Connector Color	-



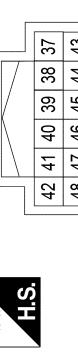
**H.S.**

Connector No.	E144
Connector Name	STOP 1
Connector Type	-
Connector Color	-



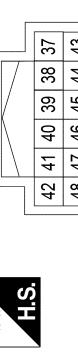
**H.S.**

Connector No.	E145
Connector Name	STOP 1
Connector Type	-
Connector Color	-



**H.S.**

Connector No.	E146
Connector Name	STOP 1
Connector Type	-
Connector Color	-



**H.S.**

# INTELLIGENT KEY SYSTEM

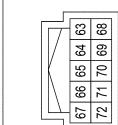
< WIRING DIAGRAM >

## INTELLIGENT KEY SYSTEM CONNECTORS

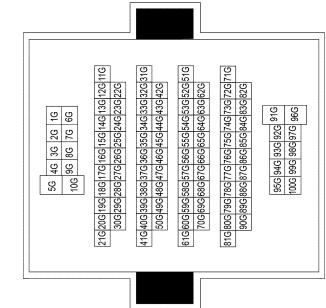
Connector No.	E130
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE
Connector Type	TH10FB-NH
Connector Color	BLACK



Terminal	Color of Wire No.	Signal Name
63	-	-
64	R	DETENT SW
65	-	-
66	P	PUSH START SW
67	-	-
68	L	IGN SIGNAL
69	-	-
70	-	-
71	SB	HOOD SW2
72	W	E-CPLG - (WITH JK56V0)

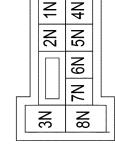


Terminal	Color of Wire No.	Signal Name
1G	G	TO MAIN HARNESS
2G	B/R	TO MAIN HARNESS
3G	W/B	TO MAIN HARNESS
4G	B/R/W	TO MAIN HARNESS
5G	BR	TO MAIN HARNESS
6G	P	TO MAIN HARNESS - (WITH JK56V0)
6G	R/W	TO MAIN HARNESS - (WITH CUMMINS 50L)
7G	Y	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	R	TO MAIN HARNESS
10G	W	TO MAIN HARNESS
11G	R/G	TO MAIN HARNESS
12G	W/B	TO MAIN HARNESS
13G	BR	TO MAIN HARNESS
14G	Y/B	TO MAIN HARNESS
15G	G/W	TO MAIN HARNESS
16G	G	TO MAIN HARNESS
17G	G/Y	TO MAIN HARNESS
18G	G/Y	TO MAIN HARNESS
19G	Y/Y	TO MAIN HARNESS
20G	G/Y	TO MAIN HARNESS
21G	B/Y	TO MAIN HARNESS
22G	G/R	TO MAIN HARNESS
23G	Y/R	TO MAIN HARNESS



24G	G/B	TO MAIN HARNESS	72G	L/W	TO MAIN HARNESS
25G	R/W	TO MAIN HARNESS	73G	SHIELD	TO MAIN HARNESS
26G	R	TO MAIN HARNESS	74G	W	TO MAIN HARNESS
27G	LG	TO MAIN HARNESS	75G	R	TO MAIN HARNESS
28G	G/B	TO MAIN HARNESS	76G	R/G	TO MAIN HARNESS
29G	G/B	TO MAIN HARNESS	77G	G	TO MAIN HARNESS
30G	BR/Y	TO MAIN HARNESS	78G	W	TO MAIN HARNESS
31G	P	TO MAIN HARNESS - (WITH CUMMINS 50L)	79G	-	TO MAIN HARNESS
31G	R	TO MAIN HARNESS - (WITH JK56V0)	80G	R	TO MAIN HARNESS
32G	P	TO MAIN HARNESS	81G	L	TO MAIN HARNESS
33G	Y/L	TO MAIN HARNESS	82G	R	TO MAIN HARNESS
34G	GR	TO MAIN HARNESS	83G	L	TO MAIN HARNESS
35G	G/R	TO MAIN HARNESS	84G	L	TO MAIN HARNESS
36G	SB	TO MAIN HARNESS	85G	W/B	TO MAIN HARNESS
37G	R/W	TO MAIN HARNESS	86G	B/R	TO MAIN HARNESS
38G	BR	TO MAIN HARNESS	87G	W/B	TO MAIN HARNESS
39G	BR	TO MAIN HARNESS	88G	P	TO MAIN HARNESS
40G	-	TO MAIN HARNESS	89G	L	TO MAIN HARNESS
41G	R/G	TO MAIN HARNESS	90G	G	TO MAIN HARNESS
42G	O	TO MAIN HARNESS	91G	G	TO MAIN HARNESS
43G	B	TO MAIN HARNESS - (WITH CUMMINS 50L)	92G	V/W	TO MAIN HARNESS
43G	G	TO MAIN HARNESS - (WITH JK56V0)	93G	R	TO MAIN HARNESS
44G	R/Y	TO MAIN HARNESS	94G	G	TO MAIN HARNESS
45G	G	TO MAIN HARNESS	95G	G	TO MAIN HARNESS
46G	LG	TO MAIN HARNESS	96G	W	TO MAIN HARNESS
47G	R	TO MAIN HARNESS	97G	R	TO MAIN HARNESS
48G	W	TO MAIN HARNESS	98G	W/B	TO MAIN HARNESS
49G	-	TO MAIN HARNESS	99G	BR	TO MAIN HARNESS
50G	BR	TO MAIN HARNESS	100G	GR/W	TO MAIN HARNESS

Connector No.	E152	Signal Name	Terminal No.	Color of Wire
Connector Name	WIRE TO WIRE			
Connector Type	TH80MW-CS16-TM4			
Connector Color	WHITE			
Connector Type	TH10FB-NH			
Connector Color	BLACK			



3N	2N	1N	1N	-
8N	7N	6N	5N	4N

AAKIA4097GB

# INTELLIGENT KEY SYSTEM

## < WIRING DIAGRAM >

8	B	TO FRONT DOOR LH HARNESS	23	L	TO FRONT DOOR LH HARNESS - (WITH MEMORY MIRRORS)	19	-	-
9	L/W	TO FRONT DOOR LH HARNESS	24	BR	TO FRONT DOOR LH HARNESS	20	R	SHIFT P
10	UR	TO FRONT DOOR LH HARNESS	25	Y	TO FRONT DOOR LH HARNESS	21	R/W	STEP LAMP CONT
11	L/W	TO FRONT DOOR LH HARNESS	26	LG	TO FRONT DOOR LH HARNESS	22	-	-
12	L	TO FRONT DOOR LH HARNESS	27	W	TO FRONT DOOR LH HARNESS	23	Y	AIRCON SW
13	Y	TO FRONT DOOR LH HARNESS	28	L	TO FRONT DOOR LH HARNESS	24	-	-
14	SB	TO FRONT DOOR LH HARNESS	29	P	TO FRONT DOOR LH HARNESS	25	W	BRAKE SW FUSE
15	V	TO FRONT DOOR LH HARNESS	26	L	TO FRONT DOOR LH HARNESS	26	L	SHORT IN PIN INPUT
16	LG	TO FRONT DOOR LH HARNESS	30	R	TO FRONT DOOR LH HARNESS	27	R/G	BRAKE SW LAMP
17P 6P 5P 4P	3P 2P 1P		31	SHIELD	TO FRONT DOOR LH HARNESS	28	-	-
16P 15P 14P 13P 12P 11P 10P 9P 8P			32	R	TO FRONT DOOR LH HARNESS	29	W	BLOWER FAN SW
			33	O	TO FRONT DOOR LH HARNESS	30	P	DR DOOR LOCK STATUS
			34	-	TO FRONT DOOR LH HARNESS	31	-	-
			35	W	TO FRONT DOOR LH HARNESS	32	Y	REAR DEFOGGER SW
			36	L	TO FRONT DOOR LH HARNESS	33	-	-
			37	L/R	TO FRONT DOOR LH HARNESS	34	-	-
			38	GR	TO FRONT DOOR LH HARNESS	35	R/G	REVERSE SW
			39	P	TO FRONT DOOR LH HARNESS	36	WB	HAZARD SW
			40	R	TO FRONT DOOR LH HARNESS	37	-	-
			38	-	-	39	B/R	SHIFT N/P
			40	-	-			-

Connector No.	M14	Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH	Connector Color	WHITE
Connector No.	M18	Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH	Connector Color	GREEN
Connector No.		Connector Name	H.S.

Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
1P	R	IGNITION	1	SB	TO FRONT DOOR LH HARNESS - (WITHOUT MEMORY MIRRORS)
2P	Y	IGNITION RELAY OUT	1	LG	TO FRONT DOOR LH HARNESS - (WITH MEMORY MIRRORS)
3P	G	IGNITION	2	SB	TO FRONT DOOR LH HARNESS
4P	B/W	RR DEF RFLY	3	B	TO FRONT DOOR LH HARNESS
5P	O	RR DEF RFLY OUT	4	Y	TO FRONT DOOR LH HARNESS
6P	TP	IGNITION	5	V	TO FRONT DOOR LH HARNESS
8P	G	IGNITION	6	SB	TO FRONT DOOR LH HARNESS
9P	L	BATTERY	7	Y	TO FRONT DOOR LH HARNESS
10P	-	-	8	GR	TO FRONT DOOR LH HARNESS
11P	-	-	9	L	TO FRONT DOOR LH HARNESS
12P	-	-	10	W	TO FRONT DOOR LH HARNESS
13P	R	BATTERY	11	B	TO FRONT DOOR LH HARNESS
14P	Y	BATTERY	12	R/G	TO FRONT DOOR LH HARNESS
15P	Y/G	BATTERY	13	G	TO FRONT DOOR LH HARNESS
16P	W	BLOWER FAN RELAY OUT	14	R	TO FRONT DOOR LH HARNESS

Connector No.	M8	Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS	Connector Color	WHITE
Connector No.	M6	Connector Name	H.S.
Connector Type	NS16MW-CS	Connector Color	WHITE
Connector No.		Connector Name	H.S.

Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
1	B/W	TO FRONT DOOR LH HARNESS	19	LG/B	TO FRONT DOOR LH HARNESS
2	GB	TO FRONT DOOR LH HARNESS	20	YV	TO FRONT DOOR LH HARNESS
3	L	TO FRONT DOOR LH HARNESS	21	BR	TO FRONT DOOR LH HARNESS - (WITHOUT MEMORY MIRRORS)
4	R	TO FRONT DOOR LH HARNESS	21	O	TO FRONT DOOR LH HARNESS - (WITH MEMORY MIRRORS)
5	WR	TO FRONT DOOR LH HARNESS	22	BG	TO FRONT DOOR LH HARNESS
6	WL	TO FRONT DOOR LH HARNESS	23	G	TO FRONT DOOR LH HARNESS - (WITHOUT MEMORY MIRRORS)
7	V	TO FRONT DOOR LH HARNESS			SECURITY INDICATOR

## INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M4	Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS	Connector Color	WHITE
Connector No.	M8	Connector Name	H.S.
Connector Type	NS16MW-CS	Connector Color	WHITE
Connector No.	M6	Connector Name	H.S.

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	Terminal No.	Color of Wire	Signal Name															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28

Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
1	B/W	TO FRONT DOOR LH HARNESS	19	LG/B	TO FRONT DOOR LH HARNESS
2	GB	TO FRONT DOOR LH HARNESS	20	YV	TO FRONT DOOR LH HARNESS
3	L	TO FRONT DOOR LH HARNESS	21	BR	TO FRONT DOOR LH HARNESS - (WITHOUT MEMORY MIRRORS)
4	R	TO FRONT DOOR LH HARNESS	21	O	TO FRONT DOOR LH HARNESS - (WITH MEMORY MIRRORS)
5	WR	TO FRONT DOOR LH HARNESS	22	BG	TO FRONT DOOR LH HARNESS
6	WL	TO FRONT DOOR LH HARNESS	23	G	TO FRONT DOOR LH HARNESS - (WITHOUT MEMORY MIRRORS)
7	V	TO FRONT DOOR LH HARNESS			SECURITY INDICATOR

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# INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

## INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	Signal Name	Color of Wire	Terminal No.
M19	TRAILER LIGHT CHECK RELAY OUT	Y/L	41
BCM (BODY CONTROL MODULE)	CARGO LAMP OUT	R/Y	42
TH40FB-NH	-	-	43
BLACK	-	-	44
TH40FB-NH	-	-	45
BLACK	-	-	46
TH40FB-NH	-	-	47
BLACK	R	R	48
TH40FB-NH	-	-	49
BLACK	-	-	50
TH40FB-NH	-	-	51
BLACK	W	W	52
TH40FB-NH	-	-	53
BLACK	WL	WL	54
TH40FB-NH	-	-	55
BLACK	WB	WB	56
TH40FB-NH	-	-	57
BLACK	-	-	58
TH40FB-NH	-	-	59
BLACK	L	L	60
TH40FB-NH	-	-	61
BLACK	W	W	62
TH40FB-NH	-	-	63
BLACK	P	P	64
TH40FB-NH	-	-	65
BLACK	CAN L	CAN L	66
TH40FB-NH	-	-	67
BLACK	CAN H	CAN H	68
TH40FB-NH	-	-	69
BLACK	P	P	70
TH40FB-NH	-	-	71
BLACK	O	O	72
TH40FB-NH	-	-	73
BLACK	G	G	74
TH40FB-NH	-	-	75
BLACK	L/W	L/W	76
TH40FB-NH	-	-	77
BLACK	P	P	78
TH40FB-NH	-	-	79
BLACK	R/W	R/W	80
TH40FB-NH	-	-	-

Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
41	Y/L	TRAILER LIGHT CHECK RELAY OUT	81	-	-
42	R/Y	CARGO LAMP OUT	82	-	-
43	-	-	83	-	-
44	-	-	84	-	-
45	-	-	85	-	-
46	-	-	86	W	RL DOOR SW
47	-	-	87	-	-
48	R	HIGH SIDE START SW LED	88	-	-
49	-	-	89	-	-
50	-	-	90	-	-
51	-	-	91	-	-
52	W	AUDIO DONGLE	92	O	TRAILER FLASHER RL
53	-	-	93	R	TRAILER FLASHER RR
54	WL	PW L/RT	94	G	RR DOOR SW
55	WB	L/R SENSOR R-LINE	95	-	AS DOOR SW
56	-	-	96	BG	DR DOOR SW
57	-	-	97	P/L	CARGO LAMP SW
58	-	-	98	-	-
59	P	CAN L	99	-	-
60	L	CAN H	100	-	-
61	O	REAR DEFOGGER RELAY OUT	101	-	-
62	W	STARTER RELAY OUT	102	-	-
63	-	-	103	Q/B	RL FLASHER
64	P	BUZZER OUT	104	-	-
65	-	-	-	-	-
66	W	BLOWER FAN RELAY OUT	-	-	-
67	G	IGN ELEC RELAY OUT 2	-	-	-
68	L	MR OUTPUT	-	-	-
69	R/B	AT DEVICE OUT	-	-	-
70	P	IGN USM OUT 1	-	-	-
71	O	DR REQUEST SW	-	-	-
72	G	AS REQUEST SW	-	-	-
73	-	-	-	-	-
74	-	-	-	-	-
75	L/W	COMBI SW OUT 5	-	-	-
76	P	COMBI SW OUT 4	-	-	-
77	L	COMBI SW OUT 3	-	-	-

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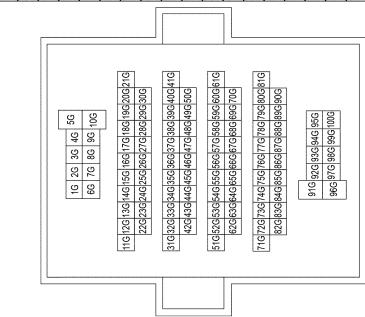
# INTELLIGENT KEY SYSTEM

## < WIRING DIAGRAM >

### INTELLIGENT KEY SYSTEM CONNECTORS

Terminal No.	Color of Wire	Signal Name
1G	G	TO ENGINE ROOM HARNESS
2G	BR	TO ENGINE ROOM HARNESS
3G	W	TO ENGINE ROOM HARNESS
4G	BR/W	TO ENGINE ROOM HARNESS
5G	-	TO ENGINE ROOM HARNESS
6G	R/W	TO ENGINE ROOM HARNESS
7G	Y	TO ENGINE ROOM HARNESS
8G	BR	TO ENGINE ROOM HARNESS
9G	-	TO ENGINE ROOM HARNESS
10G	R/G	TO ENGINE ROOM HARNESS
11G	O	TO ENGINE ROOM HARNESS
12G	G	TO ENGINE ROOM HARNESS
13G	R/Y	TO ENGINE ROOM HARNESS
14G	G	TO ENGINE ROOM HARNESS
15G	LG	TO ENGINE ROOM HARNESS
16G	R	TO ENGINE ROOM HARNESS
17G	W	TO ENGINE ROOM HARNESS
18G	BR	TO ENGINE ROOM HARNESS
19G	-	TO ENGINE ROOM HARNESS
20G	R	TO ENGINE ROOM HARNESS
21G	Y	TO ENGINE ROOM HARNESS
22G	BR	TO ENGINE ROOM HARNESS
23G	Y/R	TO ENGINE ROOM HARNESS
24G	BR	TO ENGINE ROOM HARNESS
25G	R/W	TO ENGINE ROOM HARNESS
26G	R	TO ENGINE ROOM HARNESS

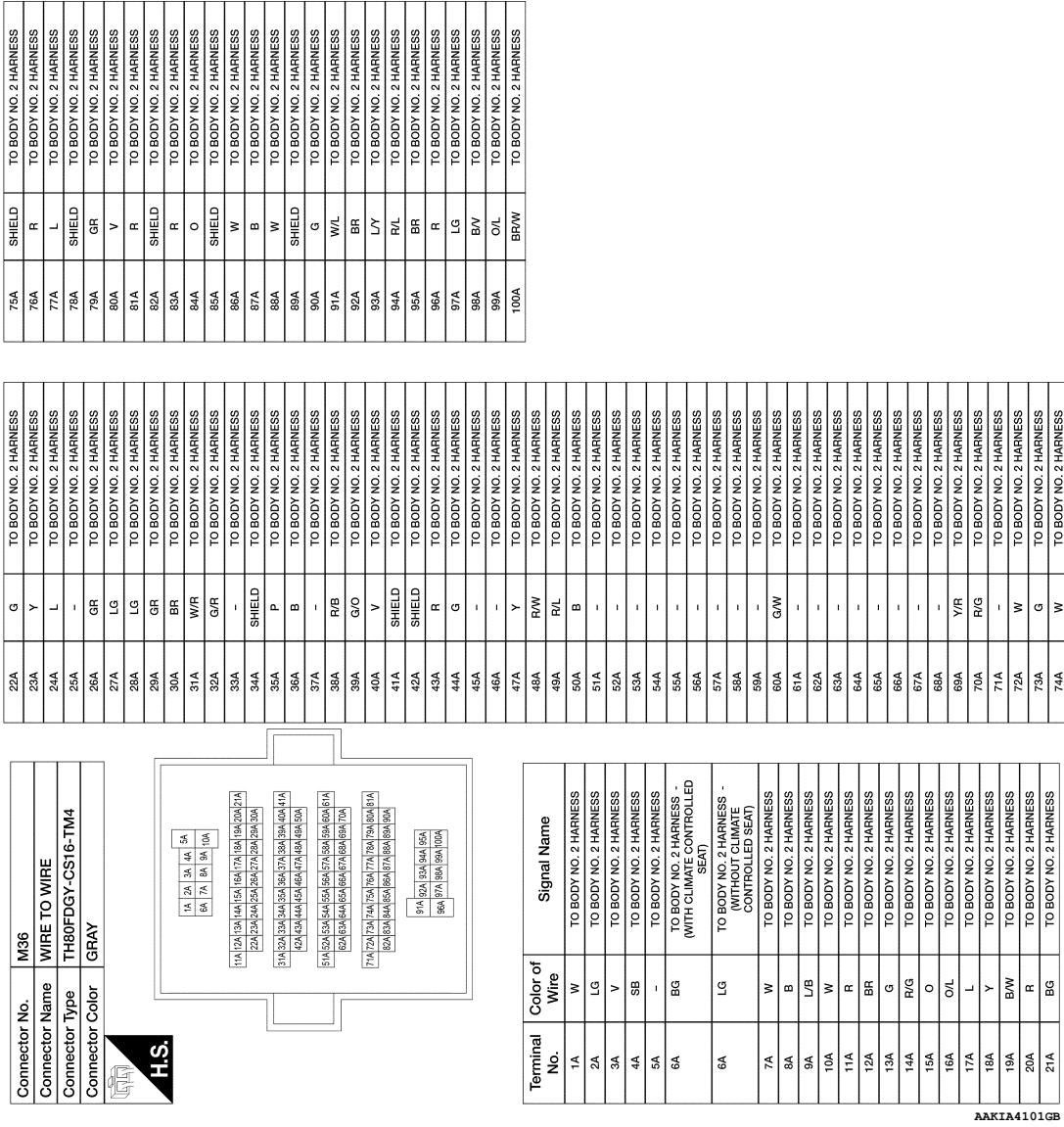
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# INTELLIGENT KEY SYSTEM

## < WIRING DIAGRAM >

### INTELLIGENT KEY SYSTEM CONNECTORS



**Connector Pinout:**

Terminal	Color of Wire	Signal Name
1A	W	TO BODY NO. 2 HARNESS
2A	LG	TO BODY NO. 2 HARNESS
3A	V	TO BODY NO. 2 HARNESS
4A	SB	TO BODY NO. 2 HARNESS
5A	-	TO BODY NO. 2 HARNESS
6A	BG	TO BODY NO. 2 HARNESS - (WITH CLIMATE CONTROLLED SEAT)
10A	W	TO BODY NO. 2 HARNESS
11A	R	TO BODY NO. 2 HARNESS
12A	BR	TO BODY NO. 2 HARNESS
13A	G	TO BODY NO. 2 HARNESS
14A	RG	TO BODY NO. 2 HARNESS
15A	O	TO BODY NO. 2 HARNESS
16A	O/L	TO BODY NO. 2 HARNESS
17A	L	TO BODY NO. 2 HARNESS
18A	Y	TO BODY NO. 2 HARNESS
19A	B/W	TO BODY NO. 2 HARNESS
20A	R	TO BODY NO. 2 HARNESS
21A	BG	TO BODY NO. 2 HARNESS

**Terminal Table:**

Terminal	Color of Wire	Signal Name
22A	G	TO BODY NO. 2 HARNESS
23A	Y	TO BODY NO. 2 HARNESS
24A	L	TO BODY NO. 2 HARNESS
25A	-	TO BODY NO. 2 HARNESS
26A	GR	TO BODY NO. 2 HARNESS
27A	LG	TO BODY NO. 2 HARNESS
28A	LG	TO BODY NO. 2 HARNESS
29A	GR	TO BODY NO. 2 HARNESS
30A	BR	TO BODY NO. 2 HARNESS
31A	W/R	TO BODY NO. 2 HARNESS
32A	GR	TO BODY NO. 2 HARNESS
33A	-	TO BODY NO. 2 HARNESS
34A	SHIELD	TO BODY NO. 2 HARNESS
35A	P	TO BODY NO. 2 HARNESS
36A	B	TO BODY NO. 2 HARNESS
37A	-	TO BODY NO. 2 HARNESS
38A	R/B	TO BODY NO. 2 HARNESS
39A	G/O	TO BODY NO. 2 HARNESS
40A	V	TO BODY NO. 2 HARNESS
41A	SHIELD	TO BODY NO. 2 HARNESS
42A	SHIELD	TO BODY NO. 2 HARNESS
43A	R	TO BODY NO. 2 HARNESS
44A	G	TO BODY NO. 2 HARNESS
45A	-	TO BODY NO. 2 HARNESS
46A	-	TO BODY NO. 2 HARNESS
47A	Y	TO BODY NO. 2 HARNESS
48A	R/W	TO BODY NO. 2 HARNESS
49A	R/L	TO BODY NO. 2 HARNESS
50A	B	TO BODY NO. 2 HARNESS
51A	-	TO BODY NO. 2 HARNESS
52A	-	TO BODY NO. 2 HARNESS
53A	-	TO BODY NO. 2 HARNESS
54A	-	TO BODY NO. 2 HARNESS
55A	-	TO BODY NO. 2 HARNESS
56A	-	TO BODY NO. 2 HARNESS
57A	-	TO BODY NO. 2 HARNESS
58A	-	TO BODY NO. 2 HARNESS
59A	-	TO BODY NO. 2 HARNESS
60A	G/W	TO BODY NO. 2 HARNESS
61A	-	TO BODY NO. 2 HARNESS
62A	-	TO BODY NO. 2 HARNESS
63A	-	TO BODY NO. 2 HARNESS
64A	-	TO BODY NO. 2 HARNESS
65A	-	TO BODY NO. 2 HARNESS
66A	-	TO BODY NO. 2 HARNESS
67A	-	TO BODY NO. 2 HARNESS
68A	-	TO BODY NO. 2 HARNESS
69A	Y/R	TO BODY NO. 2 HARNESS
70A	R/G	TO BODY NO. 2 HARNESS
71A	-	TO BODY NO. 2 HARNESS
72A	W	TO BODY NO. 2 HARNESS
73A	G	TO BODY NO. 2 HARNESS
74A	W	TO BODY NO. 2 HARNESS

**Wiring Table:**

Terminal	Color of Wire	Signal Name	WIRE TO WIRE	TO BODY NO. 2 HARNESS
1A	23	1A	1A	TO BODY NO. 2 HARNESS
1A	24	1A	1A	TO BODY NO. 2 HARNESS
1A	25	1A	1A	TO BODY NO. 2 HARNESS
1A	26	1A	1A	TO BODY NO. 2 HARNESS
1A	27	1A	1A	TO BODY NO. 2 HARNESS
1A	28	1A	1A	TO BODY NO. 2 HARNESS
1A	29	1A	1A	TO BODY NO. 2 HARNESS
1A	30	1A	1A	TO BODY NO. 2 HARNESS
1A	31	1A	1A	TO BODY NO. 2 HARNESS
1A	32	1A	1A	TO BODY NO. 2 HARNESS
1A	33	1A	1A	TO BODY NO. 2 HARNESS
1A	34	1A	1A	TO BODY NO. 2 HARNESS
1A	35	1A	1A	TO BODY NO. 2 HARNESS
1A	36	1A	1A	TO BODY NO. 2 HARNESS
1A	37	1A	1A	TO BODY NO. 2 HARNESS
1A	38	1A	1A	TO BODY NO. 2 HARNESS
1A	39	1A	1A	TO BODY NO. 2 HARNESS
1A	40	1A	1A	TO BODY NO. 2 HARNESS
1A	41	1A	1A	TO BODY NO. 2 HARNESS
1A	42	1A	1A	TO BODY NO. 2 HARNESS
1A	43	1A	1A	TO BODY NO. 2 HARNESS
1A	44	1A	1A	TO BODY NO. 2 HARNESS
1A	45	1A	1A	TO BODY NO. 2 HARNESS
1A	46	1A	1A	TO BODY NO. 2 HARNESS
1A	47	1A	1A	TO BODY NO. 2 HARNESS
1A	48	1A	1A	TO BODY NO. 2 HARNESS
1A	49	1A	1A	TO BODY NO. 2 HARNESS
1A	50	1A	1A	TO BODY NO. 2 HARNESS
1A	51	1A	1A	TO BODY NO. 2 HARNESS
1A	52	1A	1A	TO BODY NO. 2 HARNESS
1A	53	1A	1A	TO BODY NO. 2 HARNESS
1A	54	1A	1A	TO BODY NO. 2 HARNESS
1A	55	1A	1A	TO BODY NO. 2 HARNESS
1A	56	1A	1A	TO BODY NO. 2 HARNESS
1A	57	1A	1A	TO BODY NO. 2 HARNESS
1A	58	1A	1A	TO BODY NO. 2 HARNESS
1A	59	1A	1A	TO BODY NO. 2 HARNESS
1A	60	1A	1A	TO BODY NO. 2 HARNESS
1A	61	1A	1A	TO BODY NO. 2 HARNESS
1A	62	1A	1A	TO BODY NO. 2 HARNESS
1A	63	1A	1A	TO BODY NO. 2 HARNESS
1A	64	1A	1A	TO BODY NO. 2 HARNESS
1A	65	1A	1A	TO BODY NO. 2 HARNESS
1A	66	1A	1A	TO BODY NO. 2 HARNESS
1A	67	1A	1A	TO BODY NO. 2 HARNESS
1A	68	1A	1A	TO BODY NO. 2 HARNESS
1A	69	1A	1A	TO BODY NO. 2 HARNESS
1A	70	1A	1A	TO BODY NO. 2 HARNESS
1A	71	1A	1A	TO BODY NO. 2 HARNESS
1A	72	1A	1A	TO BODY NO. 2 HARNESS
1A	73	1A	1A	TO BODY NO. 2 HARNESS
1A	74	1A	1A	TO BODY NO. 2 HARNESS
1A	75	1A	1A	TO BODY NO. 2 HARNESS
1A	76	1A	1A	TO BODY NO. 2 HARNESS
1A	77	1A	1A	TO BODY NO. 2 HARNESS
1A	78	1A	1A	TO BODY NO. 2 HARNESS
1A	79	1A	1A	TO BODY NO. 2 HARNESS
1A	80	1A	1A	TO BODY NO. 2 HARNESS
1A	81	1A	1A	TO BODY NO. 2 HARNESS
1A	82	1A	1A	TO BODY NO. 2 HARNESS
1A	83	1A	1A	TO BODY NO. 2 HARNESS
1A	84	1A	1A	TO BODY NO. 2 HARNESS
1A	85	1A	1A	TO BODY NO. 2 HARNESS
1A	86	1A	1A	TO BODY NO. 2 HARNESS
1A	87	1A	1A	TO BODY NO. 2 HARNESS
1A	88	1A	1A	TO BODY NO. 2 HARNESS
1A	89	1A	1A	TO BODY NO. 2 HARNESS
1A	90	1A	1A	TO BODY NO. 2 HARNESS
1A	91	1A	1A	TO BODY NO. 2 HARNESS
1A	92	1A	1A	TO BODY NO. 2 HARNESS
1A	93	1A	1A	TO BODY NO. 2 HARNESS
1A	94	1A	1A	TO BODY NO. 2 HARNESS
1A	95	1A	1A	TO BODY NO. 2 HARNESS
1A	96	1A	1A	TO BODY NO. 2 HARNESS
1A	97	1A	1A	TO BODY NO. 2 HARNESS
1A	98	1A	1A	TO BODY NO. 2 HARNESS
1A	99	1A	1A	TO BODY NO. 2 HARNESS
1A	100	1A	1A	TO BODY NO. 2 HARNESS

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## INTELLIGENT KEY SYSTEM

## < WIRING DIAGRAM >

## INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M40	WIRE TO WIRE	TH80FW-CS16-TM4	WHITE	1 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10]	1 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [20] [21]	1 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [20] [21]	1 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [20] [21]	1 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [20] [21]	1 [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [20] [21]
Connector Name					28J	L	TO BODY HARNESS	81J	SHIELD	TO BODY HARNESS
Connector Type					29J	Gu	TO BODY HARNESS	82J	UR	TO BODY HARNESS
Connector Color					30J	SB	TO BODY HARNESS	83J	-	TO BODY HARNESS
					31J	LG	TO BODY HARNESS	84J	-	TO BODY HARNESS
					32J	R	TO BODY HARNESS	85J	W	TO BODY HARNESS
					33J	BG	TO BODY HARNESS	86J	G	TO BODY HARNESS
					34J	Y	TO BODY HARNESS	87J	W	TO BODY HARNESS
					35J	P	TO BODY HARNESS	88J	SHIELD	TO BODY HARNESS
					36J	GR	TO BODY HARNESS	89J	R	TO BODY HARNESS
					37J	LG	TO BODY HARNESS	90J	L	TO BODY HARNESS
					38J	SB	TO BODY HARNESS	91J	LB	TO BODY HARNESS
					39J	Y	TO BODY HARNESS	92J	SB	TO BODY HARNESS
					40J	SB	TO BODY HARNESS	93J	B	TO BODY HARNESS
					41J	L	TO BODY HARNESS	94J	LG	TO BODY HARNESS
					42J	L	TO BODY HARNESS	95J	L	TO BODY HARNESS
					43J	W	TO BODY HARNESS	96J	G	TO BODY HARNESS
					44J	BR	TO BODY HARNESS	97J	BY	TO BODY HARNESS
					45J	BG	TO BODY HARNESS	98J	LB	TO BODY HARNESS
					46J	P	TO BODY HARNESS	99J	W/L	TO BODY HARNESS
					47J	O	TO BODY HARNESS	100J	Y	TO BODY HARNESS
					48J	V	TO BODY HARNESS			
					49J	BR	TO BODY HARNESS			

Terminal	Color of Wire	Signal Name	Switch	Connector No.	M69
1J	G	TO BODY HARNESS	TO BODY HARNESS	Connector Name	FUSE BLOCK (J/B)
2J	RY	TO BODY HARNESS	TO BODY HARNESS	Connector Type	NS10FW-CS
3J	L	TO BODY HARNESS	TO BODY HARNESS	Connector Color	WHITE
4J	LB	TO BODY HARNESS	TO BODY HARNESS		
5J	B	TO BODY HARNESS	TO BODY HARNESS		
6J	BR	TO BODY HARNESS	TO BODY HARNESS		
7J	BG	TO BODY HARNESS	TO BODY HARNESS		
8J	SB	TO BODY HARNESS	TO BODY HARNESS		

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## INTELLIGENT KEY SYSTEM

## < WIRING DIAGRAM >

## INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M70	8	B	TO FRONT DOOR RH HARNESS
Connector Name	FUSE BLOCK (J/B)	9	W	TO FRONT DOOR RH HARNESS
Connector Type	NS16FBR-CS	10	Y	TO FRONT DOOR RH HARNESS
Connector Color	BROWN	11	LG	TO FRONT DOOR RH HARNESS
		12	L	TO FRONT DOOR RH HARNESS
		13	YN	TO FRONT DOOR RH HARNESS
		14	WL	TO FRONT DOOR RH HARNESS
		15	LW	TO FRONT DOOR RH HARNESS
		16	VR	TO FRONT DOOR RH HARNESS
		17	SB	TO FRONT DOOR RH HARNESS



10	-	TO FRONT DOOR RH HARNESS
Connector No.	M80	
Connector Name	BCM (BODY CONTROL MODULE)	
Connector Type	TH24FB-NH	
Connector Color	BLACK	



Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name	20	VW	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
1R	L	TAIL LAMP 2	20	GRR	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
2R	G/R	IGNITION	21	-	TO FRONT DOOR RH HARNESS
3R	Y/R	BATTERY	22	-	TO FRONT DOOR RH HARNESS
4R	-	-	23	O	TO FRONT DOOR RH HARNESS
5R	W	BATTERY	24	R	TO FRONT DOOR RH HARNESS
6R	G/W	ACCESSORY	25	SHIELD	TO FRONT DOOR RH HARNESS
7R	-	-	26	W	TO FRONT DOOR RH HARNESS
8R	-	-	27	BG	TO FRONT DOOR RH HARNESS
9R	-	-	28	G	TO FRONT DOOR RH HARNESS
10R	W	BATTERY	29	LGB	TO FRONT DOOR RH HARNESS
11R	-	-	30	-	TO FRONT DOOR RH HARNESS
12R	BG	BATTERY	31	-	TO FRONT DOOR RH HARNESS
13R	B	ACCESSORY	32	-	TO FRONT DOOR RH HARNESS
14R	G/Y	BATTERY			
15R	Y	ACCESSORY			
16R	G/R	BATTERY			



Connector No.	M74	Connector Name	WIRE TO WIRE
Connector Name	WIRE TO WIRE	Connector Type	NS10MW-CS
Connector Type	TH32MW-NH	Connector Color	WHITE
Connector Color	WHITE		
			



Terminal No.	Color of Wire	Signal Name
1	B/W	TO FRONT DOOR RH HARNESS
2	B	TO FRONT DOOR RH HARNESS
3	W/L	TO FRONT DOOR RH HARNESS
4	V	TO FRONT DOOR RH HARNESS
5	W/B	TO FRONT DOOR RH HARNESS
6	G/Y	TO FRONT DOOR RH HARNESS
7	W/B	TO FRONT DOOR RH HARNESS
8	L/B	TO FRONT DOOR RH HARNESS
9	G/Y	TO FRONT DOOR RH HARNESS



Terminal No.	Color of Wire	Signal Name
1	W	ROOM ANT 1A
2	G	ROOM ANT 1B



# INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

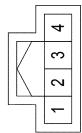
## INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	IM85
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02EGY
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	W	ROOM ANT 2A
2	B	ROOM ANT 2B

Connector No.	IM86
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	AAC04FB
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	BG	BATTERY
2	R	RF NIMOCO
3	B	GND
4	-	-

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# HOMELINK UNIVERSAL TRANSCEIVER

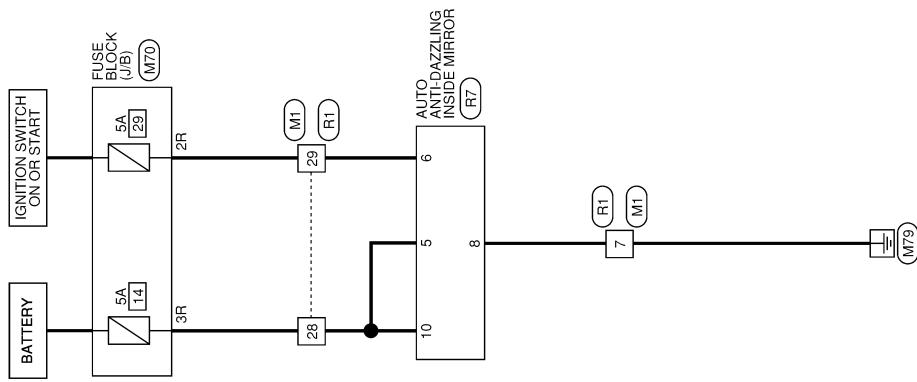
< WIRING DIAGRAM >

## HOMELINK UNIVERSAL TRANSCEIVER

### Wiring Diagram

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HOMELINK® UNIVERSAL TRANSCEIVER



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# HOMELINK UNIVERSAL TRANSCEIVER

## < WIRING DIAGRAM >

HOMELINK® UNIVERSAL TRANSCEIVER CONNECTORS

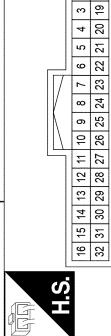
Connector No.	M1	Connector Name	WIRE TO WIRE
Connector Name	WIRE TO WIRE	Connector Type	TH32FW-NH
Connector Color	WHITE	Connector Color	WHITE

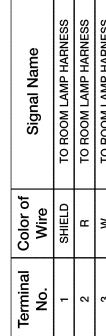
Connector No.	M70	Connector Name	FUSE BLOCK (U/B)
Connector Type	NS16FBR-CS	Connector Color	BROWN

7R	6R	5R	4R		3R	2R	1R
16R	15R	14R	13R	12R	11R	10R	9R
32	31	30	29	28	27	26	25



Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO ROOM LAMP HARNESS	1R	L	TAIL LAMP 2
2	R	TO ROOM LAMP HARNESS	2R	GR	IGNITION
3	W	TO ROOM LAMP HARNESS	3R	Y/R	BATTERY
4	SB	TO ROOM LAMP HARNESS	4R	—	—
5	GW	TO ROOM LAMP HARNESS	5R	W	BATTERY
6	GR	TO ROOM LAMP HARNESS	6R	G/W	ACCESSORY
7	B	TO ROOM LAMP HARNESS	7R	—	—
8	L	TO ROOM LAMP HARNESS	8R	—	—
9	RG	TO ROOM LAMP HARNESS	9R	—	—
10	G	TO ROOM LAMP HARNESS	10R	W	BATTERY
11	L/W	TO ROOM LAMP HARNESS	11R	—	—
12	L	TO ROOM LAMP HARNESS	12R	BG	BATTERY
13	GR	TO ROOM LAMP HARNESS	13R	B	ACCESSORY
14	R	TO ROOM LAMP HARNESS	14R	G/Y	BATTERY
15	W/B	TO ROOM LAMP HARNESS	15R	Y	ACCESSORY
16	W/B	TO ROOM LAMP HARNESS	16R	GR	ACCESSORY



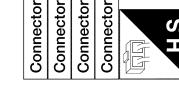
Connector No.	R7
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH10F-B-NH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	-	-
2	-	-
3	-	-
4	RGB	EC FEED
5	Y/R	BATTERY
6	G/R	IGNITION POWER
7	G/W	REVERSE RELAY
8	B	GROUND
9	Y/V	EC RETURN
10	Y/R	BATTERY



Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE



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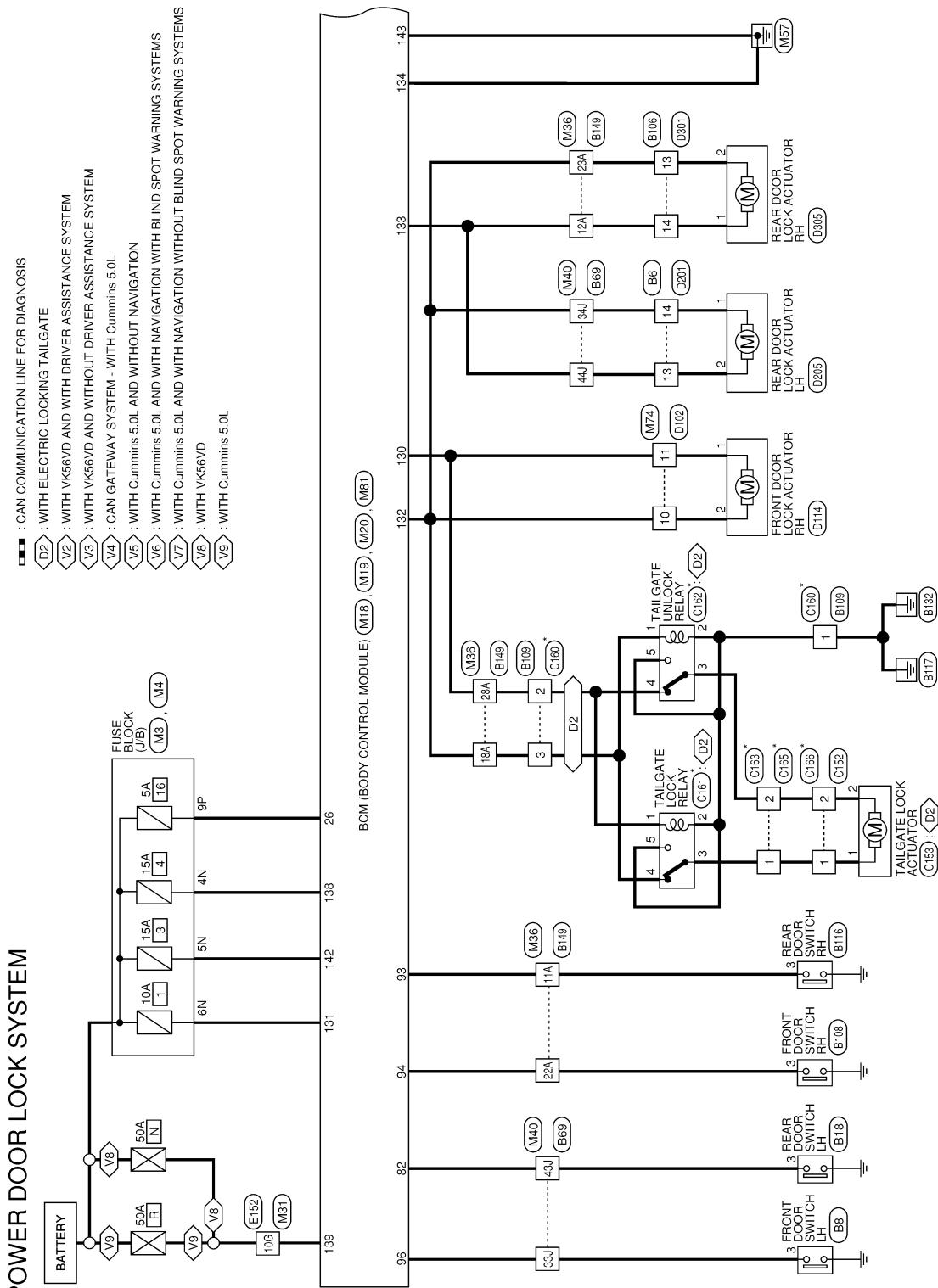
# POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

## POWER DOOR LOCK SYSTEM

### Wiring Diagram

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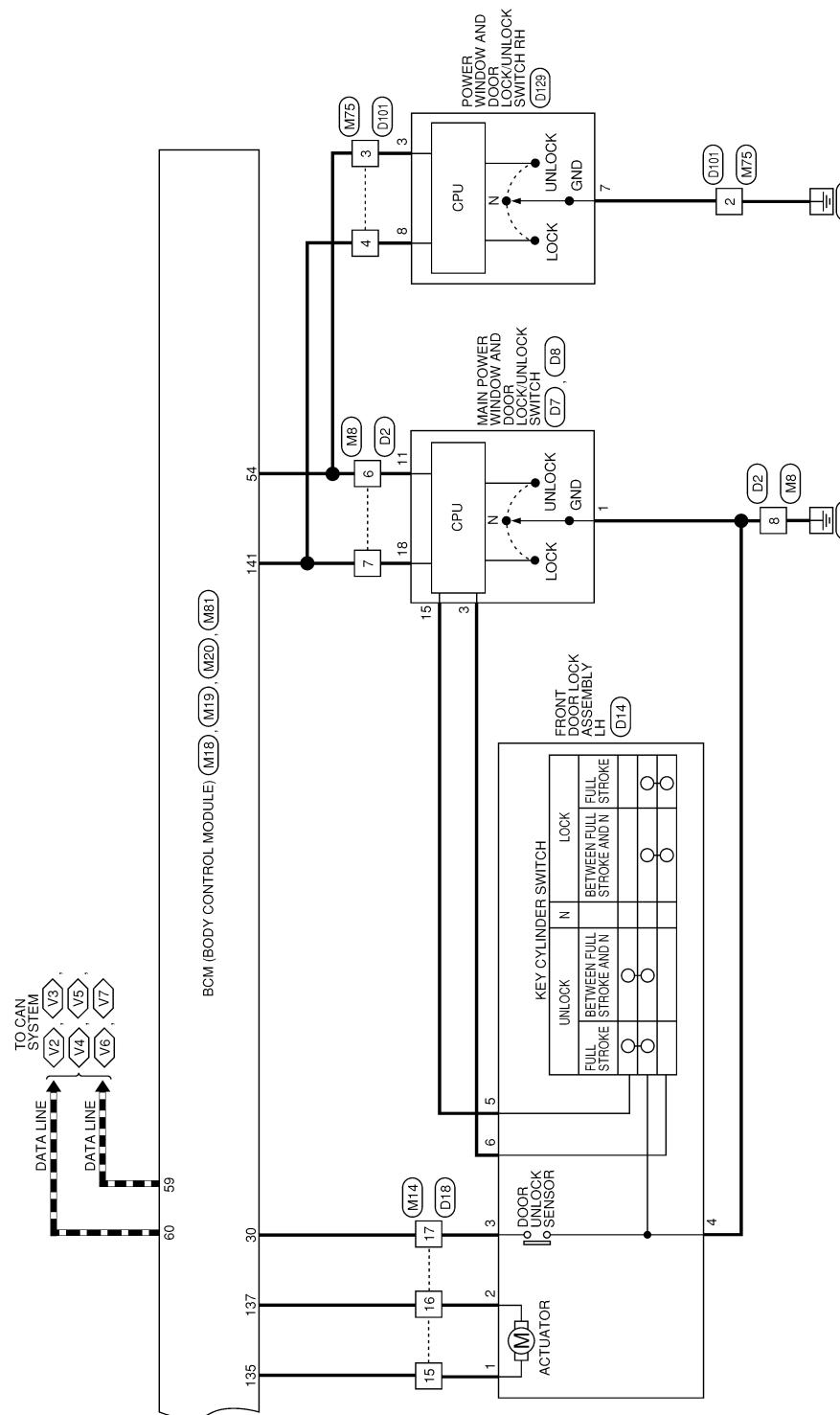


\* THIS CONNECTOR IS NOT SHOWN IN 'HARNESSES LAYOUT' OF PG SECTION.

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# POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >



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# POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

## POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NH
Connector Color	WHITE
	

Connector No.	B18
Connector Name	REAR DOOR SWITCH LH
Connector Type	TH04FW-NH
Connector Color	WHITE
	

Terminal No.	Signal Name	Signal Name
1	-	-
2	-	-
3	-	RL DOOR SW
4	-	-
5	-	TO REAR DOOR LH HARNESS
6	-	TO REAR DOOR LH HARNESS
7	-	TO REAR DOOR LH HARNESS
8	OR	TO REAR DOOR LH HARNESS
9	-	TO REAR DOOR LH HARNESS
10	-	TO REAR DOOR LH HARNESS
11	BY	TO REAR DOOR LH HARNESS
12	SB	TO REAR DOOR LH HARNESS
13	BR	TO REAR DOOR LH HARNESS
14	Y	TO REAR DOOR LH HARNESS
15	B	TO REAR DOOR LH HARNESS
16	LG	TO REAR DOOR LH HARNESS
17	L	TO REAR DOOR LH HARNESS
18	SB	TO REAR DOOR LH HARNESS

Terminal No.	Color of Wire	Signal Name	Signal Name
9	BR	TO MAIN HARNESS	TO MAIN HARNESS
10	BR	TO MAIN HARNESS	TO MAIN HARNESS
11	O/B	TO MAIN HARNESS	TO MAIN HARNESS
12	L	TO MAIN HARNESS	TO MAIN HARNESS
13	SB/O	TO MAIN HARNESS	TO MAIN HARNESS
14	Y	TO MAIN HARNESS	TO MAIN HARNESS
15	-	TO MAIN HARNESS	TO MAIN HARNESS
16	R	TO MAIN HARNESS	TO MAIN HARNESS
17	G	TO MAIN HARNESS	TO MAIN HARNESS
18	SB	TO MAIN HARNESS	TO MAIN HARNESS
19	O	TO MAIN HARNESS	TO MAIN HARNESS
20	O/B	TO MAIN HARNESS	TO MAIN HARNESS
21	Y/R	TO MAIN HARNESS	TO MAIN HARNESS
22	P	TO MAIN HARNESS	TO MAIN HARNESS
23	W	TO MAIN HARNESS	TO MAIN HARNESS
24	W/R	TO MAIN HARNESS	TO MAIN HARNESS
25	V	TO MAIN HARNESS	TO MAIN HARNESS
26	L	TO MAIN HARNESS	TO MAIN HARNESS
27	R	TO MAIN HARNESS	TO MAIN HARNESS
28	L	TO MAIN HARNESS	TO MAIN HARNESS
29	G/O	TO MAIN HARNESS	TO MAIN HARNESS
30	SB	TO MAIN HARNESS	TO MAIN HARNESS
31	LG	TO MAIN HARNESS	TO MAIN HARNESS
32	R	TO MAIN HARNESS	TO MAIN HARNESS
33	L	TO MAIN HARNESS	TO MAIN HARNESS
34	Y	TO MAIN HARNESS	TO MAIN HARNESS
35	P	TO MAIN HARNESS	TO MAIN HARNESS
36	G/R	TO MAIN HARNESS	TO MAIN HARNESS
37	L/G/B	TO MAIN HARNESS	TO MAIN HARNESS
38	SB	TO MAIN HARNESS	TO MAIN HARNESS
39	Y/L	TO MAIN HARNESS	TO MAIN HARNESS
40	BR	TO MAIN HARNESS	TO MAIN HARNESS
41	L	TO MAIN HARNESS	TO MAIN HARNESS
42	L	TO MAIN HARNESS	TO MAIN HARNESS
43	SB	TO MAIN HARNESS	TO MAIN HARNESS
44	BR	TO MAIN HARNESS	TO MAIN HARNESS
45	BR	TO MAIN HARNESS	TO MAIN HARNESS
46	P/Y	TO MAIN HARNESS	TO MAIN HARNESS
47	Y/G/R	TO MAIN HARNESS	TO MAIN HARNESS
48	V	TO MAIN HARNESS	TO MAIN HARNESS
49	BR/Y	TO MAIN HARNESS	TO MAIN HARNESS
50	G/W	TO MAIN HARNESS	TO MAIN HARNESS
51	-	TO MAIN HARNESS	TO MAIN HARNESS
52	SHIELD	TO MAIN HARNESS	TO MAIN HARNESS
53	R	TO MAIN HARNESS	TO MAIN HARNESS
54	L	TO MAIN HARNESS	TO MAIN HARNESS
55	R	TO MAIN HARNESS	TO MAIN HARNESS
56	W	TO MAIN HARNESS	TO MAIN HARNESS
57	L/G	TO MAIN HARNESS	TO MAIN HARNESS
58	O	TO MAIN HARNESS	TO MAIN HARNESS
59	-	TO MAIN HARNESS	TO MAIN HARNESS
60	SHIELD	TO MAIN HARNESS	TO MAIN HARNESS
61	G	TO MAIN HARNESS	TO MAIN HARNESS

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

Terminal No.	Color of Wire	Signal Name	Signal Name
9	BR	TO MAIN HARNESS	TO MAIN HARNESS
10	BR	TO MAIN HARNESS	TO MAIN HARNESS
11	O/B	TO MAIN HARNESS	TO MAIN HARNESS
12	L	TO MAIN HARNESS	TO MAIN HARNESS
13	SB/O	TO MAIN HARNESS	TO MAIN HARNESS
14	Y	TO MAIN HARNESS	TO MAIN HARNESS
15	-	TO MAIN HARNESS	TO MAIN HARNESS
16	R	TO MAIN HARNESS	TO MAIN HARNESS
17	G	TO MAIN HARNESS	TO MAIN HARNESS
18	SB	TO MAIN HARNESS	TO MAIN HARNESS
19	O	TO MAIN HARNESS	TO MAIN HARNESS
20	O/B	TO MAIN HARNESS	TO MAIN HARNESS
21	Y/R	TO MAIN HARNESS	TO MAIN HARNESS
22	P	TO MAIN HARNESS	TO MAIN HARNESS
23	W	TO MAIN HARNESS	TO MAIN HARNESS
24	W/R	TO MAIN HARNESS	TO MAIN HARNESS
25	V	TO MAIN HARNESS	TO MAIN HARNESS
26	L	TO MAIN HARNESS	TO MAIN HARNESS
27	R	TO MAIN HARNESS	TO MAIN HARNESS
28	L	TO MAIN HARNESS	TO MAIN HARNESS
29	Y	TO MAIN HARNESS	TO MAIN HARNESS
30	P	TO MAIN HARNESS	TO MAIN HARNESS
31	G/R	TO MAIN HARNESS	TO MAIN HARNESS
32	L/G/B	TO MAIN HARNESS	TO MAIN HARNESS
33	SB	TO MAIN HARNESS	TO MAIN HARNESS
34	Y/L	TO MAIN HARNESS	TO MAIN HARNESS
35	BR	TO MAIN HARNESS	TO MAIN HARNESS
36	L	TO MAIN HARNESS	TO MAIN HARNESS
37	L	TO MAIN HARNESS	TO MAIN HARNESS
38	SB	TO MAIN HARNESS	TO MAIN HARNESS
39	Y/L	TO MAIN HARNESS	TO MAIN HARNESS
40	BR	TO MAIN HARNESS	TO MAIN HARNESS
41	L	TO MAIN HARNESS	TO MAIN HARNESS
42	L	TO MAIN HARNESS	TO MAIN HARNESS
43	SB	TO MAIN HARNESS	TO MAIN HARNESS
44	BR	TO MAIN HARNESS	TO MAIN HARNESS
45	BR	TO MAIN HARNESS	TO MAIN HARNESS
46	P/Y	TO MAIN HARNESS	TO MAIN HARNESS
47	Y/G/R	TO MAIN HARNESS	TO MAIN HARNESS
48	V	TO MAIN HARNESS	TO MAIN HARNESS
49	BR/Y	TO MAIN HARNESS	TO MAIN HARNESS
50	G/W	TO MAIN HARNESS	TO MAIN HARNESS
51	-	TO MAIN HARNESS	TO MAIN HARNESS
52	SHIELD	TO MAIN HARNESS	TO MAIN HARNESS
53	R	TO MAIN HARNESS	TO MAIN HARNESS
54	L	TO MAIN HARNESS	TO MAIN HARNESS
55	R	TO MAIN HARNESS	TO MAIN HARNESS
56	W	TO MAIN HARNESS	TO MAIN HARNESS
57	L/G	TO MAIN HARNESS	TO MAIN HARNESS
58	O	TO MAIN HARNESS	TO MAIN HARNESS
59	-	TO MAIN HARNESS	TO MAIN HARNESS
60	SHIELD	TO MAIN HARNESS	TO MAIN HARNESS
61	G	TO MAIN HARNESS	TO MAIN HARNESS

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

Terminal No.	Color of Wire	Signal Name
9	BR	TO MAIN HARNESS
10	BR	TO MAIN HARNESS
11	O/B	TO MAIN HARNESS
12	L	TO MAIN HARNESS
13	SB/O	TO MAIN HARNESS
14	Y	TO MAIN HARNESS
15	-	TO MAIN HARNESS
16	R	TO MAIN HARNESS
17	G	TO MAIN HARNESS
18	SB	TO MAIN HARNESS

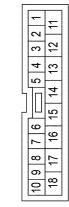
AAKIA4106GB

# POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

## POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	B106	Connector No.	B109
Connector Name	WIRE TO WIRE	Connector Name	WIRE TO WIRE
Connector Type	TK10FW-N8	Connector Type	NS03MW-CS
Connector Color	WHITE	Connector Color	WHITE

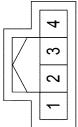


Terminal No.	Color of Wire	Signal Name
1	-	TO REAR DOOR RH HARNESS
2	-	TO REAR DOOR RH HARNESS
3	-	TO REAR DOOR RH HARNESS
4	-	TO REAR DOOR RH HARNESS
5	-	TO REAR DOOR RH HARNESS
6	-	TO REAR DOOR RH HARNESS
7	-	TO REAR DOOR RH HARNESS
8	OR	TO REAR DOOR RH HARNESS
9	-	TO REAR DOOR RH HARNESS
10	-	TO REAR DOOR RH HARNESS
11	RL	TO REAR DOOR RH HARNESS
12	OR	TO REAR DOOR RH HARNESS
13	YLG	TO REAR DOOR RH HARNESS
14	BRO	TO REAR DOOR RH HARNESS
15	B	TO REAR DOOR RH HARNESS
16	SB/R	TO REAR DOOR RH HARNESS
17	L	TO REAR DOOR RH HARNESS
18	V	TO REAR DOOR RH HARNESS

Terminal No.	Color of Wire	Signal Name
1	B	TO TAILGATE RELAY SUB-HARNESS
2	LGB	TO TAILGATE RELAY SUB-HARNESS
3	Y	TO TAILGATE RELAY SUB-HARNESS



Terminal No.	Color of Wire	Signal Name
1	-	REAR DOOR SWITCH RH
2	-	TH04FW-NH
3	LG	RR DOOR SW
4	-	-



Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Type	TH04FW-NH
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	-	-
2	-	-
3	LG/R	AS DOOR SW
4	-	-

AAKIA4107GB

# POWER DOOR LOCK SYSTEM

## < WIRING DIAGRAM >

### POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	Signal Name	Color of Wire	Terminal No.	Color of Wire	Signal Name
1A	SB/G	TO MAIN HARNESS -WITHOUT CLIMATE CONTROLLED SEATS)	1A	R/L	TO MAIN HARNESS
1A	SB	TO MAIN HARNESS -(WITH CLIMATE CONTROLLED SEATS)	50A	B	TO MAIN HARNESS
2A	L	TO MAIN HARNESS	51A	-	TO MAIN HARNESS
3A	V	TO MAIN HARNESS	53A	-	TO MAIN HARNESS
4A	SB/R	TO MAIN HARNESS	54A	-	TO MAIN HARNESS
5A	-	TO MAIN HARNESS	55A	-	TO MAIN HARNESS
6A	LG/Y	TO MAIN HARNESS -(WITHOUT CLIMATE CONTROLLED SEATS)	57A	-	TO MAIN HARNESS
6A	LG	TO MAIN HARNESS -(WITH CLIMATE CONTROLLED SEATS)	58A	-	TO MAIN HARNESS
7A	W	TO MAIN HARNESS	59A	-	TO MAIN HARNESS
8A	B	TO MAIN HARNESS	60A	G/W	TO MAIN HARNESS
7A	LG	TO MAIN HARNESS	61A	-	TO MAIN HARNESS
9A	W	TO MAIN HARNESS	62A	-	TO MAIN HARNESS
10A	W	TO MAIN HARNESS	63A	-	TO MAIN HARNESS
11A	LG	TO MAIN HARNESS	64A	-	TO MAIN HARNESS
12A	B/R/O	TO MAIN HARNESS	65A	-	TO MAIN HARNESS
13A	Y/W	TO MAIN HARNESS	66A	-	TO MAIN HARNESS
14A	R/G	TO MAIN HARNESS	67A	-	TO MAIN HARNESS
15A	Y/L	TO MAIN HARNESS	68A	-	TO MAIN HARNESS
16A	O/L	TO MAIN HARNESS	69A	Y/R	TO MAIN HARNESS
17A	L	TO MAIN HARNESS	70A	R/G	TO MAIN HARNESS
18A	Y	TO MAIN HARNESS	71A	-	TO MAIN HARNESS
19A	LG	TO MAIN HARNESS	72A	Y/B	TO MAIN HARNESS
20A	R	TO MAIN HARNESS	73A	G	TO MAIN HARNESS
21A	B/G	TO MAIN HARNESS	74A	B/R	TO MAIN HARNESS
22A	LG/R	TO MAIN HARNESS	75A	SHIELD	TO MAIN HARNESS

AAKIA4108GB

# POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

## POWER DOOR LOCK SYSTEM CONNECTORS

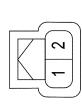
Connector No.	C161
Connector Name	TAILGATE LOCK RELAY
Connector Type	6098-4739
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name	Signal Name
1	L	RELAY CONTROL	TO TAILGATE LOCK SUB-HARNESS
2	B	GROUND	TO TAILGATE LOCK SUB-HARNESS
3	G	RELAY OUTPUT	TO TAILGATE LOCK SUB-HARNESS
4	G	DOOR LOCK AS/FRR/L	TO MAIN HARNESS
5	B	GROUND	TO MAIN HARNESS

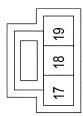


Terminal No.	Color of Wire	Signal Name	Signal Name
1	L	RELAY CONTROL	TO TAILGATE LOCK SUB-HARNESS
2	B	GROUND	TO TAILGATE LOCK SUB-HARNESS
3	G	RELAY OUTPUT	TO TAILGATE LOCK SUB-HARNESS
4	G	DOOR LOCK AS/FRR/L	TO MAIN HARNESS
5	B	GROUND	TO MAIN HARNESS



2	L	TO REAR CAMERA SUB HARNESS
3	WIRE TO WIRE	
4	RR UP	ENCODER SIG2
5	SB	ENCODER SIG1
6	V	RR DN
7	L	RL UP
8	Y	RL DN
9	IGN	LG
10	COM	W/L
11	W/L	ENCODER GND
12	B	ENCODER GND
13	-	-
14	P	ENCODER+
15	B/W	LOCK ACTR DR
16	-	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NST16FW-CS
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name	Signal Name
1	G	TO TAILGATE LOCK SUB-HARNESS	TO MAIN HARNESS
2	L	TO TAILGATE LOCK SUB-HARNESS	TO MAIN HARNESS
3	W/R	TO MAIN HARNESS	TO MAIN HARNESS
4	R	TO MAIN HARNESS	TO MAIN HARNESS
5	W/L	TO MAIN HARNESS	TO MAIN HARNESS
6	V	TO MAIN HARNESS	TO MAIN HARNESS
7	U/L	TO MAIN HARNESS	TO MAIN HARNESS
8	B	TO MAIN HARNESS	TO MAIN HARNESS
9	U/W	TO MAIN HARNESS	TO MAIN HARNESS
10	U/R	TO MAIN HARNESS	TO MAIN HARNESS
11	U/W	TO MAIN HARNESS	TO MAIN HARNESS
12	L	TO MAIN HARNESS	TO MAIN HARNESS
13	Y	TO MAIN HARNESS	TO MAIN HARNESS
14	SB	TO MAIN HARNESS	DR UP
15	V	TO MAIN HARNESS	BAT
16	LG	TO MAIN HARNESS	DR DN

Connector No.	C165
Connector Name	WIRE TO WIRE
Connector Type	RH02MB



Terminal No.	Color of Wire	Signal Name	Signal Name
1	G	TO TAILGATE LOCK SUB-HARNESS	TO TAILGATE RELAY SUB-HARNESS
2	L	TO TAILGATE RELAY SUB-HARNESS	TO TAILGATE RELAY SUB-HARNESS
3	WIRE TO WIRE		
4	RR UP		
5	SB		

Connector No.	C166
Connector Name	WIRE TO WIRE
Connector Type	RH02MB



2	L	TO REAR CAMERA SUB HARNESS
3	WIRE TO WIRE	
4	RR UP	ENCODER SIG2
5	SB	ENCODER SIG1
6	V	RR DN
7	L	RL UP
8	Y	RL DN
9	IGN	LG
10	COM	W/L
11	W/L	ENCODER GND
12	B	ENCODER GND
13	-	-
14	P	ENCODER+
15	B/W	LOCK ACTR DR
16	-	-

Connector No.	D8
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Type	NS03FW-CS
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	6	TO REAR CAMERA SUB HARNESS
8	5	WIRE TO WIRE
9	4	RR UP
10	3	SB
11	2	RL UP
12	1	RL DN
13	-	-
14	W/R	LOCK ACTR DR
15	V	BAT
16	LG	DR DN

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	-	-
3	W/R	LOCK ACTR DR

Terminal No.	Color of Wire	Signal Name
1	G	TO REAR CAMERA SUB HARNESS
2	-	-
3	W/R	LOCK ACTR DR
4	-	-

# POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

## POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	D14	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
Connector Name	FRONT DOOR LOCK ASSEMBLY LH		TO MAIN HARNESS	8	LB	TO MAIN HARNESS
Connector Type	E06FGY-RS		TO MAIN HARNESS	9	GY	TO MAIN HARNESS
Connector Color	GRAY		TO MAIN HARNESS	10	-	TO MAIN HARNESS
Connector No.	D102	Color of Wire	FRONT DOOR LOCK ACTUATOR RH	Terminal No.	Color of Wire	Signal Name
Connector Name	WIRE TO WIRE		E06FGY-RS	1	LG	SUPERLOCK/DOOR UNLOCK AS
Connector Type	TH32FW-NH			2	Y	DOOR LOCK AS/FR
Connector Color	WHITE			3	-	-
				4	-	-
				5	-	-
				6	-	-
Connector No.	D108	Color of Wire	WIRE TO WIRE	Terminal No.	Color of Wire	Signal Name
Connector Name	TH40FW-NH		TO MAIN HARNESS	7	RG	TO MAIN HARNESS
Connector Type	WHITE		TO MAIN HARNESS	8	B	TO MAIN HARNESS
Connector Color	WHITE		TO MAIN HARNESS	9	W	TO MAIN HARNESS
				10	Y	TO MAIN HARNESS
				11	LG	TO MAIN HARNESS
				12	L	TO MAIN HARNESS
				13	YV	TO MAIN HARNESS
				14	WL	TO MAIN HARNESS
				15	VR	TO MAIN HARNESS
				16	LW	TO MAIN HARNESS
				17	SB	TO MAIN HARNESS
				18	Y	TO MAIN HARNESS
				19	G	TO MAIN HARNESS
				20	GR/R	TO MAIN HARNESS (WITHOUT AUTOMATIC DRIVE POSITIONER)
				21	-	TO MAIN HARNESS
				22	-	TO MAIN HARNESS
				23	R	TO MAIN HARNESS
				24	R	TO MAIN HARNESS
				25	SHIELD	TO MAIN HARNESS
				26	LG	TO MAIN HARNESS
				27	Y	TO MAIN HARNESS
				28	BR	TO MAIN HARNESS
				29	LG/B	TO MAIN HARNESS
				30	-	TO MAIN HARNESS
				31	-	TO MAIN HARNESS
				32	G	AS UP
				33	L	AS DN
				34	W/B	TO MAIN HARNESS
				35	LG	TO MAIN HARNESS
				36	-	
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# POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

## POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8
Connector Color	WHITE
	

1 2 3 4 5 **6** 7 8 9 10  
11 12 13 14 15 16 17 18

Terminal No.	Color of Wire	Signal Name
1	-	TO BODY HARNESS
2	-	TO BODY HARNESS
3	-	TO BODY HARNESS
4	-	TO BODY HARNESS
5	-	TO BODY HARNESS
6	-	TO BODY HARNESS
7	-	TO BODY HARNESS
8	OR	TO BODY HARNESS
9	-	TO BODY HARNESS
10	-	TO BODY HARNESS
11	BY	TO BODY HARNESS
12	SB	TO BODY HARNESS
13	BR	TO BODY HARNESS
14	Y	TO BODY HARNESS
15	B	TO BODY HARNESS
16	BR	TO BODY HARNESS
17	Y	TO BODY HARNESS
18	V	TO BODY HARNESS

Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
1	-	TO BODY HARNESS	1	-	TO BODY NO. 2 HARNESS
2	-	TO BODY HARNESS	2	-	TO BODY NO. 2 HARNESS
3	-	TO BODY HARNESS	3	-	TO BODY NO. 2 HARNESS
4	-	TO BODY HARNESS	4	-	TO BODY NO. 2 HARNESS
5	-	TO BODY HARNESS	5	-	TO BODY NO. 2 HARNESS
6	-	TO BODY HARNESS	6	-	TO BODY NO. 2 HARNESS
7	-	TO BODY HARNESS	7	-	TO BODY NO. 2 HARNESS
8	OR	TO BODY HARNESS	8	OR	TO BODY NO. 2 HARNESS
9	-	TO BODY HARNESS	9	-	TO BODY NO. 2 HARNESS
10	-	TO BODY HARNESS	10	-	TO BODY NO. 2 HARNESS
11	RL	TO BODY HARNESS	11	RL	TO BODY NO. 2 HARNESS
12	OR	TO BODY HARNESS	12	OR	TO BODY NO. 2 HARNESS
13	Y	TO BODY HARNESS	13	Y	TO BODY NO. 2 HARNESS
14	BR	TO BODY HARNESS	14	BR	TO BODY NO. 2 HARNESS
15	B	TO BODY HARNESS	15	B	TO BODY NO. 2 HARNESS
16	BR	TO BODY HARNESS	16	BR	TO BODY NO. 2 HARNESS
17	Y	TO BODY HARNESS	17	Y	TO BODY NO. 2 HARNESS
18	V	TO BODY HARNESS	18	V	TO BODY NO. 2 HARNESS

Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
1	-	TO BODY HARNESS	1	-	TO BODY NO. 2 HARNESS
2	-	TO BODY HARNESS	2	-	TO BODY NO. 2 HARNESS
3	-	TO BODY HARNESS	3	-	TO BODY NO. 2 HARNESS
4	-	TO BODY HARNESS	4	-	TO BODY NO. 2 HARNESS
5	-	TO BODY HARNESS	5	-	TO BODY NO. 2 HARNESS
6	-	TO BODY HARNESS	6	-	TO BODY NO. 2 HARNESS
7	-	TO BODY HARNESS	7	-	TO BODY NO. 2 HARNESS
8	OR	TO BODY HARNESS	8	OR	TO BODY NO. 2 HARNESS
9	-	TO BODY HARNESS	9	-	TO BODY NO. 2 HARNESS
10	-	TO BODY HARNESS	10	-	TO BODY NO. 2 HARNESS
11	RL	TO BODY HARNESS	11	RL	TO BODY NO. 2 HARNESS
12	OR	TO BODY HARNESS	12	OR	TO BODY NO. 2 HARNESS
13	Y	TO BODY HARNESS	13	Y	TO BODY NO. 2 HARNESS
14	BR	TO BODY HARNESS	14	BR	TO BODY NO. 2 HARNESS
15	B	TO BODY HARNESS	15	B	TO BODY NO. 2 HARNESS
16	BR	TO BODY HARNESS	16	BR	TO BODY NO. 2 HARNESS
17	Y	TO BODY HARNESS	17	Y	TO BODY NO. 2 HARNESS
18	V	TO BODY HARNESS	18	V	TO BODY NO. 2 HARNESS

Terminal No.	Color of Wire	Signal Name
1	Y	DOOR LOCK AS/RR/RL
2	BR	DOOR UNLOCK AS/RR/RL
3	-	-
4	-	-

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# POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

## POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	Signal Name	Color of Wire	Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
FE152	WIRE TO WIRE	R/W	24G	G/B	TO MAIN HARNESS	72G	U/W	TO MAIN HARNESS
			25G	R/W	TO MAIN HARNESS	73G	SHIELD	TO MAIN HARNESS
TH80MW-CS16-TM4			26G	R	TO MAIN HARNESS	74G	W	TO MAIN HARNESS
WHITE			27G	LG	TO MAIN HARNESS	75G	R	TO MAIN HARNESS
			28G	G/B	TO MAIN HARNESS	76G	R/G	TO MAIN HARNESS
			29G	G/B	TO MAIN HARNESS	77G	G	TO MAIN HARNESS
			30G	BR/Y	TO MAIN HARNESS	78G	W	TO MAIN HARNESS
			31G	P	TO MAIN HARNESS - (WITH CUMMINS 5.0L)	79G	-	TO MAIN HARNESS
				R	TO MAIN HARNESS - (WITH V856D)	80G	R	TO MAIN HARNESS
			32G	P	TO MAIN HARNESS	81G	L	TO MAIN HARNESS
			33G	YL	TO MAIN HARNESS	82G	R	TO MAIN HARNESS
			34G	GR	TO MAIN HARNESS	83G	L	TO MAIN HARNESS
			35G	GR	TO MAIN HARNESS	84G	L	TO MAIN HARNESS
			36G	SB	TO MAIN HARNESS	85G	W/B	TO MAIN HARNESS
			37G	R/W	TO MAIN HARNESS	86G	B/R	TO MAIN HARNESS
			38G	BR	TO MAIN HARNESS	87G	W/B	TO MAIN HARNESS
			39G	BR	TO MAIN HARNESS	88G	P	TO MAIN HARNESS
			40G	-	TO MAIN HARNESS	89G	L	TO MAIN HARNESS
			41G	R/G	TO MAIN HARNESS	90G	G	TO MAIN HARNESS
			42G	O	TO MAIN HARNESS	91G	G	TO MAIN HARNESS
			43G	B	TO MAIN HARNESS - (WITH CUMMINS 5.0L)	92G	V/W	TO MAIN HARNESS
			43G	G	TO MAIN HARNESS - (WITH V856D)	93G	BR	TO MAIN HARNESS
			44G	R/Y	TO MAIN HARNESS	94G	G	TO MAIN HARNESS
			45G	G	TO MAIN HARNESS	95G	G	TO MAIN HARNESS
			46G	LG	TO MAIN HARNESS	96G	W	TO MAIN HARNESS
			47G	R	TO MAIN HARNESS	97G	BR	TO MAIN HARNESS
			48G	W	TO MAIN HARNESS	98G	GR/W	TO MAIN HARNESS
			49G	-	TO MAIN HARNESS	99G	-	TO MAIN HARNESS
			50G	BR	TO MAIN HARNESS	100G	-	TO MAIN HARNESS
			51G	R	TO MAIN HARNESS	101G	-	TO MAIN HARNESS
			52G	L	TO MAIN HARNESS	102G	-	TO MAIN HARNESS
			53G	W	TO MAIN HARNESS	103G	R	BATTERY
			54G	W	TO MAIN HARNESS - (WITH CUMMINS 5.0L)	104G	Y	BATTERY
			7G	Y	TO MAIN HARNESS	105G	Y/G	BATTERY
			8G	G	TO MAIN HARNESS	106G	W	BLOWER FAN RELAY OUT
			9G	R	TO MAIN HARNESS			
			10G	W	TO MAIN HARNESS			
			11G	R/G	TO MAIN HARNESS			
			12G	W/B	TO MAIN HARNESS			
			13G	BR	TO MAIN HARNESS			
			14G	Y/B	TO MAIN HARNESS			
			15G	G/W	TO MAIN HARNESS			
			16G	G	TO MAIN HARNESS			
			17G	G/Y	TO MAIN HARNESS			
			18G	G/Y	TO MAIN HARNESS			
			19G	Y/V	TO MAIN HARNESS			
			20G	G/Y	TO MAIN HARNESS			
			21G	B/Y	TO MAIN HARNESS			
			22G	G/R	TO MAIN HARNESS			
			23G	Y/R	TO MAIN HARNESS			
			71G	R/W	TO MAIN HARNESS			

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# POWER DOOR LOCK SYSTEM

## < WIRING DIAGRAM >

### POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	Color of Wire	Signal Name
1	2	WIRE TO WIRE
8	9	TO FRONT DOOR LH HARNESS
10	11	TO FRONT DOOR LH HARNESS
12	13	TO FRONT DOOR LH HARNESS
14	15	TO FRONT DOOR LH HARNESS
16	17	TO FRONT DOOR LH HARNESS
18	19	TO FRONT DOOR LH HARNESS



Terminal No.	Color of Wire	Signal Name
1	B/W	TO FRONT DOOR LH HARNESS
2	G/B	TO FRONT DOOR LH HARNESS
3	L	TO FRONT DOOR LH HARNESS
4	R	TO FRONT DOOR LH HARNESS
5	W/R	TO FRONT DOOR LH HARNESS
6	W/L	TO FRONT DOOR LH HARNESS
7	V	TO FRONT DOOR LH HARNESS
8	B	TO FRONT DOOR LH HARNESS
9	L/W	TO FRONT DOOR LH HARNESS
10	L/R	TO FRONT DOOR LH HARNESS
11	L/W	TO FRONT DOOR LH HARNESS
12	L	TO FRONT DOOR LH HARNESS
13	Y	TO FRONT DOOR LH HARNESS
14	SB	TO FRONT DOOR LH HARNESS
15	V	TO FRONT DOOR LH HARNESS
16	LG	TO FRONT DOOR LH HARNESS

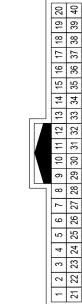
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40



Terminal No.	Color of Wire	Signal Name
1	M14	WIRE TO WIRE
2	SB	TO FRONT DOOR LH HARNESS
3	SB	TO FRONT DOOR LH HARNESS
4	Y	TO FRONT DOOR LH HARNESS



Connector No.	Color of Wire	Signal Name
1	LG	TO FRONT DOOR LH HARNESS - (WITH MEMORY MIRRORS)
2	SB	TO FRONT DOOR LH HARNESS - (WITHOUT MEMORY MIRRORS)
3	B	TO FRONT DOOR LH HARNESS
4	Y	TO FRONT DOOR LH HARNESS



Terminal No.	Color of Wire	Signal Name
1	LG	TO FRONT DOOR LH HARNESS - (WITH MEMORY MIRRORS)
2	SB	TO FRONT DOOR LH HARNESS - (WITHOUT MEMORY MIRRORS)
3	B	TO FRONT DOOR LH HARNESS
4	Y	TO FRONT DOOR LH HARNESS

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Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
6	SB	TO FRONT DOOR LH HARNESS	39	BR	SHIFT N/P
7	Y	TO FRONT DOOR LH HARNESS	40	-	-
8	GR	TO FRONT DOOR LH HARNESS			
9	L	TO FRONT DOOR LH HARNESS			
10	W	TO FRONT DOOR LH HARNESS			
11	B	TO FRONT DOOR LH HARNESS			
12	R/G	TO FRONT DOOR LH HARNESS			
13	G	TO FRONT DOOR LH HARNESS			
14	R	TO FRONT DOOR LH HARNESS			
15	O	TO FRONT DOOR LH HARNESS			
16	V	TO FRONT DOOR LH HARNESS			
17	P	TO FRONT DOOR LH HARNESS			
18	G	TO FRONT DOOR LH HARNESS			
19	LG/B	TO FRONT DOOR LH HARNESS			
20	Y/Y	TO FRONT DOOR LH HARNESS	1	G	ENG START SW/NO ESCL
21	O	TO FRONT DOOR LH HARNESS - (WITH MEMORY MIRRORS)	2	-	-
22	BR	TO FRONT DOOR LH HARNESS - (WITHOUT MEMORY MIRRORS)	3	R	ALL POWER SUPPLY
23	BG	TO FRONT DOOR LH HARNESS	4	W/R	A/D SIGNAL
24	L	TO FRONT DOOR LH HARNESS - (WITH MEMORY MIRRORS)	5	-	-
25	G	TO FRONT DOOR LH HARNESS - (WITHOUT MEMORY MIRRORS)	6	-	-
26	BR	TO FRONT DOOR LH HARNESS	7	-	-
27	Y	TO FRONT DOOR LH HARNESS	8	-	-
28	W	TO FRONT DOOR LH HARNESS	9	-	-
29	SB	TO FRONT DOOR LH HARNESS	10	SB	COMBI SW IN 5
30	V	TO FRONT DOOR LH HARNESS	11	G/Y	COMBI SW IN 4
31	R	TO FRONT DOOR LH HARNESS	12	Y	COMBI SW IN 3
32	SHIELD	TO FRONT DOOR LH HARNESS	13	G/B	COMBI SW IN 2
33	R	TO FRONT DOOR LH HARNESS	14	V	COMBI SW IN 1
34	O	TO FRONT DOOR LH HARNESS	15	-	-
35	-	TO FRONT DOOR LH HARNESS	16	-	-
36	W	TO FRONT DOOR LH HARNESS	17	P	GND RE AL
37	U/R	TO FRONT DOOR LH HARNESS	18	V	SECURITY INDICATOR
38	GR	TO FRONT DOOR LH HARNESS	19	-	-
39	P	TO FRONT DOOR LH HARNESS	20	R	SHIFT P
40	R	TO FRONT DOOR LH HARNESS	21	R/W	STEP LAMP/CONT
			22	-	-
			23	Y	AIRCON SW
			24	-	-
			25	W	BRANE SW/FUSE
			26	L	SHORT IN PIN INPUT
			27	R/G	REAR DEFOGGER SW
			28	-	-
			29	W	BLOWER FAN SW
			30	P	DR DOOR LOCK STATUS
			31	-	-
			32	Y	REAR SW/LAMP
			33	-	-
			34	-	-
			35	R/G	REVERSE SW
			36	W/B	HAZARD SW
			37	-	-
			38	-	-
			39	-	-

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# POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

## POWER DOOR LOCK SYSTEM CONNECTORS

Terminal No.	Color of Wire	Signal Name	
41	Y/L	TRAILER LIGHT CHECK RELAY OUT	
42	R/Y	CARGO LAMP OUT	
43	-	-	
44	-	-	
45	-	-	
46	-	-	
47	-	-	
48	R	HIGH SIDE START SW LED	
49	-	-	
50	-	-	
51	-	-	
52	W	AUDIO DONGLE	
53	-	-	
54	WL	PW LAMP	
55	WRB	L/R SENSOR X-LINE	
56	-	-	
57	-	-	
58	-	-	
59	P	CAN L	
60	L	CAN H	
61	O	REAR DEFOGGER RELAY OUT	
62	W	STARTER RELAY OUT	
63	-	-	
64	P	BUZZER OUT	
65	-	-	
66	W	BLOWER FAN RELAY OUT	
67	G	IGN ELEC RELAY OUT 2	
68	L	MR OUTPUT	
69	RB	AT DEVICE OUT	
70	P	IGN USM OUT 1	
71	O	DR REQUEST SW	
72	G	AS REQUEST SW	
73	-	-	
74	-	-	
75	L/W	COMBI SW OUT 5	
76	P	COMBI SW OUT 4	
77	L	COMBI SW OUT 3	

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# POWER DOOR LOCK SYSTEM

## < WIRING DIAGRAM >

### POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	Signal Name	Color of Wire	Terminal No.	Signal Name	Color of Wire	Terminal No.
M31	WIRE TO WIRE	27G	LG	TO ENGINE ROOM HARNESS	80G	R
		28G	G/B	TO ENGINE ROOM HARNESS	81G	L
		29G	G/B	TO ENGINE ROOM HARNESS	82G	R
		30G	BR/Y	TO ENGINE ROOM HARNESS	83G	L
		31G	R	TO ENGINE ROOM HARNESS	84G	L
		32G	R	TO ENGINE ROOM HARNESS	85G	W
		33G	Y/L	TO ENGINE ROOM HARNESS	86G	B/R
		34G	GR	TO ENGINE ROOM HARNESS	87G	W
		35G	G/R	TO ENGINE ROOM HARNESS	88G	G
		36G	SB	TO ENGINE ROOM HARNESS	89G	P
		37G	R/W	TO ENGINE ROOM HARNESS	90G	G
		38G	BR	TO ENGINE ROOM HARNESS	91G	P
		39G	BR	TO ENGINE ROOM HARNESS	92G	W/W
		40G	-	TO ENGINE ROOM HARNESS	93G	BR
		41G	R/G	TO ENGINE ROOM HARNESS	94G	B
		42G	O	TO ENGINE ROOM HARNESS	95G	G
		43G	G	TO ENGINE ROOM HARNESS	96G	R
		44G	R/Y	TO ENGINE ROOM HARNESS	97G	R
		45G	G	TO ENGINE ROOM HARNESS	98G	W/R
		46G	LG	TO ENGINE ROOM HARNESS	99G	R
		47G	R	TO ENGINE ROOM HARNESS	100G	GR/W
		48G	-	TO ENGINE ROOM HARNESS		
		50G	BR	TO ENGINE ROOM HARNESS		
		51G	R	TO ENGINE ROOM HARNESS		
		52G	L	TO ENGINE ROOM HARNESS		
		53G	W	TO ENGINE ROOM HARNESS		
		54G	W	TO ENGINE ROOM HARNESS		
		55G	G	TO ENGINE ROOM HARNESS		
		56G	W	TO ENGINE ROOM HARNESS		
		57G	Y	TO ENGINE ROOM HARNESS		
		58G	B/G	TO ENGINE ROOM HARNESS		
		59G	B/G	TO ENGINE ROOM HARNESS		
		60G	B/G	TO ENGINE ROOM HARNESS		
		61G	O	TO ENGINE ROOM HARNESS		
		62G	W	TO ENGINE ROOM HARNESS		
		63G	O	TO ENGINE ROOM HARNESS		
		64G	W/L	TO ENGINE ROOM HARNESS		
		65G	W/R	TO ENGINE ROOM HARNESS		
		66G	B/G	TO ENGINE ROOM HARNESS		
		67G	O	TO ENGINE ROOM HARNESS		
		68G	W	TO ENGINE ROOM HARNESS		
		69G	O	TO ENGINE ROOM HARNESS		
		70G	Y	TO ENGINE ROOM HARNESS		
		71G	R/W	TO ENGINE ROOM HARNESS		
		72G	L/W	TO ENGINE ROOM HARNESS		
		73G	SHIELD	TO ENGINE ROOM HARNESS		
		74G	B	TO ENGINE ROOM HARNESS		
		75G	W	TO ENGINE ROOM HARNESS		
		76G	R	TO ENGINE ROOM HARNESS		
		77G	R/G	TO ENGINE ROOM HARNESS		
		78G	B/G	TO ENGINE ROOM HARNESS		
		79G	P	TO ENGINE ROOM HARNESS		
		80G	-	TO ENGINE ROOM HARNESS		

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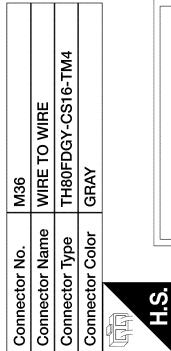


Terminal No.	Color of Wire	Signal Name
1G	G	TO ENGINE ROOM HARNESS
2G	B/R	TO ENGINE ROOM HARNESS
3G	W	TO ENGINE ROOM HARNESS
4G	BR/W	TO ENGINE ROOM HARNESS
5G	-	TO ENGINE ROOM HARNESS
6G	R/W	TO ENGINE ROOM HARNESS
7G	Y	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	R	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R/G	TO ENGINE ROOM HARNESS
12G	W/B	TO ENGINE ROOM HARNESS
13G	BR	TO ENGINE ROOM HARNESS
14G	Y/B	TO ENGINE ROOM HARNESS
15G	G/W	TO ENGINE ROOM HARNESS
16G	G	TO ENGINE ROOM HARNESS
17G	O	TO ENGINE ROOM HARNESS
18G	G/Y	TO ENGINE ROOM HARNESS
19G	Y/V	TO ENGINE ROOM HARNESS
20G	G/Y	TO ENGINE ROOM HARNESS
21G	B/Y	TO ENGINE ROOM HARNESS
22G	G/R	TO ENGINE ROOM HARNESS
23G	Y/R	TO ENGINE ROOM HARNESS
24G	G/B	TO ENGINE ROOM HARNESS
25G	R/W	TO ENGINE ROOM HARNESS
26G	R	TO ENGINE ROOM HARNESS

## POWER DOOR LOCK SYSTEM

## < WIRING DIAGRAM >

## POWER DOOR LOCK SYSTEM CONNECTORS



Connector No.	M36	Color of Wire	Signal Name	Terminal No.
Connector Name	WIRE TO WIRE	G	TO BODY NO. 2 HARNESS	22A
Connector Type	TH80FDGY-CS16-TM4	Y	TO BODY NO. 2 HARNESS	23A
Connector Color	GRAY	L	TO BODY NO. 2 HARNESS	24A
		-	TO BODY NO. 2 HARNESS	25A
		GR	TO BODY NO. 2 HARNESS	26A
		LG	TO BODY NO. 2 HARNESS	27A
		LG	TO BODY NO. 2 HARNESS	28A
		GR	TO BODY NO. 2 HARNESS	29A
		BR	TO BODY NO. 2 HARNESS	30A
		WR	TO BODY NO. 2 HARNESS	31A
		GR	TO BODY NO. 2 HARNESS	32A
		-	TO BODY NO. 2 HARNESS	33A
		SHIELD	TO BODY NO. 2 HARNESS	34A
		P	TO BODY NO. 2 HARNESS	35A
		B	TO BODY NO. 2 HARNESS	36A
		-	TO BODY NO. 2 HARNESS	37A
		RB	TO BODY NO. 2 HARNESS	38A
		Q/G	TO BODY NO. 2 HARNESS	39A
		V	TO BODY NO. 2 HARNESS	40A
		SHIELD	TO BODY NO. 2 HARNESS	41A
		SHIELD	TO BODY NO. 2 HARNESS	42A
		R	TO BODY NO. 2 HARNESS	43A
		G	TO BODY NO. 2 HARNESS	44A
		-	TO BODY NO. 2 HARNESS	45A
		-	TO BODY NO. 2 HARNESS	46A
		Y	TO BODY NO. 2 HARNESS	47A
		RW	TO BODY NO. 2 HARNESS	48A
		RL	TO BODY NO. 2 HARNESS	49A
		B	TO BODY NO. 2 HARNESS	50A
		-	TO BODY NO. 2 HARNESS	51A
		-	TO BODY NO. 2 HARNESS	52A
		-	TO BODY NO. 2 HARNESS	53A
		-	TO BODY NO. 2 HARNESS	54A
		-	TO BODY NO. 2 HARNESS	55A
		-	TO BODY NO. 2 HARNESS	56A
		-	TO BODY NO. 2 HARNESS	57A
		-	TO BODY NO. 2 HARNESS	58A
		-	TO BODY NO. 2 HARNESS	59A
		-	TO BODY NO. 2 HARNESS	60A
		-	TO BODY NO. 2 HARNESS	61A
		-	TO BODY NO. 2 HARNESS	62A
		-	TO BODY NO. 2 HARNESS	63A
		-	TO BODY NO. 2 HARNESS	64A
		-	TO BODY NO. 2 HARNESS	65A
		-	TO BODY NO. 2 HARNESS	66A
		-	TO BODY NO. 2 HARNESS	67A
		-	TO BODY NO. 2 HARNESS	68A
		Y/R	TO BODY NO. 2 HARNESS	69A
		R/G	TO BODY NO. 2 HARNESS	70A
		-	TO BODY NO. 2 HARNESS	71A
		W	TO BODY NO. 2 HARNESS	72A
		G	TO BODY NO. 2 HARNESS	73A
		W	TO BODY NO. 2 HARNESS	74A

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## POWER DOOR LOCK SYSTEM

## < WIRING DIAGRAM >

## POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	THB0FW-CS16-TM4
Connector Color	WHITE



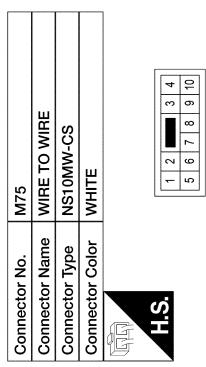
Terminal No.	Color of Wire	Signal Name
1J	G	TO BODY HARNESS
2J	R/Y	TO BODY HARNESS
3J	L	TO BODY HARNESS
4J	L/B	TO BODY HARNESS
5J	B	TO BODY HARNESS
6J	BR	TO BODY HARNESS
7J	BG	TO BODY HARNESS
8J	SB	TO BODY HARNESS
9J	BR	TO BODY HARNESS
10J	R	TO BODY HARNESS
11J	O/B	TO BODY HARNESS
12J	L	TO BODY HARNESS
13J	W	TO BODY HARNESS
14J	Y	TO BODY HARNESS
15J	-	TO BODY HARNESS
16J	R	TO BODY HARNESS
17J	G	TO BODY HARNESS
18J	SB	TO BODY HARNESS
19J	O	TO BODY HARNESS
20J	O/B	TO BODY HARNESS
21J	Y	TO BODY HARNESS
22J	P	TO BODY HARNESS
23J	W	TO BODY HARNESS
24J	W/R	TO BODY HARNESS
25J	P	TO BODY HARNESS
26J	L	TO BODY HARNESS
27J	R	TO BODY HARNESS

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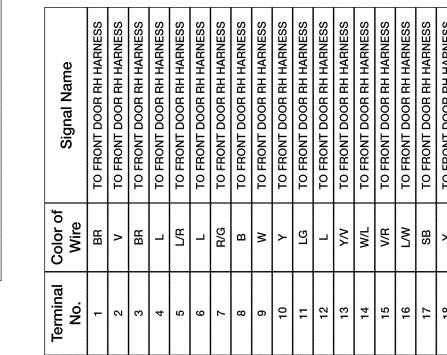
8J	SHIELD	TO BODY HARNESS
8J	L/R	TO BODY HARNESS
8J	-	TO BODY HARNESS
8J	-	TO BODY HARNESS
8J	W	TO BODY HARNESS
8J	G	TO BODY HARNESS
8J	W	TO BODY HARNESS
8J	SHIELD	TO BODY HARNESS
8J	R	TO BODY HARNESS
9J	L	TO BODY HARNESS
9J	L/B	TO BODY HARNESS
9J	SB	TO BODY HARNESS
9J	B	TO BODY HARNESS
9J	LG	TO BODY HARNESS
9J	L	TO BODY HARNESS
9J	G	TO BODY HARNESS
9J	B/Y	TO BODY HARNESS
9J	L/B	TO BODY HARNESS
9J	W/L	TO BODY HARNESS
10J	Y	TO BODY HARNESS



Terminal No.	Color of Wire	Signal Name
1	B/W	TO FRONT DOOR RH HARNESS
2	B	TO FRONT DOOR RH HARNESS
3	W/L	TO FRONT DOOR RH HARNESS
4	V	TO FRONT DOOR RH HARNESS
5	WB	TO FRONT DOOR RH HARNESS
6	G/Y	TO FRONT DOOR RH HARNESS
7	WB	TO FRONT DOOR RH HARNESS
8	L/B	TO FRONT DOOR RH HARNESS
9	G/Y	TO FRONT DOOR RH HARNESS
10	-	TO FRONT DOOR RH HARNESS



Terminal No.	Color of Wire	Signal Name
1	B/W	TO FRONT DOOR RH HARNESS
2	B	TO FRONT DOOR RH HARNESS
3	W/L	TO FRONT DOOR RH HARNESS
4	V	TO FRONT DOOR RH HARNESS
5	W/B	TO FRONT DOOR RH HARNESS
6	G/Y	TO FRONT DOOR RH HARNESS
7	W/B	TO FRONT DOOR RH HARNESS
8	L/B	TO FRONT DOOR RH HARNESS
9	G/Y	TO FRONT DOOR RH HARNESS
10	-	TO FRONT DOOR RH HARNESS



# POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

## POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
-129	RG	BATTERY SAVER OUT
-130	LG	SUPER LOCK/DOOR UNLOCK AS
-131	W	BAT_BOM_FUSE
-132	Y	DOOR LOCK AS/FR/RL
-133	BR	DOOR UNLOCK AS/FR/RL
-134	B	GND2
-135	O	DOOR LOCK DR/AS/FL
-136	L	ROOM LAMP CONT
-137	V	DOOR UNLOCK DR/AS/FL
-138	V	BAT REAR DOOR
-139	W	BAT-POWER FL
-140	LG	P/W POWER SUPPLY GN
-141	V	P/W POWER SUPPLY BAT
-142	Y	BAT FRONT DOOR
-143	B	GND1

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# DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORK FLOW

#### Work Flow

INFOID:000000014391126

#### OVERALL SEQUENCE



#### DETAILED FLOW

# 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 is 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-51, "DTC Inspection Priority Chart"](#) (BCM) and determine trouble diagnosis order.

### NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included in Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.

If the result of Component Function Check is NG, it is the same as the detection of a DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to [GI-47, "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 according to [GI-47, "Intermittent Incident"](#).

A

## 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.

B

C

D

>> GO TO 9.

E

## 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.

F

### Is DTC detected and does symptom remain?

G

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

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

H

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

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## **ADDITIONAL SERVICE WHEN REPLACING BCM**

< BASIC INSPECTION >

### **ADDITIONAL SERVICE WHEN REPLACING BCM**

#### **Description**

INFOID:0000000014391127

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

#### **Work Procedure**

INFOID:0000000014391128

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

&lt; DTC/CIRCUIT DIAGNOSIS &gt;

## DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM CIRCUIT

#### DTC Description

INFOID:000000014664547

##### Description

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicles are equipped with many electronic control units and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to [LAN-74, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart"](#).

#### DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
U1000	CAN COMM CIRCUIT (CAN communication circuit)	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	—
		Threshold	—
		Diagnosis delay time	2 seconds or more

#### POSSIBLE CAUSE

CAN communication system

#### FAIL-SAFE

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#### Diagnosis Procedure

INFOID:000000014664548

##### 1. SELF DIAGNOSTIC RESULT

###### CONSULT

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check "Self Diagnostic Result" mode of "BCM".
3. Check DTC.

DLK

###### Is DTC "U1000" displayed?

YES >> Refer to [LAN-53, "Trouble Diagnosis Flow Chart"](#).  
 NO-1 >> To check malfunction symptom before repair: Refer to [GI-47, "Intermittent Incident"](#).  
 NO-2 >> Confirmation after repair: Inspection End.

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# U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

## U1010 CONTROL UNIT (CAN)

### DTC Description

INFOID:000000014664549

### DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
U1010	CONTROL UNIT(CAN) (Control unit)	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	—
		Threshold	—
		Diagnosis delay time	2 seconds or more

### POSSIBLE CAUSE

- BCM

### FAIL-SAFE

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### Diagnosis Procedure

INFOID:000000014664550

#### 1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

## B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

### B2621 INSIDE ANTENNA

#### DTC Description

INFOID:0000000014391133

#### DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2621	INSIDE ANTENNA	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	BCM terminals 123,124
		Threshold	An excessive high or low voltage from inside antenna (instrument center) is sent to BCM
		Diagnosis delay time	—

#### POSSIBLE CAUSE

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

#### FAIL-SAFE

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#### DTC CONFIRMATION PROCEDURE

##### 1. PERFORM DTC CONFIRMATION PROCEDURE

###### CONSULT

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

###### Is inside key antenna DTC detected?

YES >> Refer to [DLK-77, "Diagnosis Procedure"](#).

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

#### Diagnosis Procedure

INFOID:0000000014391134

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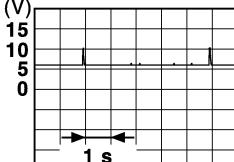
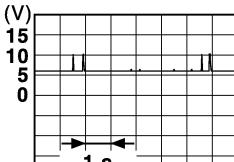
Regarding Wiring Diagram information, refer to [DLK-39, "Wiring Diagram"](#).

##### 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

# B2621 INSIDE ANTENNA

## < DTC/CIRCUIT DIAGNOSIS >

Connector	Terminal	(-)	Condition	Signal (Reference value)
M80	123, 124	Ground	When Intelligent Key is in the antenna detection area.	 <small>JMKIA3839GB</small>
			When Intelligent Key is not in the antenna detection area.	 <small>JMKIA5951GB</small>

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).  
 NO >> GO TO 2.

## 2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

BCM		Inside key antenna (instrument center)		Continuity
Connector	Terminal	Connector	Terminal	
M80	123	M84	1	Yes
	124		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M80	123		
	124		

Is the inspection result normal?

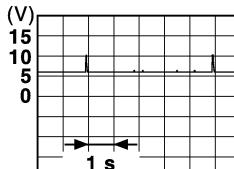
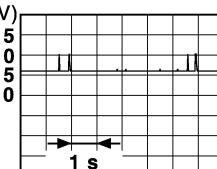
YES >> GO TO 3.  
 NO >> Repair or replace harness.

## 3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

## B2621 INSIDE ANTENNA

### < DTC/CIRCUIT DIAGNOSIS >

Connector	Terminal	(-)	Condition	Signal (Reference value)
M80	123, 124	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 (instrument center).

NO >> Replace BCM. Refer to [BCS-79. "Removal and Installation"](#).

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## B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

### B2622 INSIDE ANTENNA

#### DTC Description

INFOID:0000000014391135

#### DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2622	INSIDE ANTENNA	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	BCM terminals 116, 128
		Threshold	An excessive high or low voltage from inside antenna (console) is sent to BCM
		Diagnosis delay time	—

#### POSSIBLE CAUSE

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

#### FAIL-SAFE

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#### DTC CONFIRMATION PROCEDURE

##### 1. PERFORM DTC CONFIRMATION PROCEDURE

###### CONSULT

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

Is inside key antenna DTC detected?

YES >> Refer to [DLK-80, "Diagnosis Procedure"](#).

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

#### Diagnosis Procedure

INFOID:0000000014391136

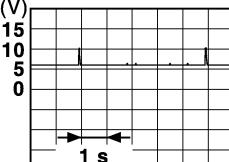
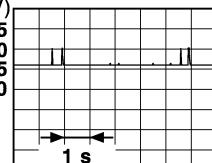
Regarding Wiring Diagram information, refer to [DLK-39, "Wiring Diagram"](#).

##### 1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

# B2622 INSIDE ANTENNA

## < DTC/CIRCUIT DIAGNOSIS >

Connector	Terminal	(+)	(-)	Condition	Signal (Reference value)
M80	116, 128		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-79, "Removal and Installation"](#).

NO >> GO TO 2.

## 2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

BCM		Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	
M80	116	M85	1	Yes
	128		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M80	116		
	128		

Is the inspection result normal?

YES >> GO TO 3.

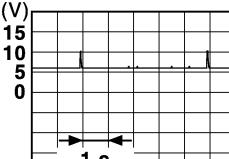
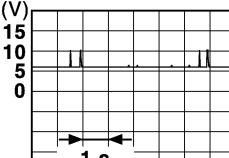
NO >> Repair or replace harness.

## 3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

## B2622 INSIDE ANTENNA

### < DTC/CIRCUIT DIAGNOSIS >

Connector	Terminal	(+)	(-)	Condition	Signal (Reference value)
M80	116, 128		BCM	When Intelligent Key is in the antenna detection area.	 <small>JMKIA3839GB</small>
			Ground	When Intelligent Key is not in the antenna detection area.	 <small>JMKIA5951GB</small>

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to [DLK-192, "CONSOLE : Removal and Installation"](#).  
 NO >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

# B26FD SHIFT LOCK SOLENOID

< DTC/CIRCUIT DIAGNOSIS >

## B26FD SHIFT LOCK SOLENOID

### DTC Description

INFOID:0000000014391137

### DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B26FD	SHIFT LOCK SOLENOID	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	BCM terminal 108
		Threshold	BCM shift lock solenoid output control is OFF, but shift lock solenoid output feedback is ON
		Diagnosis delay time	1 second

### POSSIBLE CAUSE

- Shift lock solenoid
- Harness or connector
- Shift lock solenoid circuit is open or shorted

### FAIL-SAFE

### DTC CONFIRMATION PROCEDURE

#### 1. PERFORM DTC CONFIRMATION PROCEDURE

##### CONSULT

- Turn ignition switch ON.
- Check "Self Diagnostic Result" mode of "BCM".

##### Is DTC detected?

YES >> Refer to [DLK-83, "Diagnosis Procedure"](#).  
NO >> Shift lock solenoid is OK.

### Diagnosis Procedure

INFOID:0000000014391138

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Regarding Wiring Diagram information, refer to [DLK-39, "Wiring Diagram"](#).

#### 1. CHECK HARNESS BETWEEN BCM AND A/T SHIFT SELECTOR FOR OPEN

- Disconnect A/T shift selector and BCM.
- Check continuity between BCM and A/T shift selector.

BCM		A/T shift selector		Continuity
Connector	Terminal	Connector	Terminal	
M18	108	M68	3	Yes

##### Is the inspection result normal?

YES >> GO TO 2.  
NO >> Repair or replace damaged parts.

#### 2. CHECK HARNESS BETWEEN BCM AND A/T SHIFT SELECTOR FOR SHORT CIRCUIT

Check continuity between BCM and ground.

BCM		Ground	Continuity
Connector	Terminal		
M18	108		No

## B26FD SHIFT LOCK SOLENOID

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

### 3. CHECK GROUND CIRCUIT (A/T SHIFT SELECTOR)

Check continuity between A/T shift selector and ground.

A/T shift selector		Ground	Continuity
Connector	Terminal		
M68	1		Yes

Is the inspection result normal?

YES >> Replace shift lock solenoid. Refer to [TM-219, "Exploded View"](#).

NO >> Repair or replace damaged parts.

< DTC/CIRCUIT DIAGNOSIS >

## B26FE HOOD SWITCH

### DTC Description

INFOID:0000000014391139

#### DTC DETECTION LOGIC

##### NOTE:

- If DTC B26FE is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to [DLK-75, "DTC Description"](#).
- If DTC B26FE is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to [DLK-76, "DTC Description"](#).

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B26FE	HOOD SWITCH	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	IPDM E/R terminals 71,46
		Threshold	BCM detects that the hood switch input is malfunctioning
		Diagnosis delay time	3 seconds

#### POSSIBLE CAUSE

- Hood switch
- Harness or connector  
[hood switch circuit is open or shorted]

#### FAIL-SAFE

#### DTC CONFIRMATION PROCEDURE

##### 1. PERFORM DTC CONFIRMATION PROCEDURE

###### CONSULT

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

###### Is DTC detected?

YES >> Refer to [DLK-85, "Diagnosis Procedure"](#).

NO >> Hood switch is OK.

#### Diagnosis Procedure

INFOID:0000000014391140

Regarding Wiring Diagram information, refer to [DLK-39, "Wiring Diagram"](#).

##### 1. CHECK HOOD SWITCH SIGNAL CIRCUITS

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

( + )		(-)	Voltage (Approx.)
Hood switch			
Connector	Terminal		
E94	3	Ground	Battery voltage
	2		

###### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# B26FE HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## 2. CHECK HOOD SWITCH SIGNAL CIRCUITS

1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector and hood switch harness connector.

IPDM E/R		Hood switch		Continuity
Connector	Terminal	Connector	Terminal	
E130	71	E94	3	Yes
E122	46		2	

3. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R		Ground	Continuity
Connector	Terminal		
E130	71	Ground	No
E122	46		

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to [PCS-43, "Removal and Installation of IPDM E/R"](#).

NO >> Repair or replace harness.

## 3. CHECK HOOD SWITCH GROUND CIRCUIT

Check continuity between hood switch harness connector and ground.

Hood switch		Ground	Continuity
Connector	Terminal		
E94	1		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK HOOD SWITCH

Refer to [DLK-86, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace hood switch. Refer to [DLK-170, "HOOD LOCK : Removal and Installation"](#).

## 5. CHECK BCM CONFIGURATION

Refer to [BCS-64, "CONFIGURATION \(BCM\) : Configuration List"](#).

>> Inspection End.

## Component Inspection

INFOID:0000000014391141

### 1. CHECK HOOD SWITCH

1. Turn ignition switch OFF.
2. Disconnect hood switch connector.
3. Check continuity between hood switch terminals.

Hood switch		Condition	Continuity
Terminal			
3	1	Hood switch	Press
			Release
			Press
			Release

## B26FE HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES    >> Inspection End.

NO    >> Replace hood switch. Refer to [DLK-170, "HOOD LOCK : Removal and Installation".](#)

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# B26FF REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

## B26FF REMOTE KEYLESS ENTRY RECEIVER

### DTC Description

INFOID:0000000014391142

### DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B26FF	INTELLIGENT TUNER COMMUNICATION FAIL	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	BCM terminal 119
		Threshold	Inactive communication between BCM and remote keyless entry receiver
		Diagnosis delay time	—

### POSSIBLE CAUSE

- Remote keyless entry receiver
- Harness or connector
- BCM

### FAIL-SAFE

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### DTC CONFIRMATION PROCEDURE

#### 1. PERFORM DTC CONFIRMATION PROCEDURE

##### CONSULT

1. Turn ignition switch ON.
2. Check DTC in "Self Diagnostic Result" mode of "BCM".

##### Is DTC detected?

YES >> Refer to [DLK-88, "Diagnosis Procedure"](#).

NO >> Inspection End.

### Diagnosis Procedure

INFOID:0000000014391143

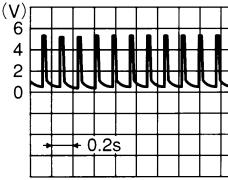
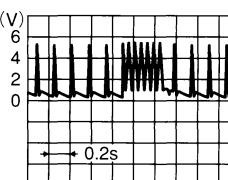
Regarding Wiring Diagram information, refer to [DLK-39, "Wiring Diagram"](#).

#### 1. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

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

# B26FF REMOTE KEYLESS ENTRY RECEIVER

## < DTC/CIRCUIT DIAGNOSIS >

Connector	Terminal	(-)	Condition	Signal (Reference value)
M80	119	Ground	Standby state	 OCC3881D
			Press the Intelligent Key lock or unlock button.	 OCC3880D

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

NO >> GO TO 2.

## 2. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

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

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M80	119	M86	2	Yes

3. Check continuity between BCM harness connector and ground.

(+)	(-)	Continuity
BCM		
M80	119	Ground

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

Check voltage between remote keyless entry receiver harness connector and ground.

(+)	(-)	Voltage (Approx)
Remote keyless entry receiver		
Connector	Terminal	
M86	1	Ground
		Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO-1 >> Check 5A fuse No. 9 [located in fuse block J/B].

NO-2 >> Repair or replace harness between remote keyless entry receiver and 5A fuse No. 9.

## 4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

## B26FF REMOTE KEYLESS ENTRY RECEIVER

### < DTC/CIRCUIT DIAGNOSIS >

Check continuity between remote keyless entry receiver harness connector and ground.

Remote keyless entry receiver		Ground	Continuity
Connector	Terminal		
M86	3		Yes

Is the inspection result normal?

YES    >> Replace remote keyless entry receiver. Refer to [DLK-197, "Removal and Installation"](#).

NO    >> Repair or replace harness.

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## POWER SUPPLY AND GROUND CIRCUIT BCM

### BCM : Diagnosis Procedure

INFOID:000000014664551

Regarding Wiring Diagram information, refer to [BCS-54, "Wiring Diagram"](#).

#### 1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.	
	Cummins 5.0L	VK56VD
Fusible link battery power	R (50A)	N (50A)
BCM battery fuse	1 (10A)	1 (10A)

Is the fuse or fusible link 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 M81.
2. Check voltage between BCM connector M81 terminals 131, 139 and ground.

BCM		Ground	Voltage (Approx.)
Connector	Terminal		
M81	131	(-)	Battery voltage
	139		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connectors.

#### 3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M81 terminals 134, 143 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M81	134	—	Yes
	143		

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair or replace harness or connectors.

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# B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

## B2626 OUTSIDE ANTENNA

### DTC Description

INFOID:0000000014391145

### DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2626	OUTSIDE ANTENNA (Outside antenna)	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	BCM terminals 114,115
		Threshold	An excessive high or low voltage from outside key antenna RH is sent to BCM
		Diagnosis delay time	—

### POSSIBLE CAUSE

- BCM
- Outside key antenna RH
- Harness or connector (Outside key antenna RH circuit is open or shorted.)

### FAIL-SAFE

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### DTC CONFIRMATION PROCEDURE

#### 1. PERFORM DTC CONFIRMATION PROCEDURE

##### CONSULT

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

##### Is DTC detected?

YES >> Refer to [DLK-92, "Diagnosis Procedure"](#).  
NO-1 >> To check malfunction symptom before repair: Refer to [GI-47, "Intermittent Incident"](#).  
NO-2 >> Confirmation after repair: Inspection End.

### Diagnosis Procedure

INFOID:0000000014391146

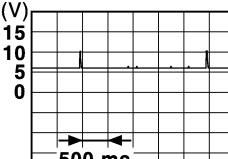
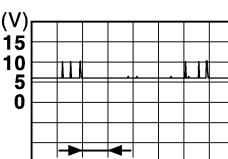
Regarding Wiring Diagram information, refer to [DLK-39, "Wiring Diagram"](#).

#### 1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

# B2626 OUTSIDE ANTENNA

## < DTC/CIRCUIT DIAGNOSIS >

Connector	Terminal	(-)	Condition	Signal (Reference value)	
				(+)	BCM
				Terminal	Condition
M80	114, 115	Ground	When the driver door request switch is operated with ignition switch OFF.	When Intelligent Key is in the antenna detection area. (The distance between Intelligent Key and antenna: 80 cm or less.)	 <small>JMKIA5955GB</small>
				When Intelligent Key is not in the antenna detection area. (The distance between Intelligent Key and antenna: Approx. 2 m.)	 <small>JMKIA5954GB</small>

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

NO >> GO TO 2.

## 2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

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

BCM		Outside key antenna (RH)		Continuity
Connector	Terminal	Connector	Terminal	
M80	114	D116	1	Yes
	115		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M80	114		No
	115		

Is the inspection result normal?

YES >> GO TO 3.

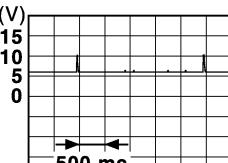
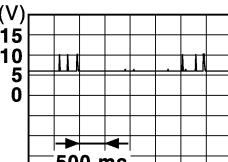
NO >> Repair or replace harness.

## 3.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

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

## B2626 OUTSIDE ANTENNA

### < DTC/CIRCUIT DIAGNOSIS >

Connector	Terminal	(-)	Condition	Signal (Reference value)	
				(+)	(V)
				BCM	0
M80	114, 115	Ground	When the driver door request switch is operated with ignition switch OFF.	When Intelligent Key is in the antenna detection area. (The distance between Intelligent Key and antenna: 80 cm or less.)	 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 outside key antenna (RH). Refer to [DLK-194, "OUTSIDE HANDLE : Removal and Installation".](#)

NO    >> Replace BCM. Refer to [BCS-79, "Removal and Installation".](#)

# B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

## B2627 OUTSIDE ANTENNA

### DTC Description

INFOID:0000000014391147

### DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2627	OUTSIDE ANTENNA	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	BCM terminals 121,122
		Threshold	An excessive high or low voltage from outside key antenna LH is sent to BCM
		Diagnosis delay time	—

### POSSIBLE CAUSE

- BCM
- Outside key antenna LH
- Harness or connector (Outside key antenna LH circuit is open or shorted.)

### FAIL-SAFE

—

### DTC CONFIRMATION PROCEDURE

#### 1. PERFORM DTC CONFIRMATION PROCEDURE

##### CONSULT

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

##### Is DTC detected?

YES >> Refer to [DLK-95, "DTC Description"](#).

NO-1 >> To check malfunction symptom before repair: Refer to [GI-47, "Intermittent Incident"](#).

NO-2 >> Confirmation after repair: Inspection End.

### Diagnosis Procedure

INFOID:0000000014391148

DLK

Regarding Wiring Diagram information, refer to [DLK-39, "Wiring Diagram"](#).

#### 1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

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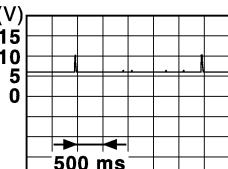
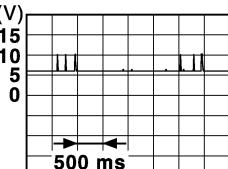
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# B2627 OUTSIDE ANTENNA

## < DTC/CIRCUIT DIAGNOSIS >

Connector	Terminal	(+)	(-)	Condition	Signal (Reference value)
M80	121, 122	Ground		When Intelligent Key is in the antenna detection area. (The distance between Intelligent Key and antenna: 80 cm or less.)	 JMKIA5955GB
				When the driver door request switch is operated with ignition switch OFF.	 JMKIA5954GB

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

NO >> GO TO 2.

## 2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

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

BCM		Outside key antenna (LH)		Continuity
Connector	Terminal	Connector	Terminal	
M80	122	D15	1	Yes
	121		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M80	122		
	121		

Is the inspection result normal?

YES >> GO TO 3.

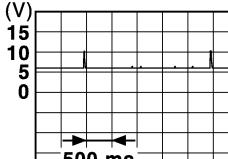
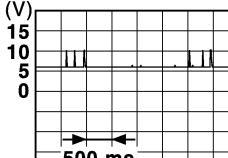
NO >> Repair or replace harness.

## 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. Check signal between BCM harness connector and ground using oscilloscope.

## B2627 OUTSIDE ANTENNA

### < DTC/CIRCUIT DIAGNOSIS >

Connector	Terminal	(+) BCM	(-)	Condition	Signal (Reference value)
M80	122, 121	Ground		When Intelligent Key is in the antenna detection area. (The distance between Intelligent Key and antenna: 80 cm or less.)	 <small>JMKIA5955GB</small>
				When the driver door request switch is operated with ignition switch OFF.	 <small>JMKIA5954GB</small>
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 outside key antenna (LH). Refer to [DLK-194, "OUTSIDE HANDLE : Removal and Installation"](#).  
 NO >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

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# DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## DOOR SWITCH

### Component Function Check

INFOID:0000000014391149

#### 1. CHECK FUNCTION

##### CONSULT

1. Select "DOOR LOCK" of "BCM".
2. Select "DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL" or "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-98, "Diagnosis Procedure"](#).

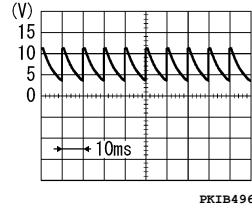
### Diagnosis Procedure

INFOID:0000000014391150

Regarding Wiring Diagram information, refer to [DLK-39, "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.

(+) Door switch		(-)	Signal (Reference value)
Connector	Terminal		
Front LH	B8	3	 7.0 - 8.0 V
Front RH	B108		
Rear LH	B18		
Rear RH	B116		

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 LH	B8	3	M20	96
Front RH	B108			94
Rear LH	B18			82
Rear RH	B116			93

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

Door switch		Ground	Continuity
Connector	Terminal		
Front LH	B8		No
Front RH	B108		
Rear LH	B18		
Rear RH	B116		Yes

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

NO >> Repair or replace harness.

## 3.CHECK DOOR SWITCH

Refer to [DLK-99, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch. Refer to [DLK-191, "Removal and Installation"](#).

## 4.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> Inspection End.

## Component Inspection

INFOID:000000014391151

DLK

### 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			
3	Ground contact is part of the switch.	Door switch	Pressed
			Released

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch. Refer to [DLK-191, "Removal and Installation"](#).

# DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## DOOR LOCK AND UNLOCK SWITCH

### DRIVER SIDE

#### DRIVER SIDE : Component Function Check

INFOID:0000000014391152

##### 1. CHECK FUNCTION

###### ④ CONSULT

1. Select "DOOR LOCK" of "BCM".
2. Select "CDL LOCK SW" or "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	Lock	ON
	Unlock	OFF
CDL UNLOCK SW	Lock	OFF
	Unlock	ON

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to [DLK-100, "DRIVER SIDE : Diagnosis Procedure"](#).

#### DRIVER SIDE : Diagnosis Procedure

INFOID:0000000014391153

##### 1. CHECK POWER WINDOW SWITCH

1. Turn ignition switch ON.
2. Check power window operation.

Does power window operate?

YES >> Replace power window main switch. Refer to [PWC-77, "Removal and Installation"](#).

NO >> Refer to [PWC-36, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

### PASSENGER SIDE

#### PASSENGER SIDE : Component Function Check

INFOID:0000000014391154

##### 1. CHECK FUNCTION

###### ④ CONSULT

1. Select "DOOR LOCK" of "BCM".
2. Select "CDL LOCK SW" or "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	Lock	ON
	Unlock	OFF
CDL UNLOCK SW	Lock	OFF
	Unlock	ON

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to [DLK-100, "PASSENGER SIDE : Diagnosis Procedure"](#).

#### PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000014391155

##### 1. CHECK POWER WINDOW SWITCH

1. Turn ignition switch ON.
2. Check power window operation.

Does power window operate?

## DOOR LOCK AND UNLOCK SWITCH

### < DTC/CIRCUIT DIAGNOSIS >

YES    >> Replace front power window switch (passenger side). Refer to [PWC-79, "Removal and Installation".](#)

NO    >> Refer to [PWC-38, "FRONT POWER WINDOW SWITCH \(PASSENGER SIDE\) : Diagnosis Procedure".](#)

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# DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

## DOOR LOCK ACTUATOR

### DRIVER SIDE

#### DRIVER SIDE : Component Function Check

INFOID:000000014391156

##### 1. CHECK FUNCTION

###### ① CONSULT

1. Select "DOOR LOCK" of "BCM".
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-102, "DRIVER SIDE : Diagnosis Procedure"](#).

#### DRIVER SIDE : Diagnosis Procedure

INFOID:000000014391157

Regarding Wiring Diagram information, refer to [DLK-56, "Wiring Diagram"](#).

##### 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
D14	1	Ground	Door lock and unlock switch	Lock	Battery voltage
	2			Unlock	

Is the inspection result normal?

YES >> Replace front door lock assembly LH. Refer to [DLK-172, "DOOR LOCK : Removal and Installation"](#).

NO >> GO TO 2.

##### 2. CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	
M81	135	D14	1	Yes
	137		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M81	135		
	137		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

## 3. CHECK BCM OUTPUT SIGNAL

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

Connector	Terminal	(+)	(-)	Condition	Voltage (Approx.)
M81	135	Ground	Door lock and unlock switch	Lock	Battery voltage
	137			Unlock	

Is the inspection result normal?

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

NO >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

## PASSENGER SIDE

### PASSENGER SIDE : Component Function Check

INFOID:0000000014391158

#### 1. CHECK FUNCTION

##### CONSULT

1. Select "DOOR LOCK" of "BCM".
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-103, "PASSENGER SIDE : Diagnosis Procedure"](#).

### PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000014391159

Regarding Wiring Diagram information, refer to [DLK-56, "Wiring Diagram"](#).

#### 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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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.

Connector	Terminal	(+)	(-)	Condition	Voltage (Approx.)
D114	1	Ground	Door lock and unlock switch	Unlock	Battery voltage
	2			Lock	

Is the inspection result normal?

YES >> Replace front door lock actuator RH. Refer to [DLK-172, "DOOR LOCK : Removal and Installation"](#).

NO >> GO TO 2.

#### 2. CHECK DOOR LOCK ACTUATOR CIRCUIT

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

# DOOR LOCK ACTUATOR

## < DTC/CIRCUIT DIAGNOSIS >

BCM		Front door lock actuator RH		Continuity
Connector	Terminal	Connector	Terminal	
M81	130	D114	1	Yes
	132		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M81	130		
	132		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3.CHECK BCM OUTPUT SIGNAL

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

(+) BCM		(-)	Condition	Voltage (Approx.)
Connector	Terminal			
M81	130	Ground	Door lock and unlock switch	Unlock
	132			Lock

Is the inspection result normal?

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

NO >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

## REAR LH

### REAR LH : Component Function Check

INFOID:0000000014391160

#### 1.CHECK FUNCTION

##### CONSULT

1. Select "DOOR LOCK" of "BCM".
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-104, "REAR LH : Diagnosis Procedure"](#).

### REAR LH : Diagnosis Procedure

INFOID:0000000014391161

Regarding Wiring Diagram information, refer to [DLK-56, "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.

# DOOR LOCK ACTUATOR

## < DTC/CIRCUIT DIAGNOSIS >

(+)		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
D205	1	Ground	Door lock and unlock switch	Lock	Battery voltage
	2			Unlock	

Is the inspection result normal?

YES >> Replace rear door lock actuator LH. Refer to [DLK-177, "DOOR LOCK : Removal and Installation".](#)  
 NO >> GO TO 2.

## 2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and all door lock actuators.
2. 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	
M81	133	D205	2	Yes
	132		1	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M81	133		Yes
	132		

Is the inspection result normal?

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

## 3.CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition		Voltage (Approx.)
BCM	Terminal		Door lock and unlock switch	Unlock	
M81	133	Ground	Door lock and unlock switch	Unlock	Battery voltage
	132			Lock	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.  
 NO >> Replace BCM. Refer to [BCS-79, "Removal and Installation".](#)

## REAR RH

### REAR RH : Component Function Check

INFOID:0000000014391162

#### 1.CHECK FUNCTION

##### CONSULT

1. Select "DOOR LOCK" of "BCM".
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-106, "REAR RH : Diagnosis Procedure".](#)

# DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

REAR RH : Diagnosis Procedure

INFOID:000000014391163

Regarding Wiring Diagram information, refer to [DLK-56, "Wiring Diagram"](#).

## 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(-)	Condition		Voltage (Approx.)
Connector	Terminal		Door lock and unlock switch	Unlock	
D305	1	Ground	Door lock and unlock switch	Unlock	Battery voltage
	2			Lock	

Is the inspection result normal?

YES >> Replace rear door lock actuator RH. Refer to [DLK-177, "DOOR LOCK : Removal and Installation"](#).  
NO >> GO TO 2.

## 2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM and all door lock actuators.
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	
M81	133	D305	1	Yes
	132		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M81	133		Yes
	132		

Is the inspection result normal?

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

## 3. CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Condition		Voltage (Approx.)
BCM	Terminal		Door lock and unlock switch	Unlock	
M81	133	Ground	Door lock and unlock switch	Unlock	Battery voltage
	132			Lock	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.  
NO >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

TAILGATE LOCK

# DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

## TAILGATE LOCK : Component Function Check

INFOID:000000014718284

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### 1. CHECK FUNCTION

#### CONSULT

1. Select "DOOR LOCK" of "BCM".
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 >> Tailgate lock actuator is OK.

NO >> Refer to [DLK-107, "TAILGATE LOCK : Diagnosis Procedure"](#).

## TAILGATE LOCK : Diagnosis Procedure

INFOID:000000014718285

D

Regarding Wiring Diagram information, refer to [DLK-56, "Wiring Diagram"](#).

E

### 1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

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(+)		(-)	Condition		Voltage (Approx.)
Connector	Terminal		Door lock and unlock switch	Unlock	
C153	1	Ground	Door lock and unlock switch	Unlock	Battery voltage
	2			Lock	

Is the inspection result normal?

YES >> Replace tailgate lock actuator. Refer to [DLK-177, "DOOR LOCK : Removal and Installation"](#).  
NO >> GO TO 2.

### 2. CHECK BCM OUTPUT SIGNAL

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

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(+)		(-)	Condition		Voltage (Approx.)
Connector	Terminal		Door lock and unlock switch	Unlock	
M81	132	Ground	Door lock and unlock switch	Unlock	Battery voltage
	130			Lock	

Is the inspection result normal?

YES >> Repair or replace harness between BCM and tailgate lock actuator.  
NO >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

# UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

## UNLOCK SENSOR

### Component Function Check

INFOID:0000000014391164

#### 1. CHECK FUNCTION

##### CONSULT

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

Monitor Item	Condition		Status
UNLK SEN -DR	Driver side door	Lock	OFF
		Unlock	ON

Is the inspection result normal?

YES >> Unlock sensor is OK.

NO >> Refer to [DLK-108, "Diagnosis Procedure"](#).

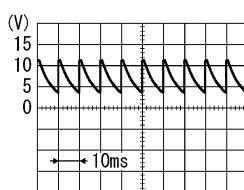
### Diagnosis Procedure

INFOID:0000000014391165

Regarding Wiring Diagram information, refer to [DLK-56, "Wiring Diagram"](#).

#### 1. CHECK UNLOCK SENSOR INPUT SIGNAL

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

Connector	Terminal	(-)	Signal (Reference value)
D14	3	Ground	 PKIB4960J

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

#### 2. CHECK UNLOCK SENSOR CIRCUIT

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

BCM	Front door lock assembly LH		Continuity	
Connector	Terminal	Connector	Terminal	
M18	30	D14	3	Yes

3. Check continuity between BCM harness connector and ground.

# UNLOCK SENSOR

## < DTC/CIRCUIT DIAGNOSIS >

BCM		Ground	Continuity
Connector	Terminal		
M18	30		No

### Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

NO >> Repair or replace harness.

## 3. CHECK UNLOCK SENSOR GROUND CIRCUIT

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

Front door lock assembly LH		Ground	Continuity
Connector	Terminal		
D14	4		Yes

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK UNLOCK SENSOR

Refer to [DLK-109, "Component Inspection"](#).

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly LH. Refer to [DLK-172, "DOOR LOCK : Removal and Installation"](#).

## 5. CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> Inspection End.

## Component Inspection

INFOID:000000014391166

DLK

## 1. CHECK UNLOCK SENSOR

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

Front door lock assembly LH		Condition	Continuity
Terminal			
3	4	Driver side door	Unlock
			Lock

### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front door lock assembly LH. Refer to [DLK-172, "DOOR LOCK : Removal and Installation"](#).

# DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## DOOR KEY CYLINDER SWITCH

### Component Function Check

INFOID:0000000014391167

#### 1. CHECK FUNCTION

##### ④ CONSULT

1. Select "DOOR LOCK" of "BCM".
2. Select "KEY CYL LK-SW" or "KEY CYL UN-SW" in "Data Monitor" mode.
3. Check that the function operates normally according to the following conditions:

Monitor Item	Condition	Status
KEY CYL LK-SW	Lock	ON
	Neutral / Unlock	OFF
KEY CYL UN-SW	Unlock	ON
	Neutral / Lock	OFF

Is the inspection result normal?

YES >> Door key cylinder switch is OK.  
NO >> Refer to [DLK-110, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000014391168

Regarding Wiring Diagram information, refer to [DLK-56, "Wiring Diagram"](#).

#### 1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Connector	Terminal		
D14	5	Ground	5 V
	6		

Is the inspection result normal?

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

#### 2. CHECK DOOR KEY CYLINDER SWITCH SIGNAL CIRCUIT

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

Main power window and door lock/unlock switch		Front door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	
D7	3	D14	6	Yes
	15		5	

3. Check continuity between power window main switch harness connector and ground.

# DOOR KEY CYLINDER SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

Main power window and door lock/unlock switch		Ground	Continuity
Connector	Terminal		Continuity
D7	3		No
	15		

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-77, "Removal and Installation".](#)

NO >> Repair or replace harness.

## 3. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

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

Front door lock assembly LH		Ground	Continuity
Connector	Terminal		Continuity
D14	4		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4. CHECK DOOR KEY CYLINDER SWITCH

Refer to [DLK-111, "Component Inspection".](#)

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly LH. Refer to [DLK-172, "DOOR LOCK : Removal and Installation".](#)

## 5. CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident".](#)

>> Inspection End.

## Component Inspection

INFOID:000000014391169

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## 1. CHECK DOOR KEY CYLINDER SWITCH

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

Front door lock assembly LH		Driver side door key cylinder	Condition		Continuity	
Terminal			Unlock		Yes	
5	4		Neutral / Lock		No	
6			Lock		Yes	
			Neutral / Unlock		No	

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front door lock assembly LH. Refer to [DLK-172, "DOOR LOCK : Removal and Installation".](#)

# REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

## REMOTE KEYLESS ENTRY RECEIVER

### Component Function Check

INFOID:0000000014391170

#### 1. CHECK FUNCTION

##### CONSULT

1. Select "INTELLIGENT KEY" of "BCM".
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-112, "Diagnosis Procedure"](#).

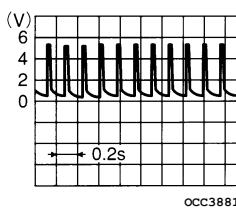
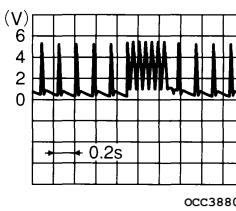
### Diagnosis Procedure

INFOID:0000000014391171

Regarding Wiring Diagram information, refer to [DLK-39, "Wiring Diagram"](#).

#### 1. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

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

Connector	Terminal	(-)	Condition	Signal (Reference value)
M80	119	Ground	Standby state	 OCC3881D
			Press the Intelligent Key lock or unlock button.	 OCC3880D

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).  
NO >> GO TO 2.

#### 2. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

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

# REMOTE KEYLESS ENTRY RECEIVER

## < DTC/CIRCUIT DIAGNOSIS >

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M80	119	M86	2	Yes

3. Check continuity between BCM harness connector and ground.

(+)		(-)	Continuity
BCM			
Connector	Terminal		
M80	119	Ground	No

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

Check voltage between remote keyless entry receiver harness connector and ground.

(+)		(-)	Voltage (Approx.)
Remote keyless entry receiver			
Connector	Terminal		
M86	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 4.

NO-1 >> Check 5A fuse No. 9 [located in fuse block J/B].

NO-2 >> Repair or replace harness between remote keyless entry receiver and 5A fuse No. 9.

## 4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

Check continuity between remote keyless entry receiver harness connector and ground.

Remote keyless entry receiver		Ground	Continuity
Connector	Terminal		
M86	3		Yes

Is the inspection result normal?

YES >> Replace remote keyless entry receiver. Refer to [DLK-197, "Removal and Installation"](#).

NO >> Repair or replace harness.

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# DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## DOOR REQUEST SWITCH

### Component Function Check

INFOID:0000000014391172

#### 1. CHECK FUNCTION

##### CONSULT

1. Select "INTELLIGENT KEY" of "BCM".
2. Select "REQ SW-DR" or "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	Pressed	ON
	Released	OFF
REQ SW -AS	Pressed	ON
	Released	OFF

Is the inspection result normal?

YES >> Front door request switch is OK.  
NO >> Refer to [DLK-114, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000014391173

Regarding Wiring Diagram information, refer to [DLK-39, "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.

(+)		(-)	Voltage (Approx.)
Front door request switch			
Connector	Terminal		
LH	D15	3	Ground
RH	D116		Battery voltage

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	
LH	D15	M19	71	Yes
	D116		72	

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

# DOOR REQUEST SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

Front door request switch			Ground	Continuity	
Connector		Terminal			
LH	D15	3			
RH	D116	No			

### Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "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			
LH	D15	4			
RH	D116	Yes			

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

## 4.CHECK DOOR REQUEST SWITCH

Refer to [DLK-115, "Component Inspection"](#).

### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front outside handle assembly. Refer to [DLK-174, "OUTSIDE HANDLE : Removal and Installation"](#).

## 5.CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> Inspection End.

## Component Inspection

INFOID:000000014391174

DLK

## 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		Door request switch	Pressed	Yes	
3			Released	No	

### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning front door request switch. Refer to [DLK-195, "DRIVER SIDE : Removal and Installation"](#) or [DLK-195, "PASSENGER SIDE : Removal and Installation"](#).

# INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

## INTELLIGENT KEY WARNING BUZZER

### Component Function Check

INFOID:0000000014391175

#### 1. CHECK FUNCTION

##### CONSULT

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

Is the inspection result normal?

YES >> Intelligent Key warning buzzer is OK.  
NO >> Refer to [DLK-116, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000014391176

Regarding Wiring Diagram information, refer to [DLK-39, "Wiring Diagram"](#).

#### 1. CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT

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

BCM		Intelligent Key warning buzzer		Continuity
Connector	Terminal	Connector	Terminal	
M19	64	E1	3	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M19	64		No

Is the inspection result normal?

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

#### 2. CHECK INTELLIGENT KEY WARNING BUZZER

Refer to [DLK-116, "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).  
NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-196, "Removal and Installation"](#).

### Component Inspection

INFOID:0000000014391177

#### 1. CHECK INTELLIGENT KEY WARNING BUZZER

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

Intelligent Key warning buzzer		Operation
Terminal		
(+)	(-)	
1	3	Buzzer sounds

Is the inspection result normal?

## INTELLIGENT KEY WARNING BUZZER

### < DTC/CIRCUIT DIAGNOSIS >

YES    >> Inspection End.

NO    >> Replace Intelligent Key warning buzzer. Refer to [DLK-196, "Removal and Installation"](#).

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### INTELLIGENT KEY

#### Component Function Check

INFOID:0000000014391178

##### 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

##### CONSULT

1. Select "INTELLIGENT KEY" of "BCM".
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 the Intelligent Key.

##### Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Refer to [DLK-118, "Diagnosis Procedure"](#).

#### Diagnosis Procedure

INFOID:0000000014391179

##### 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

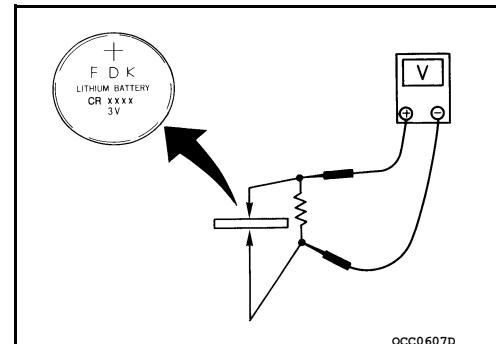
Check by connecting a resistance (approximately  $300\Omega$ ) so that the current value becomes about 10 mA. Refer to [DLK-198, "Removal and Installation"](#).

**Standard : Approx. 2.5 - 3.0V**

##### Is the measurement value within the standard?

YES >> Replace Intelligent Key.

NO >> Replace Intelligent Key battery.



# METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## METER BUZZER CIRCUIT

### Description

INFOID:0000000014391180

- The buzzer for the warning chime system is installed in the combination meter.
- The combination meter sounds the buzzer based on the signals transmitted from various units.

### Component Function Check

INFOID:0000000014391181

#### 1. CHECK OPERATION OF METER BUZZER

##### CONSULT

1. Select "BUZZER" of "BCM".
2. Perform "LIGHT WARN ALM" or "SEAT BELT WARN TEST" of "Active Test" mode.

##### Does meter buzzer activate?

YES >> Inspection End.

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

### Diagnosis Procedure

INFOID:0000000014391182

#### 1. CHECK COMBINATION METER INPUT SIGNAL

##### CONSULT

Select the "Data Monitor" mode of the "METER/M&A" and check the "BUZZER" monitor value.

##### BUZZER

Under the condition of buzzer input : On  
Except above : Off

##### Is the inspection result normal?

YES >> Replace combination meter. Refer to [MWI-108, "Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

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< DTC/CIRCUIT DIAGNOSIS >

## KEY WARNING LAMP

### Component Function Check

INFOID:0000000014391183

#### 1. CHECK FUNCTION

##### CONSULT

1. Select "INTELLIGENT KEY" of "BCM".
2. Select "INDICATOR" in "Active Test" mode.
3. Touch "KEY IND" or "KEY ON" to check that it works normally.

Is the inspection result normal?

YES >> Key warning lamp is OK.

NO >> Refer to [DLK-120, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000014391184

#### 1. CHECK KEY WARNING LAMP

Refer to [MWI-27, "CONSULT Function \(METER/M&A\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

#### 2. CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> Inspection End.

# HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

## HAZARD FUNCTION

### Component Function Check

INFOID:0000000014391185

#### 1. CHECK FUNCTION

##### CONSULT

1. Select “INTELLIGENT KEY” of “BCM”.
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-121, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000014391186

#### 1. CHECK HAZARD SWITCH CIRCUIT

Refer to [DLK-121, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

#### 2. CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> Inspection End.

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# HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## HOOD SWITCH

### Component Function Check

INFOID:0000000014391187

#### 1. CHECK FUNCTION

##### CONSULT

1. Select "HOOD SW" in "Data Monitor" mode of "IPDM E/R".
2. Check "HOOD SW" indication under the following conditions:

Monitor Item	Condition		Indication
HOOD SW	Hood	Open	ON
		Close	OFF

Is the indication normal?

YES >> Hood switch is OK.

NO >> Go to [DLK-122, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000014391188

Regarding Wiring Diagram information, refer to [DLK-39, "Wiring Diagram"](#).

#### 1. CHECK HOOD SWITCH SIGNAL CIRCUITS

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

(+) Hood switch		(-)	Voltage (V) (Approx.)
Connector	Terminal		
E94	3	Ground	Battery voltage
	2		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

#### 2. CHECK HOOD SWITCH SIGNAL CIRCUITS

1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector and hood switch harness connector.

IPDM E/R		Hood switch		Continuity
Connector	Terminal	Connector	Terminal	
E130	71	E94	3	Yes
E122	46		2	

3. Check continuity between IPDM E/R harness connector and ground.

IPDM E/R		Ground	Continuity
Connector	Terminal		
E130	71	Ground	Yes
E122	46		

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to [PCS-43, "Removal and Installation of IPDM E/R"](#).

# HOOD SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

### 3. CHECK HOOD SWITCH GROUND CIRCUIT

Check continuity between hood switch harness connector and ground.

Hood switch		Ground	Continuity
Connector	Terminal		
E94	1		Yes

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK HOOD SWITCH

Refer to [DLK-123, "Component Inspection"](#).

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace hood switch. Refer to [DLK-170, "HOOD LOCK : Removal and Installation"](#).

### 5. CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> Inspection End.

## Component Inspection

INFOID:0000000014391189

### 1. CHECK HOOD SWITCH

1. Turn ignition switch OFF.
2. Disconnect hood switch connector.
3. Check continuity between hood switch terminals.

Hood switch		Condition	Continuity	
Terminal				
3	1	Hood switch	Press	Yes
			Release	No
			Press	No
			Release	Yes

#### Is the inspection result normal?

YES >> Inspection End.

NO >> Replace hood switch. Refer to [DLK-170, "HOOD LOCK : Removal and Installation"](#).

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# INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

## INTEGRATED HOMELINK TRANSMITTER

### Component Function Check

INFOID:0000000014391190

#### 1.CHECK FUNCTION

Check that system receiver (garage door opener, etc.) operates with original hand-held transmitter.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Receiver or hand-held transmitter is malfunctioning.

#### 2.CHECK ILLUMINATION

1. Turn ignition switch OFF.
2. Does red light of transmitter illuminate when any transmitter button is pressed?

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to [DLK-124, "Diagnosis Procedure"](#).

#### 3.CHECK TRANSMITTER

Check transmitter with Tool\*.

\*:For details, refer to Technical Service Bulletin.

Is the inspection result normal?

YES >> Receiver or hand-held transmitter malfunction, not vehicle related.

NO >> Replace auto anti-dazzling inside mirror (HomeLink® universal transceiver). Refer to [MIR-28, "Removal and Installation"](#).

## Diagnosis Procedure

INFOID:0000000014391191

Regarding Wiring Diagram information, refer to [DLK-54, "Wiring Diagram"](#).

#### 1.CHECK POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect auto anti-dazzling inside mirror (HomeLink® universal transceiver) connector.
3. Check voltage between auto anti-dazzling inside mirror (HomeLink® universal transceiver) harness connector and ground.

Auto anti-dazzling inside mirror (HomeLink® universal transceiver) connector	Terminal		Condition	Voltage (V) (Approx.)
R7	10	Ground	Ignition switch position: OFF	Battery voltage
	5		Ignition switch position: ON	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the following items:

- 5A fuse No. 14 located in the fuse block (J/B).
- Harness for open or short between fuse and auto anti-dazzling inside mirror (HomeLink® universal transceiver).

#### 2.CHECK GROUND CIRCUIT

Check continuity between auto anti-dazzling inside mirror (HomeLink® universal transceiver) harness connector and ground.

# INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

Auto anti-dazzling inside mirror (HomeLink® universal transceiver) connector	Terminal	Ground	Continuity
R7	8		Yes

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness.

## 3. CHECK INTERMITTENT INCIDENT

Refer to [GI-47, "Intermittent Incident"](#).

>> Inspection End.

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# INTELLIGENT KEY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

### INTELLIGENT KEY SYSTEM SYMPTOMS

#### Diagnosis Procedure

INFOID:000000014391192

##### NOTE:

Perform the self-diagnosis with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

#### SYMPTOM TABLE 1 (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

No.	Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (reg- istered Intelligent Key is within the detection area of inside key an- tenna)	Engine started with push-button ignition switch operation (reg- istered Intelligent Key placed next to push- button ignition switch)	Symptom
1	OK	OK	No start	No start	<a href="#">SEC-145</a>
2	OK	NG	OK	OK	<a href="#">DLK-127</a>
3	OK	NG	No crank, No start	OK	<a href="#">DLK-129</a>
4	NG	NG	No crank, No start	OK	<a href="#">DLK-131</a>
5	NG	NG	No start	No start	<a href="#">DLK-132</a>
6	OK	OK	No crank, No start	OK	<a href="#">SEC-145</a>
7	NG	OK	OK	OK	<a href="#">DLK-134</a>
8	NG	NG	OK	OK	<a href="#">DLK-135</a>
9	Poor range	OK	OK	OK	<a href="#">DLK-136</a>

#### SYMPTOM TABLE 2 (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

No.	Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (In- telligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (reg- istered Intelligent Key placed next to push- button ignition switch)	Symptom
1	NG	OK	OK	OK	<a href="#">DLK-138</a>
2	NG	NG	No crank, No start	OK	<a href="#">DLK-139</a>
3	NG	NG	No crank, No start	No crank, No start	<a href="#">DLK-141</a>
4	OK	OK	No crank, No start	No crank, No start	<a href="#">SEC-145</a>
5	OK	NG	No crank, No start	OK	<a href="#">SEC-145</a>
6	Poor range	OK	OK	OK	<a href="#">DLK-143</a>

# ALL DOORS DO NOT LOCK/UNLOCK OR TRUNK/BACK DOOR DO NOT OPEN WITH REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

## ALL DOORS DO NOT LOCK/UNLOCK OR TRUNK/BACK DOOR DO NOT OPEN WITH REQUEST SWITCH

### Description

INFOID:0000000014391193

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

#### NOTE:

Before starting diagnosis check that vehicle condition is as shown in "Conditions of vehicle", and check each symptom.

### SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
OK	NG	OK	OK

### CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- "LOCK/UNLOCK BY I-KEY" setting in "Work support" mode of "INTELLIGENT KEY" of "BCM" is ON.
- Registered Intelligent Key is within the detection area of outside key antenna.

### DIAGNOSIS PROCEDURE

Refer to [DLK-127, "Diagnosis Procedure".](#)

### Diagnosis Procedure

INFOID:0000000014391194

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure".](#)

>> GO TO 2.

#### 2. PERFORM SELF-DIAGNOSIS RESULT

Select "Self Diagnostic Result" mode of "BCM", and check if DTC is detected.

DLK

Is DTC detected?

YES >> Perform the trouble diagnosis for detected DTC.  
NO >> GO TO 3.

#### 3. CHECK OUTSIDE KEY ANTENNA

Use SIGNAL TECH II to check each outside key antenna. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

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

#### 4. CHECK INTELLIGENT KEY OUTPUT SIGNAL

Use SIGNAL TECH II to check Intelligent Key outside signal. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

YES >> GO TO 6.  
NO >> Replace the malfunctioning outside key antenna. Refer to [DLK-194, "OUTSIDE HANDLE : Removal and Installation".](#)

#### 5. CHECK DOOR REQUEST SWITCH

Check each door request switch.

- Front door: Refer to [DLK-98, "Component Function Check".](#)

< SYMPTOM DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts. Refer to [DLK-174, "OUTSIDE HANDLE : Removal and Installation".](#)

## **6.REPLACE BCM**

1. Replace BCM. Refer to [BCS-79, "Removal and Installation".](#)

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident".](#)

# DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (REQ SW/PUSH SW) (ALL KEYS)

< SYMPTOM DIAGNOSIS >

## DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (REQ SW/PUSH SW) (ALL KEYS)

### Description

INFOID:000000014391195

All doors do not lock/unlock using door request switch, and engine does not start when push-button ignition switch is pressed while carrying Intelligent Key.

#### NOTE:

Before starting diagnosis check that vehicle condition is as shown in "Conditions of vehicle", and check each symptom.

### SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
OK	NG	No crank, No start	OK

### CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- "LOCK/UNLOCK BY I-KEY" setting in "Work support" mode of "INTELLIGENT KEY" of "BCM" is ON.
- "ENGINE START BY I-KEY" setting in "Work support" mode of "INTELLIGENT KEY" of "BCM" is ON.

### DIAGNOSIS PROCEDURE

Refer to [DLK-129, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000014391196

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK OUTSIDE KEY ANTENNA AND INSIDE KEY ANTENNA

Use SIGNAL TECH II to check each outside key antenna and inside key antenna. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

#### 3. REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 4.

#### 4. REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

#### 5. REPLACE BCM

1. Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

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## DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (REQ SW/ PUSH SW) (ALL KEYS)

### < SYMPTOM DIAGNOSIS >

2. Check operation after replacement.

Is the inspection result normal?

YES    >> Inspection End.

NO    >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

# DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ALL I-KEY/REQ SW/PUSH SW)

< SYMPTOM DIAGNOSIS >

## DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ALL I-KEY/REQ SW/PUSH SW)

### Description

INFOID:000000014391197

All doors do not lock/unlock using door request switch, Intelligent Key, and engine does not start when push-button ignition switch is pressed while carrying Intelligent Key.

### SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	No crank, No start	OK

### CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

“ENGINE START BY I-KEY” setting in “Work support” mode of “INTELLIGENT KEY” of “BCM” is ON.

### DIAGNOSIS PROCEDURE

Refer to [DLK-131, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000014391198

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. PERFORM SELF-DIAGNOSIS RESULT

Select “Self Diagnostic Result” mode of “BCM”, and check if DTC “B26FF” is detected.

Is DTC “B26FF” detected?

YES >> Perform the trouble diagnosis for detected DTC.  
NO >> GO TO 3.

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#### 3. CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.

Refer to [DLK-118, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.  
NO >> Repair or replace the malfunctioning parts. Refer to [DLK-198, "Removal and Installation"](#).

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#### 4. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to [DLK-112, "Diagnosis Procedure"](#).

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Is the inspection result normal?

N

YES >> GO TO 5.  
NO >> Repair or replace the malfunctioning parts. Refer to [DLK-197, "Removal and Installation"](#).

O

#### 5. REPLACE BCM

1. Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

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2. Check operation after replacement.

Is the inspection result normal?

Q

YES >> Inspection End.

R

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

S

# INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ALL KEYS)

< SYMPTOM DIAGNOSIS >

## INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ALL KEYS)

### Description

INFOID:000000014391199

Intelligent Key system all functions cannot operate (door lock and engine start).

### SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	No start	No start

### CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

“ENGINE START BY I-KEY” setting in “Work support” mode of “INTELLIGENT KEY” of “BCM” is ON.

### DIAGNOSIS PROCEDURE

Refer to [DLK-132, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000014391200

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK INTELLIGENT KEY-1

For both Intelligent Key that cannot be used for door lock and unlock, check that the Intelligent Key belongs to the vehicle to be checked.

- Check if the Intelligent Key that is checked is the Intelligent Key for a different NISSAN/INFINITI vehicle that the user owns.
- Check that the Intelligent Key buttons match the vehicle specifications.

Does the Intelligent Key belong to the vehicle to be checked?

YES >> GO TO 3.

NO >> Check Intelligent Key button operation using a registered Intelligent Key that belongs to the vehicle.

#### 3. CHECK INTELLIGENT KEY-2

Check the inside of the both Intelligent Keys for rust or corrosion by water. Simultaneously check the internal circuits for damage.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key.

#### 4. REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

#### 5. REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.
2. Check operation after replacement.

# INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ALL KEYS)

< SYMPTOM DIAGNOSIS >

Is the inspection result normal?

YES    >> Inspection End.  
NO    >> GO TO 6.

## 6.REPLACE BCM

1. Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).
2. Check the operation after replacement.

Is the inspection result normal?

YES    >> Inspection End  
NO    >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

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# DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

## DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

### Description

INFOID:0000000014391201

All doors do not lock/unlock using Intelligent Key button.

#### NOTE:

Before starting diagnosis check that vehicle condition is as shown in "Conditions of vehicle", and check each symptom.

### SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	OK	OK	OK

### CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

Registered Intelligent Key is within the detection area of remote keyless entry receiver.

### DIAGNOSIS PROCEDURE

Refer to [DLK-134, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000014391202

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK INTELLIGENT KEY OUTPUT SIGNAL

Use SIGNAL TECH II to check Intelligent Key output signal. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

##### Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

NO >> Replace Intelligent Key.

# DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH AND INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

## DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH AND INTELLIGENT KEY

### Description

INFOID:000000014391203

All doors do not lock/unlock using door request switch or Intelligent Key button.

### SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	OK	OK

### DIAGNOSIS PROCEDURE

Refer to [DLK-135, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000014391204

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK POWER DOOR LOCK OPERATION

Check door lock/unlock using door lock and unlock switch.

Does door lock/unlock using door lock and unlock switch?

YES >> GO TO 3.

NO >> Refer to [DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH].

#### 3. REPLACE BCM

1. Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

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# INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ALL KEYS)

< SYMPTOM DIAGNOSIS >

## INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ALL KEYS)

### Description

INFOID:0000000014391205

Intelligent Key button operation has poor range.

### SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
Poor range	OK	OK	OK

### DIAGNOSIS PROCEDURE

Refer to [DLK-136, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000014391206

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning operates.

Is the Intelligent Key low battery warning operated?

YES >> GO TO 3.

NO >> Replace Intelligent Key battery. Refer to [DLK-198, "Removal and Installation"](#).

#### 3. CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Refer to [DLK-118, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key battery. Refer to [DLK-198, "Removal and Installation"](#).

#### 4. PERFORM SELF-DIAGNOSIS RESULT-1

Select "Self Diagnostic Result" mode of "BCM", and check if DTC "B26FF" is detected.

Is DTC "B26FF" detected?

YES >> Perform the trouble diagnosis for detected DTC.

NO >> GO TO 5.

#### 5. REMOTE AFTERMARKET DEVICE

1. If the vehicle is equipped with any interference-generating aftermarket device such as a vehicle security system, charger and remote engine starter etc., remove them.

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 6.

#### 6. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to [DLK-112, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 7.

# INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ALL KEYS)

## < SYMPTOM DIAGNOSIS >

NO >> Repair or replace the malfunctioning parts.

## 7. REPLACE BCM

1. Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).

2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

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# DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY (ONE KEY)

< SYMPTOM DIAGNOSIS >

## DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY (ONE KEY)

### Description

INFOID:0000000014391207

All doors do not lock/unlock using Intelligent Key button. (One Intelligent Key has the symptom, other keys operate normally.)

#### NOTE:

Before starting diagnosis check that vehicle condition is as shown in "Conditions of vehicle", and check each symptom.

SYMPTOM TABLE (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	OK	OK	OK

### DIAGNOSIS PROCEDURE

Refer to [DLK-138, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000014391208

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK INTELLIGENT KEY OUTPUT SIGNAL

Use SIGNAL TECH II to check Intelligent Key output signal. For the inspection method and how to use SIGNAL TECH II, refer to "NISSAN/INFINITI SIGNAL TECH II USER GUIDE".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace Intelligent Key.

#### 3. REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 4.

#### 4. REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

#### 5. REPLACE BCM

1. Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

# DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ONE I-KEY/REQ SW/PUSH SW)

< SYMPTOM DIAGNOSIS >

DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ONE I-KEY/REQ SW/PUSH SW)

## Description

INFOID:0000000014391209

All doors do not lock/unlock using door request switch or Intelligent Key, and engine does not start when push-button ignition switch is pressed while carrying Intelligent Key. (One Intelligent Key has the symptom, other keys operate normally.)

SYMPTOM TABLE (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	No crank, No start	OK

## DIAGNOSIS PROCEDURE

Refer to [DLK-139, "Diagnosis Procedure"](#).

## Diagnosis Procedure

INFOID:0000000014391210

### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

### 2. CHECK INTELLIGENT KEY

Check the inside of the Intelligent Key for rust or corrosion by water. Simultaneously check the internal circuits for damage. Squeeze, twist or bend the Intelligent Key and check the functionality again. Is the Intelligent Key operating normally?

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace Intelligent Key.

### 3. CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key battery. Refer to [DLK-198, "Removal and Installation"](#).

### 4. REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

### 5. REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 6.

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# DOOR DOES NOT LOCK/UNLOCK AND ENGINE DOES NOT START (ONE I-KEY/REQ SW/PUSH SW)

< SYMPTOM DIAGNOSIS >

## 6. REPLACE BCM

1. Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

# INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ONE KEY)

< SYMPTOM DIAGNOSIS >

## INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ONE KEY)

### Description

INFOID:000000014391211

Intelligent Key system all functions cannot operate (door lock and engine start). (One Intelligent Key has the symptom, other keys operate normally.)

SYMPTOM TABLE (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
NG	NG	No crank, No start	No crank, No start

### DIAGNOSIS PROCEDURE

Refer to [DLK-141. "Diagnosis Procedure".](#)

### Diagnosis Procedure

INFOID:000000014391212

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126. "Diagnosis Procedure".](#)

>> GO TO 2.

#### 2. CHECK INTELLIGENT KEY-1

For Intelligent Key that cannot be used for door lock and unlock, check that the Intelligent Key belongs to the vehicle to be checked.

Does the Intelligent Key belong to the vehicle to be checked?

YES >> GO TO 3.

NO >> Check Intelligent Key button operation using a registered Intelligent Key that belongs to the vehicle.

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#### 3. CHECK INTELLIGENT KEY-2

Check the inside of the Intelligent Key for rust or corrosion by water. Simultaneously check the internal circuits for damage.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key.

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#### 4. REGISTER INTELLIGENT KEY

1. Register the Intelligent Key again.
2. Check the operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

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#### 5. REPLACE INTELLIGENT KEY

1. Replace the Intelligent Key and perform registration again.
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 6.

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# INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ONE KEY)

< SYMPTOM DIAGNOSIS >

## 6. REPLACE BCM

1. Replace BCM. Refer to [BCS-79, "Removal and Installation"](#).
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-47, "Intermittent Incident"](#).

# INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ONE KEY)

< SYMPTOM DIAGNOSIS >

## INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ONE KEY)

### Description

INFOID:0000000014391213

Intelligent Key button operation has poor range. (One Intelligent Key has the symptom, other keys operate normally.)

SYMPTOM TABLE (ONE INTELLIGENT KEY HAS THE SYMPTOM, OTHER KEYS OPERATE NORMALLY)

Door lock operation (remote keyless entry)	Door lock operation (request switch)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)
Poor range	OK	OK	OK

### DIAGNOSIS PROCEDURE

Refer to [DLK-143, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:0000000014391214

#### 1. CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to [DLK-126, "Diagnosis Procedure"](#).

>> GO TO 2.

#### 2. CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning operates.

Is the Intelligent Key low battery warning operated?

YES >> Replace Intelligent Key battery. Refer to [DLK-198, "Removal and Installation"](#).

NO >> GO TO 3.

#### 3. CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Is the inspection result normal?

YES >> Replace Intelligent Key and register new Intelligent Key.

NO >> Replace Intelligent Key battery. Refer to [DLK-198, "Removal and Installation"](#).

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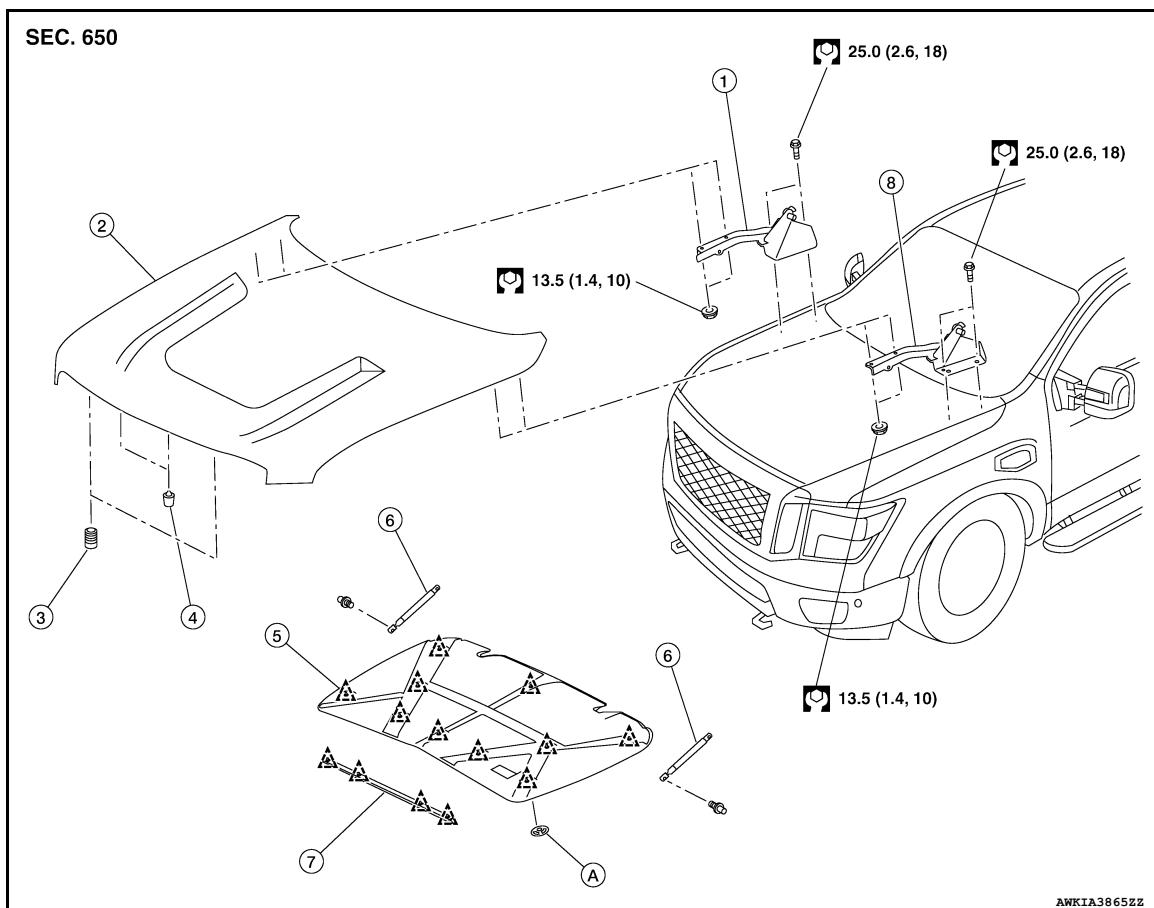
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< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION HOOD

### Exploded View

INFOID:0000000014391215



1. Hood hinge (RH)	2. Hood	3. Bumper rubber (LH/RH)
4. Closing bumper rubber (LH/RH)	5. Insulator	6. Hood stay (LH/RH)
7. Radiator core seal	8. Hood hinge (LH)	A. Insulator clip

## HOOD ASSEMBLY

### HOOD ASSEMBLY : Removal and Installation

INFOID:0000000014391216

#### 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 using a suitable tool.

#### WARNING:

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

2. Remove hood insulator. Refer to [DLK-148, "HOOD INSULATOR : Removal and Installation"](#).
3. Remove hood radiator core seal. Refer to [DLK-147, "RADIATOR CORE SEAL : Removal and Installation"](#).

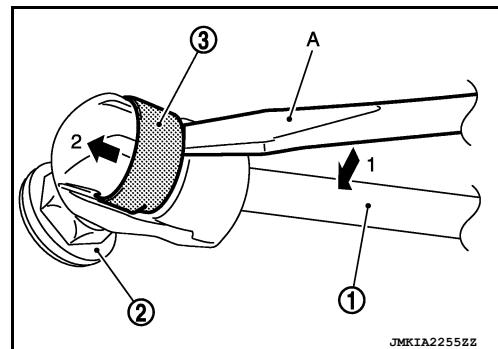
# HOOD

## < REMOVAL AND INSTALLATION >

4. Using suitable tool (A) release metal clip (3) as shown.

- (1) :Hood stay
- (2) :Stud ball

5. Separate hood stay from stud ball (hood side).



6. Remove hood hinge to hood nuts, and then remove hood.

## INSTALLATION

Installation is in the reverse order of removal.

### CAUTION:

- Before installing hood, apply anticorrosive agent to the hinge mating surface.
- After installing, perform hood fitting adjustment. Refer to [DLK-145, "HOOD ASSEMBLY : Adjustment"](#).
- Apply touch-up paint if the paint peeled off during procedure.

## HOOD ASSEMBLY : Adjustment

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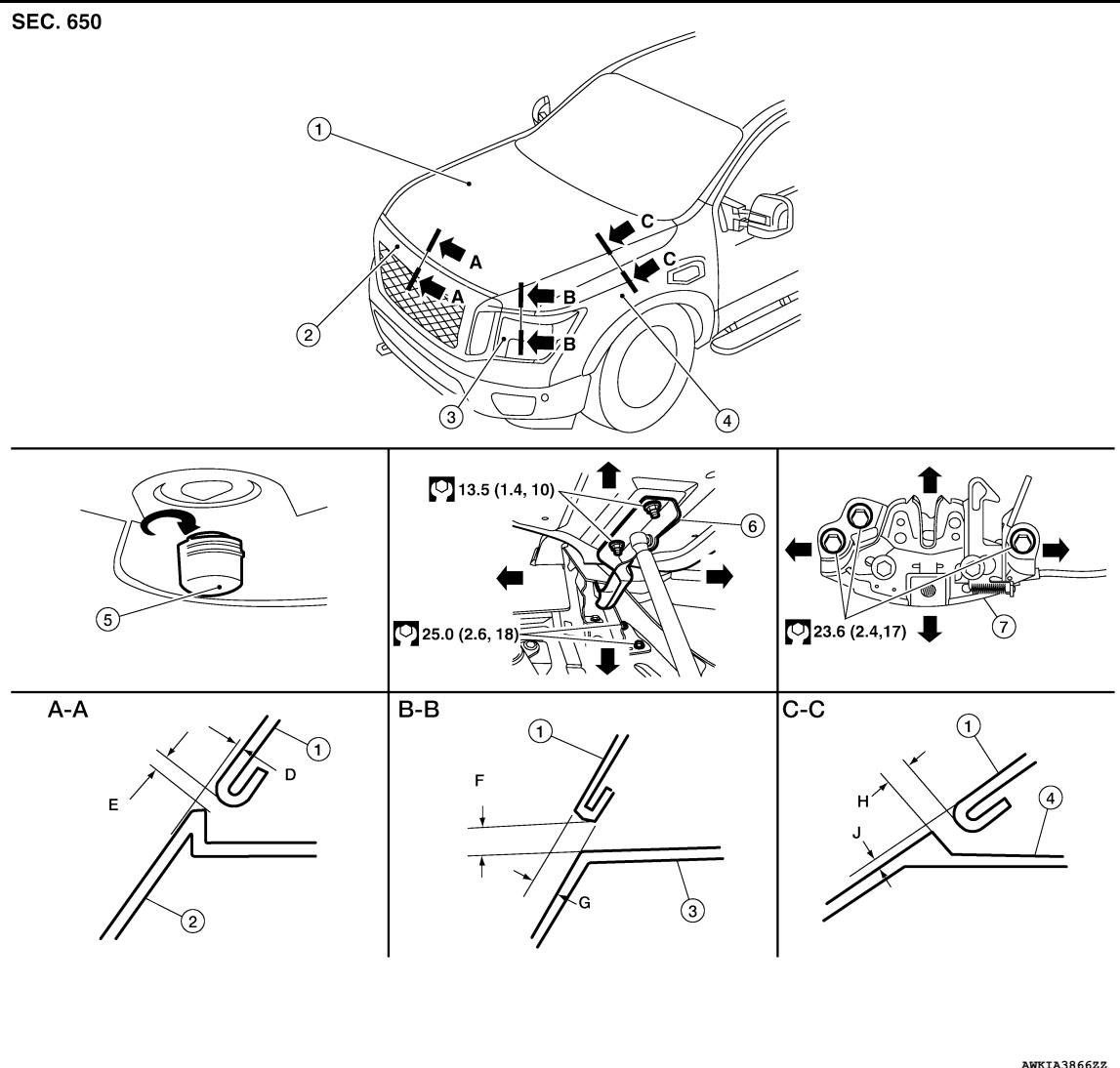
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# HOOD

## < REMOVAL AND INSTALLATION >

### SEC. 650



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1. Hood	2. Front grille	3. Front combination lamp
4. Fender	5. Bumper rubber	6. Hood hinge
7. Hood lock		

Check the clearance and the surface height between hood and each part visually and by touching. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Portion	Section	Item	Measurement	Standard	Parallelism
Hood - Front grill	A - A	D	Clearance	$4.5 \pm 2.0$ (0.18 ± 0.08)	2.0 (0.08)
		E	Surface height	$1.6 +1.6 -2.0$ (0.06 +0.06 -0.08)	2.0 (0.08)
Hood - Front combination lamp	B - B	F	Clearance	$8.0 \pm 2.0$ (0.31 ± 0.08)	2.0 (0.08)
		G	Surface Height	-	-
Hood - Fender	C - C	H	Clearance	$4.0 \pm 1.0$ (0.16 ± 0.04)	1.0 (0.04)
		J	Surface Height	$0 \pm 1.0$ (0.04)	1.0 (0.04)

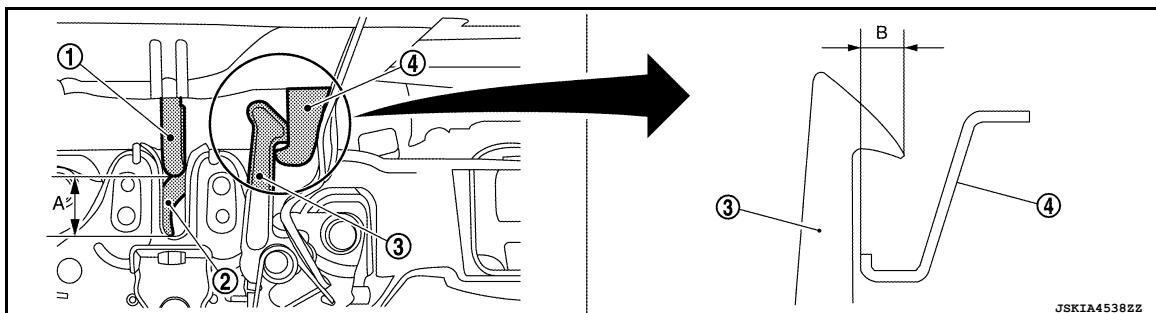
### HEIGHT ADJUSTMENT

1. Loosen hood lock bolts.
2. Adjust surface height of hood to front grille and front fender according to specified values by rotating hood bumper rubber.

# HOOD

## < REMOVAL AND INSTALLATION >

3. Temporarily tighten hood lock bolts.
4. Adjust (A) and (B) as shown to the following values with hood's own weight by dropping it from approximately 200 mm (7.87 in) or by pressing hood lightly [approximately 29.4 N (3.0 kg, 6.61 lb)].



1. Primary striker
2. Primary latch
3. Secondary latch
4. Secondary striker
- A. 20 mm (0.787 in)
- B. 6.8 mm (0.27 in)

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

## CLEARANCE ADJUSTMENT

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

## HOOD HINGE

### HOOD HINGE : Removal and Installation

INFOID:0000000014391218

#### REMOVAL

1. Remove hood assembly. Refer to [DLK-144, "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove front fender. Refer to [DLK-154, "Removal and Installation"](#).
3. Remove bolts, then remove hood hinge.

#### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the mating surface.
- After installation, perform hood assembly adjustment procedure. Refer to [DLK-145, "HOOD ASSEMBLY : Adjustment"](#).

## RADIATOR CORE SEAL

### RADIATOR CORE SEAL : Removal and Installation

INFOID:0000000014391219

#### REMOVAL

Release clips using suitable tool, and remove radiator core seal from hood. Refer to [DLK-144, "Exploded View"](#).

#### CAUTION:

Do not damage hood assembly.

#### INSTALLATION

Installation is in the reverse order of removal.

## HOOD INSULATOR

# HOOD

## < REMOVAL AND INSTALLATION >

### HOOD INSULATOR : Removal and Installation

INFOID:0000000014391220

#### REMOVAL

Release insulator clips using suitable tool, then remove hood insulator from hood. Refer to [DLK-144, "Exploded View"](#).

#### INSTALLATION

Installation is in the reverse order of removal.

#### HOOD STAY

### HOOD STAY : Removal and Installation

INFOID:0000000014391221

#### REMOVAL

1. Support hood using a suitable tool.

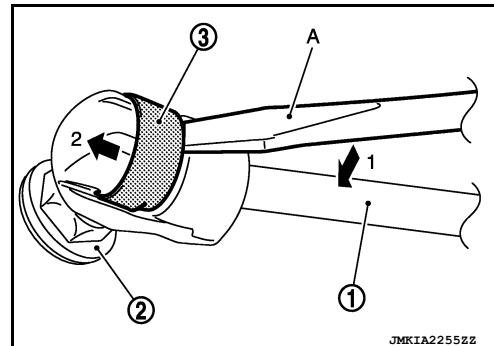
#### **WARNING:**

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

2. Using suitable tool (A) release metal clip (3) as shown.

(1) :Hood stay

(2) :Stud ball



JMKIA2255ZZ

3. Separate hood stay from stud ball (hood side).

4. Separate hood stay from stud ball (body side) then remove hood stay.

#### INSTALLATION

Installation is in the reverse order of removal.

### HOOD STAY : Disposal

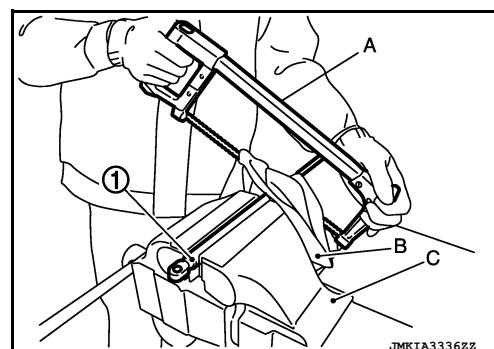
INFOID:0000000014391222

1. Fix hood stay (1) using a vise (C).

2. Using a hacksaw (A), slowly make two holes in hood stay (1) in numerical order as shown in figure.

#### **CAUTION:**

- When cutting a hole in hood stay (1), always cover hacksaw (A) with a shop cloth (B) to avoid scattering metal fragments or oil.
- Wear eye protection (safety glasses).
- Wear gloves.



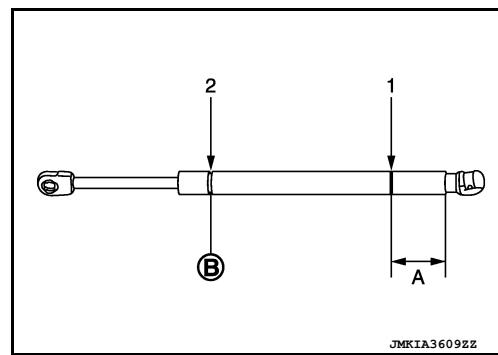
JMKIA3336ZZ

# HOOD

## < REMOVAL AND INSTALLATION >

A: 20 mm (0.79 in)

B: Cut at groove.



A

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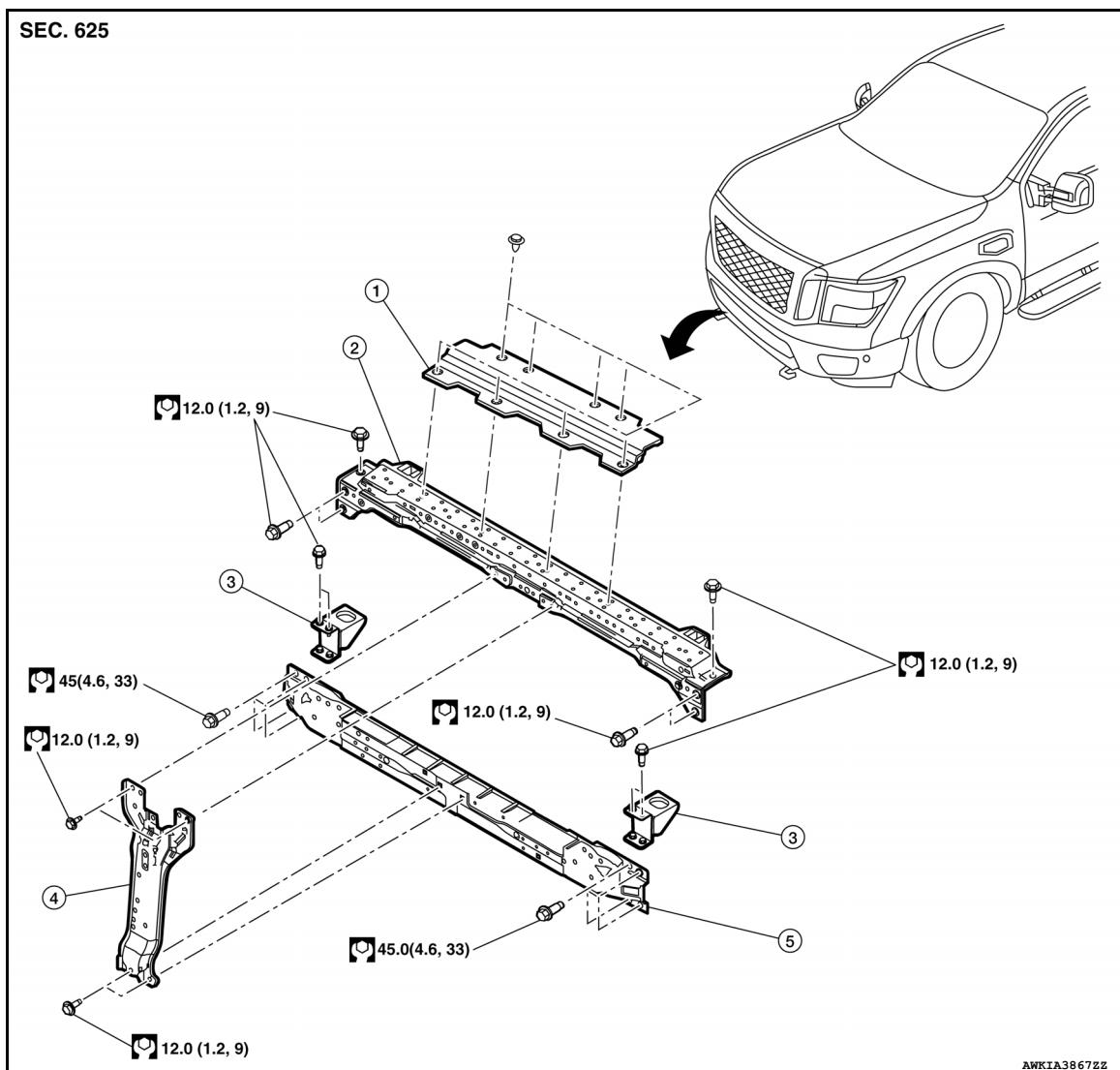
# RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

## RADIATOR CORE SUPPORT

Exploded View - XD Models

INFOID:0000000014391223



- 1. Radiator core support cover
- 2. Radiator core support
- 3. Bracket lower (LH/RH)
- 4. Hood lock support stay
- 5. Radiator core support bracket

## Removal and Installation - XD Models

INFOID:0000000014391224

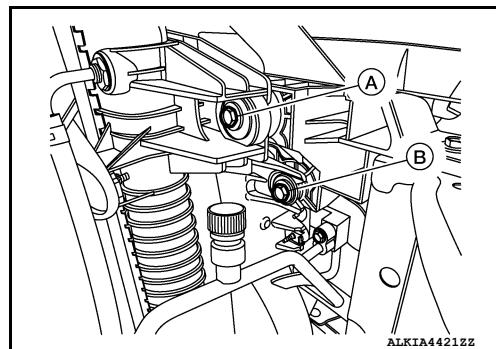
### REMOVAL

1. Remove front combination lamp. Refer to [EXL-291, "Removal and Installation"](#) (LED HEADLAMP), or [EXL-133, "Removal and Installation"](#) (HALOGEN HEADLAMP).

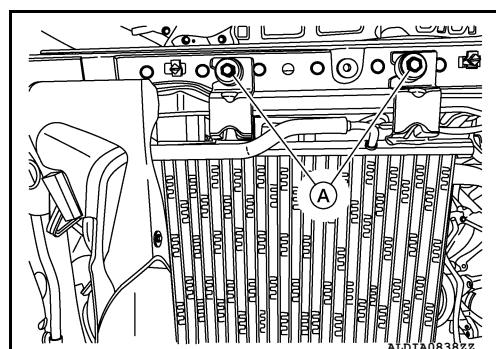
# RADIATOR CORE SUPPORT

## < REMOVAL AND INSTALLATION >

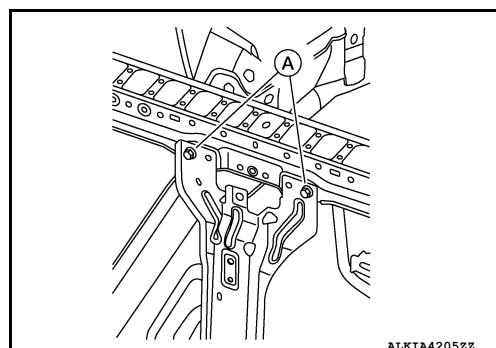
2. Remove radiator bolts (A).
3. Remove intercooler bolts [B (if equipped)].



4. Remove hood lock bolts. Refer to [DLK-170, "HOOD LOCK : Removal and Installation"](#).
5. Remove horn. Refer to [HRN-7, "Removal and Installation"](#).
6. Release clips using suitable tool and remove radiator core support cover.
7. Remove upper clips from air guide.
8. For models equipped with VK56VD engine remove A/T fluid cooler bolts (A).



9. Remove hood lock support stay bolts (A).



10. Remove bolts and radiator core support.
11. Remove remaining clips then air guide [LH/RH (if necessary)].
12. Remove clips then lower air guide (if necessary).
13. Remove bolts then lower bracket [LH/RH (if necessary)].

## INSTALLATION

Installation is in the reverse order of removal.

A  
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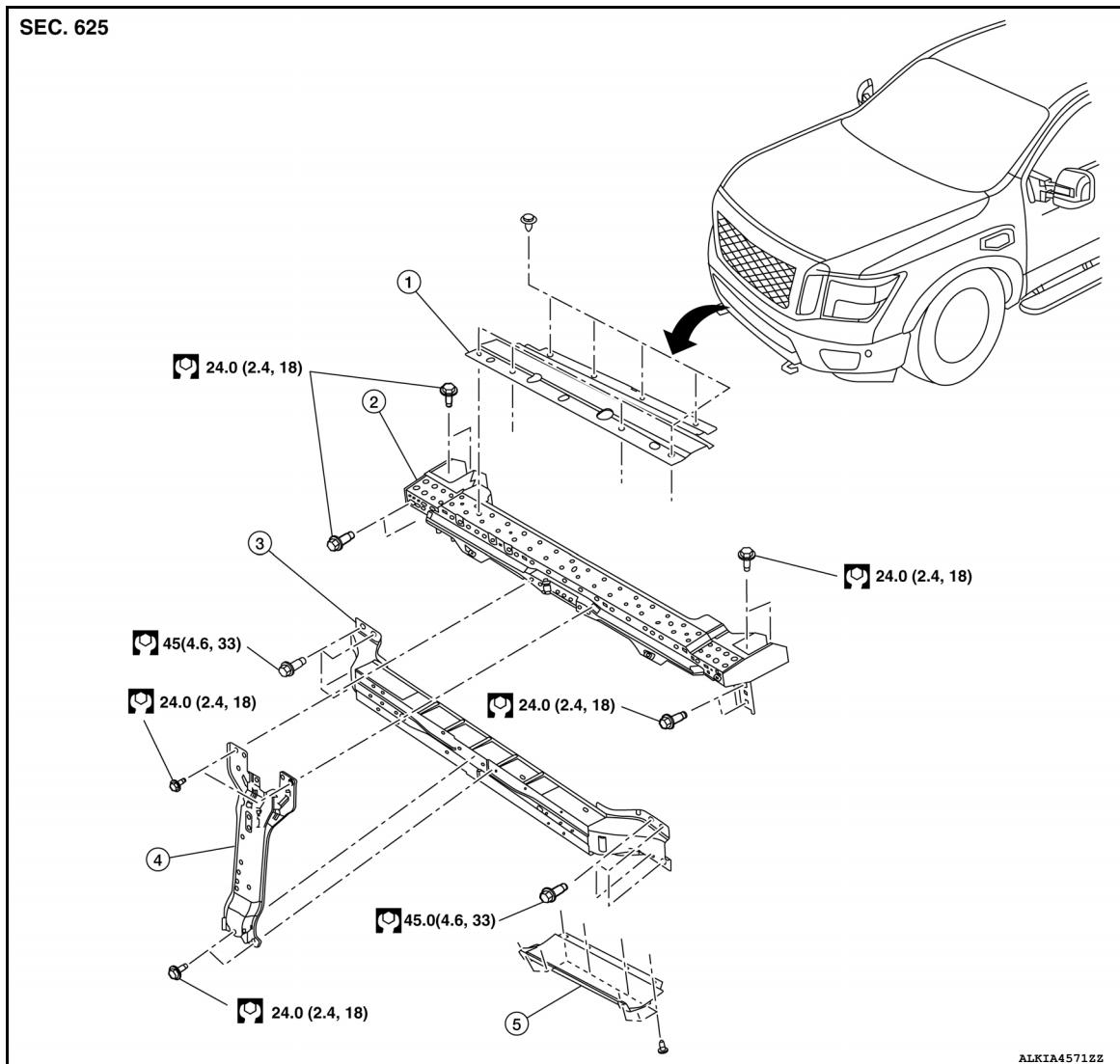
## RADIATOR CORE SUPPORT

## < REMOVAL AND INSTALLATION >

## Exploded View - Non-XD Models

INFOID:0000000014714792

**SEC. 625**



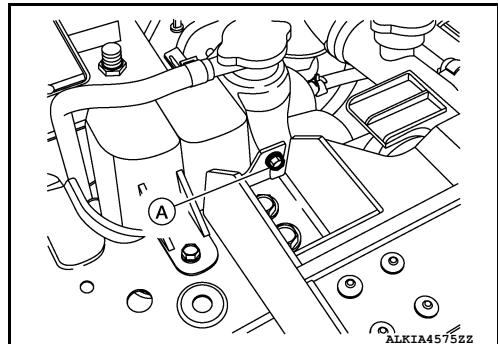
1. Radiator core support cover	2. Radiator core support	3. Radiator core support bracket
4. Hood lock support stay	5. Radiator lower cover	

## Removal and Installation - Non-XD Models

INFOID:0000000014694538

## REMOVAL

1. Remove front grille. Refer to [EXT-32, "Removal and Installation"](#).
2. Remove reservoir bolt (A).

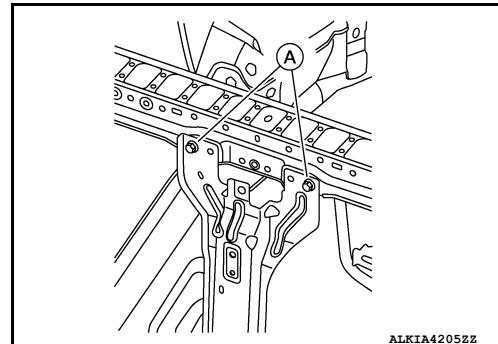


3. Remove hood lock bolts and place hood lock aside. Refer to DLK-170, "Exploded View".

# RADIATOR CORE SUPPORT

## < REMOVAL AND INSTALLATION >

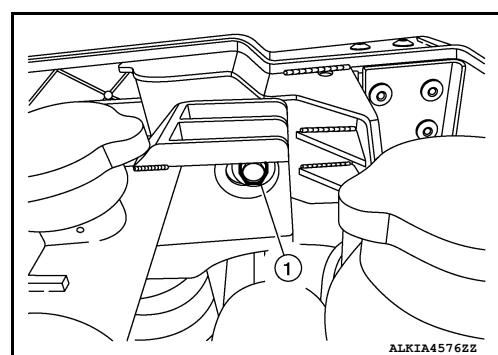
4. Remove horn bolts and place horns aside. Refer to [HRN-7, "Removal and Installation"](#).
5. Release clips using suitable tool and remove radiator core support cover.
6. Remove active grille shutter bolts and place active grille shutter aside. Refer to [EXT-34, "Exploded View"](#).
7. Remove hood lock support stay bolts (A).



8. Remove radiator bolts [A (LH/RH)].

**NOTE:**

RH shown, LH similar



9. Release radiator core support bolts and radiator core support.

## INSTALLATION

Installation is in the reverse order of removal.

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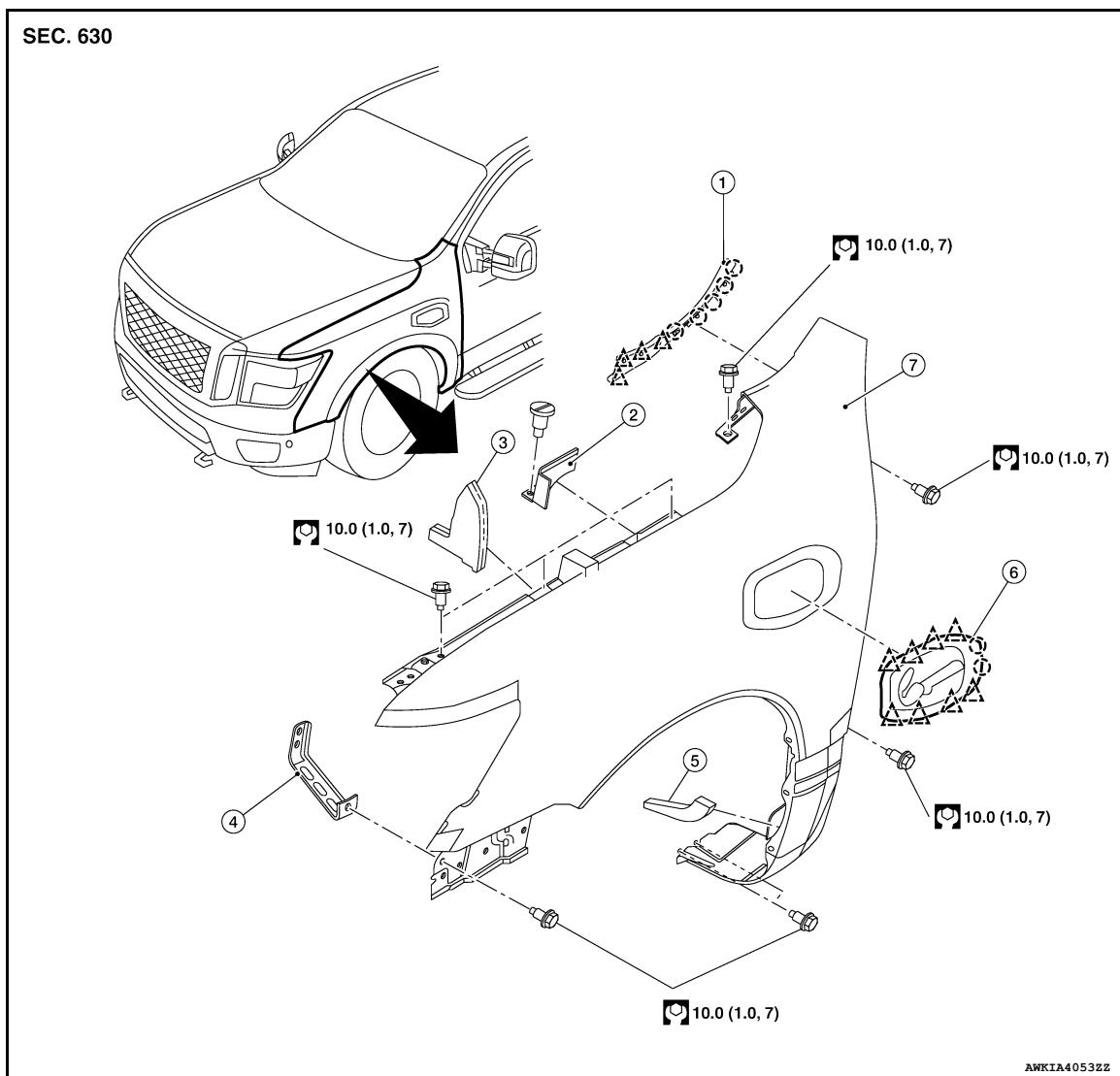
# FRONT FENDER

< REMOVAL AND INSTALLATION >

## FRONT FENDER

### Exploded View

INFOID:0000000014391225



1. Cowl top fender cover	2. Front fender cover (RH)	3. Front fender baffle
4. Front fender bracket	5. Front fender insulator	6. Emblem
7. Front fender	Clip	Pawl

### Removal and Installation

INFOID:0000000014391226

#### REMOVAL

1. Remove front combination lamp. Refer to [EXL-291, "Removal and Installation" \(LED HEADLAMP\)](#), or [EXL-133, "Removal and Installation" \(HALOGEN HEADLAMP\)](#).
2. Remove fender protector. Refer to [EXT-41, "Removal and Installation - Front Fender Protector"](#).
3. Remove cowl top fender cover. Refer to [EXT-35, "Removal and Installation - Cowl Top Cover"](#).
4. Remove front fender bolts.
5. Remove front fender.

**CAUTION:**  
Use care when removing front fender. The front fender urethane foam adheres the front fender to the body side outer. Carefully release the foam baffle or damage to the front fender may occur.

6. Release pawls and clips and remove emblem (if necessary).

# FRONT FENDER

## < REMOVAL AND INSTALLATION >

### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

- After installation, apply touch-up paint if the paint peeled during procedure.
- After installing, perform fitting adjustment to the following components as necessary.
- Hood: Refer to [DLK-145, "HOOD ASSEMBLY : Adjustment"](#).
- Front door: Refer to [DLK-157, "DOOR ASSEMBLY : Adjustment"](#).

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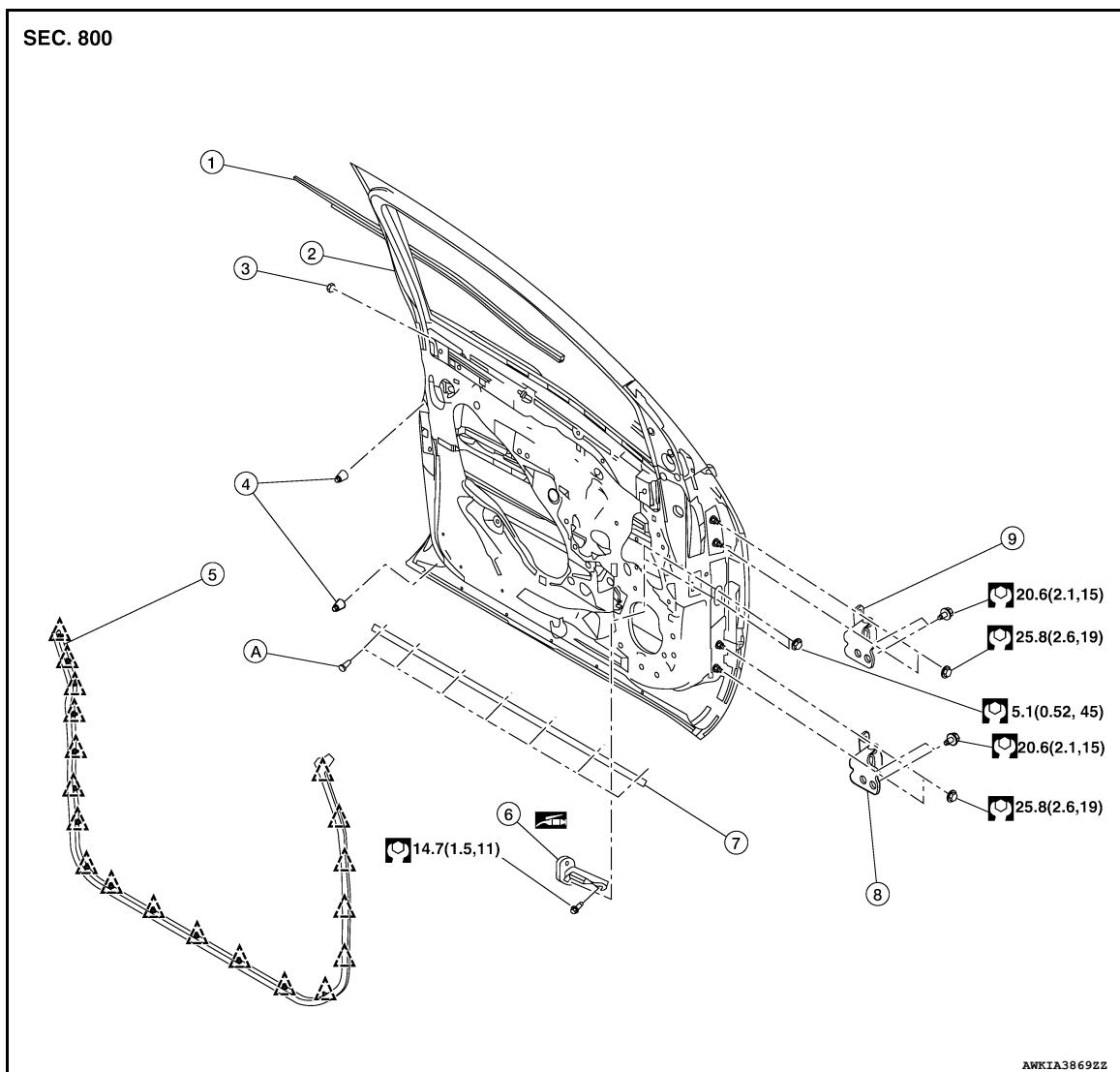
# FRONT DOOR

< REMOVAL AND INSTALLATION >

## FRONT DOOR

### Exploded View

INFOID:0000000014391227



1. Door outside seal	2. Door panel	3. Grommet
4. Bumper rubber	5. Door weather-strip	6. Check link
7. Door parting seal	8. Door lower hinge	9. Door upper hinge
A. Clip	Clip	

## DOOR ASSEMBLY

### DOOR ASSEMBLY : Removal and Installation

INFOID:0000000014391228

#### CAUTION:

- Use two people when removing or installing the front door due to its heavy weight.
- When removing and installing front door assembly, support front door with a suitable tool.

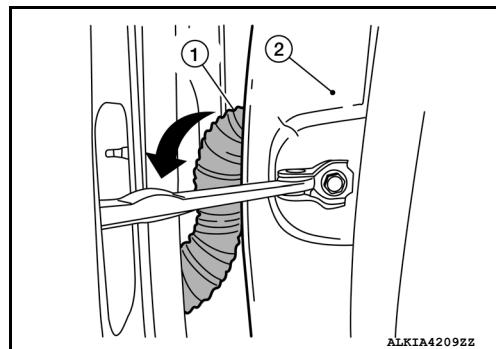
#### REMOVAL

1. Remove dash side finisher. Refer to [INT-22, "DASH SIDE FINISHER : Removal and Installation"](#).
2. Disconnect front door harness connector.

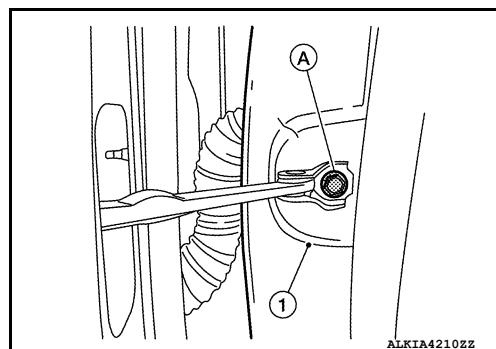
# FRONT DOOR

## < REMOVAL AND INSTALLATION >

3. Remove front door harness grommet (1) as shown, and then pull out the harness from the body side outer (2).



4. Remove door check link bolt (A) from the body side (1).



5. Remove front door hinge nuts then door.

## INSTALLATION

Installation is in the reverse order of removal.

### CAUTION:

- Apply anticorrosive agent where necessary.
- After installation, check front door open/close and lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to [DLK-157, "DOOR ASSEMBLY : Adjustment"](#).
- Perform camera image calibration (if equipped with around view monitor). Refer to [AV-331, "Description"](#).

## DOOR ASSEMBLY : Adjustment

INFOID:000000014391229

DLK

### Adjustment

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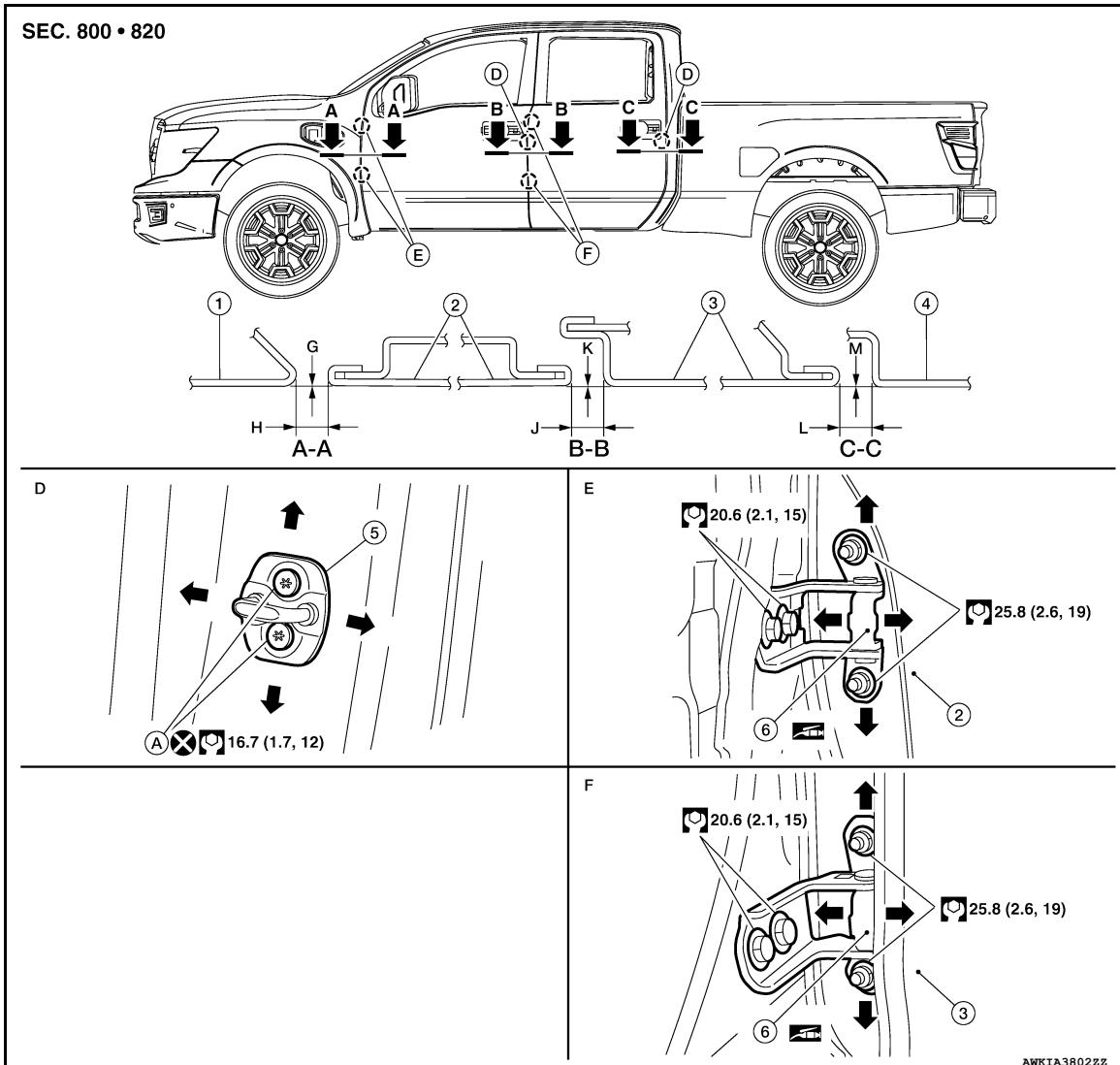
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# FRONT DOOR

## < REMOVAL AND INSTALLATION >



1. Front fender	2. Front door panel	3. Rear door panel
4. Body side outer	5. Door striker	6. Door hinge
A. Door striker bolt		

Check the clearance and surface height between front door and each part by visual inspection and tactile feel. If clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm [in]

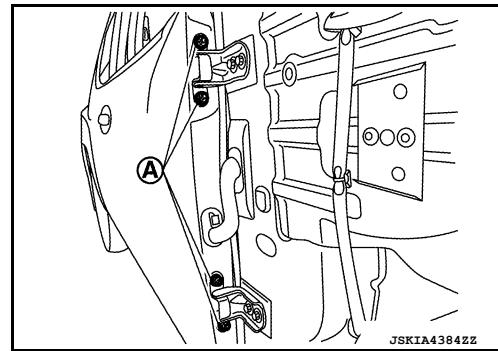
Portion			Standard	
Front fender panel – Front door panel	A-A	H	Clearance	$4.5 \pm 1.0$ (0.18 ± 0.04)
		I	Surface height	$0.1 \pm 1.0$ (0.00 ± 0.04)
Front door panel – Rear door panel	B-B	J	Clearance	$4.5 \pm 1.0$ (0.18 ± 0.04)
		K	Surface height	$0.1 \pm 1.0$ (0.00 ± 0.04)
Rear door panel – Body side outer	C-C	L	Clearance	$4.5 \pm 1.0$ (0.18 ± 0.04)
		M	Surface height	$0.1 \pm 1.0$ (0.00 ± 0.04)

1. Remove front fender. Refer to [DLK-154, "Removal and Installation"](#).

# FRONT DOOR

## < REMOVAL AND INSTALLATION >

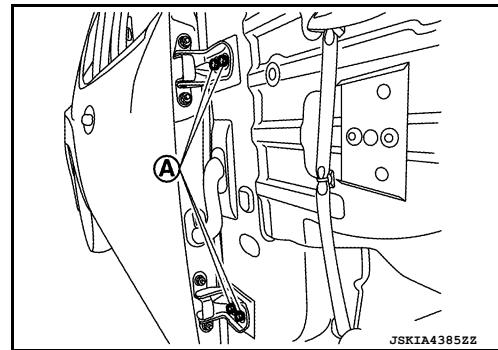
2. Loosen door hinge nuts (A).



3. Adjust surface height of front door according to specifications provided.

4. Temporarily tighten door hinge nuts on door side.

5. Loosen door hinge bolts (A).



6. Raise front door at rear end to adjust clearance of front door according to specifications provided.

7. After adjustment, tighten bolts and nuts to specified torque.

**CAUTION:**

- Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint if the paint peeled during procedure.

8. Install front fender. Refer to [DLK-154, "Removal and Installation"](#).

## DOOR HINGE

### DOOR HINGE : Removal and Installation

INFOID:000000014391230

DLK

#### REMOVAL

1. Remove front door. Refer to [DLK-156, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove front door hinge bolts from body side and front door hinge.

#### INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

- Apply anticorrosive agent to hinge mating surface.
- After installation, check front door open/close and lock/unlock operation.
- Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After installation, perform front door adjustment procedure. Refer to [DLK-157, "DOOR ASSEMBLY : Adjustment"](#).

## DOOR CHECK LINK

### DOOR CHECK LINK : Removal and Installation

INFOID:000000014391231

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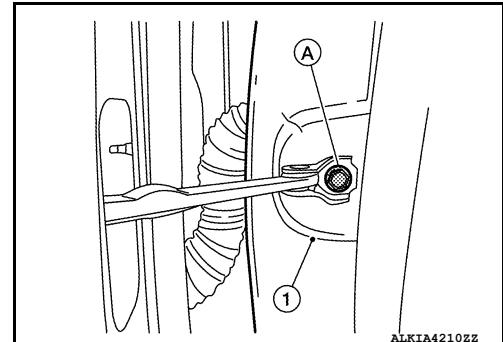
#### REMOVAL

1. Fully close the front door window glass.

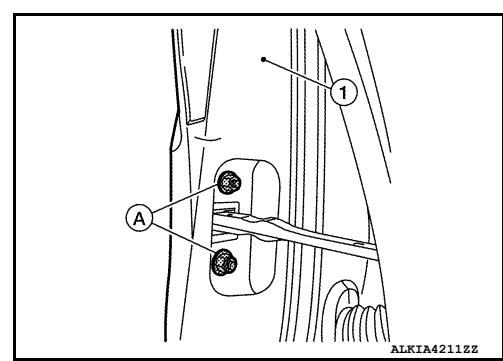
## FRONT DOOR

### < REMOVAL AND INSTALLATION >

2. Remove front door speaker. Refer to [AV-281, "Removal and Installation"](#) (NAVIGATION WITH AMPLIFIER) , [AV-281, "Removal and Installation"](#) (NAVIGATION WITHOUT AMPLIFIER), or [AV-68, "Removal and Installation"](#) (DISPLAY AUDIO).
3. Remove door check link bolt (A) from body side (1).



4. Remove door check link nuts (A) from door side (1).



5. Remove door check link through hole in door panel.

### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

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

### DOOR WEATHER-STRIP

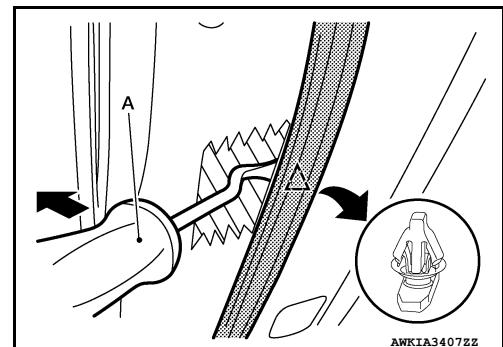
#### DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000014391232

### REMOVAL

1. Disengage clips of front door weather-strip using a suitable tool (A).

 : Clip



#### CAUTION:

**Do not damage front door panel.**

2. Remove front door weather-strip from front door panel.

### INSTALLATION

Installation is in the reverse order of removal.

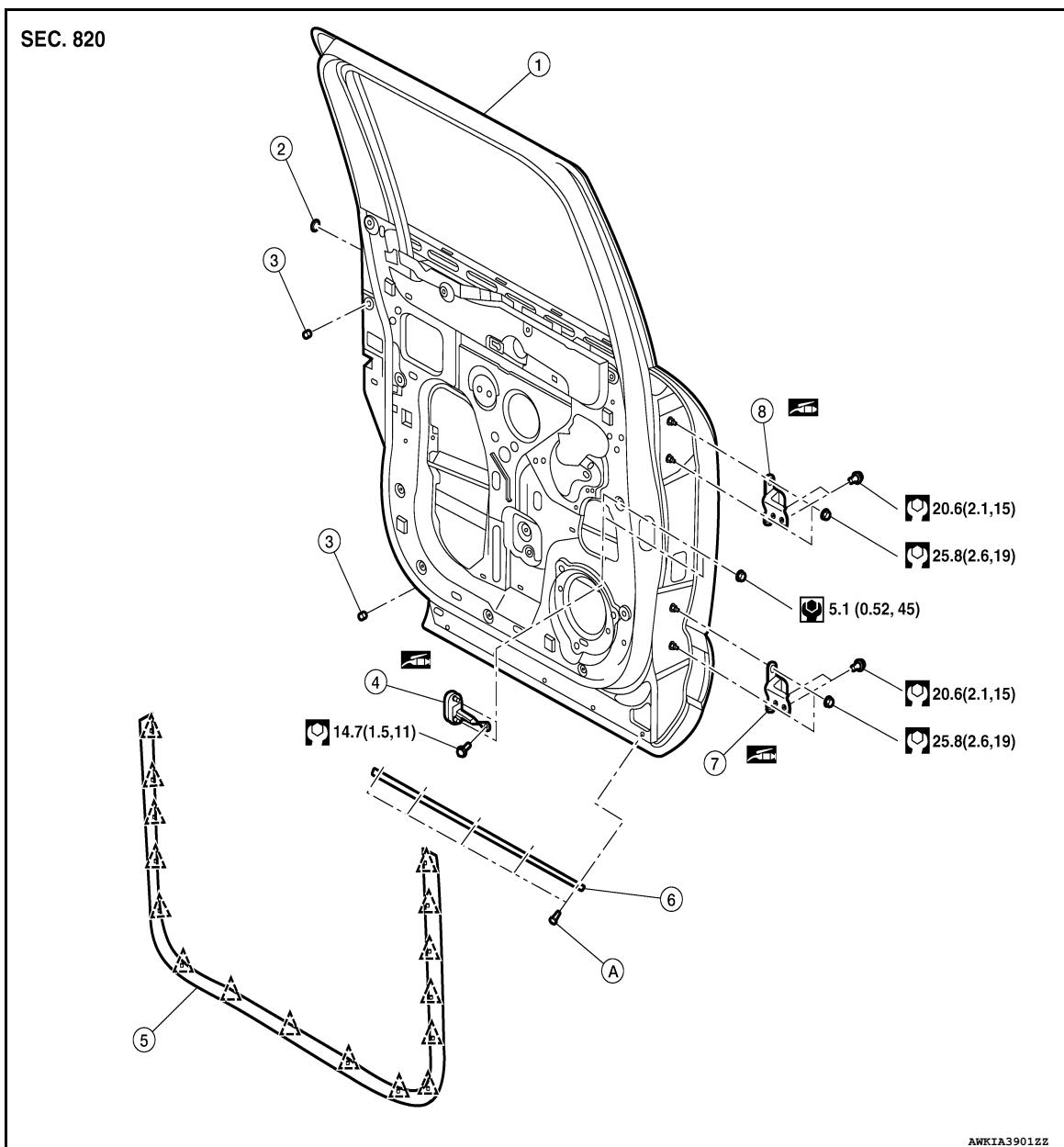
# REAR DOOR

< REMOVAL AND INSTALLATION >

## REAR DOOR

### Exploded View

INFOID:0000000014391233



1. Rear door panel	2. Grommet	3. Bumper rubber
4. Door check link	5. Door weather-strip	6. Door parting seal
7. Door lower hinge	8. Door upper hinge	Clip

## DOOR ASSEMBLY

### DOOR ASSEMBLY : Removal and Installation

INFOID:0000000014391234

#### CAUTION:

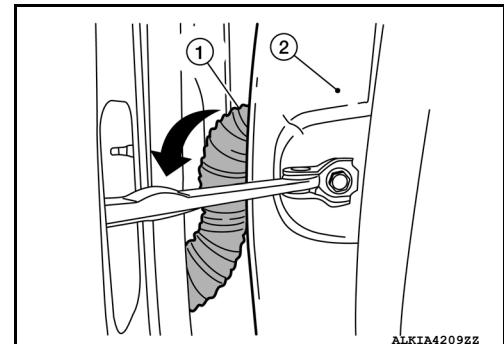
- Use two people when removing or installing rear door due to its heavy weight.
- When removing and installing rear door assembly, support rear door using a suitable tool.

#### REMOVAL

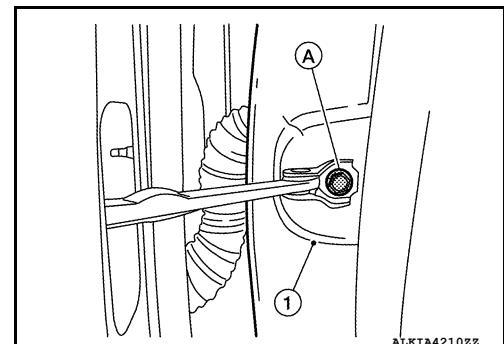
## REAR DOOR

### < REMOVAL AND INSTALLATION >

1. Remove center pillar lower finisher. Refer to [INT-23, "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).
2. Disconnect rear door harness connector.
3. Remove rear door harness grommet (1), then pull out the harness from body side outer (2).



4. Remove rear door check link bolt (A) from body side (1).



5. Remove rear door hinge nuts from door side, and then remove rear door assembly.

### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

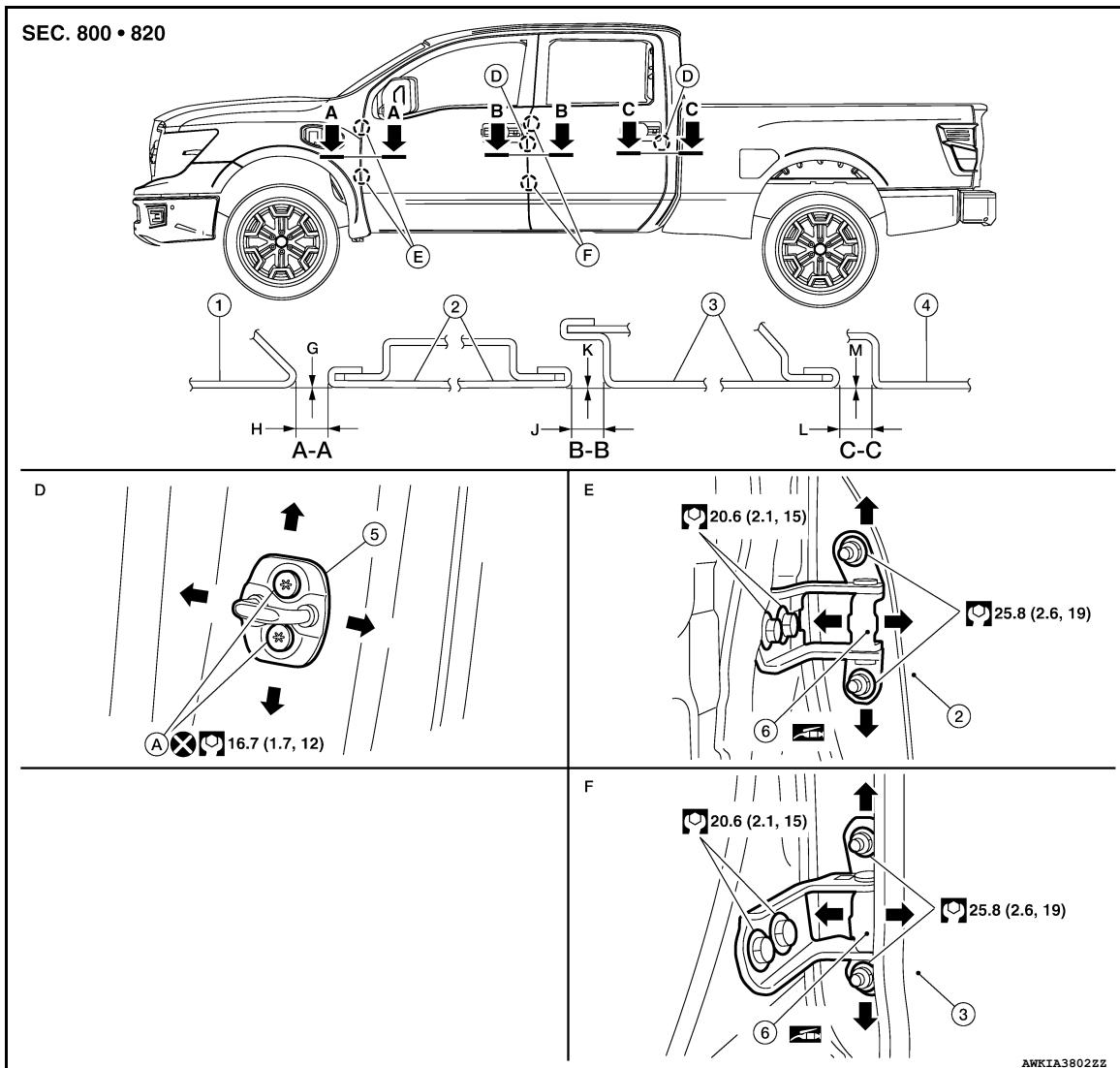
- Apply anticorrosive agent where necessary.
- After installation, check rear door open/close and lock/unlock operation.
- After installation, perform rear door adjustment procedure. Refer to [DLK-162, "DOOR ASSEMBLY : Adjustment"](#).

### DOOR ASSEMBLY : Adjustment

INFOID:0000000014391235

# REAR DOOR

## < REMOVAL AND INSTALLATION >



1. Front fender	2. Front door panel	3. Rear door panel
4. Body side outer	5. Door striker	6. Door hinge
A. Door striker bolt		

Check clearance and surface height between rear door and each part by visual inspection and tactile feel. If clearance and surface height are out of specification, adjust them according to adjustment procedures.

Unit: mm [in]

Portion		Standard	
Front fender panel – Front door panel	A–A	H	Clearance $4.5 \pm 1.0$ (0.18 ± 0.04)
		I	Surface height $0.1 \pm 1.0$ (0.00 ± 0.04)
Front door panel – Rear door panel	B–B	J	Clearance $4.5 \pm 1.0$ (0.18 ± 0.04)
		K	Surface height $0.1 \pm 1.0$ (0.00 ± 0.04)
Rear door panel – Body side outer	C–C	L	Clearance $4.5 \pm 1.0$ (0.18 ± 0.04)
		M	Surface height $0.1 \pm 1.0$ (0.00 ± 0.04)

1. Remove center pillar lower finisher. Refer to [INT-23, "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).
2. Loosen rear door hinge nuts on door side.
3. Adjust surface height of rear door according to specifications provided.
4. Temporarily tighten rear door hinge nuts on door side.

# REAR DOOR

## < REMOVAL AND INSTALLATION >

5. Loosen rear door hinge nuts and bolts on body side.
6. Raise rear door at rear end to adjust clearance of rear door according to specifications provided.
7. After adjustment, tighten bolts and nuts to specified torque.

### CAUTION:

- Check rear door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint if the paint peeled during procedure.

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

## DOOR HINGE

### DOOR HINGE : Removal and Installation

INFOID:000000014391236

#### REMOVAL

1. Remove rear door. Refer to [DLK-161, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove door hinge nuts from body side, then remove door hinge.

#### INSTALLATION

Installation is in the reverse order of removal.

### CAUTION:

- Apply anticorrosive agent onto hinge mating surface.
- After installation, check rear door open/close and lock/unlock operation.
- After installation, perform rear door adjustment procedure. Refer to [DLK-162, "DOOR ASSEMBLY : Adjustment"](#).

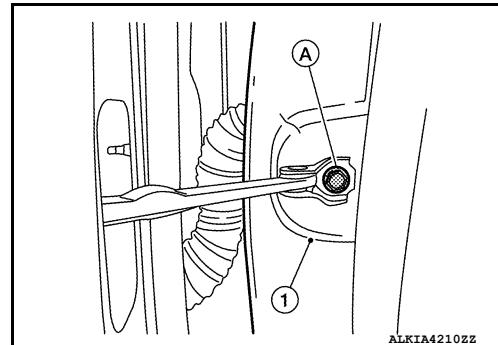
## DOOR CHECK LINK

### DOOR CHECK LINK : Removal and Installation

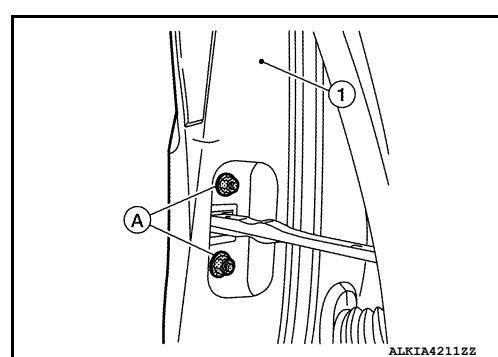
INFOID:000000014391237

#### REMOVAL

1. Fully close the rear door window glass.
2. Remove rear door speaker. Refer to [AV-283, "Removal and Installation"](#) (NAVIGATION WITH AMPLIFIER) , [AV-161, "Removal and Installation"](#) (NAVIGATION WITHOUT AMPLIFIER), or [AV-69, "Removal and Installation"](#) (DISPLAY AUDIO).
3. Remove door check link bolt (A) from body side (1).



4. Remove door check link nuts (A) from door side (1).



# REAR DOOR

## < REMOVAL AND INSTALLATION >

5. Remove door check link through hole in door panel.

## INSTALLATION

Installation is in the reverse order of removal.

### CAUTION:

After installation, check rear door open/close and lock/unlock operation.

## DOOR WEATHER-STRIP

### DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000014391238

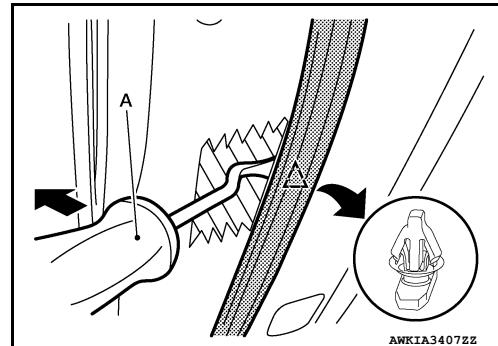
## REMOVAL

1. Release clips on the reverse side of rear door weather-strip using a suitable tool (A).

### CAUTION:

Do not damage rear door panel.

△ : Clip



2. Remove rear door weather-strip from rear door panel.

## INSTALLATION

Installation is in the reverse order of removal.

A

B

C

D

E

F

G

H

I

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DLK

L

M

N

O

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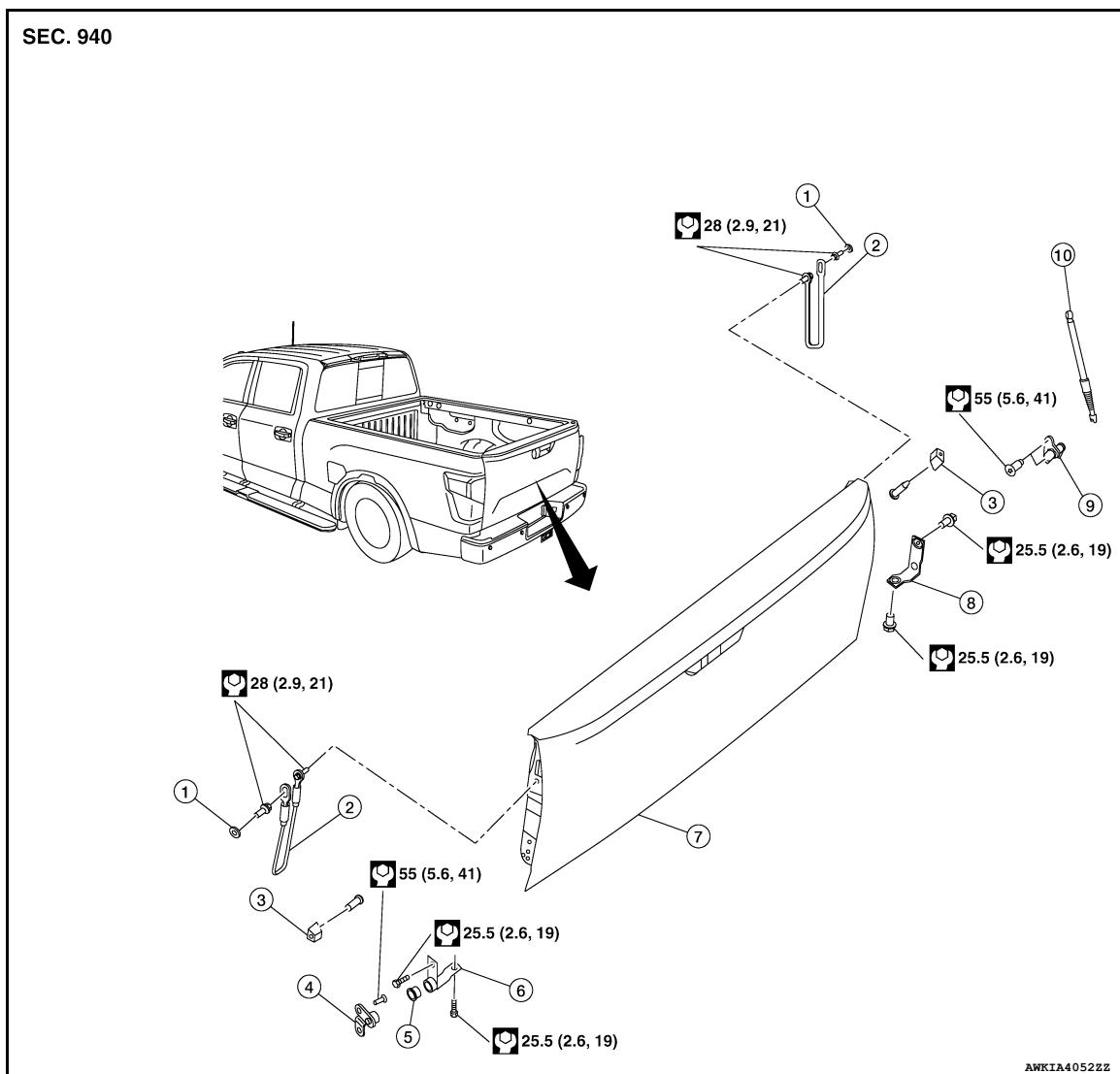
# TAILGATE

< REMOVAL AND INSTALLATION >

## TAILGATE

### Exploded View

INFOID:0000000014391239



1. Washer	2. Tailgate stay (LH/RH)	3. Tailgate rubber bumper (LH/RH)
4. Tailgate hinge [body side (LH)]	5. Tailgate ring (LH)	6. Tailgate hinge [tailgate side (LH)]
7. Tailgate panel	8. Tailgate hinge [tailgate side (RH)]	9. Tailgate hinge [body side (RH)]
10. Gas stay		

## TAILGATE ASSEMBLY

### TAILGATE ASSEMBLY : Removal and Installation

INFOID:0000000014391240

#### CAUTION:

Use two people when removing or installing tailgate assembly due to its heavy weight.

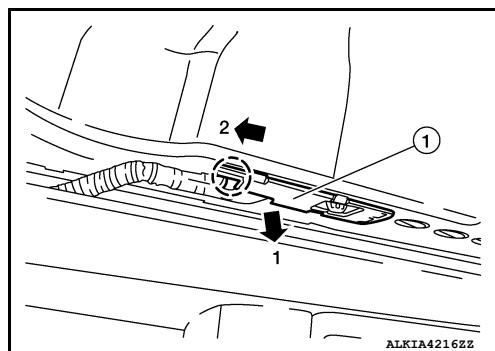
#### REMOVAL

# TAILGATE

## < REMOVAL AND INSTALLATION >

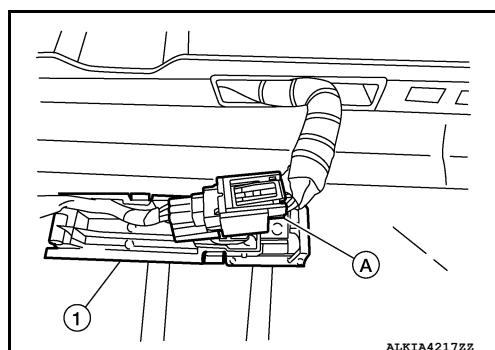
1. Lower tailgate to access rear camera harness connector bracket [1 (if equipped)]. Release pawl on bracket, then pull out rear camera harness as shown.

(○) :Pawl

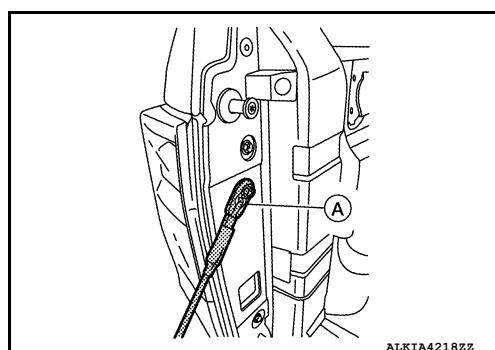


2. Disconnect rear view camera harness connector [A (if equipped)].

(1) :Tailgate harness cover



3. Release tailgate stay (LH/RH).



4. While holding tailgate at 45 degree angle, pull tailgate out from hinge [body side (LH)], then slide tailgate out of hinge [body side (RH)] and remove.

## INSTALLATION

Installation is in the reverse order of removal.

### CAUTION:

- Apply anticorrosive agent where necessary.
- After installation, check tailgate open/close and lock/unlock operation.
- Perform camera image calibration (if equipped with around view monitor). Refer to [AV-331, "Description"](#).

## TAILGATE STRIKER

### TAILGATE STRIKER : Removal and Installation

INFOID:0000000014391241

## REMOVAL

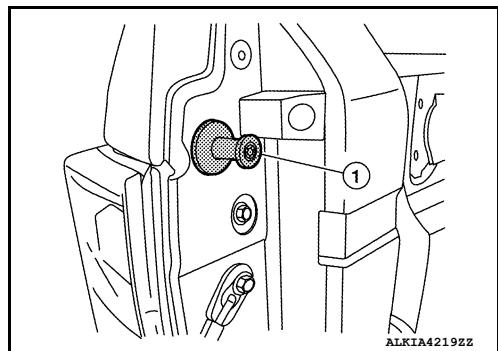
# TAILGATE

## < REMOVAL AND INSTALLATION >

Remove tailgate striker bolt (1).

**NOTE:**

LH shown, RH similar.



## INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

After installation, check tailgate open/close operation. If necessary, adjust tailgate striker. Refer to [DLK-183, "TAILGATE LOCK : Inspection".](#)

## TAILGATE HINGE

### TAILGATE HINGE : Removal and Installation

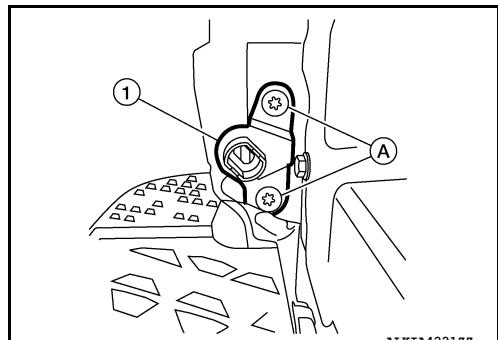
INFOID:0000000014391242

#### REMOVAL

1. Remove tailgate assembly. Refer to [DLK-166, "TAILGATE ASSEMBLY : Removal and Installation".](#)
2. Remove tailgate stay. Refer to [DLK-169, "TAILGATE STAY : Removal and Installation".](#)
3. Remove bolts (A) and then remove tailgate hinge [body side (1)].

**NOTE:**

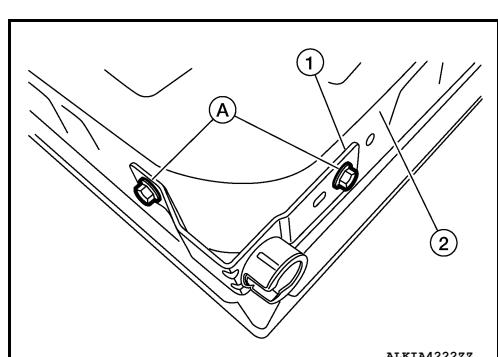
LH shown, RH similar.



4. Remove bolts (A), then remove tailgate hinge (LH) tailgate side (1).

**NOTE:**

LH shown, RH similar.



## INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

- Apply anticorrosive agent to hinge mating surface.
- After installation, check tailgate open/close and lock/unlock operation.
- Check tailgate hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.

## TAILGATE STAY

# TAILGATE

## < REMOVAL AND INSTALLATION >

### TAILGATE STAY : Removal and Installation

INFOID:000000014391243

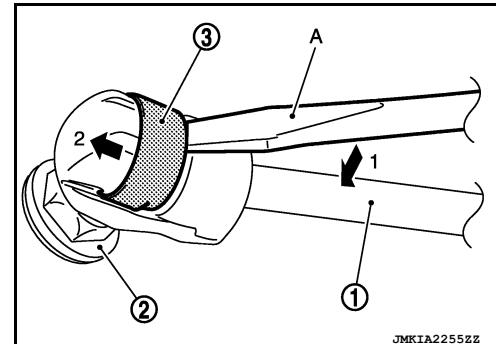
#### REMOVAL

##### **WARNING:**

The gas stay is under high pressure. Remove the gas stay only with the tailgate fully closed. Injury may result if the gas stay is removed when the tailgate is open.

1. Remove the rear combination lamp assembly (RH). Refer to [EXL-304, "Removal and Installation"](#) (LED HEADLAMP), or [EXL-145, "Removal and Installation"](#) (HALOGEN HEADLAMP).
2. Using suitable tool (A) release metal clip (3) as shown.

(1) : Hood stay  
(2) : Stud ball



3. Separate tailgate stay from stud ball tailgate hinge [ body side (RH)].
4. Separate tailgate stay from stud ball (body side) then remove tailgate stay.

#### INSTALLATION

Installation is in the reverse order of removal.

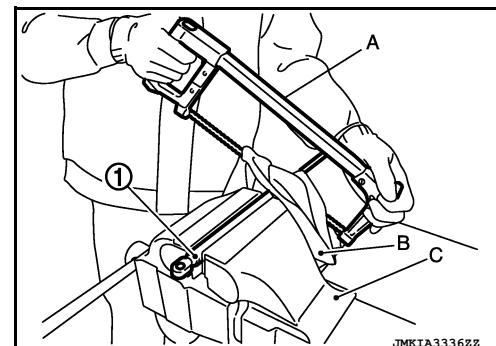
### TAILGATE STAY : Disposal

INFOID:000000014391244

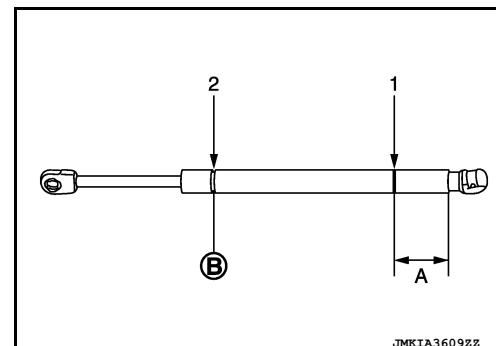
1. Fix tailgate stay (1) using a vise (C).
2. Using hacksaw (A) slowly make 2 holes in the tailgate stay, in numerical order as shown.

##### **CAUTION:**

- When cutting a hole on tailgate gas stay, always cover hacksaw with shop cloths (B) to avoid scattering metal fragments or oil.
- Wear eye protection (safety glasses).
- Wear gloves.



A: 20 mm. (0.8 in)  
B: Cut at the groove.



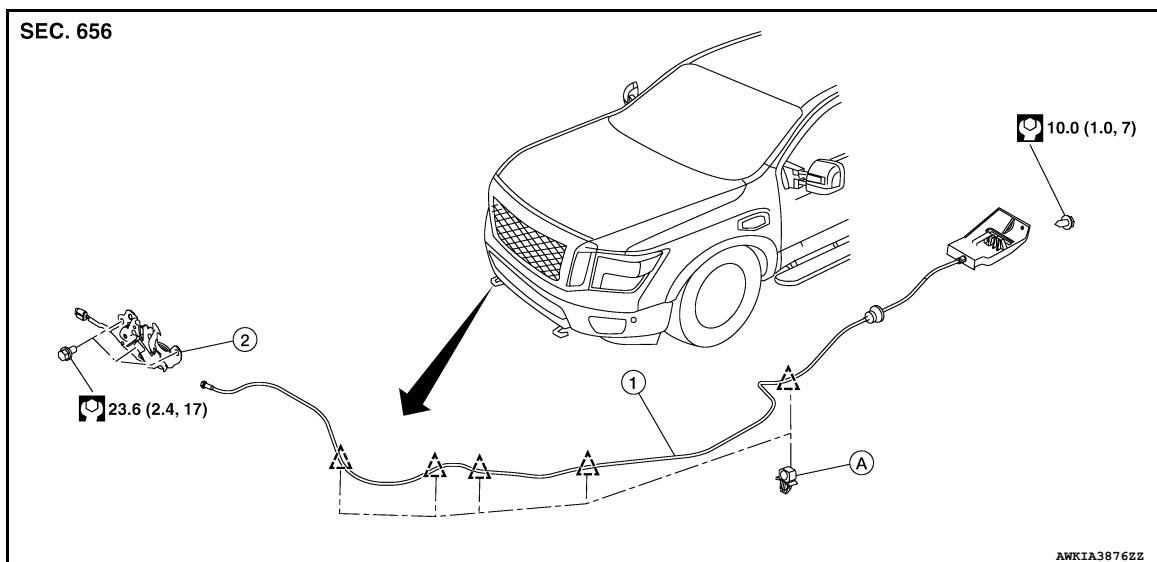
# HOOD LOCK

< REMOVAL AND INSTALLATION >

## HOOD LOCK

### Exploded View

INFOID:0000000014391245



1. Hood lock release cable

2. Hood lock

Clip

A. Clip

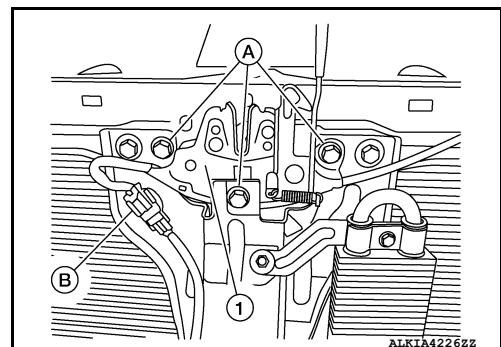
## HOOD LOCK

### HOOD LOCK : Removal and Installation

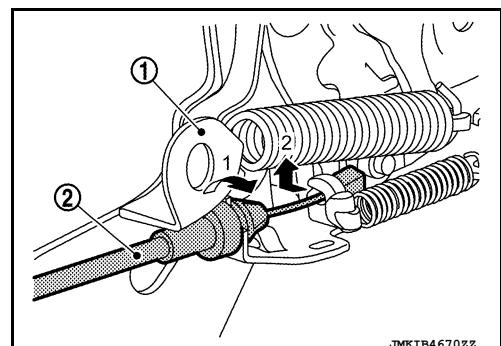
INFOID:0000000014391246

#### REMOVAL

1. Remove front grille. Refer to [EXT-32, "Removal and Installation"](#).
2. Remove bolts (A).
3. Disconnect harness connector (B) from hood lock (1).



4. Disconnect hood lock control cable (2) from hood lock (1) in the sequence shown.



#### INSTALLATION

# HOOD LOCK

## < REMOVAL AND INSTALLATION >

Installation is in the reverse order of removal.

### CAUTION:

- Check that hood lock release cable and secondary latch cable are properly engaged with hood lock.
- After installation, perform hood fitting adjustment. Refer to [DLK-145, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform hood lock control inspection. Refer to [DLK-171, "HOOD LOCK : Inspection"](#).

## HOOD LOCK : Inspection

INFOID:000000014391247

### NOTE:

If hood lock release cable is bent or deformed, replace it.

1. Check that secondary latch is properly engaged with secondary striker with hood's own weight.
2. While operating hood lock release handle, carefully check that front end of hood is raised by approximately 20.0 mm (0.79 in). Also check that hood lock release handle returns to original position.
3. Check that hood lock release handle 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).

### NOTE:

- Do not exert vertical force on right side and left side of hood lock.
- Do not press simultaneously on both sides.

5. Check hood lock lubrication condition. If necessary, apply a suitable multi-purpose grease to hood lock.

## HOOD LOCK RELEASE CABLE

## HOOD LOCK RELEASE CABLE : Removal and Installation

INFOID:000000014391248

### REMOVAL

1. Remove hood lock. Refer to [DLK-170, "HOOD LOCK : Removal and Installation"](#).
2. Release hood lock release cable clips using a suitable tool.
3. Remove instrument lower panel. Refer to [IP-22, "Removal and Installation"](#).
4. Remove hood lock release handle bolts.
5. Remove grommet on the lower dash, and pull the hood lock control cable toward the passenger compartment.

### CAUTION:

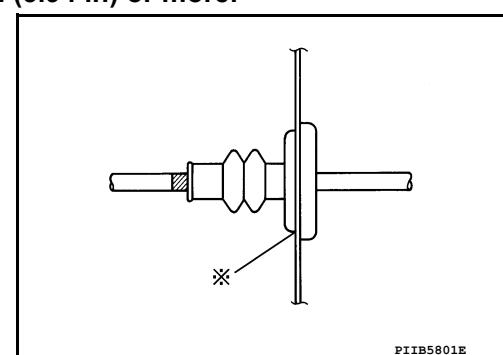
While pulling, be careful not to damage (peel) outside of hood lock release cable.

### INSTALLATION

Installation is in the reverse order of removal.

### CAUTION:

- Be careful not to bend cable too much; keep radius of 100 mm (3.94 in) or more.
- Check that cable is not offset from positioning grommet, and apply sealant to grommet (at \* mark) properly.



- Check that hood lock release cable is properly engaged with hood lock assembly.
- After installation, perform hood assembly adjustment procedure. Refer to [DLK-145, "HOOD ASSEMBLY : Adjustment"](#).
- After adjusting, perform hood lock inspection. Refer to [DLK-171, "HOOD LOCK : Inspection"](#).

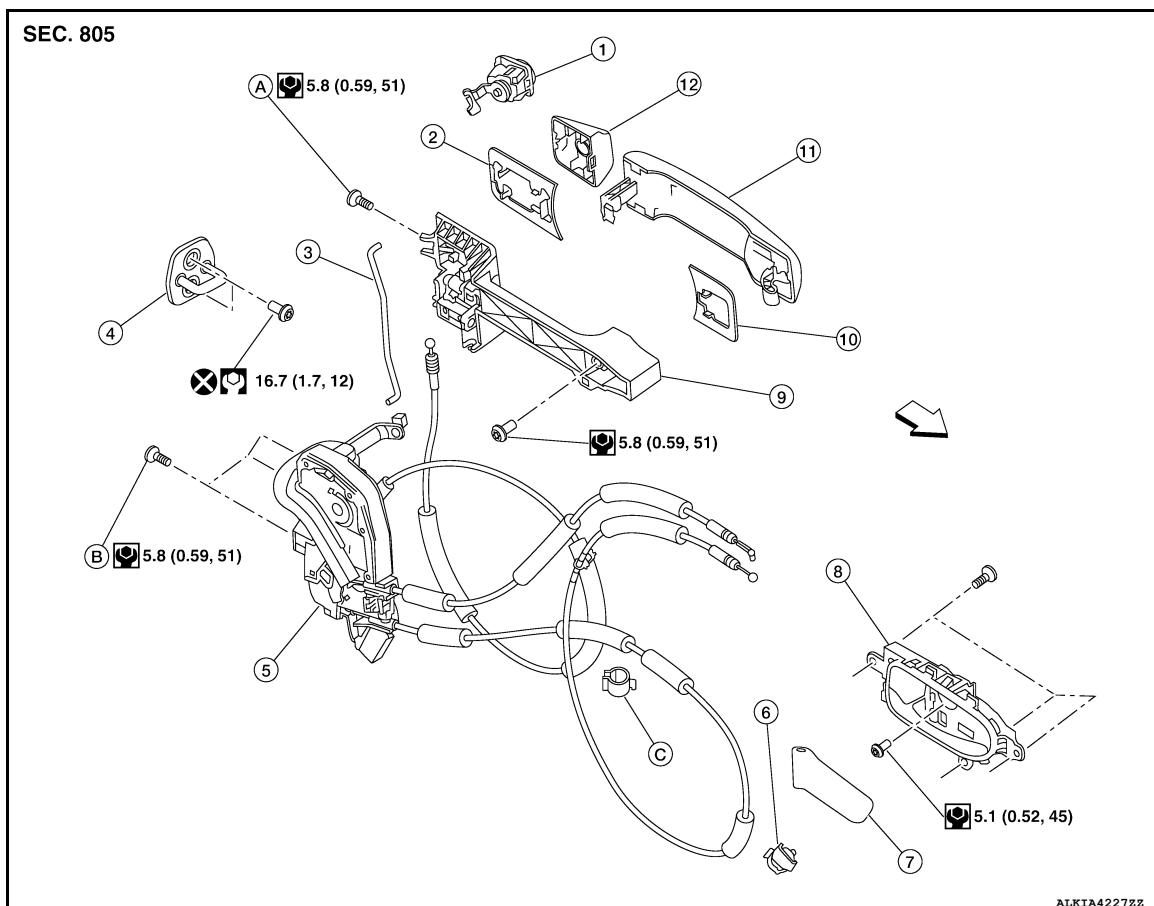
# FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

## FRONT DOOR LOCK

### Exploded View

INFOID:0000000014391249



1. Door lock cylinder	2. Rear gasket	3. Door key cylinder rod
4. Striker	5. Door lock	6. Cable clip
7. Inside door handle escutcheon	8. Inside handle	9. Outside handle bracket
10. Front gasket	11. Outside handle	12. Outside handle escutcheon
A. Outside handle bracket bolt	B. Door lock bolt	C. Cable clip
Ⓐ Pawl	Front	

## DOOR LOCK

### DOOR LOCK : Removal and Installation

INFOID:0000000014391250

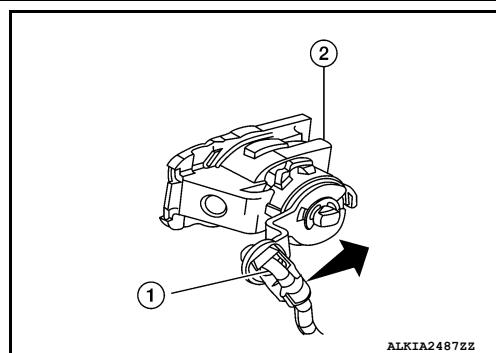
#### REMOVAL

1. Fully close the front door glass.
2. Remove front door finisher. Refer to [INT-14, "Removal and Installation"](#).
3. Partially remove front door vapor barrier (rear side).

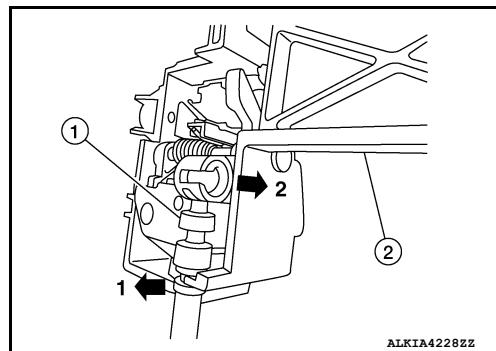
# FRONT DOOR LOCK

## < REMOVAL AND INSTALLATION >

4. Separate door key cylinder rod [1 (LH only)] from door key cylinder assembly [2 (LH only)].



5. Disconnect the harness connector from door lock.  
6. Disconnect outside handle cable (1) from outside handle bracket (2) in numerical order as shown.



7. Release door lock assembly cable clips.  
8. Remove front door lock bolts, then remove door lock.

**CAUTION:**

**Do not reuse front door lock bolts.**

## INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

- After installation, check that door lock cables are properly engaged to inside handle and outside handle bracket.
- When installing door key cylinder rod (LH only), be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check door open/close and lock/unlock operation.
- Check door lock assembly for poor lubrication. If necessary, apply a suitable multi-purpose grease.

DLK

## INSIDE HANDLE

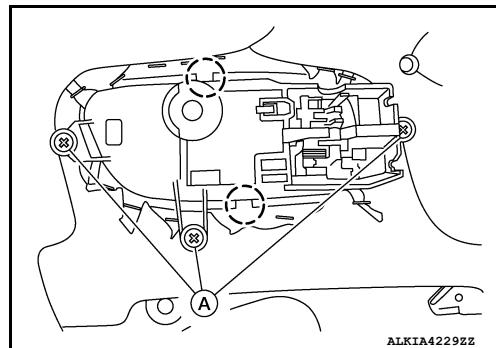
### INSIDE HANDLE : Removal and Installation

INFOID:0000000014391251

#### REMOVAL

1. Remove front door finisher. Refer to [INT-14, "Removal and Installation"](#).
2. Remove inside handle screws (A).
3. Release pawls and remove inside door handle.

○ : Pawl



## INSTALLATION

Installation is in the reverse order of removal.

# FRONT DOOR LOCK

## < REMOVAL AND INSTALLATION >

### CAUTION:

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

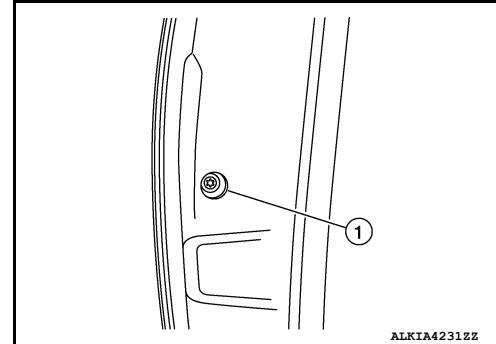
### OUTSIDE HANDLE

#### OUTSIDE HANDLE : Removal and Installation

INFOID:0000000014391252

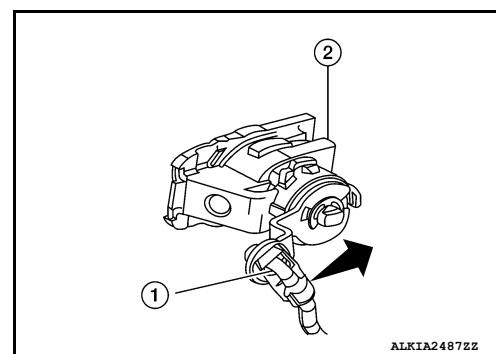
##### REMOVAL

1. Fully close front door glass.
2. Remove front door finisher. Refer to [INT-14, "Removal and Installation"](#).
3. Partially remove front door vapor barrier (rear side).
4. Remove door side grommet, and loosen front door lock bolt (1).



ALKIA4231ZZ

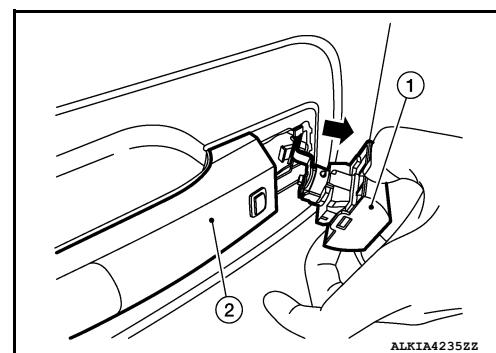
5. Separate door key cylinder rod [1 (LH only)] from door key cylinder assembly [2 (LH only)].



ALKIA2487ZZ

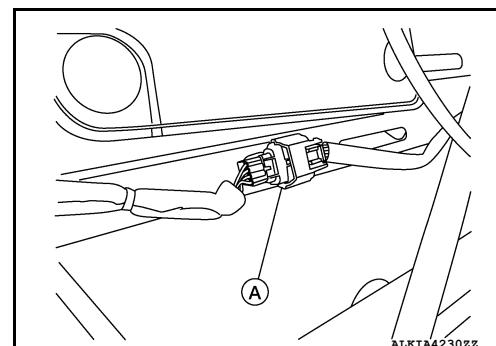
6. Remove door key cylinder assembly [1 (LH side)] or outside handle escutcheon (RH side).

(2) : Outside handle



ALKIA4235ZZ

7. Disconnect the harness connectors from door handle (A), then disengage harness clips.

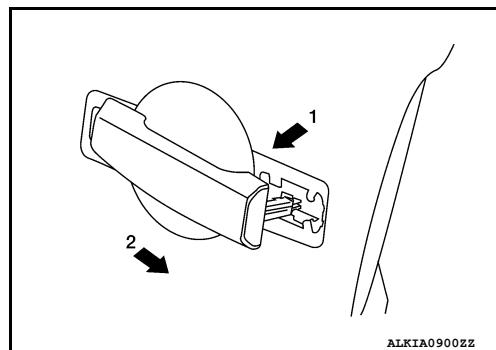


ALKIA4230ZZ

# FRONT DOOR LOCK

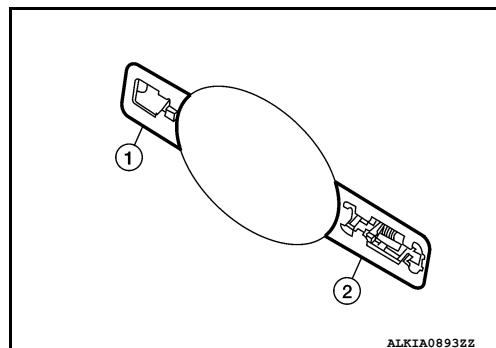
## < REMOVAL AND INSTALLATION >

8. While pulling outside handle (1), slide it toward rear of vehicle to remove outside handle.



A  
B  
C  
D

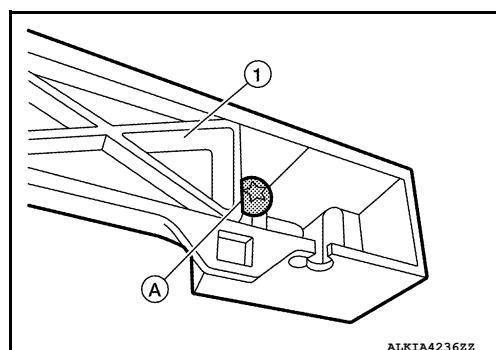
9. Remove front gasket (1) and rear gasket [2 (if necessary)].



E  
F  
G

10. Loosen screw [A (if necessary)].

(1) : Outside handle bracket

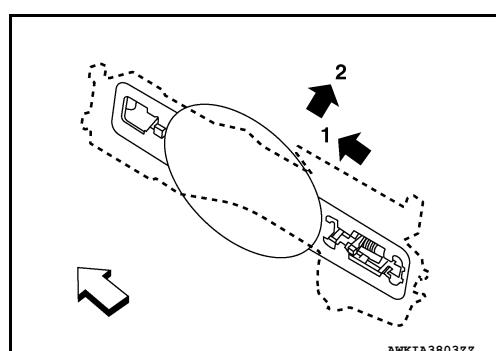


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I  
J

DLK

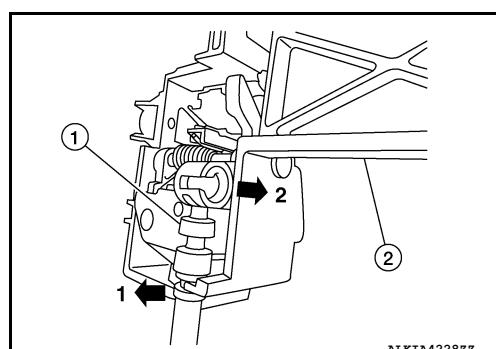
11. Remove handle bracket as shown (if necessary).

◀ : Front



L  
M  
N

12. Disconnect outside handle cable (1) from outside handle bracket (2) in numerical order as shown (if necessary).



O  
P

# FRONT DOOR LOCK

## < REMOVAL AND INSTALLATION >

### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

- When installing door key cylinder rod, be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check that door lock cable is properly engaged to outside handle bracket.
- After installation, check door open/close and lock/unlock operation.

### DOOR STRIKER

#### DOOR STRIKER : Removal and Installation

INFOID:0000000014391253

### REMOVAL

Remove bolts and front door striker.

### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

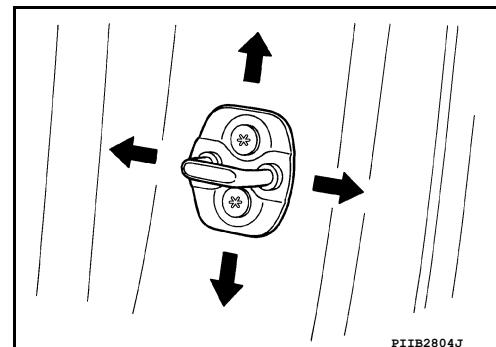
- Do not reuse front door striker bolts.
- After installation, check front door open/close operation. If necessary, adjust front door striker. Refer to [DLK-157, "DOOR ASSEMBLY : Adjustment"](#).

#### DOOR STRIKER : Adjustment

INFOID:0000000014391254

### DOOR STRIKER ADJUSTMENT

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



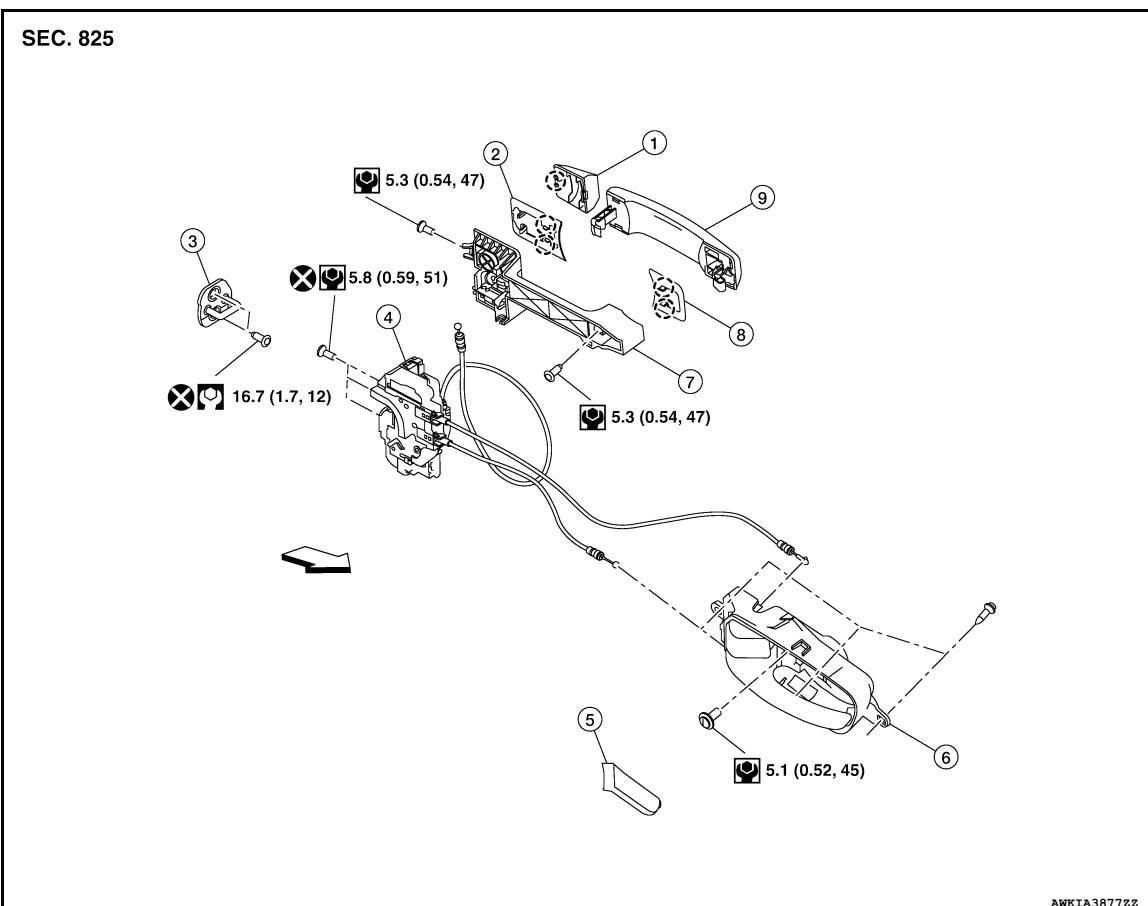
# REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

## REAR DOOR LOCK

### Exploded View

INFOID:0000000014391255



1. Outside handle escutcheon	2. Rear gasket	3. Striker
4. Door lock	5. Inside door handle escutcheon	6. Inside handle
7. Outside handle bracket	8. Front gasket	9. Outside handle
Pawl	Front	

## DOOR LOCK

### DOOR LOCK : Removal and Installation

INFOID:0000000014391256

#### REMOVAL

1. Fully close the rear door glass.
2. Remove rear door finisher. Refer to [INT-17, "Removal and Installation"](#).
3. Partially remove front door vapor barrier (rear side).
4. Disconnect harness connector from the door lock.

A

B

C

D

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G

H

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DLK

L

M

N

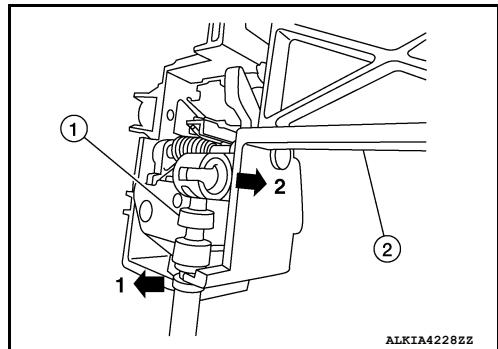
O

P

# REAR DOOR LOCK

## < REMOVAL AND INSTALLATION >

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



6. Remove rear door lock bolts, then remove door lock.

**CAUTION:**

Do not reuse rear door lock bolts.

## INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

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

## INSIDE HANDLE

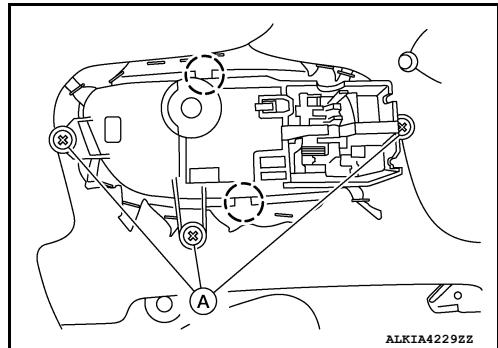
### INSIDE HANDLE : Removal and Installation

INFOID:0000000014391257

#### REMOVAL

1. Remove rear door finisher. Refer to [INT-17, "Removal and Installation"](#).
2. Remove inside handle screws (A).
3. Release pawls and remove inside door handle.

○ : Pawl



## INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

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

## OUTSIDE HANDLE

### OUTSIDE HANDLE : Removal and Installation

INFOID:0000000014391258

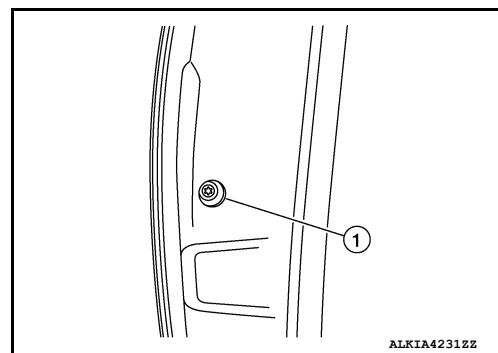
#### REMOVAL

1. Fully close rear door glass.
2. Remove rear door finisher. Refer to [INT-17, "Removal and Installation"](#).
3. Partially remove front door vapor barrier (rear side).

## REAR DOOR LOCK

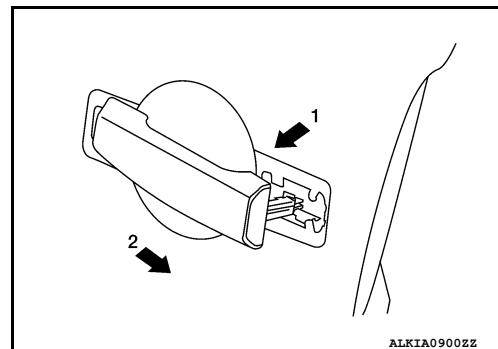
### < REMOVAL AND INSTALLATION >

4. Remove door side grommet, and loosen door lock bolt (1).



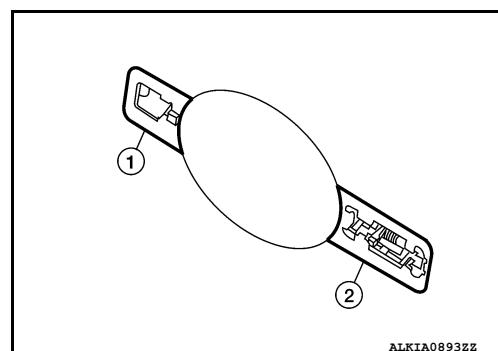
A  
B  
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5. Remove outside handle escutcheon.
6. While pulling outside handle (1), slide it toward rear of vehicle to remove outside handle.



E  
F  
G  
H  
I  
J

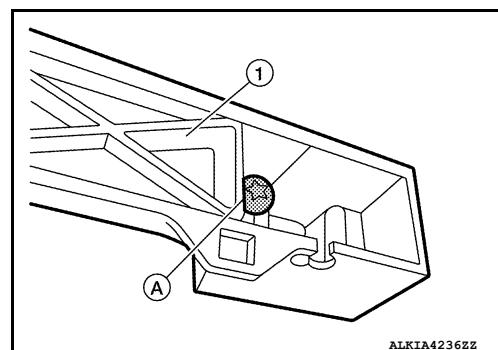
7. Remove front gasket (1) and rear gasket [2 (if necessary)].



DLK

8. Loosen screw [A (if necessary)].

(1) : Outside handle bracket



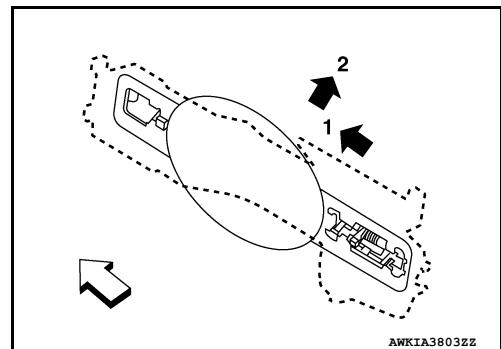
L  
M  
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P

## REAR DOOR LOCK

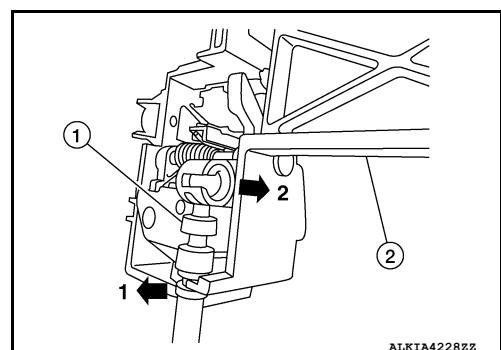
### < REMOVAL AND INSTALLATION >

9. Remove outside handle bracket as shown (if necessary).

◀ : Front



10. Disconnect outside handle cable (1) from outside handle bracket (2) in numerical order as shown (if necessary).



### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

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

### DOOR STRIKER

#### DOOR STRIKER : Removal and Installation

INFOID:0000000014391259

### REMOVAL

Remove bolts and rear door striker.

### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

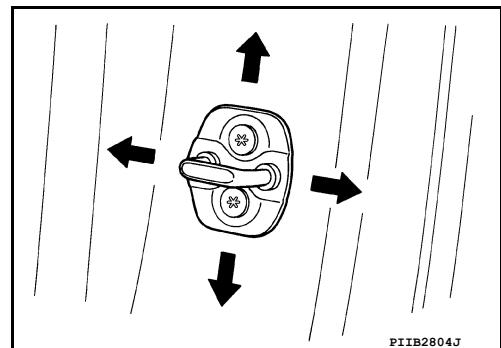
- Do not reuse rear door striker bolts.
- After installation, check rear door open/close operation. If necessary, adjust door striker. Refer to [DLK-180, "DOOR STRIKER : Adjustment"](#).

#### DOOR STRIKER : Adjustment

INFOID:0000000014391260

### DOOR STRIKER ADJUSTMENT

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



## REAR DOOR LOCK

### < REMOVAL AND INSTALLATION >

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3. After adjustment, tighten bolts to specified torque.

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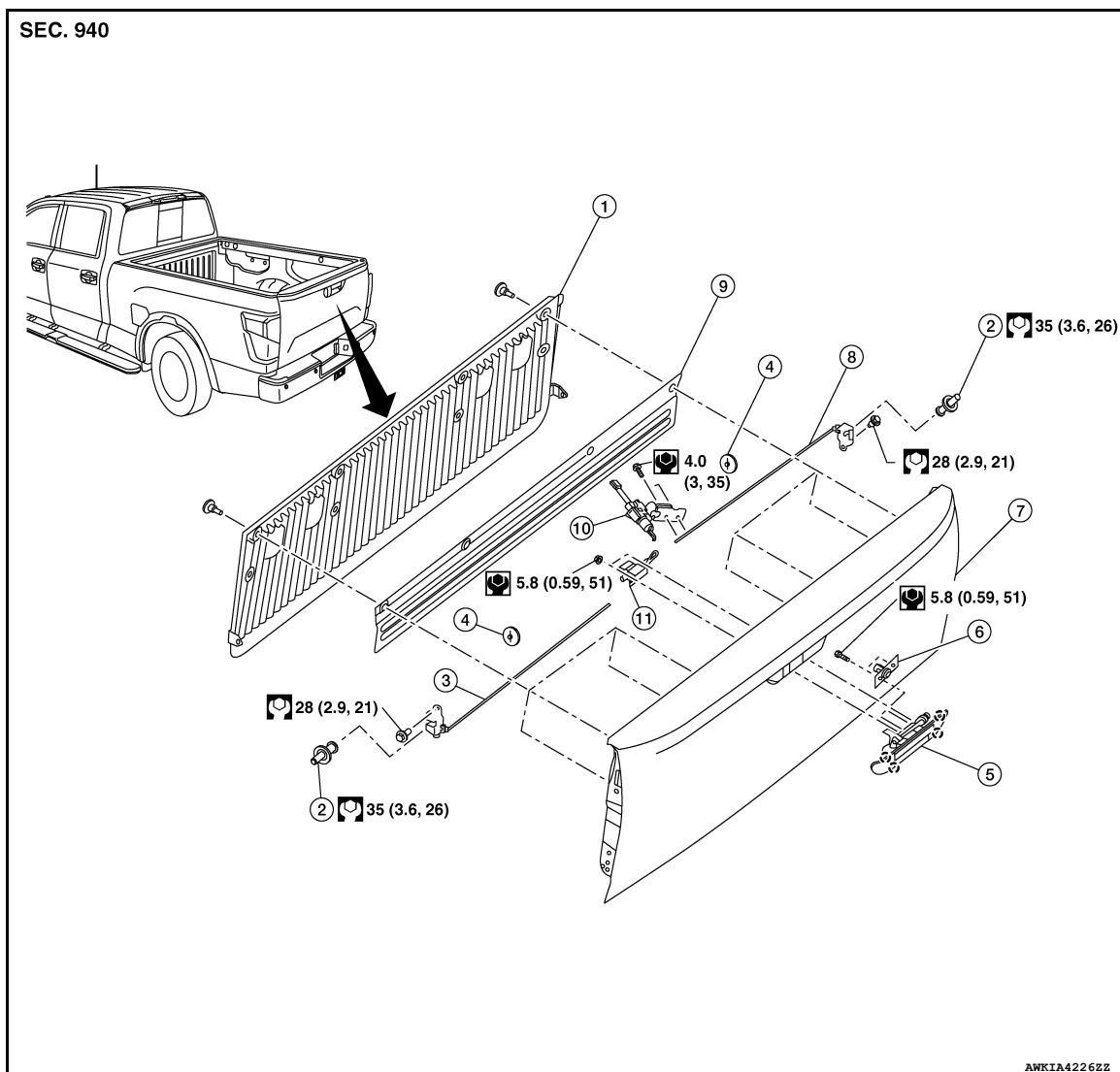
# TAILGATE LOCK

< REMOVAL AND INSTALLATION >

## TAILGATE LOCK

### Exploded View

INFOID:0000000014391261



1. Tailgate protector	2. Tailgate striker (LH/RH)	3. Tailgate lock (LH)
4. Lock rod protector (LH/RH)	5. Tailgate handle	6. Rear camera (if equipped)
7. Tailgate panel	8. Tailgate lock (RH)	9. Tailgate cover plate
10. Tailgate lock actuator (if equipped)	11. Tailgate control assembly	

## TAILGATE LOCK

### TAILGATE LOCK : Removal and Installation

INFOID:0000000014391262

#### REMOVAL

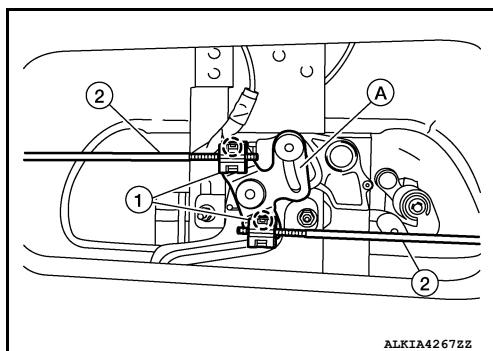
1. Remove tailgate protector.
2. Remove tailgate cover plate.

# TAILGATE LOCK

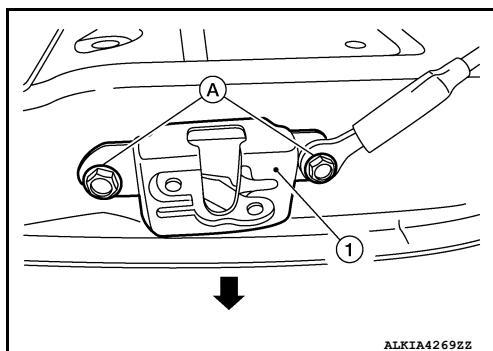
## < REMOVAL AND INSTALLATION >

3. Release pawls then disengage tailgate lock connecting rods (2) (LH/RH) from tailgate control (A) and remove tailgate control.

(1) :Tailgate control retainer  
(2) :Pawl



4. Remove tailgate lock bolts (A) (LH/RH) then remove tailgate lock (1) with rod as shown.



5. Disconnect tailgate connecting rod and tailgate lock (if necessary).

## INSTALLATION

Installation is in the reverse order of removal.

### CAUTION:

After installation, check that tailgate locks and unlocks normally. Refer to [DLK-183, "TAILGATE LOCK : Inspection".](#)

## TAILGATE LOCK : Inspection

INFOID:0000000014391263

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1. After opening and closing the tailgate, check that tailgate is fixed to the vehicle body normally.
2. Check the lock/unlock operation of tailgate.
3. Check tailgate lock for poor lubrication. Apply multi-purpose grease if necessary.

## TAILGATE HANDLE

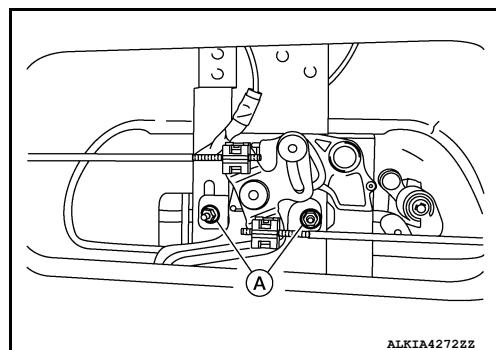
### TAILGATE HANDLE : Removal and Installation

INFOID:0000000014391264

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#### REMOVAL

1. Remove tailgate protector.
2. Remove tailgate cover plate.
3. Disconnect harness connector from rear camera (if equipped).
4. Remove bolts (A) and tailgate handle.

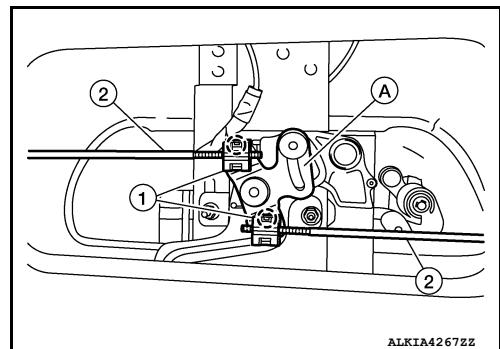


# TAILGATE LOCK

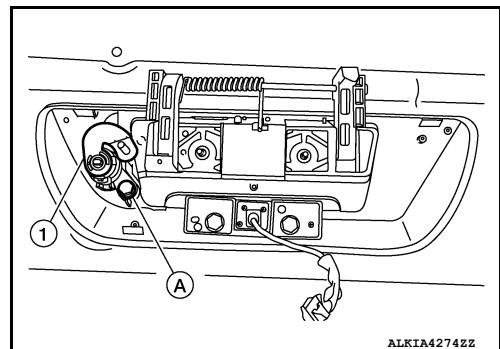
## < REMOVAL AND INSTALLATION >

5. Release tailgate control retainer (1) pawls then disengage tailgate lock connecting rods (2) (LH/RH) from tailgate control (A) and remove tailgate control (if necessary).

○ :Pawl



6. Remove bolt (A) and tailgate key cylinder [1 (if necessary)].



## INSTALLATION

Installation is in the reverse order of removal.

### CAUTION:

- After installation, check that tailgate locks and unlocks normally. Refer to [DLK-183, "TAILGATE LOCK : Inspection"](#).
- Perform camera image calibration (if equipped with around view monitor). Refer to [AV-331, "Description"](#).

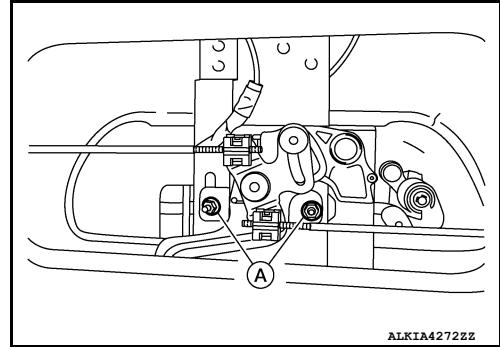
## TAILGATE LOCK ACTUATOR

### TAILGATE LOCK ACTUATOR : Removal and Installation

INFOID:0000000014709624

## REMOVAL

1. Remove tailgate protector.
2. Remove tailgate cover plate.
3. Disconnect harness connector from the tailgate lock actuator.
4. Remove tailgate lock actuator bolts.
5. Remove bolts (A) then lift tailgate control assembly.



6. Slide tailgate lock actuator over the key cylinder pin and remove.

## INSTALLATION

Installation is in the reverse order of removal.

### CAUTION:

## TAILGATE LOCK

### < REMOVAL AND INSTALLATION >

After installation, check that tailgate locks and unlocks normally. Refer to [DLK-183, "TAILGATE LOCK: Inspection".](#)

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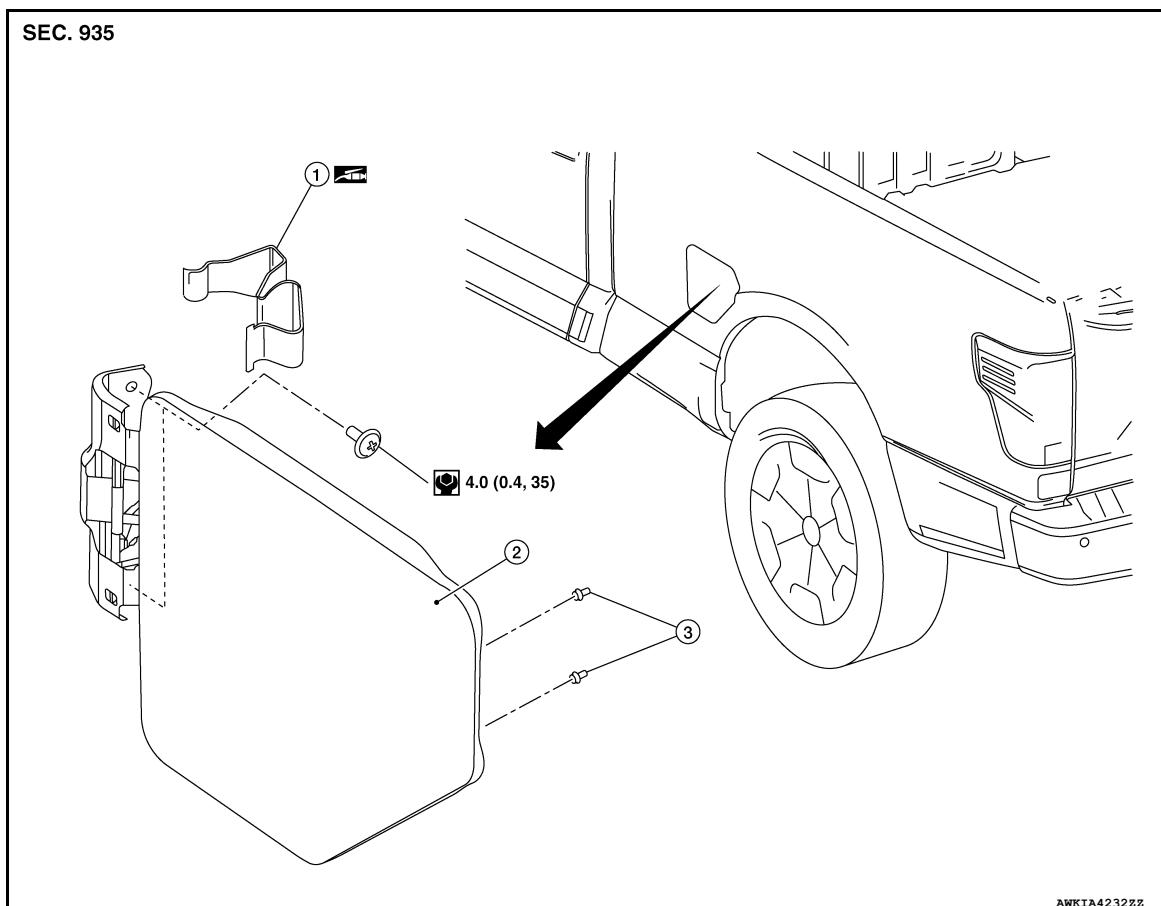
## FUEL FILLER LID

< REMOVAL AND INSTALLATION >

### FUEL FILLER LID

Exploded View - XD Models

INFOID:0000000014391265



1. Fuel filler lid spring

2. Fuel filler lid

3. Bumper rubber

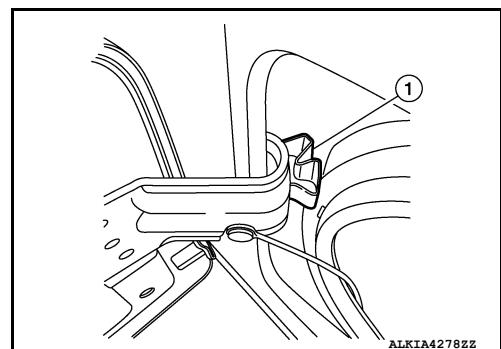
### FUEL FILLER LID

#### FUEL FILLER LID : Removal and Installation - XD Models

INFOID:0000000014391266

##### REMOVAL

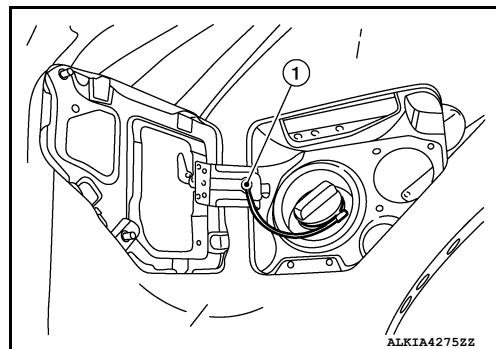
1. Fully open fuel filler lid.
2. Remove fuel filler lid spring (1).



## FUEL FILLER LID

### < REMOVAL AND INSTALLATION >

3. Remove fuel cap pin (1).



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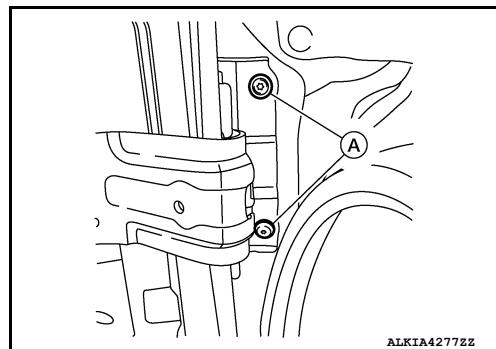
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4. Remove screws (A), and remove fuel filler lid.



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### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

After installation, check fuel filler lid assembly open/close and lock/unlock operation.

#### NOTE:

The following table shows the specified values for checking normal installation status.

Fitting adjustment cannot be performed.

Unit: mm [in]

Portion	Clearance	Surface Height
Fuel filler lid – Side panel	$3.5 \pm 1.0$ (0.14 ±0.04)	$0.5 \pm 1.0$ (0.02 ±0.04)

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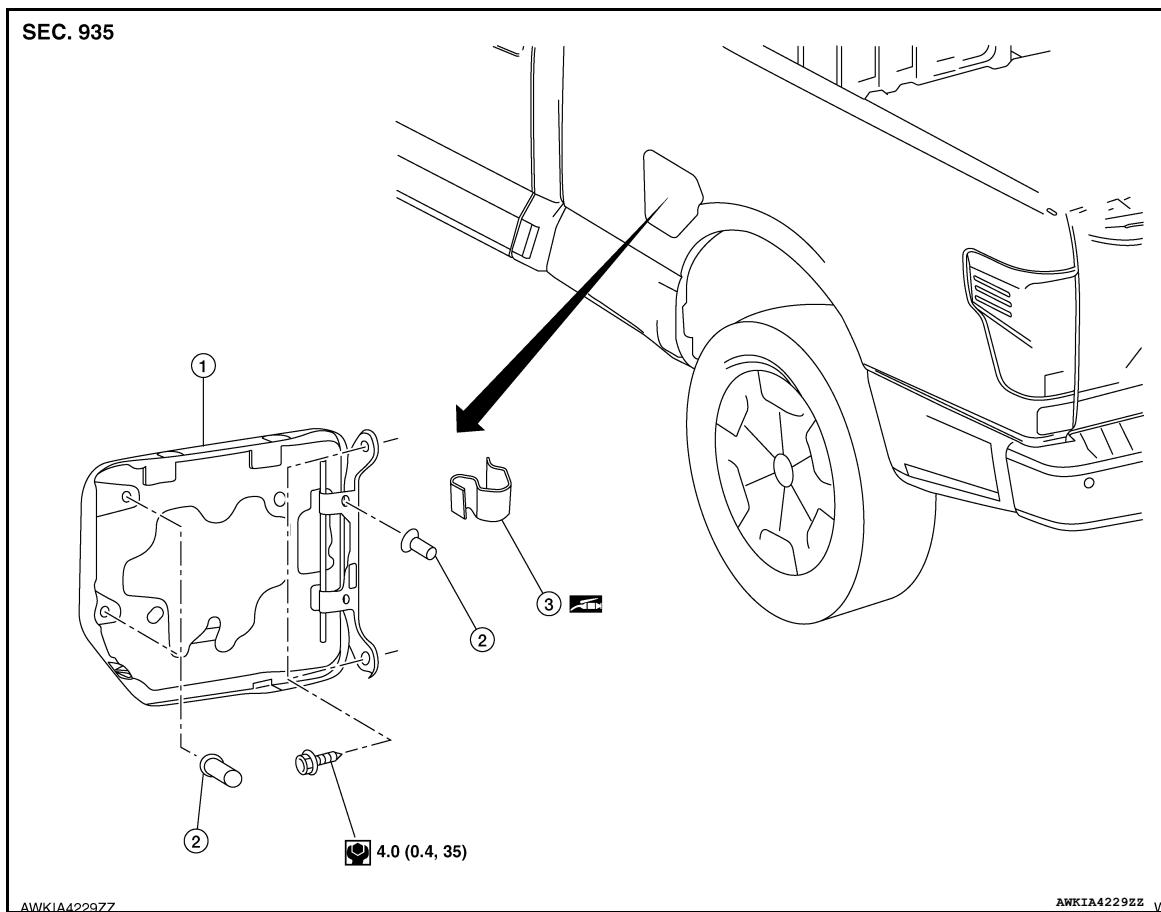
P

# FUEL FILLER LID

< REMOVAL AND INSTALLATION >

Exploded View - Non-XD Models

INFOID:0000000014714314



1. Fuel filler lid

2. Bumper rubber

3. Fuel filler lid spring

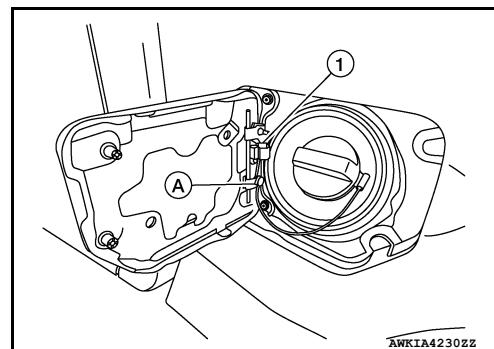
## FUEL FILLER LID

### FUEL FILLER LID : Removal and Installation - Non-XD Models

INFOID:0000000014714315

#### REMOVAL

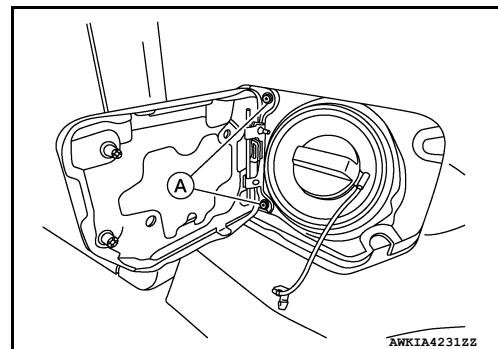
1. Fully open fuel filler lid.
2. Remove fuel filler lid spring (1).
3. Remove fuel cap pin (A).



## FUEL FILLER LID

### < REMOVAL AND INSTALLATION >

4. Remove screws (A), and remove fuel filler lid.



### INSTALLATION

Installation is in the reverse order of removal.

#### CAUTION:

After installation, check fuel filler lid assembly open/close and lock/unlock operation.

#### NOTE:

The following table shows the specified values for checking normal installation status.

Fitting adjustment cannot be performed.

Unit: mm [in]

Portion	Clearance	Surface Height
Fuel filler lid – Side panel	$3.5 \pm 1.0$ (0.14 ±0.04)	$0.5 \pm 1.0$ (0.02 ±0.04)

A  
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# KEY CYLINDER

< REMOVAL AND INSTALLATION >

## KEY CYLINDER

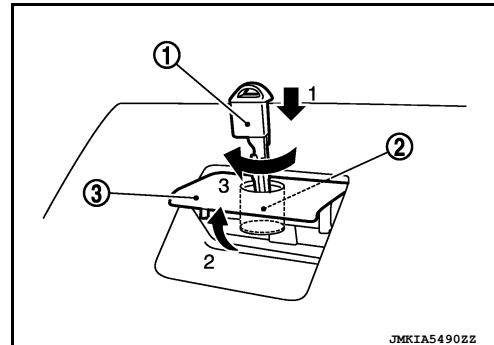
### GLOVE BOX LID KEY CYLINDER

#### GLOVE BOX LID KEY CYLINDER : Removal and Installation

INFOID:0000000014391267

##### REMOVAL

1. Insert key (1) into glove box lid lock cylinder (2).
2. Pull upward on glove box lid release handle (3).
3. Rotate key (1) and turn glove box lid key cylinder (2) to the lock position.

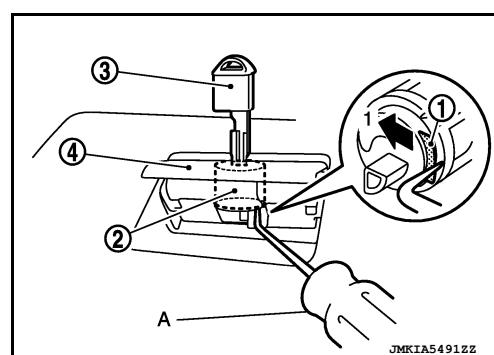


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4. Press tumbler stopper (1) into glove box lid lock cylinder (2) using a suitable tool (A), and then remove key (3) and glove box lid lock cylinder together from glove box lid release handle (4).

**NOTE:**

When removing glove box lid lock cylinder (2) note the position of cylinder to glove box lid release handle (4).



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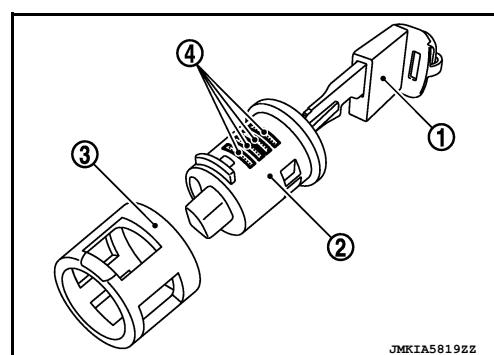
5. Remove sleeve (3) from glove box lid release handle and then install sleeve to glove box lid lock cylinder.

**NOTE:**

When removing sleeve note the position of sleeve to glove box lid release handle.

**CAUTION:**

**Do not pull out key (1) from glove box lid lock cylinder (2) while sleeve (3) is removed. Otherwise, tumblers (4) may be lost from glove box lid lock cylinder.**



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##### INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**

After installation, check glove box open/close, lock/unlock operation.

# DOOR SWITCH

## < REMOVAL AND INSTALLATION >

### DOOR SWITCH

#### Removal and Installation

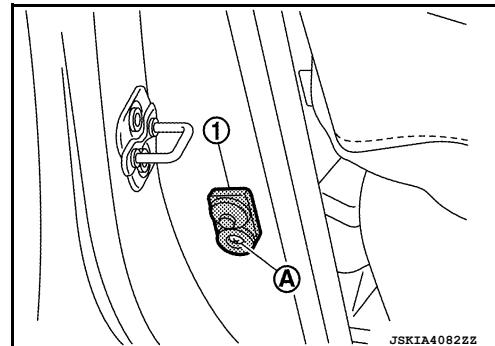
INFOID:0000000014391268

##### REMOVAL

1. Remove the door switch bolt (A).
2. Disconnect door switch connector and remove door switch (1).

##### NOTE:

Front door shown rear door similar.



##### INSTALLATION

Installation is in the reverse order of removal.

**Door switch bolt : 10.1 Nm (0.35 kg-m, 7 ft-lb)**

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# INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

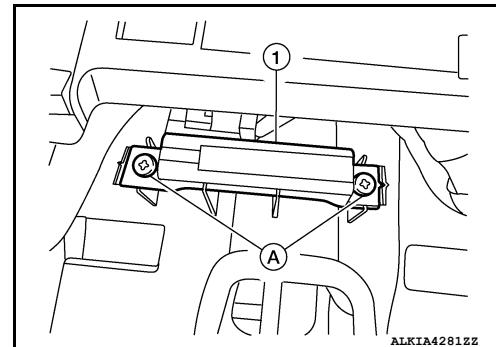
## INSIDE KEY ANTENNA INSTRUMENT CENTER

### INSTRUMENT CENTER : Removal and Installation

INFOID:000000014391269

#### REMOVAL

1. Remove cluster lid C lower. Refer to [IP-17, "CLUSTER LID C LOWER : Removal and Installation".](#)
2. Disconnect the harness connector from the inside key antenna (instrument center).
3. Remove inside key antenna (instrument center) screws (A), and then remove inside key antenna [instrument center (1)].



#### INSTALLATION

Installation is in the reverse order of removal.

#### CONSOLE

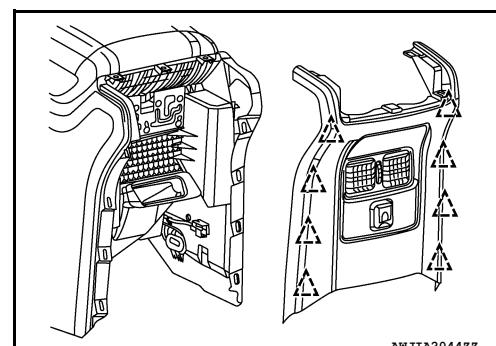
### CONSOLE : Removal and Installation

INFOID:000000014391270

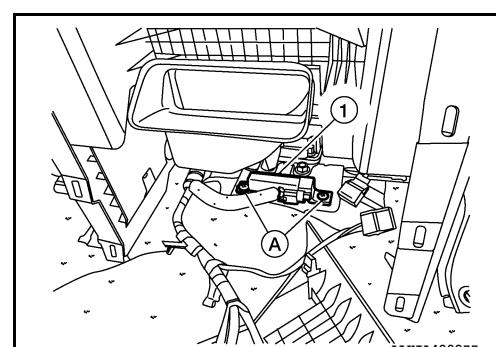
#### REMOVAL

1. Release clips using a suitable tool and remove center console rear finisher.

△ : Clip



2. Remove screws (A), then remove inside key antenna [console] (1).



#### INSTALLATION

Installation is in the reverse order of removal.

#### CENTER SEAT

# INSIDE KEY ANTENNA

## < REMOVAL AND INSTALLATION >

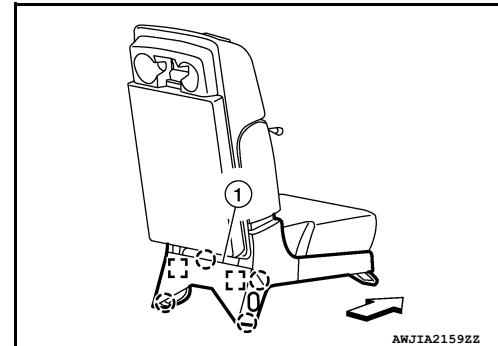
### CENTER SEAT : Removal and Installation

INFOID:000000014726814

#### REMOVAL

1. Release metal clips and pawls, then remove rear leg finisher (1).

- : Pawl
- : Metal clip
- ← : Front



2. Remove screws then remove inside key antenna (center seat).

#### INSTALLATION

Installation is in the reverse order of removal.

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## OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

### OUTSIDE KEY ANTENNA

#### OUTSIDE HANDLE

##### OUTSIDE HANDLE : Removal and Installation

INFOID:000000014391271

###### REMOVAL

The outside key antenna is serviced as an assembly with the front outside handle grip. Refer to [DLK-174](#), ["OUTSIDE HANDLE : Removal and Installation"](#).

###### 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:000000014391272

A

##### REMOVAL

The driver side door request switch and driver side outside handle are serviced as an assembly. Refer to [DLK-174, "OUTSIDE HANDLE : Removal and Installation"](#).

C

##### INSTALLATION

Installation is in the reverse order of removal.

D

### PASSENGER SIDE

#### PASSENGER SIDE : Removal and Installation

INFOID:000000014391273

E

##### REMOVAL

The passenger side door request switch and passenger side outside handle are serviced as an assembly. Refer to [DLK-178, "OUTSIDE HANDLE : Removal and Installation"](#).

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##### INSTALLATION

Installation is in the reverse order of removal.

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# INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

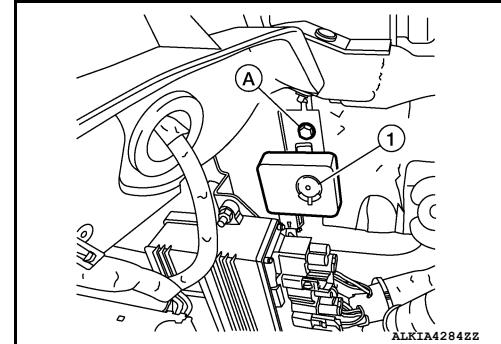
## INTELLIGENT KEY WARNING BUZZER

### Removal and Installation

INFOID:0000000014391274

#### REMOVAL

1. Disconnect harness connector from the Intelligent Key warning buzzer (1).
2. Remove bolt (A) and Intelligent Key warning buzzer and bracket.



3. Remove Intelligent Key warning buzzer from bracket.

#### INSTALLATION

Installation is in the reverse order of removal.

# REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

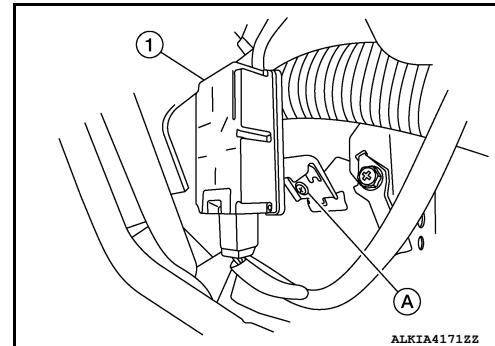
## REMOTE KEYLESS ENTRY RECEIVER

### Removal and Installation

INFOID:0000000014391275

#### REMOVAL

1. Remove instrument upper panel. Refer to [IP-17, "INSTRUMENT UPPER PANEL : Removal and Installation"](#).
2. Disconnect the harness connector from the remote keyless entry receiver (1).
3. Remove screw (A) and remote keyless entry receiver.



4. Remove remote keyless entry receiver from bracket.

#### INSTALLATION

Installation is in the reverse order of removal.

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# INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

## INTELLIGENT KEY BATTERY

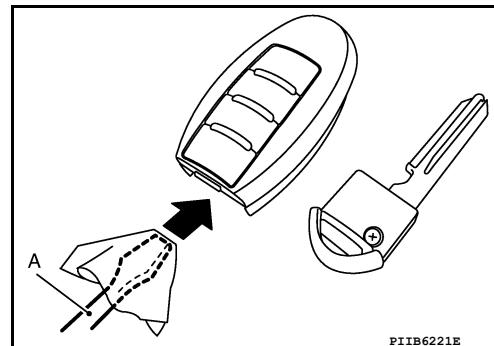
### Removal and Installation

INFOID:0000000014391276

1. Release lock knob on back of Intelligent Key and remove key.
2. Insert a suitable tool (A) wrapped with a cloth into slit of corner and twist it to separate upper part from lower part.

**CAUTION:**

- Do not insert a tool into notches of Intelligent Key to pry it open as this may damage circuit board.
- Do not use excessive force when opening Intelligent Key as this may result in damage to internal components.
- Do not touch circuit board or battery terminal.
- Key fob is water-resistant. However, if it does get wet, immediately wipe it dry.



3. Replace battery with a new one.

**Battery replacement**

:Coin-type lithium battery  
(CR2032)

4. Align tips of upper and lower parts, and then push them together until unit is securely closed.

**CAUTION:**

- When replacing battery, keep dirt, grease, and other foreign materials off electrode contact area.
- After replacing battery, check that all Intelligent Key functions work normally.

