

SECTION **DLK** DOOR & LOCK

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PRECAUTION

PRECAUTIONS

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

INFOID:0000000011552753

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.

Precaution for Servicing Doors and Locks

INFOID:0000000011218553

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.

PRECAUTIONS

< PRECAUTION >

[WITH INTELLIGENT KEY SYSTEM]

Precaution for Work

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

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PREPARATION

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[WITH INTELLIGENT KEY SYSTEM]

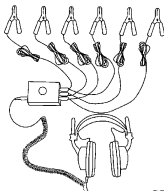
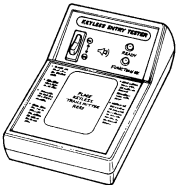
PREPARATION

PREPARATION

Special Service Tool

INFOID:0000000011218554

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

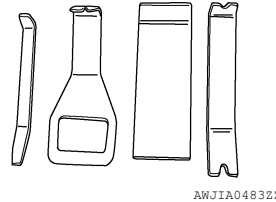
Tool number (TechMate No.) Tool name		Description
— (J-39570) Chassis Ear	 SIIA0993E	Locating the noise
— (J-50397) NISSAN Squeak and Rattle Kit	 ALJIA1232Z	Repairing the cause of noise
— (J-43241) Remote Keyless Entry Tester		Used to test keyfobs
— (J-50190) Signal Tech II	 ALEIA0131Z	• Activate and display TPMS transmitter IDs • Display tire pressure reported by the TPMS transmitter • Read TPMS DTCs • Register TPMS transmitter IDs • Check Intelligent Key relative signal strength • Confirm vehicle Intelligent Key antenna signal strength • Compatible with future sensors • Equipped with a display

PREPARATION

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[WITH INTELLIGENT KEY SYSTEM]

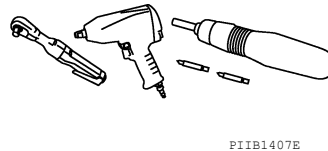
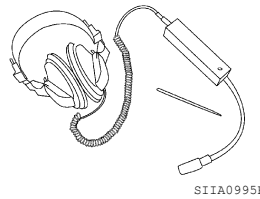
Tool number (TechMate No.) Tool name	Description
KV48105501 (J-45295-A) Transmitter Activation Tool	• Activate TPMS transmitter IDs • Compatible with future sensors • Equipped with a display (KV48105501 only)
— (J-46534) Trim Tool Set	Removing trim components



Commercial Service Tool

INFOID:0000000011218555

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



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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

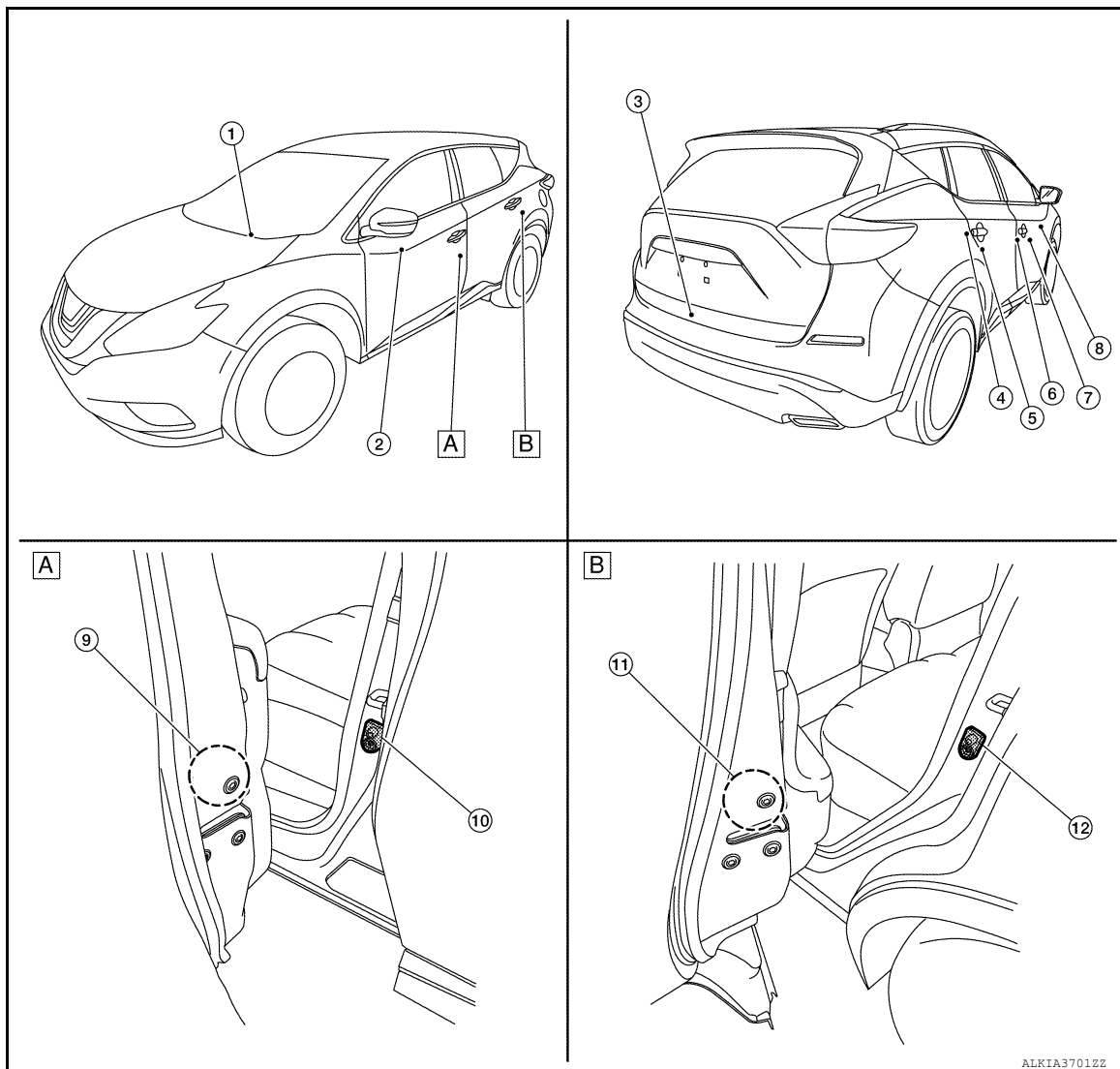
SYSTEM DESCRIPTION

COMPONENT PARTS

POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : Component Parts Location

INFOID:0000000011218556



A. View of left front door

B. View of left rear door

No.	Component	Function
1.	BCM	BCM controls the door lock system. Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
2.	Main power window and door lock/unlock switch	DLK-19, "Door Lock and Unlock Switch (Driver Side)"
3.	Back door lock assembly (door ajar switch)	DLK-18, "Back Door Lock Assembly"
4.	Rear door switch RH	DLK-22, "Rear Door Switch"
5.	Rear door lock actuator RH	Rear door lock actuator locks/unlocks the rear door latch assembly.
6.	Front door switch RH	DLK-22, "Front Door Switch"

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

No.	Component	Function
7.	Front door lock actuator RH	Front door lock actuator locks/unlocks the front door latch assembly.
8.	Power window and door lock/unlock switch RH	DLK-19, "Door Lock and Unlock Switch (Passenger Side)"
9.	Front door lock assembly LH	DLK-22, "Front Door Lock Assembly (LH)"
10.	Front door switch LH	DLK-22, "Front Door Switch"
11.	Rear door lock actuator LH	Rear door lock actuator locks/unlocks the rear door latch assembly.
12.	Rear door switch LH	DLK-22, "Rear Door Switch"

INTELLIGENT KEY SYSTEM

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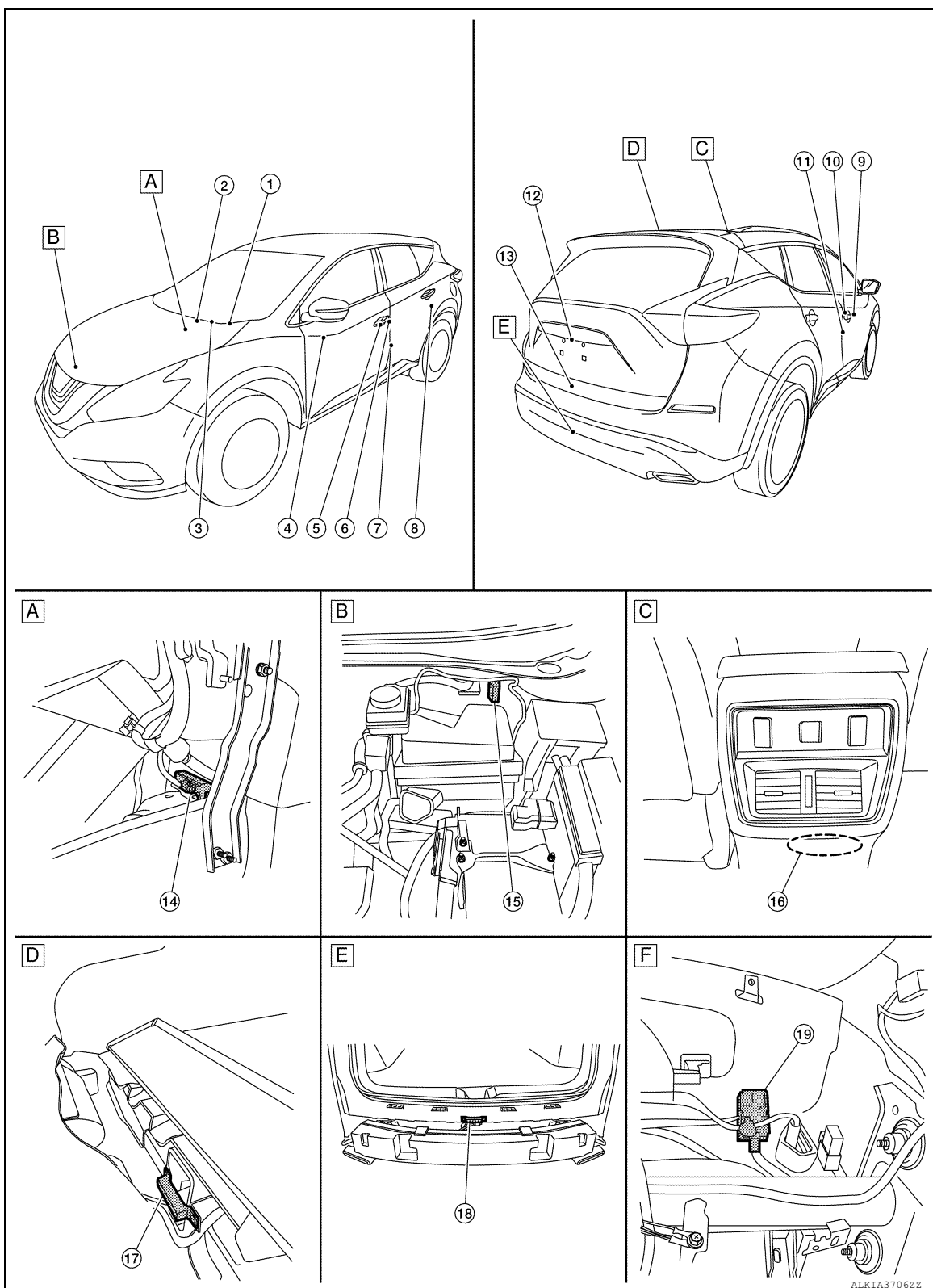
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM : Component Parts Location

INFOID:000000011218557



A. View in front area of the console with the console assembly removed

B. View of left side of engine compartment

C. View of rear center console

D. View of rear floor behind rear seats

E. View with rear bumper fascia removed

F. View with instrument panel removed

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

No.	Component	Function
1.	Combination meter	Combination meter transmits the vehicle speed signal to BCM via CAN communication. BCM also receives the vehicle speed signal from ABS actuator and electric unit (control unit) via CAN communication. BCM compares both signals to detect the vehicle speed. Security indicator lamp is located on combination meter. Security indicator lamp blinks when ignition switch is in any position other than ON to warn that NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS [NVIS (NATS)] is on board. Refer to MWI-5, "METER SYSTEM : Component Parts Location" .
2.	Push-button ignition switch	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. BCM changes the ignition switch position with the operation of push-button ignition switch. BCM maintains the ignition switch position status while push-button ignition switch is not operated.
3.	BCM	BCM controls INTELLIGENT KEY SYSTEM (ENGINE START FUNCTION), NISSAN VEHICLE IMMOBILIZER SYSTEM-NATS [NVIS (NATS)] and VEHICLE SECURITY SYSTEM. BCM performs the ID verification between BCM and Intelligent Key when the Intelligent Key is carried into the detection area of inside key antenna and push-button ignition switch is pressed. If the ID verification result is OK, ignition switch operation is available. Then, when the ignition switch is turned ON, BCM performs ID verification between BCM and ECM. If the ID verification result is OK, ECM can start engine. Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
4.	Main power window and door lock/unlock switch	Door lock and unlock switch is integrated into the power window main switch. Door lock and unlock switch transmits door lock/unlock operation signal to BCM. Refer to PWC-7, "Main Power Window and Door Lock/Unlock Switch" .
5.	Outside key antenna LH	Outside key antenna (LH) detects whether Intelligent Key is outside the vehicle or not and then transmits the signal to the BCM. Refer to DLK-20, "Outside Key Antenna (LH)" .
6.	Door request switch LH	Door request switch transmits door lock/unlock request signal to the BCM.
7.	Front door lock assembly LH	Door key cylinder switch is integrated into front door lock assembly (driver side). Door key cylinder switch detects door LOCK/UNLOCK operation using mechanical key and then transmits the operation signal to BCM. Refer to DLK-22, "Front Door Lock Assembly (LH)" .
8.	Rear door lock actuator LH	Rear door lock actuator locks/unlocks the rear door latch assembly.
9.	Outside key antenna RH	Outside key antenna (RH) detects whether Intelligent Key is outside the vehicle or not, and then transmits the signal to the BCM. Refer to DLK-21, "Outside Key Antenna (RH)" .
10.	Door request switch RH	Door request switch transmits door lock/unlock request signal to the BCM.
11.	Door switch RH	Door switch detects door open/close condition and then transmits ON/OFF signal to BCM.
12.	Back door opener switch	Back door opener switch transmits door lock/unlock request signal to the BCM.
13.	Back door lock assembly	Back door lock actuator locks/unlocks the back door latch assembly.
14.	Inside key antenna (instrument center)	Inside key antenna (instrument center) detects whether Intelligent Key is inside the vehicle or not and then transmits the signal to the BCM. Refer to DLK-20, "Inside Key Antenna (Instrument Center)" .
15.	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.
16.	Inside key antenna (console)	Inside key antenna (console) detects whether Intelligent Key is inside the vehicle or not and then transmits the signal to the BCM. Refer to DLK-20, "Inside Key Antenna (Console)" .

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

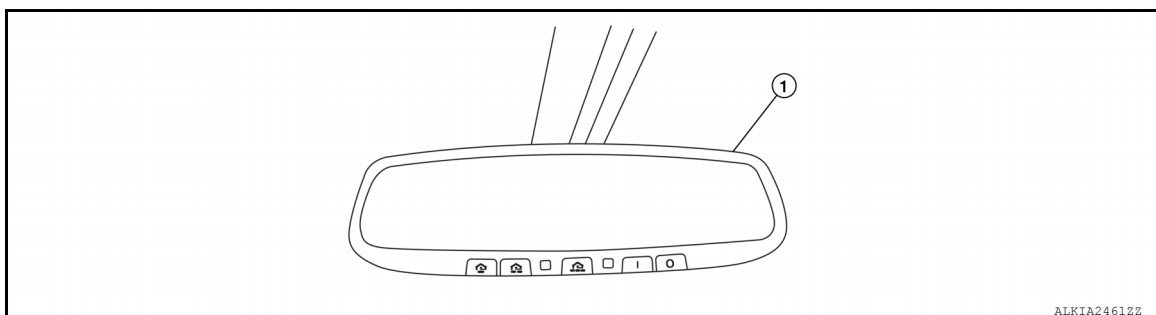
[WITH INTELLIGENT KEY SYSTEM]

No.	Component	Function
17.	Inside key antenna (luggage room)	Inside key antenna (luggage room) detects whether Intelligent Key is inside the vehicle or not and then transmits the signal to the BCM.
18.	Outside key antenna (rear bumper)	Outside key antenna (rear bumper) detects whether Intelligent Key is outside the vehicle or not and then transmits the signal to the BCM. Refer to DLK-20, "Outside Key Antenna (Rear Bumper)" .
19.	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 DLK-19, "Remote Keyless Entry Receiver" .

INTEGRATED HOMELINK TRANSMITTER

INTEGRATED HOMELINK TRANSMITTER : Component Parts Location

INFOID:000000011218558



No.	Component	Function
1.	Auto anti-dazzling inside mirror	DLK-22, "Integrated Homelink Transmitter"

AUTOMATIC BACK DOOR SYSTEM

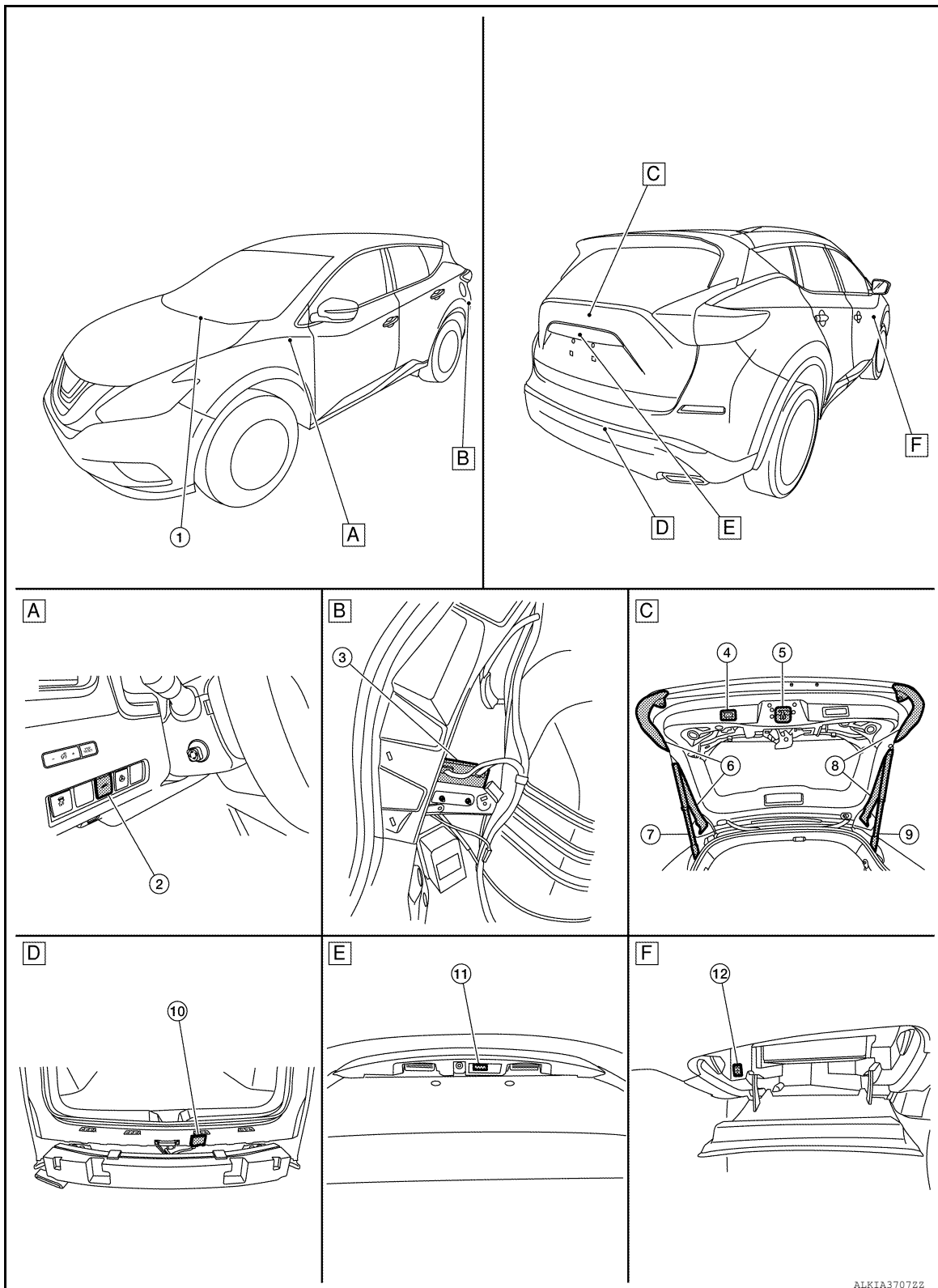
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM : Component Parts Location

INFOID:000000011218559



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

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

No.	Component	Function
1.	BCM	BCM transmits and receives signal to the automatic back door control module. Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
2.	Automatic back door switch	DLK-18, "Automatic Back Door Switch"
3.	Automatic back door control module	DLK-18, "Automatic Back Door Control Module"
4.	Automatic back door close switch	DLK-18, "Automatic Back Door Close Switch"
5.	Back door lock assembly	DLK-18, "Back Door Lock Assembly"
6.	Touch sensor LH	DLK-18, "Back Door Touch Sensor"
7.	Spindle unit LH	DLK-22, "Spindle Unit"
8.	Touch sensor RH	DLK-18, "Back Door Touch Sensor"
9.	Spindle unit RH	DLK-22, "Spindle Unit"
10.	Automatic back door warning buzzer	DLK-18, "Automatic Back Door Warning Buzzer"
11.	Back door opener switch	DLK-18, "Automatic Back Door Opener Switch"
12.	Automatic back door main switch	DLK-18, "Automatic Door Main Switch"

Automatic Back Door Control Module

INFOID:0000000011218560

Controls the automatic back door system.

Automatic Back Door Switch

INFOID:0000000011218561

Detects open/close operation of automatic back door.

Automatic Door Main Switch

INFOID:0000000011218562

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

Automatic Back Door Warning Buzzer

INFOID:0000000011218563

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

Automatic Back Door Close Switch

INFOID:0000000011218564

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

Back Door Lock Assembly

INFOID:0000000011218565

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

- Closure motor: Inputs open/close signal from automatic back door control module and activates the back door auto closure operation.
- Half latch switch: Starts the closure motor close operation.
- Open switch: Stops the closure motor open operation.
- Close switch: Stops the closure motor close operation.
- Back door switch: Inputs back door open/close condition to BCM.

Automatic Back Door Opener Switch

INFOID:0000000011218566

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

Back Door Touch Sensor

INFOID:0000000011218567

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

COMPONENT PARTS

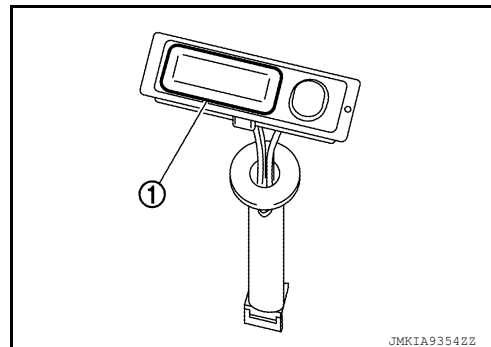
< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Back Door Opener Switch

INFOID:0000000011218568

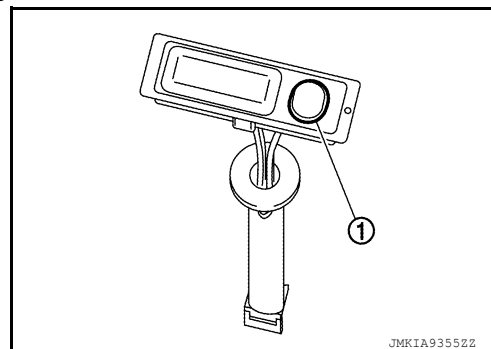
- Back door opener switch (1) transmits back door opener switch signal to BCM.
- Back door opener switch (1) is integrated in outside handle (back door).



Back Door Request Switch

INFOID:0000000011218569

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



Door Lock and Unlock Switch (Driver Side)

INFOID:0000000011218570

- 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)

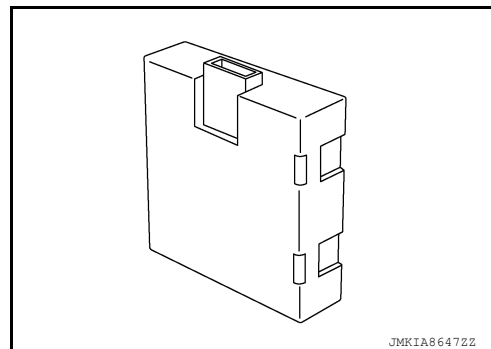
INFOID:0000000011218571

- 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:0000000011559086

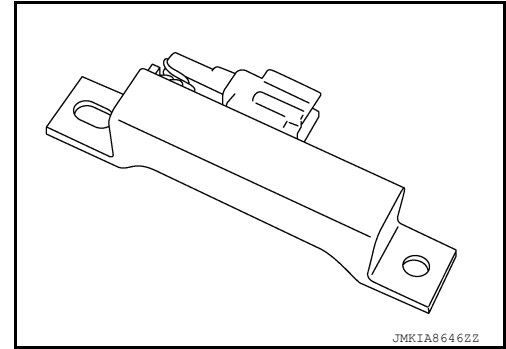
- Remote keyless entry receiver receives button operation signal and key ID signal of Intelligent Key and then transmits them to BCM.
- Remote keyless entry receiver is installed behind the glove box.



Inside Key Antenna (Instrument Center)

INFOID:0000000011218572

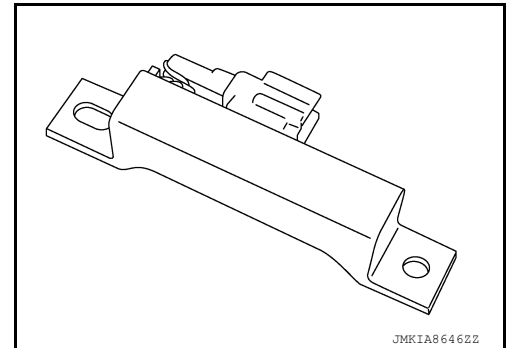
- Inside key antenna (instrument center) detects that Intelligent Key is within the inside detection area and then transmits detection status to BCM.



Inside Key Antenna (Console)

INFOID:0000000011218573

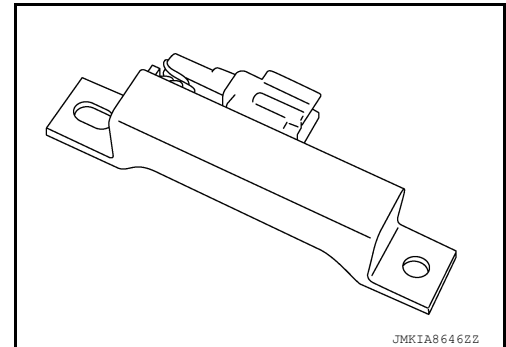
- Inside key antenna (console) detects that Intelligent Key is within the inside detection area and then transmits detection status to BCM.



Outside Key Antenna (Rear Bumper)

INFOID:0000000011218574

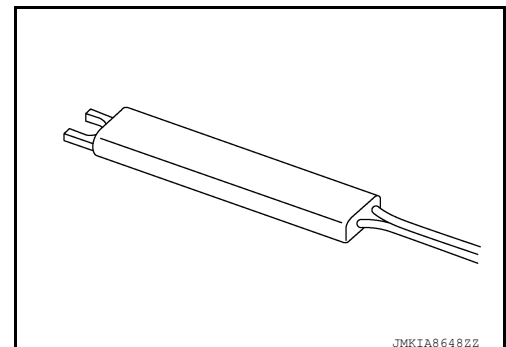
- Outside key antenna (rear bumper) detects that Intelligent Key is within the outside detection area and then transmits detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.
- Outside key antenna (rear bumper) is installed in the rear of rear bumper.



Outside Key Antenna (LH)

INFOID:0000000011218575

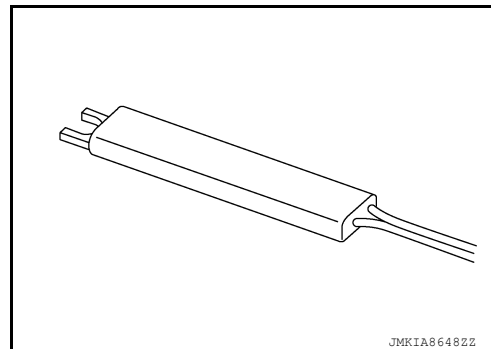
- Outside key antenna (LH) detects that Intelligent Key is within the outside detection area and then transmits detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.
- Outside key antenna (LH) is installed in driver side outside handle.



Outside Key Antenna (RH)

INFOID:0000000011218576

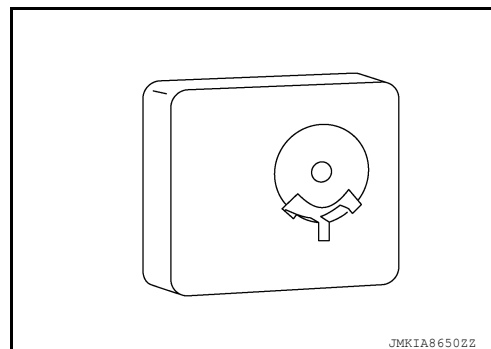
- Outside key antenna (RH) detects that Intelligent Key is within the outside detection area and then transmits detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.
- Outside key antenna (RH) is installed in passenger side outside handle.



Intelligent Key Warning Buzzer

INFOID:0000000011218577

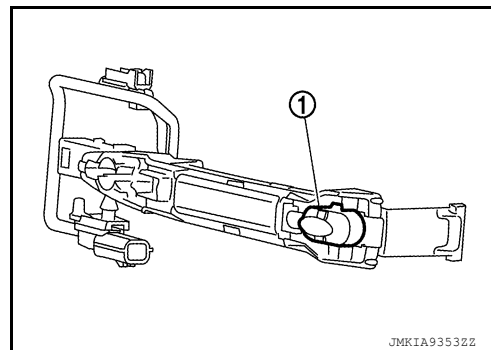
- Intelligent Key warning buzzer warns the user, who is outside the vehicle, of operation confirmation according to Intelligent Key operation and door request switch operation or of an inappropriate operation.
- Intelligent Key warning buzzer is installed in the rear of the front bumper and behind RH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



Front Door Request Switch (LH)

INFOID:0000000011218578

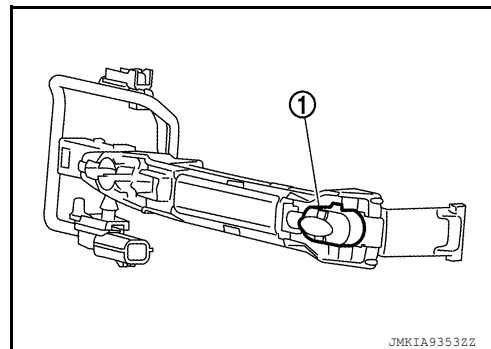
- Front door request switch (LH) transmits door request switch signal to BCM.
- Front door request switch (LH) (1) is integrated into driver side outside handle.



Front Door Request Switch (RH)

INFOID:0000000011218579

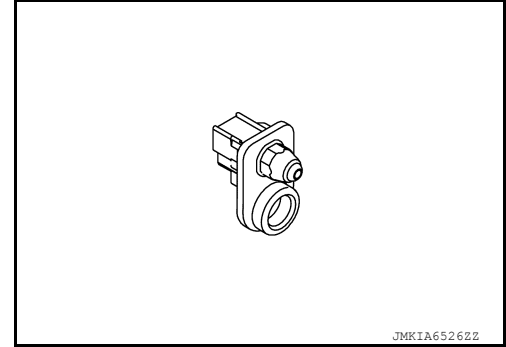
- Front door request switch (RH) transmits door request switch signal to BCM.
- Front door request switch (RH) (1) is integrated into passenger side outside handle.



Front Door Switch

INFOID:0000000011218580

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

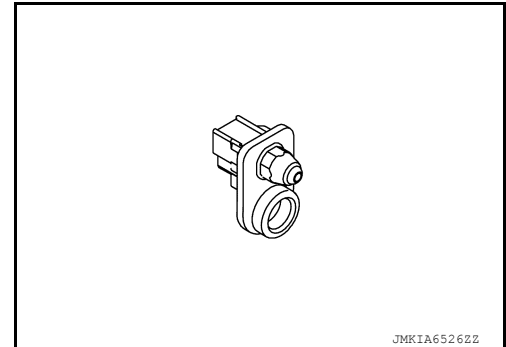


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Rear Door Switch

INFOID:0000000011218581

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

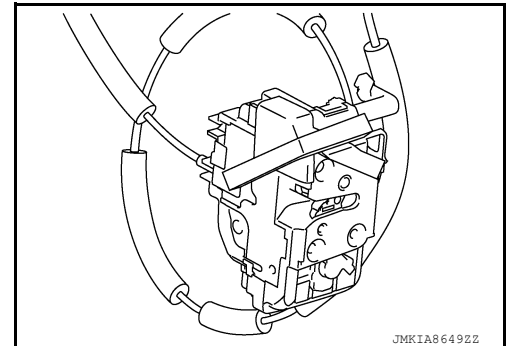


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Front Door Lock Assembly (LH)

INFOID:0000000011218582

- 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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Spindle Unit

INFOID:0000000011218583

Encoder and spindle motor are installed:

- Encoder: Automatic back door control module receives the pulse signals from encoders A and B that occurred due to synchronization with the back door operation. The automatic back door control module calculates the back door position, operation direction, and operation speed according to the received pulse signals.
- Spindle motor: Inputs open/close signal from automatic back door control module and activates the automatic back door open/close operation.

Integrated Homelink Transmitter

INFOID:0000000011218584

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 >

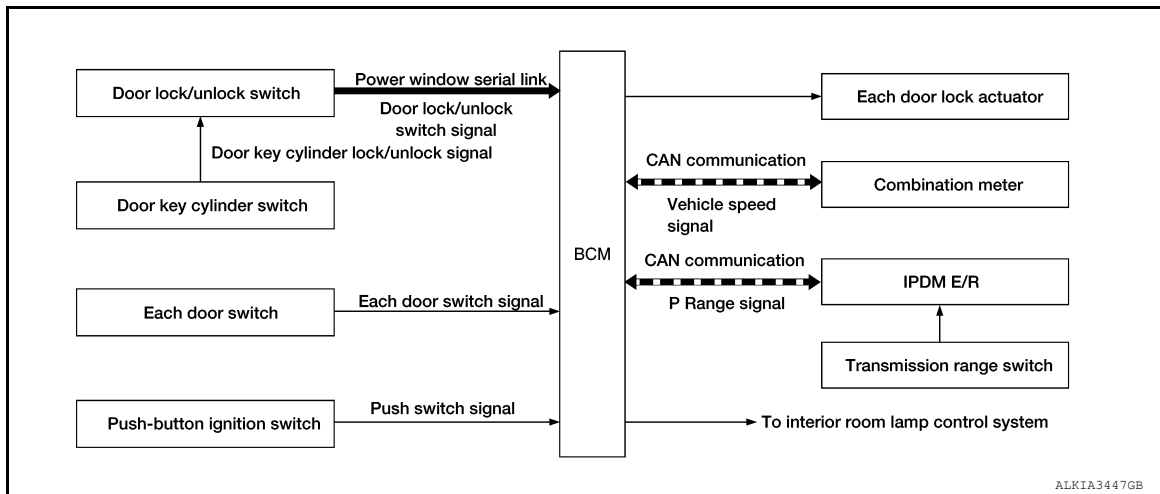
[WITH INTELLIGENT KEY SYSTEM]

SYSTEM (POWER DOOR LOCK SYSTEM)

System Description

INFOID:0000000011218586

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 of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors are unlocked.

Door Key Cylinder 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.
- 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 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-16. "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 when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 24 km/h (15 MPH) or more.

P Range Interlock Door Lock

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

SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

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

P Range Interlock Door Unlock

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

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

Setting Change of Automatic Door Lock/Unlock Function

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

With CONSULT

The ON/OFF switching of the automatic door lock/unlock function and the type selection of the automatic door lock/unlock function can be performed 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 >

[WITH INTELLIGENT KEY SYSTEM]

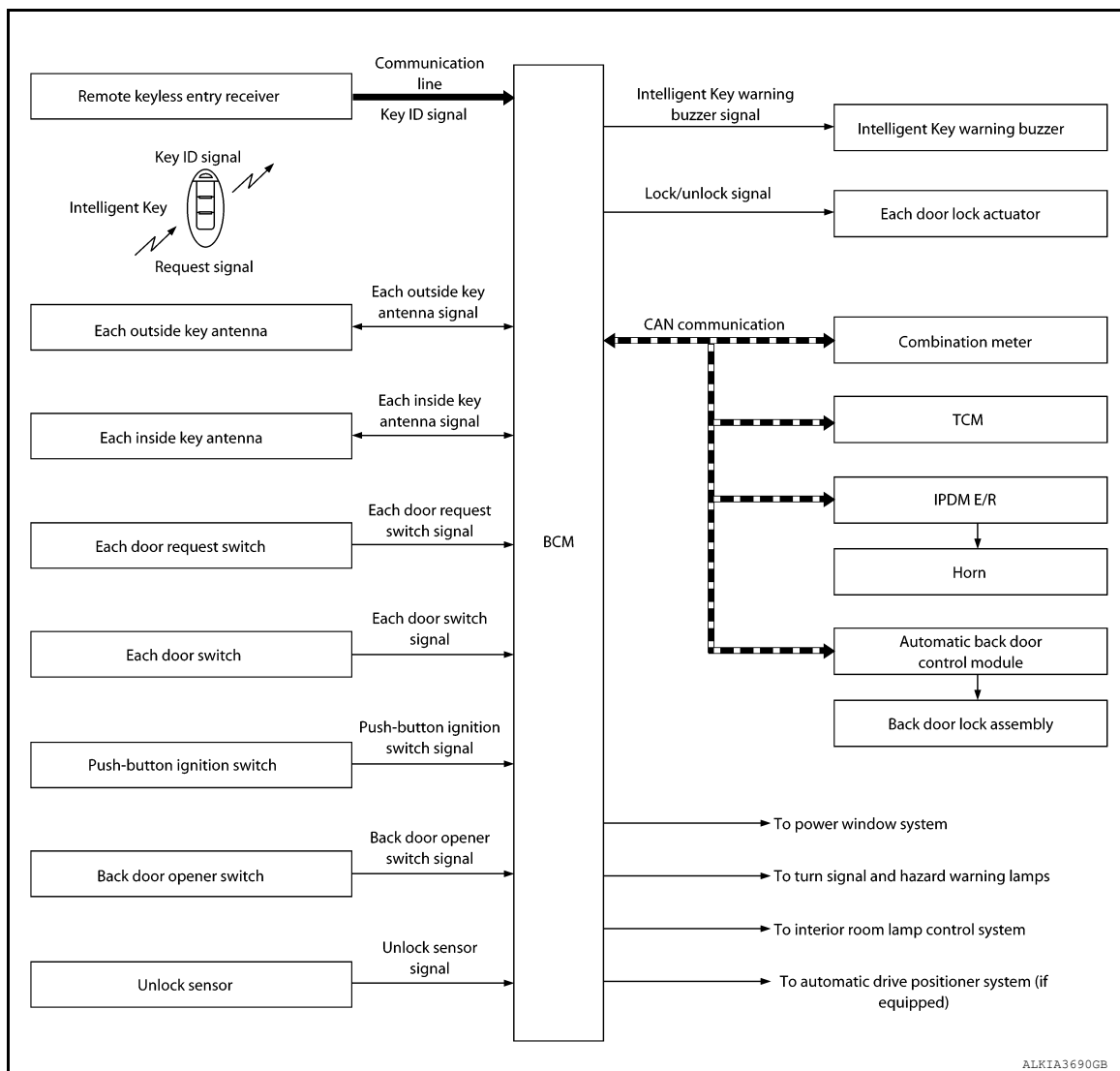
SYSTEM (INTELLIGENT KEY SYSTEM)

INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Description

INFOID:0000000011218588

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.	DLK-25
Back door opener	The back door can be opened by carrying the Intelligent Key and pressing the back door opener switch.	DLK-28

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

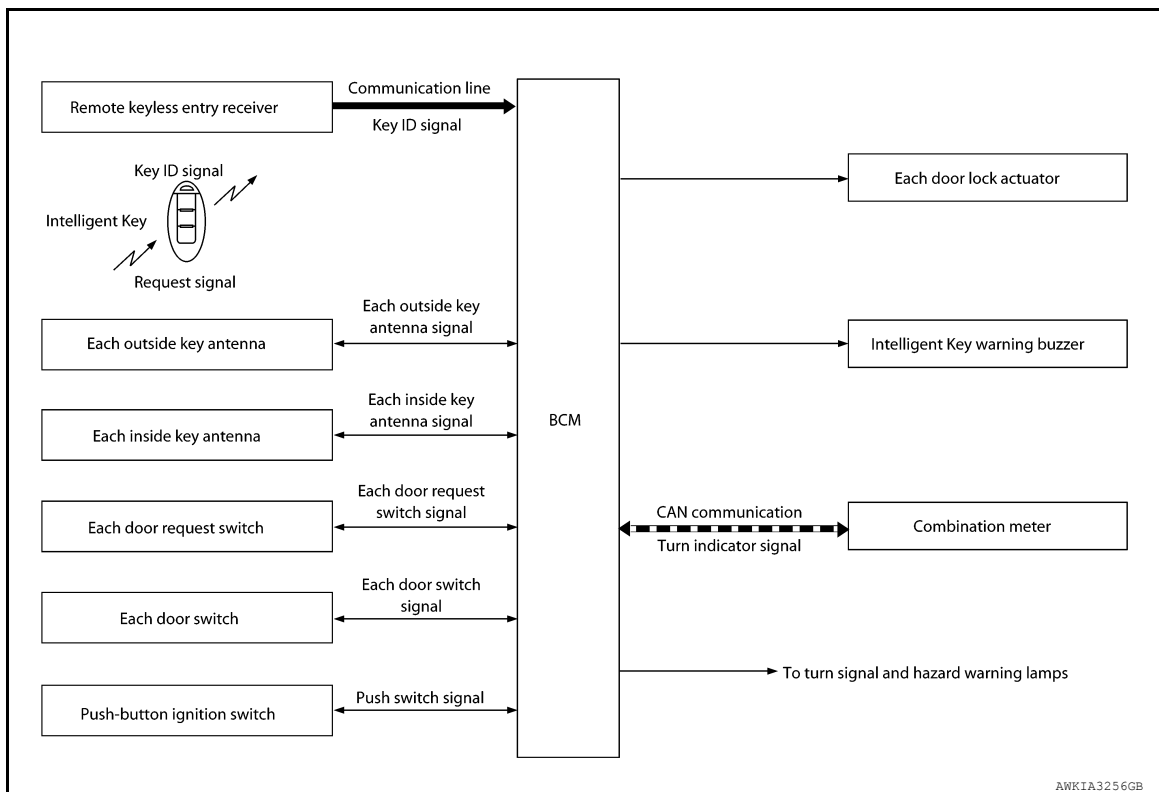
Function	Description	Reference
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.	DLK-26
Key reminder	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.	DLK-32
Warning	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver.	DLK-32
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state.	DLK-25
Panic alarm	When Intelligent Key panic alarm button is pressed, horn sounds.	DLK-32

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Description

INFOID:0000000011218590

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 (except back door).
- BCM sounds Intelligent Key warning buzzer (lock: 2 times, unlock: 1 time) and blinks hazard warning lamps (lock: 2 times, unlock: 1 time) at the same time as a reminder.

OPERATION CONDITION

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

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

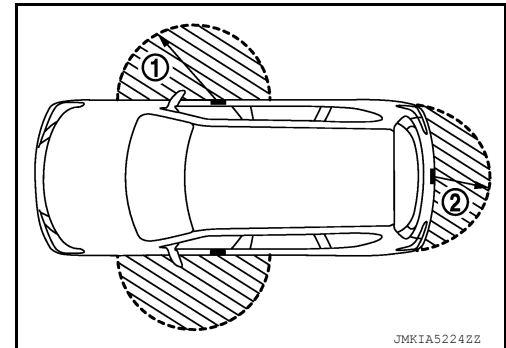
[WITH INTELLIGENT KEY SYSTEM]

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

*: Even with a registered Intelligent Key remaining inside the vehicle, door locks can be locked/unlocked from outside 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) and back door handle (2). However, this operating range depends on the ambient conditions.



SELECTIVE UNLOCK FUNCTION

Lock Operation

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

Unlock Operation

- When an UNLOCK signal from driver side door request switch is transmitted, driver side door is unlocked. When another UNLOCK signal is transmitted within 60 seconds, all other doors (except back door) are unlocked.
- When an UNLOCK signal from passenger side door request switch is transmitted, passenger side door is unlocked. When another UNLOCK signal is transmitted within 60 seconds, all other doors (except back door) are unlocked.
- When an UNLOCK signal from back door request switch is transmitted, back door open permission is set. When another UNLOCK signal is transmitted within 60 seconds, all doors (except back door) are unlocked.

How To Change Selective Unlock Operation Mode

Selective unlock operation mode can be changed using CONSULT.

Refer to [BCS-22, "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-22, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

AUTO DOOR LOCK FUNCTION

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

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

How To Change Auto Door Lock Operation Mode

Auto door lock operation mode can be changed using CONSULT.

Refer to [BCS-22, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

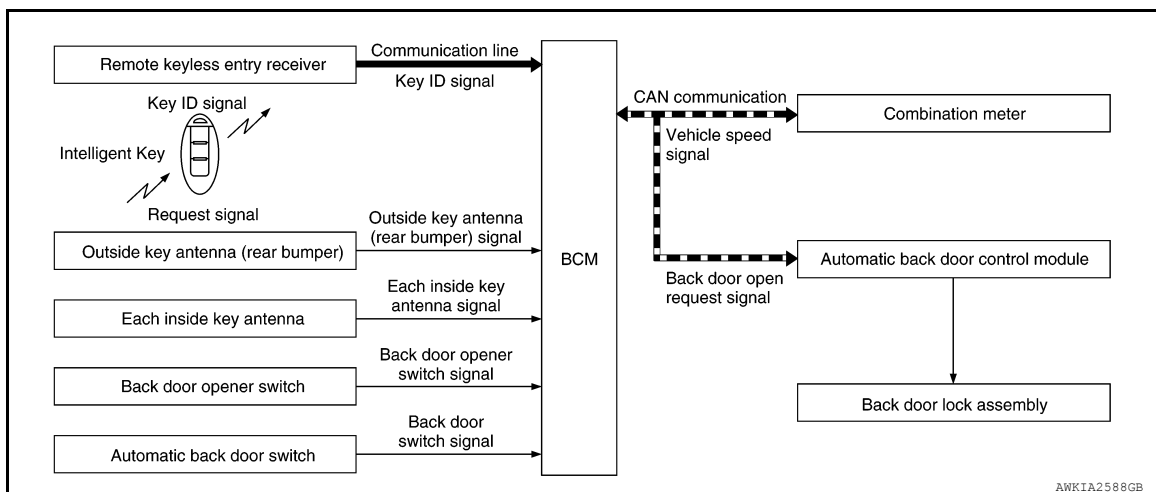
Function	Intelligent Key	Door switch	Door request switch	Door lock actuator	Inside key antenna	Outside key antenna	CAN communication system	BCM	Hazard warning lamp	Intelligent Key warning buzzer	Push-button ignition switch
Door lock/unlock function	×	×	×	×	×	×		×			
Hazard reminder function							×	×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

BACK DOOR OPEN FUNCTION

BACK DOOR OPEN FUNCTION : System Description

INFOID:0000000011218592

SYSTEM DIAGRAM



SYSTEM DESCRIPTION

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

- The back door open function can open the back door by pressing the back door opener switch while carrying the Intelligent Key and all doors (except back door) are locked.
- The back door open function enables the back door to be opened by pressing back door opener switch after BCM transmits UNLOCK signal to each door.

BACK DOOR OPEN

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

- When the BCM detects that back door opener switch is pressed, it activates the outside key antenna (rear bumper) and inside key antenna and transmits the request signal to the Intelligent Key and then checks that the Intelligent Key is near the back door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via the remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- If the verification result is OK, BCM transmits the back door open request signal to automatic back door control module via CAN communication.
- Automatic back door control module transmits back door open request signal to back door lock assembly and back door is open.
- When the back door is open, automatic back door system performs waiting operation for next back door close operation.

The operation of the back door open is the same as the automatic back door system. Refer to [DLK-39, "System Description"](#).

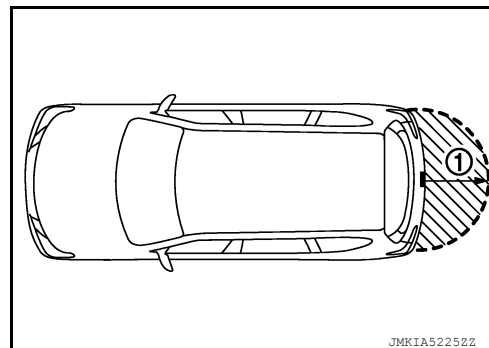
OPERATION CONDITION

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

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

OUTSIDE KEY ANTENNA DETECTION AREA

The outside key antenna detection area of back door open function is in the range of approximately 80 cm (31.50 in) surrounding the outside key antenna (rear bumper) (1). However, this operating range depends on the ambient conditions.



LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

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

REMOTE KEYLESS ENTRY FUNCTION

SYSTEM (INTELLIGENT KEY SYSTEM)

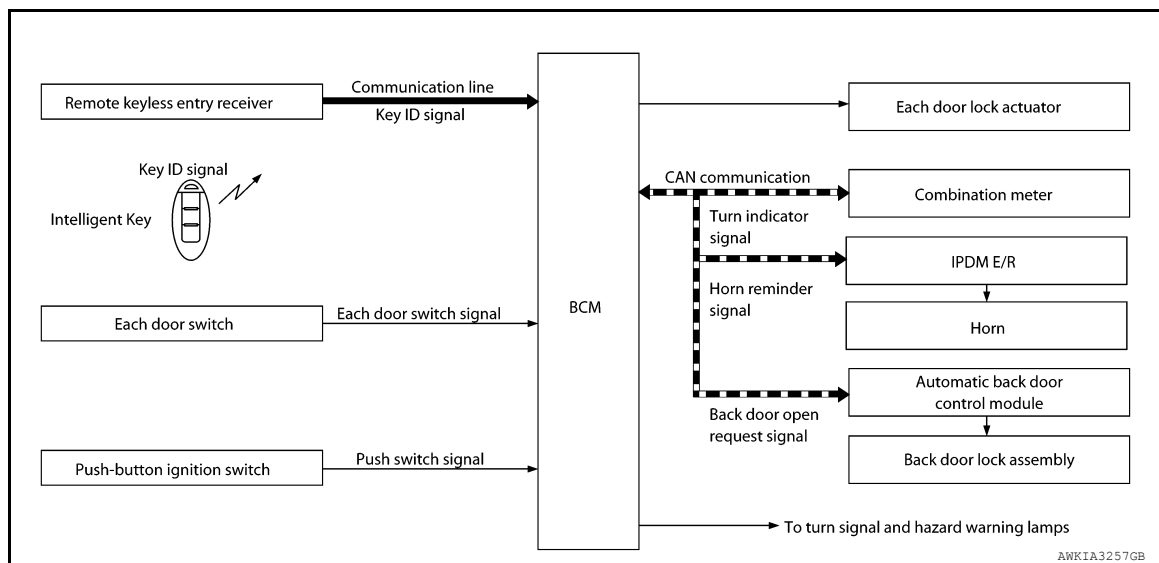
< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:000000011218594

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
- Automatic back door open/close function
- 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	• Panic alarm is not activated. • P (Park) position warning is not activated.
Unlock	Panic alarm is not activated.

SELECTIVE UNLOCK FUNCTION

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

How To Change Selective Unlock Operation Mode.

Selective unlock operation mode can be changed using CONSULT.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Refer to [BCS-16, "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	- Door switch is ON (door is open). - Door is locked. - Push switch is pressed.
---------------------	---

How To Change Auto Door Lock Operation Mode.

Auto door lock mode can be changed using CONSULT.

Refer to [BCS-22, "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

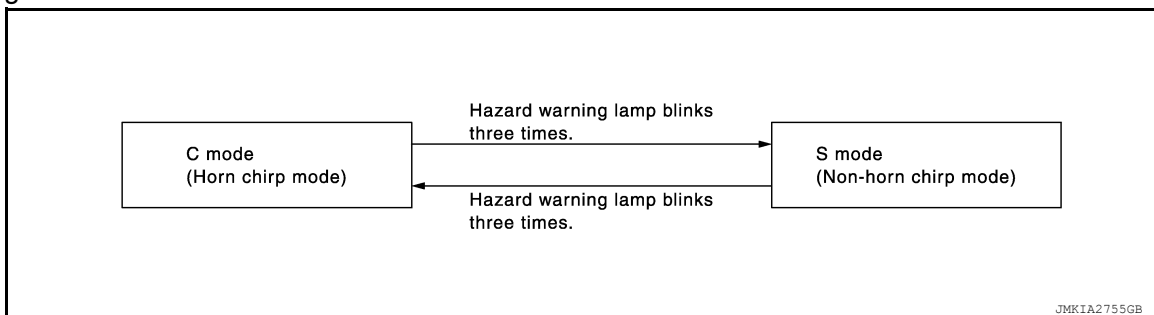
With CONSULT

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

Refer to [BCS-22, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Without CONSULT

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



AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

When back door button of Intelligent Key is pressed for 0.4 seconds or more, back door opens automatically. For detailed description, refer to [DLK-39, "System Description"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

WARNING FUNCTION

WARNING FUNCTION : System Description

INFOID:0000000011218595

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:

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	When condition A, B or C is satisfied: • Condition A - Ignition switch: ACC position - Door switch (driver side): ON (Door is open.) • Condition B - Turn ignition switch from ON to OFF while door is open. • Condition C - Intelligent Key backside is contacted to ignition switch while brake pedal is depressed and ignition switch is in LOCK or OFF (when the Intelligent Key battery is discharged.) - Door switch (driver side): ON (Door is open.)
	For external	OFF position warning (for internal) is in active mode and driver side door is closed. NOTE: OFF position (for external) active only when each of the sequence occurs as below: P position warning → ACC warning → OFF position warning (for internal) → OFF position warning (for internal)

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

WARNING METHOD

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

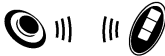
Warning/Information functions		"KEY" warning lamp	Information display (combination meter)	Warning chime	
				Combination meter buzzer	Intelligent Key warning buzzer
Intelligent Key system malfunction		Indicate	—	—	—
OFF position warning	For internal	—	—	Activate	—
	For external	—	—	—	Activate
P position warning	For internal	—	 Shift to Park	Activate	—
	For external			—	Active

ALKIA2515GB

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Warning/Information functions		“KEY” warning lamp	Information display (combination meter)	Warning chime	
				Combination meter buzzer	Intelligent Key warning buzzer
Take away warning	Door is open to closed.	—	No Key Detected ALKIA2517GB	Activate	Activate
	Door is open.			—	—
	Push-button igni- tion switch opera- tion			Activate	—
Door lock op- eration warn- ing	Request switch operation	—	—	—	Activate
	Intelligent Key	—	—	—	Activate
Key ID warning		—	Key ID Incorrect ALKIA2518GB	—	—
Intelligent Key low battery warning		—	Key low battery ALKIA2520GB	—	—
Key ID verification information		—	 ALKIA2521ZZ	—	—

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

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										×	×		×
OFF position warning	For internal			×					×	×	×		
	For external			×				×			×		
P (Park) position warning			×						×	×	×	×	×

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

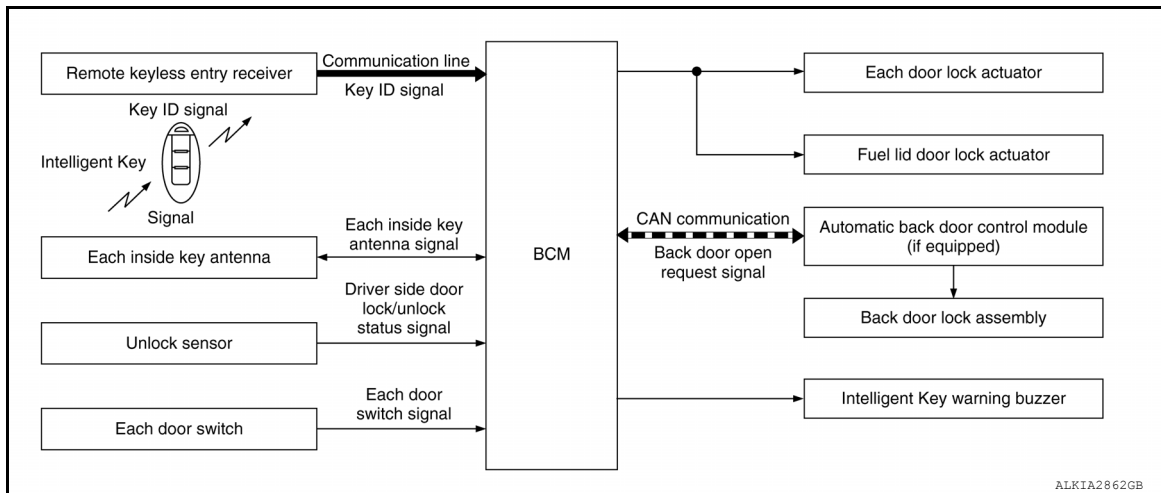
Warning function		Intelligent Key	Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter buzzer	CAN communication system	BCM	Information display	"KEY" warning lamp
Take away warning	Door is open or closed.	×		×		×		×	×	×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

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION : System Description

INFOID:0000000011564260

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 >

[WITH INTELLIGENT KEY SYSTEM]

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

*: 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:

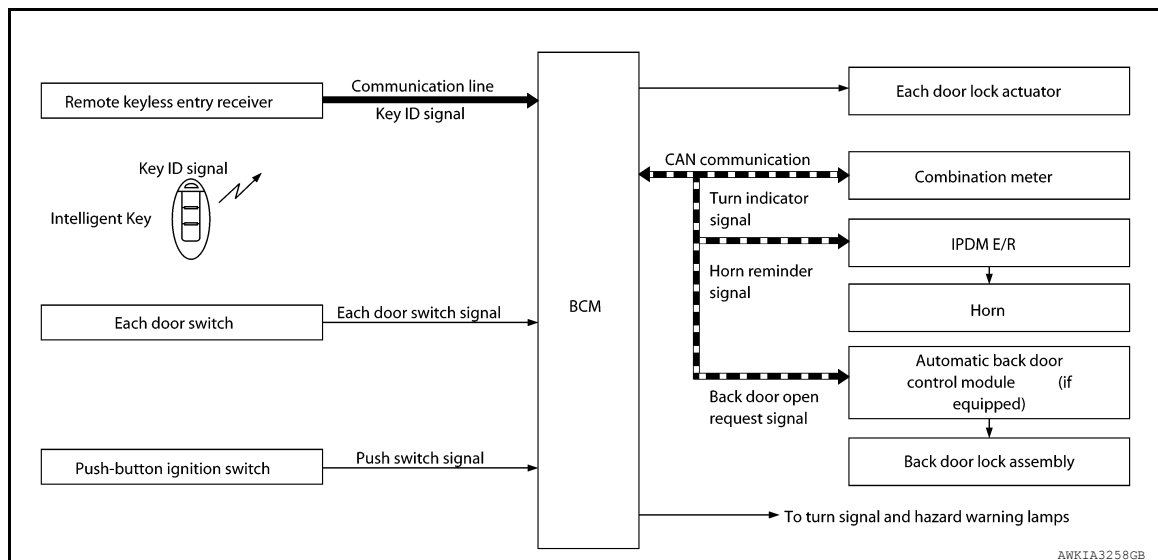
- The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected. This function does not operate when the Intelligent Key is on the instrument panel, rear parcel shelf or in the glove box. Also, this system sometimes 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:000000011545351

SYSTEM DIAGRAM



OPERATION

Remote keyless entry system controls operation of the following items:

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

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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).
- 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	• Anti-theft alarm is activated - unauthorized entry. • Maximum time for engine to run by remote start has been exceeded. • Hazard lamps are turned on. • Push-button ignition switch is pressed without the Intelligent Key in the vehicle. • Push-button ignition switch is pressed without depressing the brake pedal first. • The hood is opened while the remote engine start is engaged. • The vehicle has been moved out of park before "brake and push" action is completed.
Limitations/Restrictions	• Remote engine start must be set to ON within Vehicle Settings in the combination meter. • Engine must be stopped (0 rpm) before engine can be remotely started. - Must wait for 6 seconds or more after IGN RUN → OFF. • Remote engine start can only be activated up to 2 times. - Remote engine start extended time counts as 1 remote engine start activation. - Cycling IGN via push-button ignition switch resets this counter. • User has 5 seconds to press and hold remote engine start button after lock button is pressed. • Remote engine start must be pressed and held for 2 seconds or more after lock button is pressed. • Maximum remote start time is 20 minutes (this includes remote engine start extended time). • Operation area is approximately 60 m (197 ft) from the vehicle but not inside the vehicle. • The push-button ignition switch must not be in the ACC or ON position. • The vehicle must be in Park. • Hazard flashers must not be on. • There must not be any registered Intelligent Keys inside the vehicle. • Brakes must not be pressed when attempting to activate remote engine start. - Improper remote engine start operation can occur when stop lamp switch is misadjusted or inoperative. • The doors must be closed. • The back door must be closed. • The hood must be closed. • No current DTCs in the BCM can be present.

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	
	Lock	Unlock	Lock	Unlock
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).

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

How to Change Hazard and Horn Reminder Mode

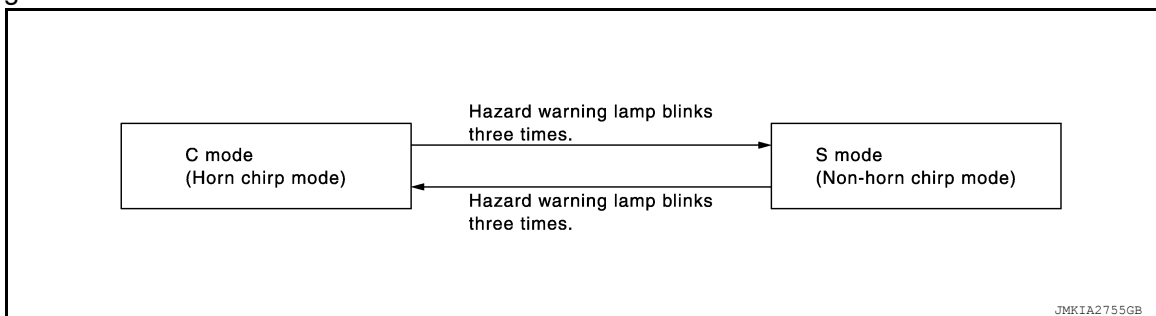
④ With CONSULT

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

Refer to [BCS-22, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

⊗ Without CONSULT

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



LIST OF OPERATION RELATED PARTS

Parts marked with × 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	Automatic back door control module	Back door lock assembly
Door lock/unlock function	×	×	×	×			×						
Selective unlock function	×	×	×	×			×						
Auto door lock function	×	×	×	×	×		×						
Hazard and horn reminder function						×	×	×	×	×	×		
Automatic back door open/close function	×					×	×					×	×
Remote engine start function	×			×	×	×	×	×	×		×	×	×

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

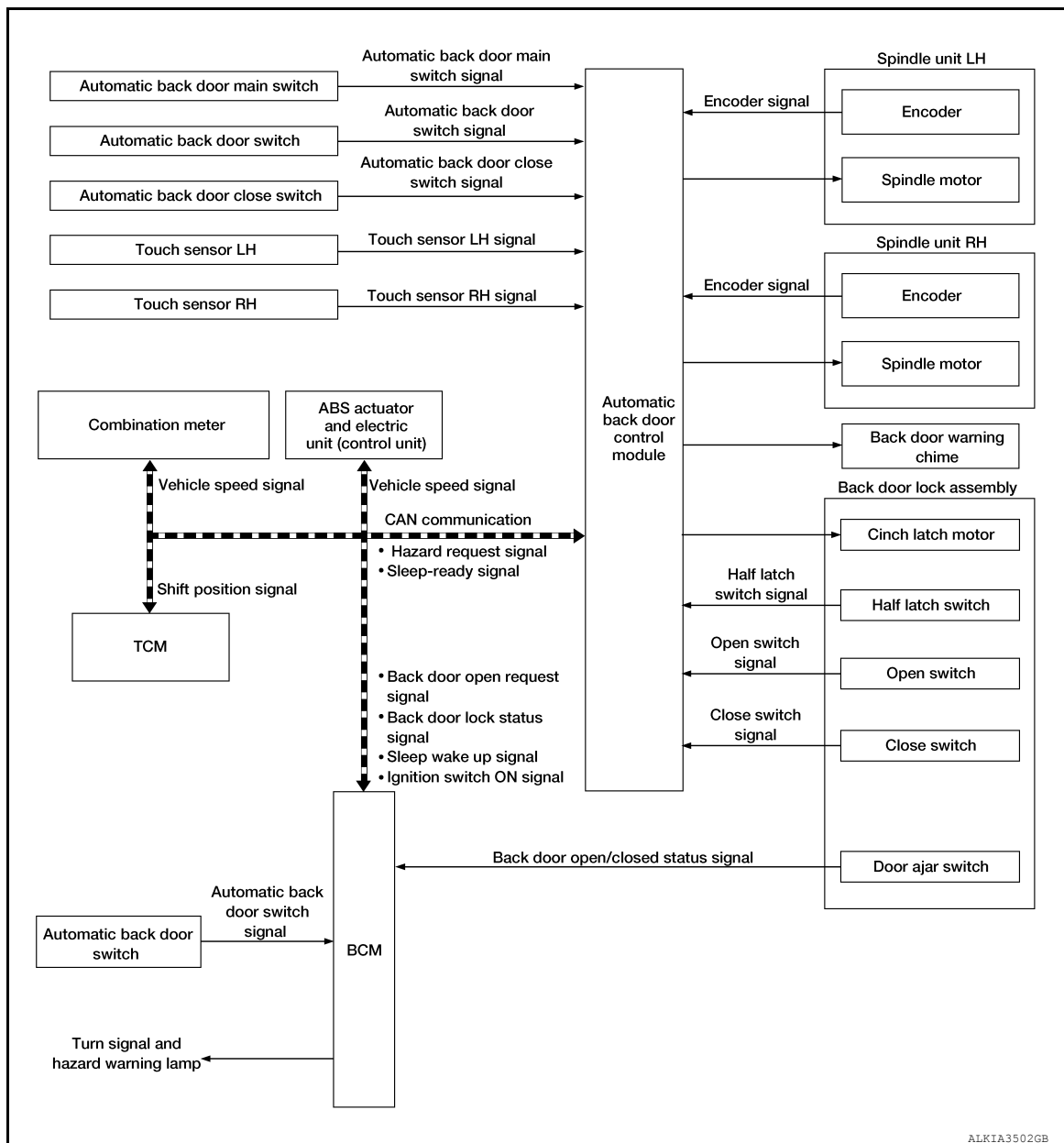
[WITH INTELLIGENT KEY SYSTEM]

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

System Description

INFOID:0000000011218597

SYSTEM DIAGRAM



SYSTEM DESCRIPTION

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

AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

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

AUTOMATIC OPEN/CLOSE TEMPORARY STOP FUNCTION

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

Back Door Opener Switch Operation

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

Automatic Back Door Main Switch Operation

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

POWER SAVING MODE

When the automatic back door is left open for a long period of time (approx. 12 hours), the automatic back door will enter power saving mode. While in power saving mode the battery power supply to the automatic back door is turned off to prevent battery discharge. Once the automatic back door is in the power saving mode, all automatic functions are disabled. The automatic back door must be closed manually in order to reset the power saving mode timer and restore automatic back door operation.

NOTE:

The battery voltage must be above 11 volts for the automatic back door functions to be reset after the power saving mode has been activated.

BACK DOOR OPEN POSITION SETTING FUNCTION

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

Setting Procedure

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

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

Cancellation Procedure

Setting of back door open position setting function can be canceled by the following procedure:

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

BACK DOOR AUTO CLOSURE FUNCTION

Open Function

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

Closure Function

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

[WITH INTELLIGENT KEY SYSTEM]

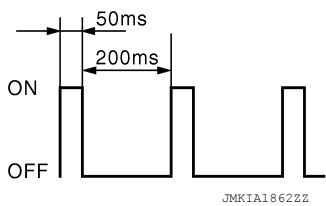
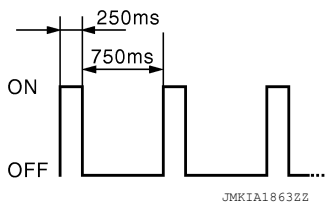
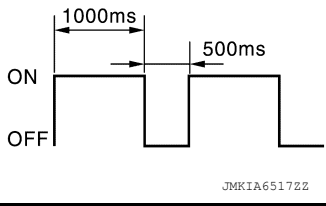
< SYSTEM DESCRIPTION >

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

WARNING FUNCTION

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

Chime Operation Condition

Pattern	Time	Description
A 	0.75 sec.	Operation start announcement
		Anti-pinch operation start announcement
B	Pi---	2.0 sec.
C	Pi-----.....	Back door is fully closed or vehicle is stopped.
D 	During open/close operation	During operation announcement
E 	2.5 sec.	Calibration of automatic back door position information is complete.
		Back door open position setting procedure is complete.

ANTI-PINCH FUNCTION

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

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

Operation Condition

Detection method	Encoder pulse	Touch sensor
Applicable operation	Open/close operation	Close operation

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Detection method		Encoder pulse	Touch sensor
Operation when any trapped foreign material is detected	Stop the vehicle	Chime sounds (pattern A) and reverse operation	- Buzzer sounds (pattern A) and the back door stops in the fully-open position after reverse operation. - During closure (close) operation (at main switch OFF): Closure [open (neutral position return)] operation
	Running the vehicle	No reverse operation (chime sounds, pattern C)	- The back door reverses a certain amount, and then it reverses automatically to perform the auto close operation. - During closure (close) operation (at main switch ON): Closure (open) operation
Non-reverse area		- Just after starting the motor operation - Full range of closure operation - Driving	- Back door open operation - Closure [open (return the latch to the neutral position)]
Switch operation during reverse operation		Receive	
Number of allowable reverse operations		Perform the automatic open/close temporary stop function after 2 reverse operations regardless of the operation direction.	

AUTOMATIC BACK DOOR OPEN/CLOSE OPERATION CONDITION

	Automatic back door switch			Intelligent Key		Automat- ic back door close switch	Back door opener switch	
Operating direction	Fully closed → Open		Fully open →Closed	Fully closed → Open	Fully open → Closed	Fully open → Closed	Fully closed → Open	
Main switch	—		—	—	—	ON	ON	
Ignition position	ON/ACC/ LOCK	OFF	—	—		—	ON/ACC/ LOCK	OFF
Shift selector lever	P position	—	—	—	—	—	P position	—
Vehicle speed	0 km/h							
Back door lock condition	—		—	—	—	—	Unlock*	
Touch sensor	Normal							
Power supply (Automatic power back door control module)	Approx. 11 V or more							

*: If the registered Intelligent Key is used, the operation can be performed even if the back door is in the LOCK position.

CONTROL IF NOT WITHIN THE OPERATION CONDITIONS DURING THE OPERATION

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

Item (Condition)	Back door condition	
Vehicle stop condition (open operation) • IGN ON and shift P (Park) position → IGN ON and other than P (Park) position	The operation is continued.	
Operation condition release during the operation start announcement condition	Automatic back door function does not operate.	
Vehicle speed (0 km/h → More than 0 km/h)	Open operation	Operation stop [Back door is fully closed or chime sounds until the vehicle stops (pattern C)].
	Close operation	The operation is continued [chime sounds (pattern C) until back door is fully closed].

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Item (Condition)	Back door condition	
Touch sensor (Normal → Open)	Open operation	The operation is continued. (If the pinch is detected after that, the system switches to the automatic open/close temporary stop function).
	Close operation	Automatic open/close temporary stop function
	Closure (close) operation	Closure (open) operation and chime sounds (pattern B)
	Closure [open (return the latch to the neutral position)]	The operation is continued.
Operation time (More than approx. 180 sec.)	Inhibit automatic back door operation	
Back door opener switch (OFF → ON)	Closure (close) operation	Closure (open) operation and back door open
	Closure [open (return the latch to the neutral position)]	Back door open
Malfunction detected	IGN circuit	Automatic open/close temporary stop function
	Half latch switch	Operation is possible up to 3 times.

TIME CHART FOR AUTOMATIC BACK DOOR SYSTEM

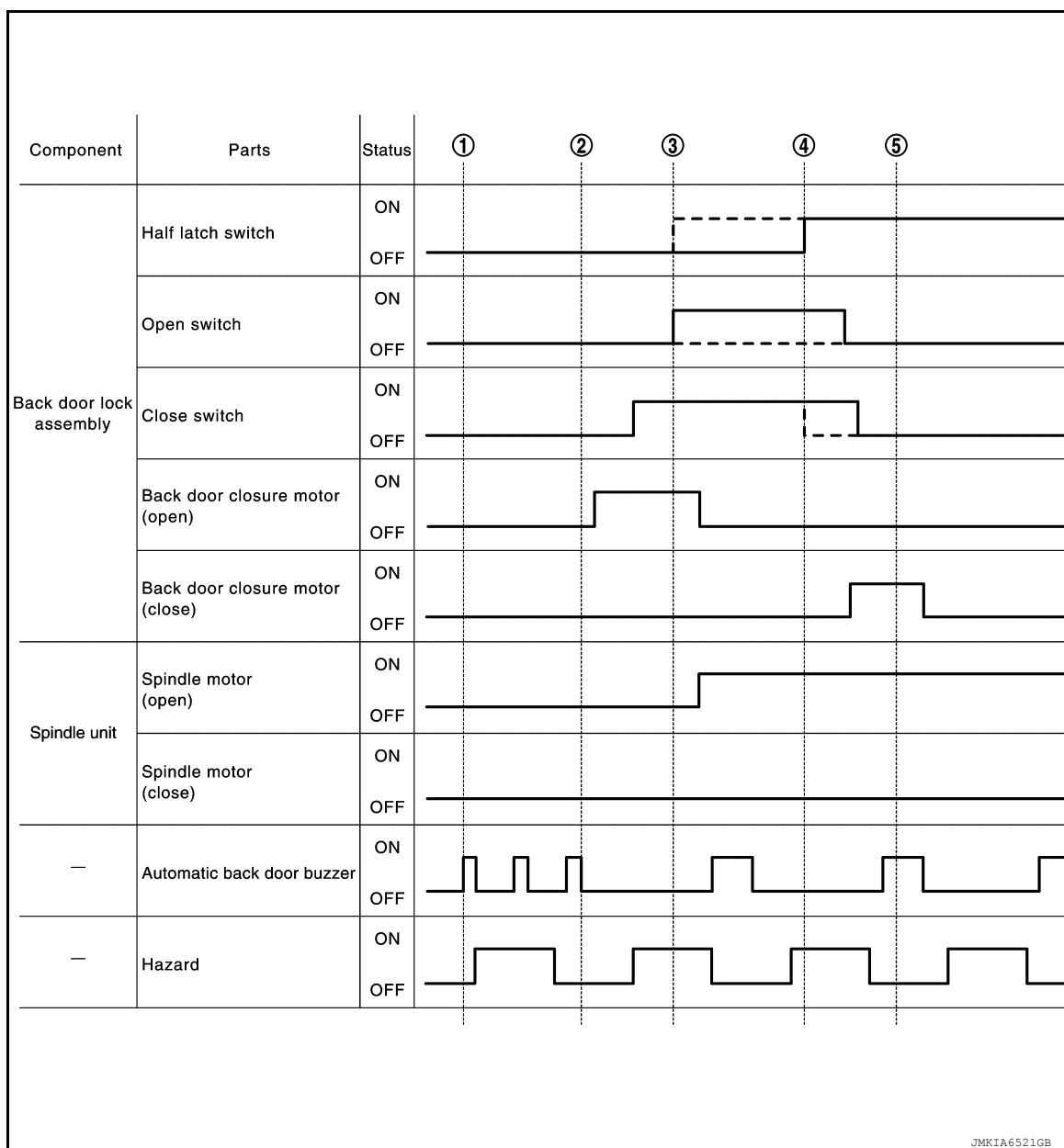
Fully Closed to Fully Open Operation

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

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]



1. Operates the chime and hazard warning after the operation enabled conditions are established.
2. The back door closure motor performs the open operation after the chime (pattern A) stops sounding.
3. Stops the back door closure motor open operation after turning the open switch to ON. Then, operates the spindle motor to perform the back door open operation.
4. The back door closure motor performs the close operation after turning the half latch switch to ON.
5. Stops the back door closure motor close operation and returns the latch to the neutral position after turning the close switch to OFF.

NOTE:

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

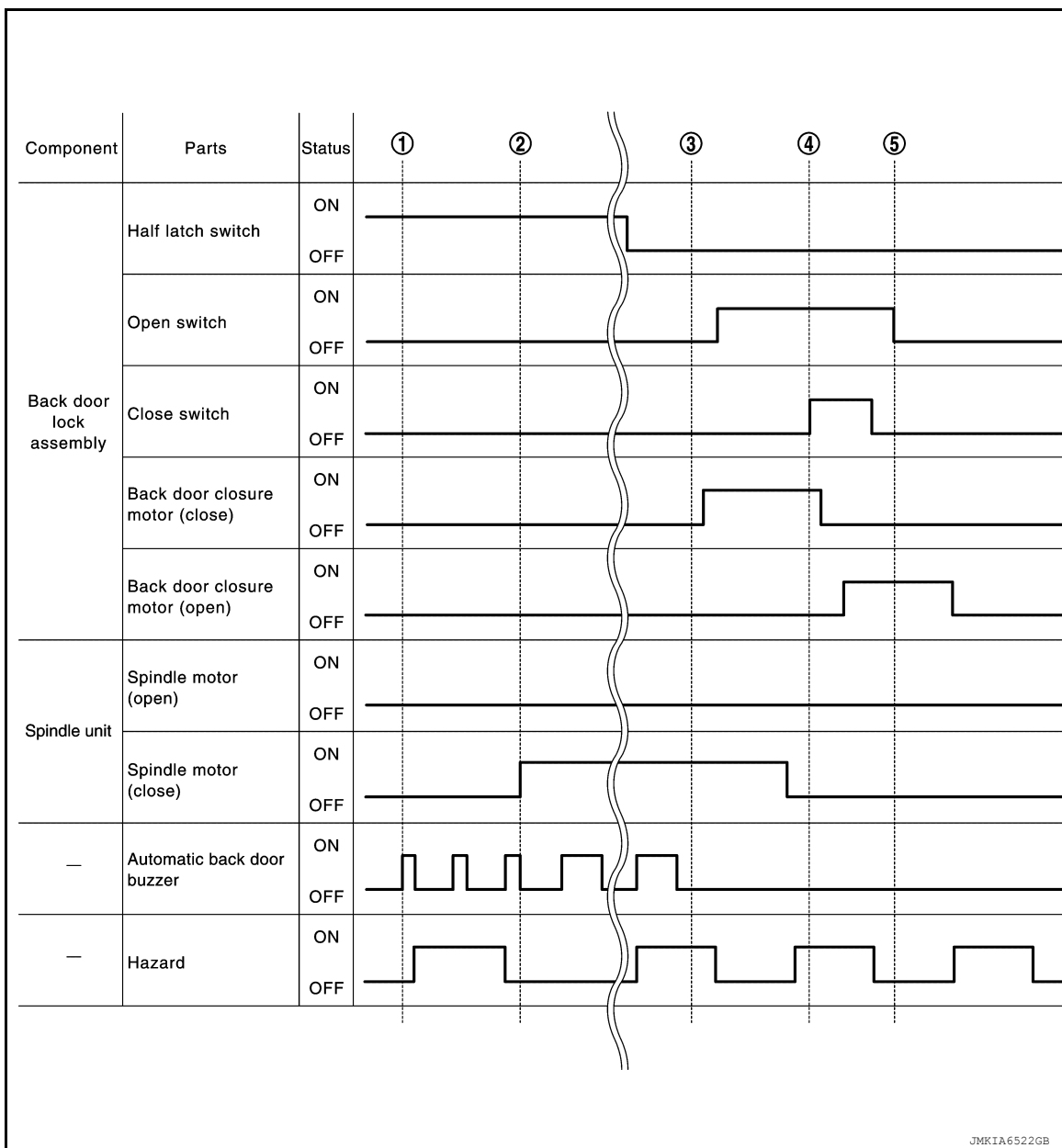
Fully Open to Fully Closed Operation

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

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]



1. Operates the chime and hazard warning after the operation enabled conditions are established.
2. After the chime (pattern A) stops sounding, it operates the spindle motor to perform the back door close operation.
3. The back door closure motor performs the close operation in 300 msec. or more after turning the half latch switch to OFF.
4. The back door closure motor performs the open operation after turning the close switch to ON.
5. Stops the back door closure motor open operation and returns the latch to the neutral position after turning the close switch to OFF.

SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

System Description

INFOID:0000000011218598

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000011559074

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SYSTEM APPLICATION

BCM can perform the following functions:

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			×	×			
Back door open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER			×	×			
TPMS	AIR PRESSURE MONITOR		×	×	×			

FREEZE FRAME DATA (FFD)

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

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

CONSULT screen item	Indication/Unit	Description	
Vehicle Speed	km/h	Vehicle speed at the moment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odometer value) at the moment a particular DTC is detected	
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 • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition is switched OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.	

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:0000000011559075

SELF DIAGNOSTIC RESULT

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

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DATA MONITOR

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

ACTIVE TEST

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

WORK SUPPORT

Support Item	Setting	Description
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.
	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:0000000011559076

SELF DIAGNOSTIC RESULT

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

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item [Unit]	Main	Description
REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	×	Indicates condition of door request switch RH.
REQ SW -BD/TR [On/Off]	×	Indicates condition of back door request switch.
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.
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.
BK DOOR STATE [LOCK/READY/UNLK]	×	Indicates condition of back door status.
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
PRMT RKE STRT [Set/Reset]		Indicates condition of engine start possibility from Intelligent Key.
I-KEY OK FLAG [Key ON/Key OFF]	×	Indicates condition of Intelligent Key OK flag.
PRBT ENG STRT [Set/Reset]		Indicates condition of engine start prohibit.
ID 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.
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.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item [Unit]	Main	Description
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.
RKE OPE COUN2 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
TRNK/HAT MNTR [On/Off]		Indicates condition of luggage room lamp switch.
RKE-LOCK [On/Off]		Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]		Indicates condition of unlock signal from Intelligent Key.
RKE-TR/BD [On/Off]		Indicates condition of back door open signal from Intelligent Key.
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal from Intelligent Key.
RKE PBD		Indicates condition of power back door 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].
TRUNK/BACK DOOR	This test is able to check back door actuator operation [Open].
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].
REVERSE LAMP TEST	This test is able to check reverse lamp illumination operation [On/Off].
DOOR HANDLE LAMP TEST	This test is able to check door handle lamp illumination 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].
DR SEAT LAMP TEST	This test is able to check driver seat lamp illumination operation [On/Off].
AS SEAT LAMP TEST	This test is able to check passenger seat lamp illumination operation [On/Off].
SHIFT SPOT LAMP TEST	This test is able to check shift spot lamp illumination operation [On/Off].

WORK SUPPORT

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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.
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.
TRUNK/GLASS HATCH OPEN	On*		Buzzer reminder function by back door request switch ON.
	Off		Buzzer reminder function by back door request switch 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

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:0000000011559077

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item [Unit]	Description
TR CANCEL SW [On/Off]	Indicates condition of trunk cancel switch.
TR/BD OPEN SW [On/Off]	Indicates condition of back door opener switch.
RKE-TR/BD [On/Off]	Indicates condition of back door open signal from Intelligent Key.
TRNK/HAT MNTR [On/Off]	Indicates condition of luggage room lamp switch.

A

B

C

D

E

F

G

H

I

J

DLK

L

M

N

O

P

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

CONSULT Function

INFOID:0000000011218603

APPLICATION ITEMS

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

Diagnosis Mode	Function Description
Self Diagnostic Result	Displays the diagnosis results judged by automatic back door control module.
Data Monitor	The automatic back door control module input/output signals are displayed.
Work support	Changes the setting for each setting function.
ECU Identification	The automatic back door control module part number is displayed.

SELF DIAGNOSTIC RESULTS

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

DATA MONITOR

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

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

WORK SUPPORT

Work Item	Description	Refer to
RESET AUTO BACK DOOR STATUS	This item is for calibration of automatic back door position information.	DLK-116, "Work Procedure"

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AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION

AUTOMATIC BACK DOOR CONTROL UNIT

Reference Value

INFOID:0000000011218604

VALUES ON THE DIAGNOSIS TOOL

CONSULT MONITOR ITEM

Monitor Item	Condition		Value/Status
SPINDLE SENSOR LH	Back door: Moving		0 – 65535
SPINDLE LH SPEED	Back door: Moving		0 – 6553.5
SPINDLE MOTOR LH DUTY	Back door: Moving		0 – 255
VHCL SPEED MTR	While driving		Equivalent to speedometer reading
VHCL SPEED ABS	While driving		Equivalent to speedometer reading
MAIN SW	Automatic back door main switch	OFF	OFF
		ON	ON
AUTO BD SW	Automatic back door switch	Release	OFF
		Press	ON
BK DOOR CL SW	Automatic back door close switch	Release	OFF
		Press	ON
BACK DOOR LOCK STATUS	Back door lock	Lock	OFF
		Unlock	ON
PKB SW	Parking brake	Not applied	OFF
		Applied	ON
OPEN SW	Back door	Half latch/fully closed	OFF
		Applied	ON
CLOSE SW	Back door	Open/half latch	OFF
		Fully closed	ON
HALF LATCH SW	Back door	Half latch/fully closed	OFF
		Open	ON
TOUCH SEN RH	Touch sensor RH	Other than below	OFF
		Detect obstruction	ON
TOUCH SEN LH	Touch sensor LH	Other than below	OFF
		Detect obstruction	ON
P RANGE IND	Selector lever	Other than P position	OFF
		P position	ON
RKE REQ	Intelligent Key button (back door)	Release	OFF
		Press (more than 0.5 seconds)	MOVE
		Press (just after)	REV
IGN SW	Ignition switch	Other than ON position	OFF
		ON position	ON
SPINDLE LH ENCODER A	Automatic back door	Not operate	No change HI or LO
		Operated	Change HI or LO
SPINDLE LH ENCODER B	Automatic back door	Not operate	No change HI or LO
		Operated	Change HI or LO

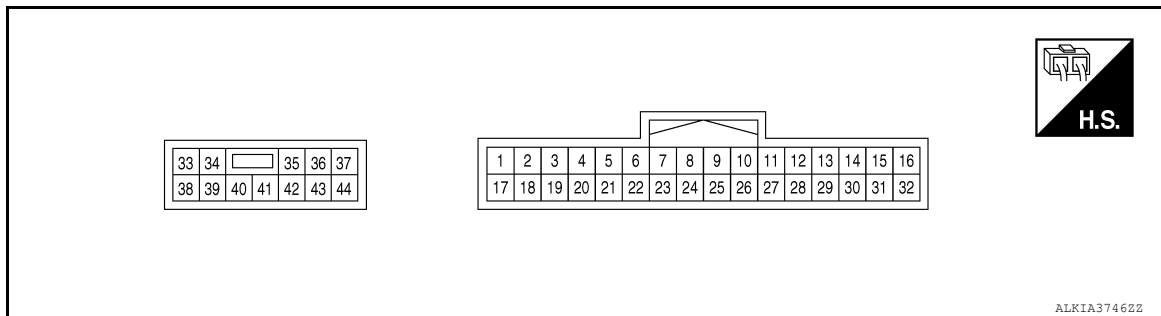
AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition		Value/Status
UNLOCK SEN BD	Back door lock	Lock	LOCK
		Unlock	UNLK
DESTINATION	—		OTHER
AUTO BCK DR POS INITIAL	Calibration of automatic back door position information	Not complete	YET
		Complete	DONE
AUTO BCK DR POS LEARN	Additional service when removing battery negative terminal	Not complete	YET
		Complete	DONE
SPINDLE SENSOR RH	Back door: Moving		0 – 65535
SPINDLE RH SPEED	Back door: Moving		0 – 6553.5
SPINDLE MOTOR RH DUTY	Back door: Moving		0 – 255
SPINDLE RH ENCODER A	Automatic back door	Not operated	No change HI or LO
		Operate	Change HI or LO
SPINDLE RH ENCODER B	Automatic back door	Not operated	No change HI or LO
		Operate	Change HI or LO
TRANSMISSION TYPE	—		AT/CVT

TERMINAL LAYOUT



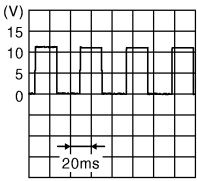
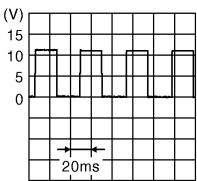
PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
1 (L)	Ground	CAN high	Input/ Output	—		—
2 (B)	Ground	Back door warning chime	Output	Automatic back door warning chime	Sounding	Battery voltage
					Not sounding	0 V
3 (V)	Ground	Touch sensor ground	Input	—		0.01 – 0 V
4 (BR)	3 (V)	Touch sensor RH signal	Input	Touch sensor RH	Detect obstruction	1.8 – 5 V
					Other than above	2.72 – 7.27 V
5 (G/W)	3 (V)	Touch sensor LH signal	Input	Touch sensor LH	Detect obstruction	1.8 – 2.72 V
					Other than above	5.0 – 7.27 V
6 (BR/Y)	Ground	Open switch signal	Input	Back door	Open	0 V
					Half latch/fully closed	Battery voltage

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

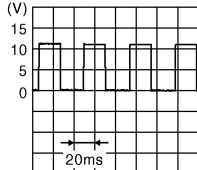
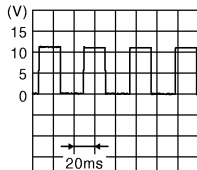
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(-)	Signal name	Input/ Output			
7 (L/G)	Ground	Half latch switch signal	Input	Back door	Open	0 V
					Fully closed/half latch	Battery voltage
8 (BR/W)	Ground	Close switch signal	Input	Back door	Fully closed	0 V
					Open/half latch	Battery voltage
11 (B/W)	Ground	Ground	—	—	—	0 V
13 (L)	Ground	Automatic back door switch	Input	Automatic back door switch	Pressed	Battery voltage
					Released	0 V
14 (Y/GR)	Ground	Automatic back door close switch	Input	Automatic back door close switch	Pressed	Battery voltage
					Released	0 V
17 (P)	Ground	CAN low	Input/ Output	—	—	—
18 (Y/O)	Ground	Encoder RH power supply	Output	—	—	Battery voltage
19 (W/V)	Ground	Encoder RH A signal	Input	Back door	Moving (automatic or manual)	 NOTE: Waveform width changes according to back door open/close speed.
					When stopped	0 V or 12 V
20 (G/BR)	Ground	Encoder RH B signal	Input	Back door	Moving (automatic or manual)	 NOTE: Waveform width changes according to back door open/close speed.
					When stopped	0 V or 12 V
21 (G/W)	Ground	Encoder ground	—	—	—	0 V
22 (B/W)	Ground	Encoder LH power supply	Output	—	—	Battery voltage

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(-)	Signal name	Input/ Output			
23 (V/W)	Ground	Encoder LH A signal	Input	Back door	Moving (automatic or manual)	 JMKIA1864ZZ NOTE: Waveform width changes according to back door open/close speed.
					When stopped	0 V or Battery voltage
24 (Y)	Ground	Encoder LH B signal	Input	Back door	Moving (automatic or manual)	 JMKIA1864ZZ NOTE: Waveform width changes according to back door open/close speed.
					When stopped	0 V or 12 V
25 (Shield)	Ground	Ground (noise shield spindle)	—	—	—	0.01 – 0 V
29 (BR/Y)	Ground	Automatic back door main switch	Input	Automatic back door main switch	ON	Battery voltage
					OFF	0 V
33 (P)	Ground	Power supply (BAT)	Input	—	—	Battery voltage
34 (P)	Ground	Back door warning chime	Output	Automatic back door warning chime	Sounding	0 V
					Not sounding	Battery voltage
35 (B)	Ground	Spindle motor RH (open)	Output	Back door	Auto open operation	Battery voltage
36 (W)	Ground	Spindle motor RH (close)	Output	Back door	Auto close operation	Battery voltage
37 (B)	Ground	Spindle motor LH (open)	Output	Back door	Auto open operation	Battery voltage
38 (W)	Ground	Spindle motor LH (close)	Output	Back door	Auto close operation	Battery voltage
39 (B)	Ground	Back door closure motor (open)	Output	Back door	Open operation	Battery voltage
					Other than above	0 V
40 (W)	Ground	Back door closure motor (close)	Output	Back door	Close operation	Battery voltage
					Other than above	0 V
41 (B)	Ground	Ground	—	—	—	0 V
42 (B/L)	Ground	Ground	—	—	—	0 V

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AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Fail Safe

INFOID:000000011218605

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

DTC Inspection Priority Chart

INFOID:000000011218606

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

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

DTC Index

INFOID:000000011218607

NOTE:

Details of time display

- 1 - 39: Displayed if any previous malfunction is present when current condition is normal. It increases 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition is switched OFF → ON. The counter remains at 39 even if the number of cycles exceeds it. It is counted from 1 again when turning ignition switch OFF → ON after returning to the normal condition if the malfunction is detected again.

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

CONSULT display	Fail-safe	Reference page
U1000: CAN COMM	×	BCS-69, "DTC Description"
U1010: CONTROL UNIT (CAN)	×	BCS-70, "DTC Description"
B2401: IGN OPEN	×	DLK-121, "DTC Description"
B2409: HALF LATCH SW	×	DLK-122, "DTC Description"
B2416: TOUCH SEN R OPEN	×	DLK-125, "DTC Description"
B2417: TOUCH SEN L OPEN	×	DLK-128, "DTC Description"
B2419: OPEN SW	×	DLK-131, "DTC Description"
B2420: CLOSE SW	×	DLK-134, "DTC Description"
B2422: BACK DOOR STATE	×	DLK-137, "DTC Description"
B2423: ABD MTR TIME OUT	×	DLK-140, "DTC Description"
B2426: SPINDLE SENSOR LH	×	DLK-142, "DTC Description"
B2427: SPINDLE SENSOR RH	×	DLK-145, "DTC Description"
B2428: AUTO BACK DR CNT UNIT	×	DLK-148, "DTC Description"
B242A: CLSR CONDITION	×	DLK-149, "DTC Description"

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BCM

List of ECU Reference

INFOID:0000000011218608

ECU	Reference
BCM	BCS-30. "Reference Value"
	BCS-50. "Fail Safe"
	BCS-51. "DTC Inspection Priority Chart"
	BCS-52. "DTC Index"

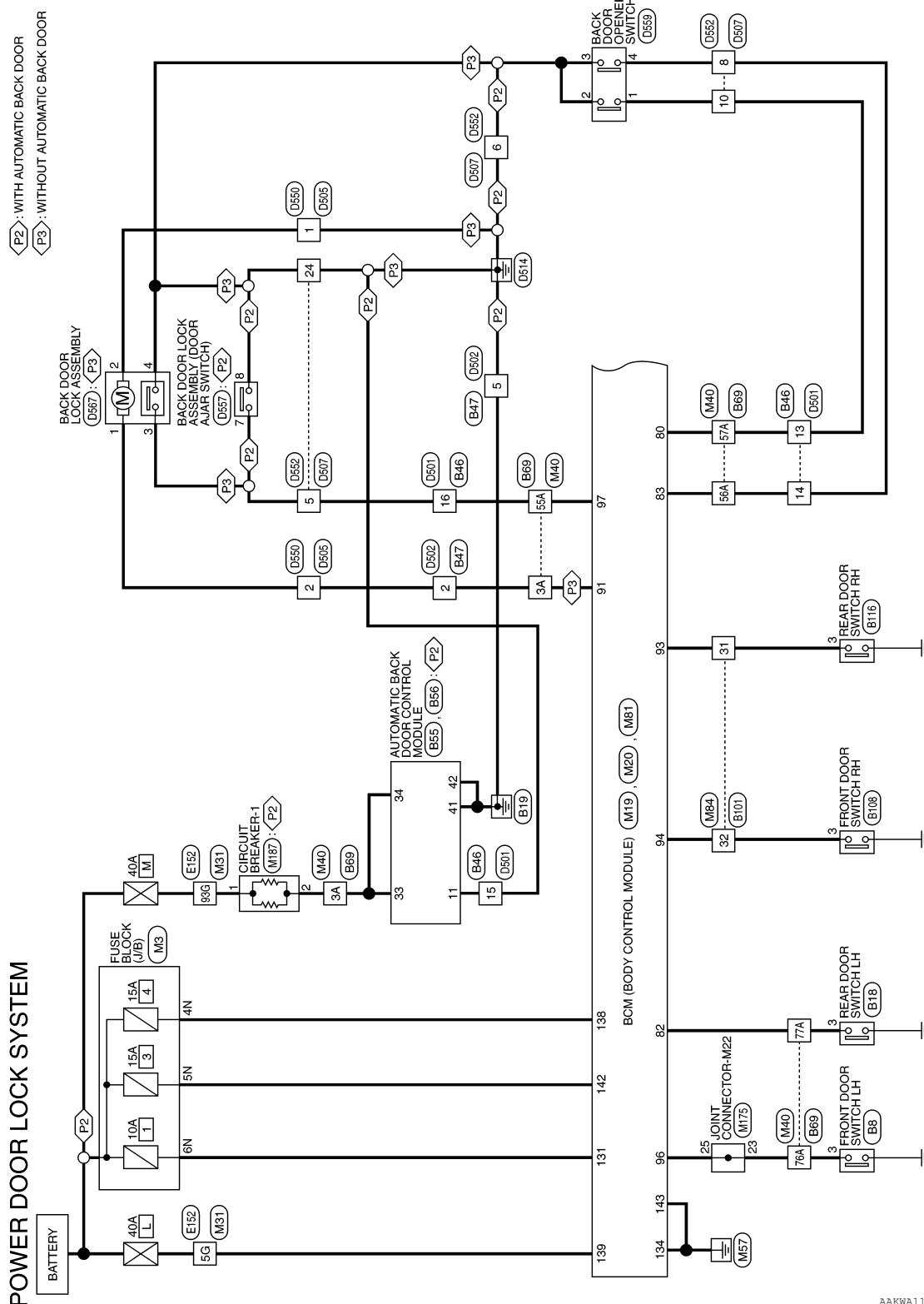
[WITH INTELLIGENT KEY SYSTEM]

WIRING DIAGRAM

POWER DOOR LOCK SYSTEM

Wiring Diagram

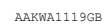
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[WITH INTELLIGENT KEY SYSTEM]

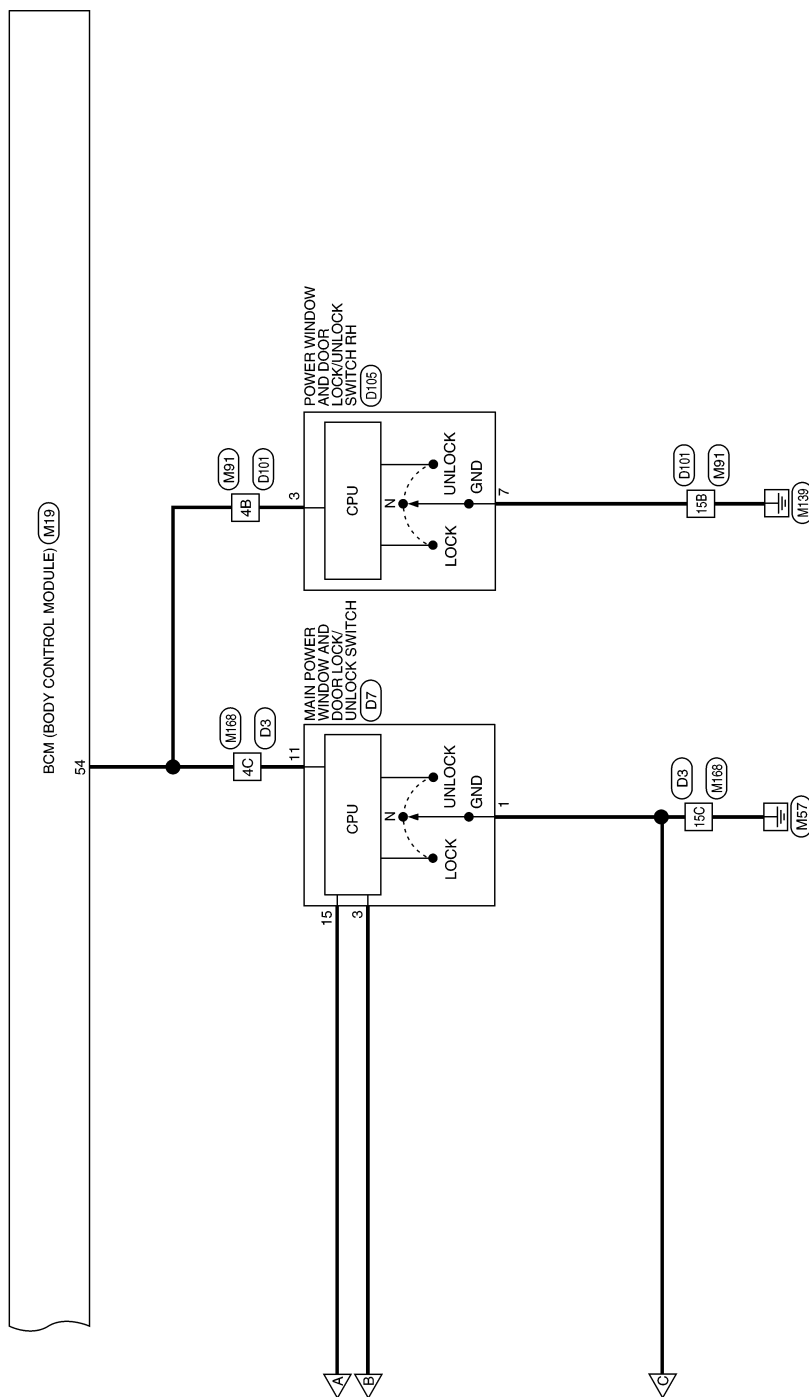
Revision: October 2014



POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]



AAKWA1120GB

DLK

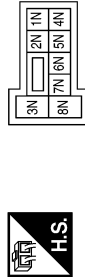
POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

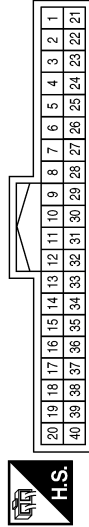
POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



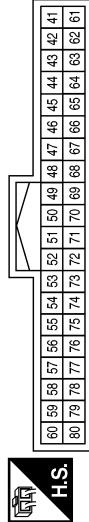
Terminal No.	Color of Wire	Signal Name
4N	V	—
5N	Y	—
6N	W	—

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



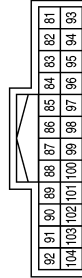
Terminal No.	Color of Wire	Signal Name
30	P	DR DOOR LOCK STATUS

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



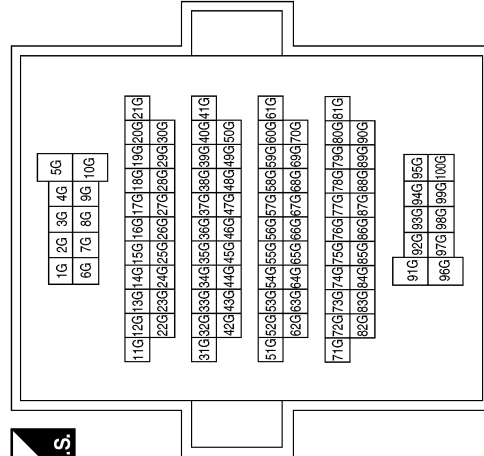
Terminal No.	Color of Wire	Signal Name
54	W	PW LIN
59	P	CAN-L
60	L	CAN-H
80	R	BACK DOOR OPEN SW

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
82	W	RL DOOR SW
83	BG	BACK DOOR REQUEST SW
91	BR	BACK DOOR OPEN OUT
93	R	RR DOOR SW
94	G	AS DOOR SW
96	BG	DR DOOR SW
97	W	BACK DOOR SW

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE



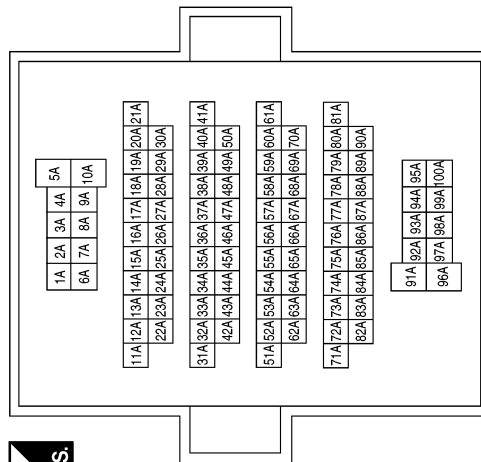
POWER DOOR LOCK SYSTEM

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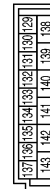
[WITH INTELLIGENT KEY SYSTEM]

Terminal No.	Color of Wire	Signal Name
3A	B	– (WITH AUTOMATIC BACK DOOR)
3A	BR	– (WITHOUT AUTOMATIC BACK DOOR)
55A	W	–
56A	BG	–
57A	R	–
76A	BG	–
77A	W	–
92A	BR	–
93A	Y	–

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	GRAY



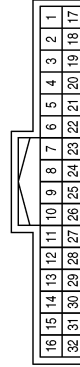
Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
130	LG	SUPER LOCK/DOOR UNLOCK AS
131	W	BAT BCM FUSE
132	BR	DOOR LOCK AS/RR/RL

Terminal No.	Color of Wire	Signal Name
133	Y	DOOR UNLOCK AS/RR/RL
134	GR	GND2
135	L	DOOR LOCK DR/AS/FL
137	V	DOOR UNLOCK DR/AS/FL
138	V	BAT REAR DOOR
139	L	BAT POWER F/L
142	Y	BAT FRONT DOOR
143	GR	GND1

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
31	R	–
32	G	–

POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	M157
Connector Name	WIRE TO WIRE
Connector Color	WHITE

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



1B	2B	3B	4B	5B	6B	7B	8B	9B	10B	11B	12B	13B	14B	15B
16B71E1181	19B20B21B	22B23B24B	25B26B	27B28B29B30B31	32B33B34B35B	36B37B38B39B40B41	42B43B44B45B46B	47B48B49B50B51	52B53B54B55B					

Terminal No.	Color of Wire	Signal Name
14	BR	-
15	Y	-

Terminal No.	Color of Wire	Signal Name
4B	W	-
5B	L	-
6B	LG	-
15B	B	-

Terminal No.	Color of Wire	Signal Name
4C	W	-
5C	L	-
6C	V	-
15C	B	-
42C	P	-

Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1C	2C	3C	4C	5C	6C	7C	8C	9C	10C	11C	12C	13C	14C	15C
16C17C18C19C20C21C	22C23C24C25C26C	27C28C29C30C31C	32C33C34C35C	36C37C38C39C40C41C	42C43C44C45C46C	47C48C49C50C51C	52C53C54C55C							

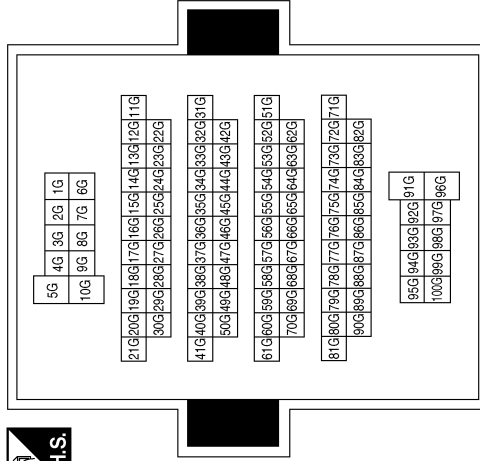
AAKIA2472GB

POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Color	WHITE



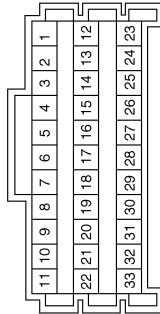
Terminal No.	Color of Wire	Signal Name
5G	P	-
93G	SB	-

Connector No.	M187
Connector Name	CIRCUIT BREAKER-1
Connector Color	WHITE



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

Connector No.	M175
Connector Name	JOINT CONNECTOR-M22
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
23	BG	-
25	BG	-

Connector No.	B18
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	W	-

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



Terminal No.	Color of Wire	Signal Name
3	O	-

AAKIA2473GB

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

DLK

POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	B51
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
2	Y	—
3	GR/BR	—

Connector No.	B47
Connector Name	WIRE TO WIRE
Connector Color	GRAY



1	2	3	4
5	6	7	8

Terminal No.	Color of Wire	Signal Name
2	BR	— (WITHOUT AUTOMATIC BACK DOOR)
5	B	—

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
13	W	—
14	R	—
15	B/W	—
16	Y/O	—

Connector No.	B56
Connector Name	AUTOMATIC BACK DOOR CONTROL MODULE
Connector Color	WHITE



33	34		35	36	37
38	39	40	41	42	43
				44	45

Terminal No.	Color of Wire	Signal Name
33	P	PBD POWER1
34	P	PBD POWER2
41	B	GND1
42	B/L	GND2

Connector No.	B55
Connector Name	AUTOMATIC BACK DOOR CONTROL MODULE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
11	B/W	CL SW GND

AAKIA2662GB

POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Color	WHITE

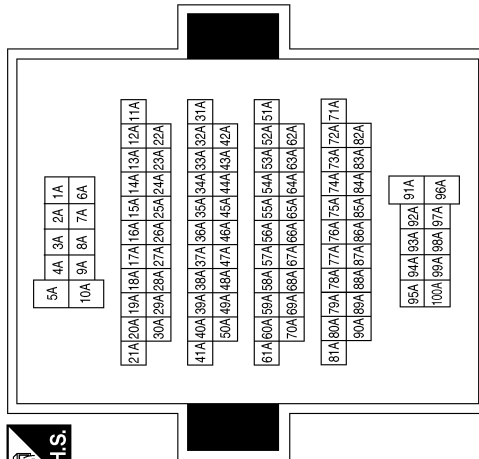


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name
31	G/W	-
32	V	-

Terminal No.	Color of Wire	Signal Name
3A	P	- (WITH AUTOMATIC BACK DOOR)
3A	BR	- (WITHOUT AUTOMATIC BACK DOOR)
55A	Y/O	-
56A	R	-
57A	W	-
76A	O	-
77A	W	-
92A	Y	-
93A	GR/BR	-

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	GRAY



Connector No.	B139
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Connector No.	B116
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



1	2	3	4
---	---	---	---

Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



1	2	3	4
---	---	---	---

Terminal No.	Color of Wire	Signal Name
2	L/O	-
3	Y	-

Terminal No.	Color of Wire	Signal Name
3	G/W	-

Terminal No.	Color of Wire	Signal Name
3	V	-

AAKIA2475GB

POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	B161
Connector Name	WIRE TO WIRE
Connector Color	WHITE

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



Connector No.	D3
Connector Name	WIRE TO WIRE
Connector Color	WHITE



15C	14C	13C	12C	11C	10C	9C	8C	7C	6C	5C	4C	3C	2C	1C																						
46C	45C	44C	43C	42C	41C	40C	39C	38C	37C	36C					26C	25C	24C	23C	22C	21C	20C	19C	18C	17C	16C											
															85C	84C	83C	82C	81C	80C	79C	78C	77C	76C	75C	74C	73C	72C	71C	70C	69C	68C	67C	66C	65C	64C

Terminal No.	Color of Wire	Signal Name
14	L/O	-
15	Y	-

Terminal No.	Color of Wire	Signal Name
4C	Y/L	-
5C	V/O	-
6C	Y/GR	-
15C	B	-
42C	GR	-

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

1	2	3	4	5	6
---	---	---	---	---	---



Terminal No.	Color of Wire	Signal Name
1	V/O	-
2	Y/GR	-
3	GR	-
4	B	-
5	L/W	-
6	BR	-

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

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



Terminal No.	Color of Wire	Signal Name
1	B	GND
3	BR	D LOCK ACTR DR
11	Y/L	COM
15	L/W	D LOCK ACTR DR

Terminal No.	Color of Wire	Signal Name
4B	Y/L	-
5B	Y/GR	-
6B	GR	-
15B	B	-

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

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

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



Terminal No.	Color of Wire	Signal Name
2	GR/R	-
3	L	-

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

6	5	4	3	2	1
---	---	---	---	---	---



Terminal No.	Color of Wire	Signal Name
1	GR	-
2	Y/GR	-
3	-	-
4	-	-
5	-	-
6	-	-

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

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



Terminal No.	Color of Wire	Signal Name
3	Y/L	COM
7	B	GND

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

6	5	4	3	2	1
---	---	---	---	---	---



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

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

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



Terminal No.	Color of Wire	Signal Name
2	GR/R	-
3	LG	-

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

1	2	3	4	5	6
---	---	---	---	---	---



Terminal No.	Color of Wire	Signal Name
1	GR/R	-
2	L	-
3	-	-
4	-	-
5	-	-
6	-	-

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POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

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



4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	B	-(WITHOUT AUTOMATIC BACK DOOR)
2	BR	-(WITHOUT AUTOMATIC BACK DOOR)

Connector No.	D502
Connector Name	WIRE TO WIRE
Connector Color	GRAY



4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
2	BR	-(WITHOUT AUTOMATIC BACK DOOR)
5	B	-

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



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

Terminal No.	Color of Wire	Signal Name
13	G/W	-
14	V	-
15	B	-
16	P	-

Connector No.	D552
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
5	P	-
6	B	-
8	V	-
10	G/W	-
24	B	-

Connector No.	D550
Connector Name	WIRE TO WIRE
Connector Color	GRAY



1	2	3	4
5	6	7	8

Terminal No.	Color of Wire	Signal Name
1	B	-(WITHOUT AUTOMATIC BACK DOOR)
2	BR	-(WITHOUT AUTOMATIC BACK DOOR)

Connector No.	D507
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
5	P	-
6	B	-
8	V	-
10	G/W	-
24	B	-

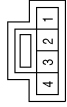
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POWER DOOR LOCK SYSTEM

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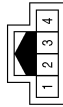
[WITH INTELLIGENT KEY SYSTEM]

Connector No.	D567
Connector Name	BACK DOOR LOCK ASSEMBLY (WITHOUT AUTOMATIC BACK DOOR)
Connector Color	WHITE



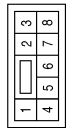
Terminal No.	Color of Wire	Signal Name
1	BR	-
2	B	-
3	P	-
4	B	-

Connector No.	D559
Connector Name	BACK DOOR OPENER SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	GW	-
2	B	-
3	B	-
4	V	-

Connector No.	D557
Connector Name	BACK DOOR LOCK ASSEMBLY (WITH AUTOMATIC BACK DOOR)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	P	-
8	B	-

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

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INTELLIGENT KEY SYSTEM

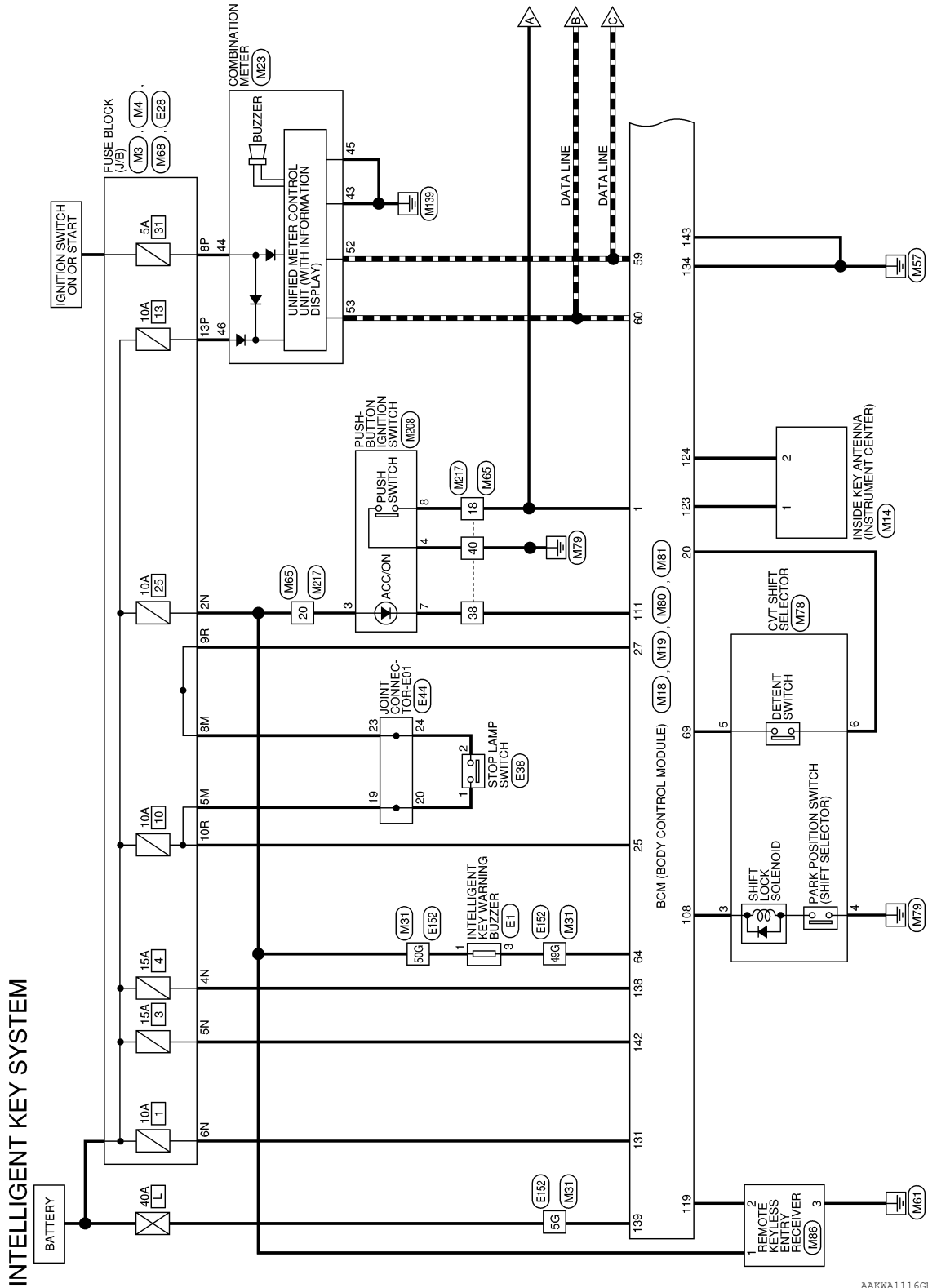
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[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

Wiring Diagram

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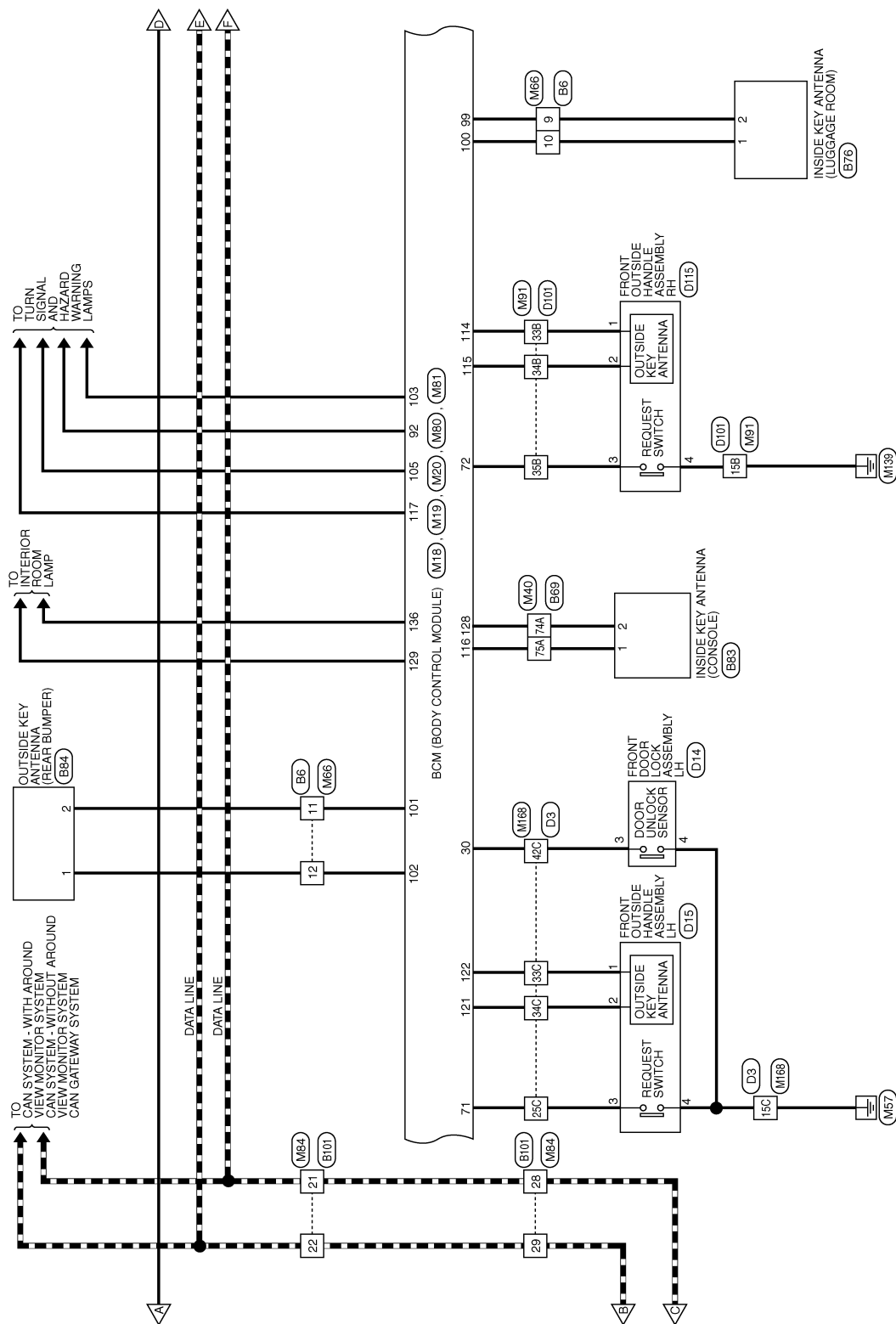


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INTELLIGENT KEY SYSTEM

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[WITH INTELLIGENT KEY SYSTEM]

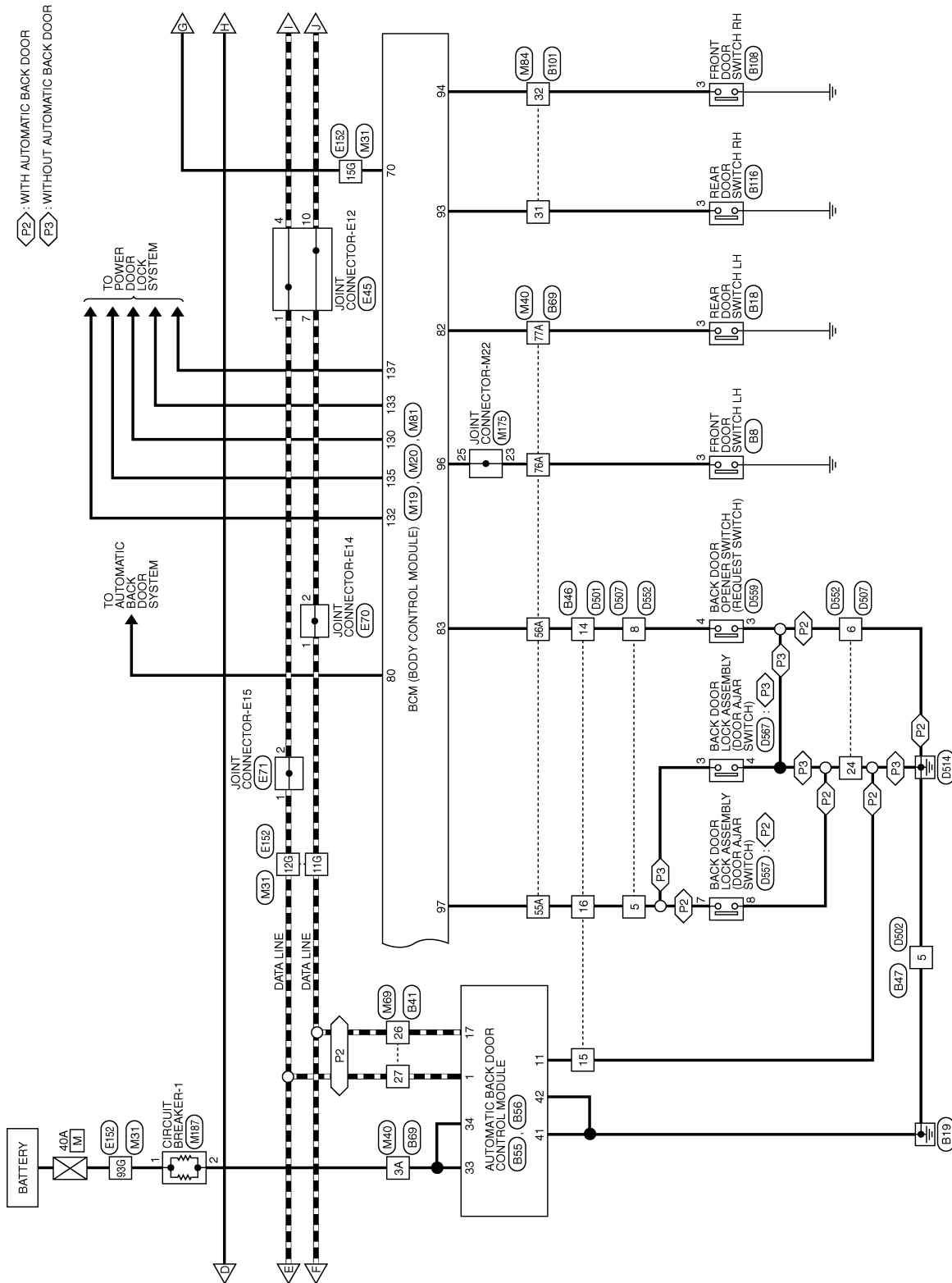


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INTELLIGENT KEY SYSTEM

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[WITH INTELLIGENT KEY SYSTEM]

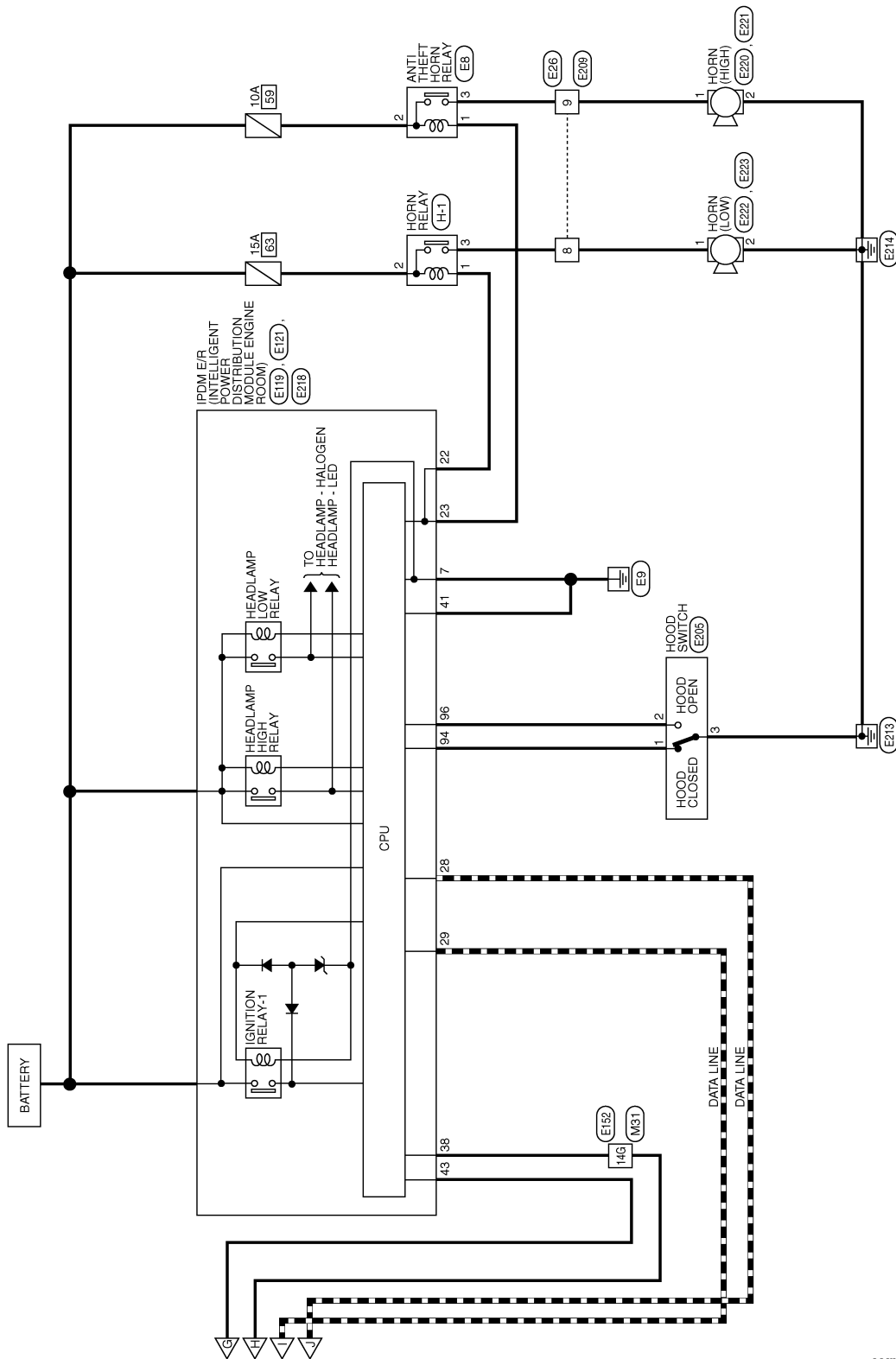


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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]



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A
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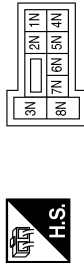
INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE

Connector No.	M14
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Color	GRAY

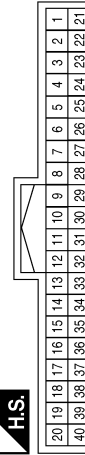


Terminal No.	Color of Wire	Signal Name
2N	BG	-
4N	V	-
5N	Y	-
6N	W	-

Terminal No.	Color of Wire	Signal Name
8P	BG	-
13P	W	-

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

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



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



Terminal No.	Color of Wire	Signal Name
71	R	DR REQUEST SW
72	G	AS REQUEST SW
80	R	BACK DOOR OPEN SW

Terminal No.	Color of Wire	Signal Name
1	G	ENG START SW NO ESCL
20	W	SHIFT P
25	W	BRAKE SW FUSE
27	G	BRAKE SW LAMP
30	P	DR DOOR LOCK STATUS

Terminal No.	Color of Wire	Signal Name
59	P	CAN-L
60	L	CAN-H
64	P	BUZZER OUT
69	G	AT DEVICE OUT
70	P	IGN USM OUT 1

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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No.	Color of Wire	Signal Name
101	R	BACK DOOR ANT B
102	G	BACK DOOR ANT A
103	BG	RL FLASHER

Terminal No.	Color of Wire	Signal Name
83	BG	BACK DOOR REQUEST SW
92	R	RR FLASHER
93	R	RR DOOR SW
94	G	AS DOOR SW
96	BG	DR DOOR SW
97	W	BACK DOOR SW
99	P	ROOM ANT 3 B
100	W	ROOM ANT 3 A

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GRAY

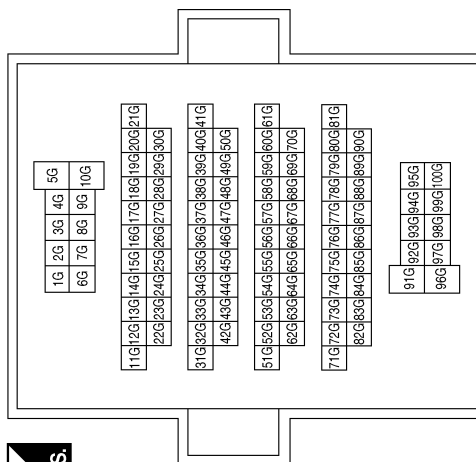
92	91	90	89	88	87	86	85	84	83	82	81
104	103	102	101	100	99	98	97	96	95	94	93



Terminal No.	Color of Wire	Signal Name
82	W	RL DOOR SW

Terminal No.	Color of Wire	Signal Name
5G	L	-
11G	P	-
12G	L	-
14G	G	-
15G	P	-
49G	P	-
50G	BG	-
93G	B	-

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M23
Connector Name	COMBINATION METER
Connector Color	WHITE

41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56



Terminal No.	Color of Wire	Signal Name
43	B	GND1
44	BG	IGN
45	B	GND2
46	W	POWER (BAT)
52	P	CAN-L
53	L	CAN-H

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

DLK

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	M65
Connector Name	WIRE TO WIRE
Connector Color	WHITE

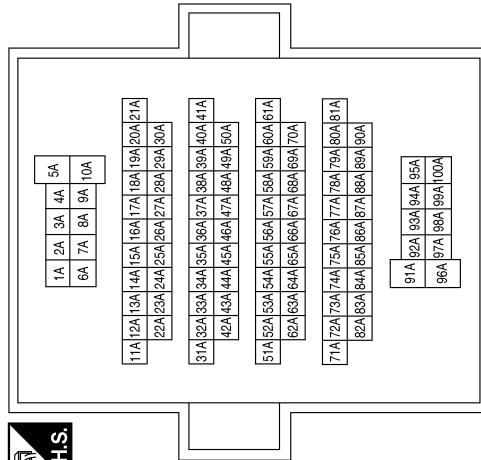
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40



Terminal No.	Color of Wire	Signal Name
18	G	—
20	BG	—
38	LG	—
40	GR	—

Terminal No.	Color of Wire	Signal Name
3A	B	— (WITH AUTOMATIC BACK DOOR)
55A	W	—
56A	BG	—
74A	R	—
75A	W	—
76A	BG	—
77A	W	—

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	GRAY



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



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

Terminal No.	Color of Wire	Signal Name
26	P	—
27	L	—

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Color	BROWN



7R	6R	5R	4R	3R	2R	1R
16R	15R	14R	13R	12R	11R	10R
9R	8R	7R	6R	5R	4R	3R
2R	1R	0R	0R	0R	0R	0R

Terminal No.	Color of Wire	Signal Name
9R	G	—
10R	W	—

Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
9	P	—
10	W	—
11	R	—
12	G	—

AAKIA2486GB

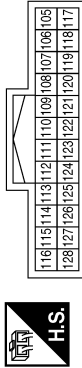
INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

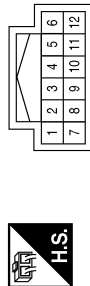
Terminal No.	Color of Wire	Signal Name
114	W	AS DOOR ANT A
115	BG	AS DOOR ANT B
116	W	ROOM ANT 2 A
117	SB	FL SL FLASHER
119	R	RF NIMOCO
121	G	DR DOOR ANT B
122	GR	DR DOOR ANT A
123	W	ROOM ANT 1 A
124	G	ROOM ANT 1 B
128	R	ROOM ANT 2 B

Connector No.	M80
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



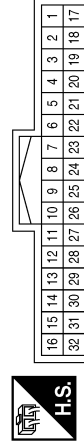
Terminal No.	Color of Wire	Signal Name
105	LG	FR SR FLASHER
108	G	SHIFT LOCK SOLENOID OUT
111	LG	ACC LED

Connector No.	M78
Connector Name	CVT SHIFT SELECTOR
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	G	-
4	B	-
5	G	-
6	W	-

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
21	P	-
22	L	-
28	P	-
29	L	-
31	R	-
32	G	-

Terminal No.	Color of Wire	Signal Name
133	Y	DOOR UNLOCK AS/RR/RL
134	GR	GND2
135	L	DOOR LOCK DR/AS/FL
136	LG	ROOM LAMP CONT
137	V	DOOR UNLOCK DR/AS/FL
138	V	BAT REAR DOOR
139	L	BAT POWER F/L
142	Y	BAT FRONT DOOR
143	GR	GND1

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
129	SB	BATTERY SAVER OUT
130	LG	SUPER LOCK/DOOR UNLOCK AS
131	W	BAT BCM FUSE
132	BR	DOOR LOCK AS/RR/RL

AAKIA2657GB

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

DLK

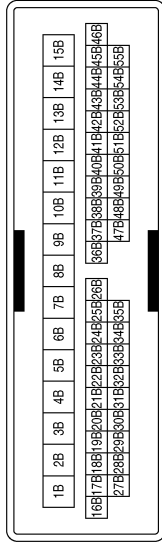
INTELLIGENT KEY SYSTEM

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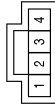
[WITH INTELLIGENT KEY SYSTEM]

Terminal No.	Color of Wire	Signal Name
15B	B	—
33B	W	—
34B	BG	—
35B	G	—

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M86
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Color	BLACK

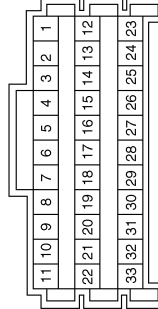


Terminal No.	Color of Wire	Signal Name
1	BG	—
2	R	—
3	B	—
4	—	—

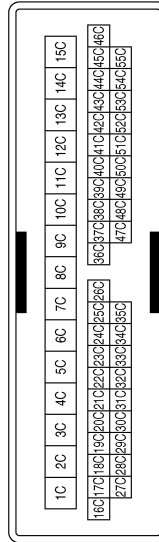
Connector No.	M187
Connector Name	CIRCUIT BREAKER-1
Connector Color	WHITE



Connector No.	M175
Connector Name	JOINT CONNECTOR-M22
Connector Color	WHITE



Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	B	—
2	B	—

Terminal No.	Color of Wire	Signal Name
23	BG	—
25	BG	—

Terminal No.	Color of Wire	Signal Name
15C	B	—
25C	R	—
33C	GR	—
34C	G	—
42C	P	—

AAKIA2488GB

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

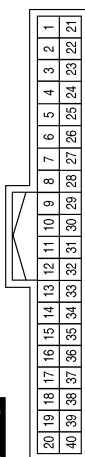
[WITH INTELLIGENT KEY SYSTEM]

Connector No.	E1
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Color	BROWN



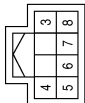
Terminal No.	Color of Wire	Signal Name
1	G	-
2	-	-
3	W	-

Connector No.	M217
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
18	BR	-
20	Y	-
38	LG	-
40	B	-

Connector No.	M208
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Color	WHITE

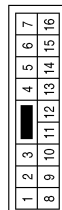


Terminal No.	Color of Wire	Signal Name
3	Y	-
4	B	-
7	LG	-
8	BR	-

Connector No.	E28
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Connector No.	E26
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5M	W	-
8M	P	-

Terminal No.	Color of Wire	Signal Name
8	G	-
9	L	-

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



AAKIA2489GB

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

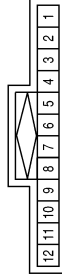
DLK

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

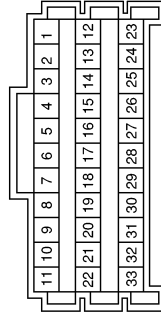
[WITH INTELLIGENT KEY SYSTEM]

Connector No.	E45
Connector Name	JOINT CONNECTOR-E12
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	L	-
4	L	-
7	P	-
10	P	-

Connector No.	E44
Connector Name	JOINT CONNECTOR-E01
Connector Color	WHITE



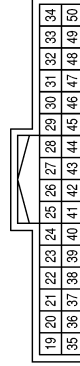
Terminal No.	Color of Wire	Signal Name
19	W	-
20	W	-
23	P	-
24	P	-

Connector No.	E38
Connector Name	STOP LAMP SWITCH
Connector Color	WHITE



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

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
22	Y	HORN RLY
23	Y	HORN SW
28	P	CAN-L
29	L	CAN-H
38	P	PUSH START SW
41	B	S-GND
43	L	IGN SIGNAL

Connector No.	E71
Connector Name	JOINT CONNECTOR-E15
Connector Color	BLACK



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

Connector No.	E70
Connector Name	JOINT CONNECTOR-E14
Connector Color	BLACK



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

AAKIA2490GB

[WITH INTELLIGENT KEY SYSTEM]

A
B
C
D
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F
G
H
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J
DLK
L
M
N
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P

Terminal No.	Color of Wire	Signal Name
94	G/W	HOODSW 2
96	G/O	HOODSW

2015 Murano

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	E220
Connector Name	HORN (HIGH)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	V/R	—

Connector No.	E221
Connector Name	HORN (HIGH)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	B	—

Connector No.	E222
Connector Name	HORN (LOW)
Connector Color	BROWN



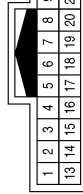
Terminal No.	Color of Wire	Signal Name
1	W	—

Connector No.	E223
Connector Name	HORN (LOW)
Connector Color	BLACK



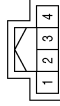
Terminal No.	Color of Wire	Signal Name
2	B	—

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
9	P	—
10	W	—
11	R	—
12	G	—

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



Terminal No.	Color of Wire	Signal Name
3	O	—

AAKIA2492GB

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	B18
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE

1	2	3	4
---	---	---	---



Terminal No.	Color of Wire	Signal Name
3	W	-

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Color	WHITE

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



Terminal No.	Color of Wire	Signal Name
26	P	-
27	L	-

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Color	WHITE

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



Terminal No.	Color of Wire	Signal Name
14	R	-
15	B/W	-
16	Y/O	-

Connector No.	B47
Connector Name	WIRE TO WIRE
Connector Color	GRAY

1	2	3	4
5	6	7	8



Terminal No.	Color of Wire	Signal Name
5	B	-

Connector No.	B55
Connector Name	AUTOMATIC BACK DOOR CONTROL MODULE
Connector Color	WHITE

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



Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
11	B/W	CL SW GND
17	P	CAN-L

Connector No.	B56
Connector Name	AUTOMATIC BACK DOOR CONTROL MODULE
Connector Color	WHITE

33	34		35	36	37
38	39	40	41	42	43
				44	



Terminal No.	Color of Wire	Signal Name
33	P	PBD POWER1
34	P	PBD POWER2
41	B	GND1
42	B/L	GND2

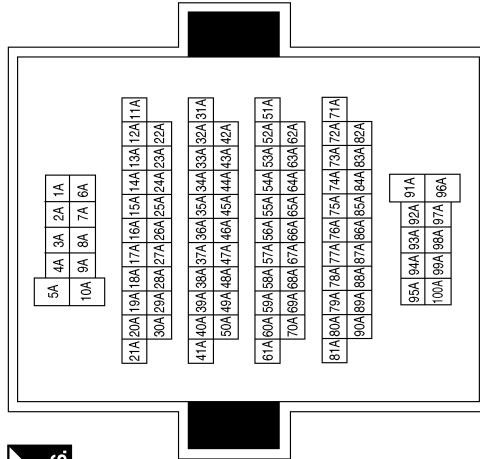
AAKIA2658GB

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
3A	P	– (WITH AUTOMATIC BACK DOOR)
55A	Y/O	–
56A	R	–
74A	B	–
75A	LW	–
76A	O	–
77A	W	–

Connector No.	B76
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	W	–
2	P	–

Connector No.	B83
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	LW	–
2	B	–

Connector No.	B84
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Color	GRAY



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

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

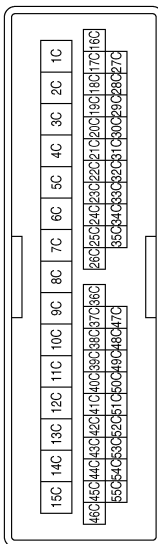
Terminal No.	Color of Wire	Signal Name
21	P	–
22	L	–
28	P	–
29	L	–
31	G/W	–
32	V	–

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

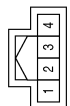
[WITH INTELLIGENT KEY SYSTEM]

Connector No.	D3
Connector Name	WIRE TO WIRE
Connector Color	WHITE



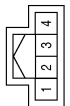
Terminal No.	Color of Wire	Signal Name
15C	B	-
25C	R	-
33C	P	-
34C	G	-
42C	GR	-

Connector No.	B116
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



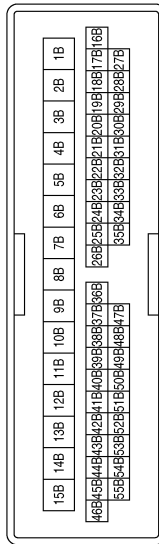
Terminal No.	Color of Wire	Signal Name
3	G/W	-

Connector No.	B108
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



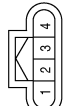
Terminal No.	Color of Wire	Signal Name
3	V	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



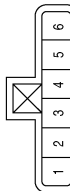
Terminal No.	Color of Wire	Signal Name
15B	B	-
33B	G/W	-
34B	Y	-
35B	GR/BR	-

Connector No.	D15
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY LH
Connector Color	BLACK



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

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



Terminal No.	Color of Wire	Signal Name
3	GR	-
4	B	-

AAKIA2495GB

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

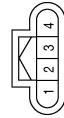
DLK

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

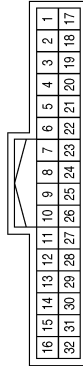
[WITH INTELLIGENT KEY SYSTEM]

Connector No.	D115
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY RH
Connector Color	BLACK



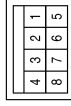
Terminal No.	Color of Wire	Signal Name
1	G/W	-
2	Y	-
3	GR/BR	-
4	B	-

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



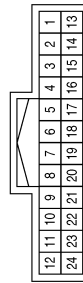
Terminal No.	Color of Wire	Signal Name
14	V	-
15	B	-
16	P	-

Connector No.	D502
Connector Name	WIRE TO WIRE
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
5	B	-

Connector No.	D507
Connector Name	WIRE TO WIRE
Connector Color	WHITE



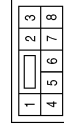
Terminal No.	Color of Wire	Signal Name
5	P	-
6	B	-
8	V	-
24	B	-

Connector No.	D552
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5	P	-
6	B	-
8	V	-
24	B	-

Connector No.	D557
Connector Name	BACK DOOR LOCK ASSEMBLY (WITH AUTOMATIC BACK DOOR)
Connector Color	WHITE



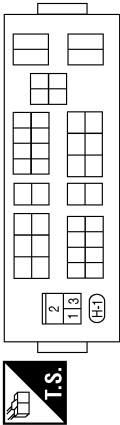
Terminal No.	Color of Wire	Signal Name
7	P	-
8	B	-

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	H-1
Connector Name	FUSE AND FUSIBLE LINK BOX (HORN RELAY)
Connector Color	-



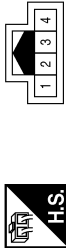
Terminal No.	Color of Wire	Signal Name
1	Y	-
2	W	-
3	G	-

Connector No.	D567
Connector Name	BACK DOOR LOCK ASSEMBLY (WITHOUT AUTOMATIC BACK DOOR)
Connector Color	WHITE



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

Connector No.	D559
Connector Name	BACK DOOR OPENER SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	B	-
4	V	-

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DLK
L
M
N
O
P

DLK

AAKIA2497GB

AUTOMATIC BACK DOOR SYSTEM

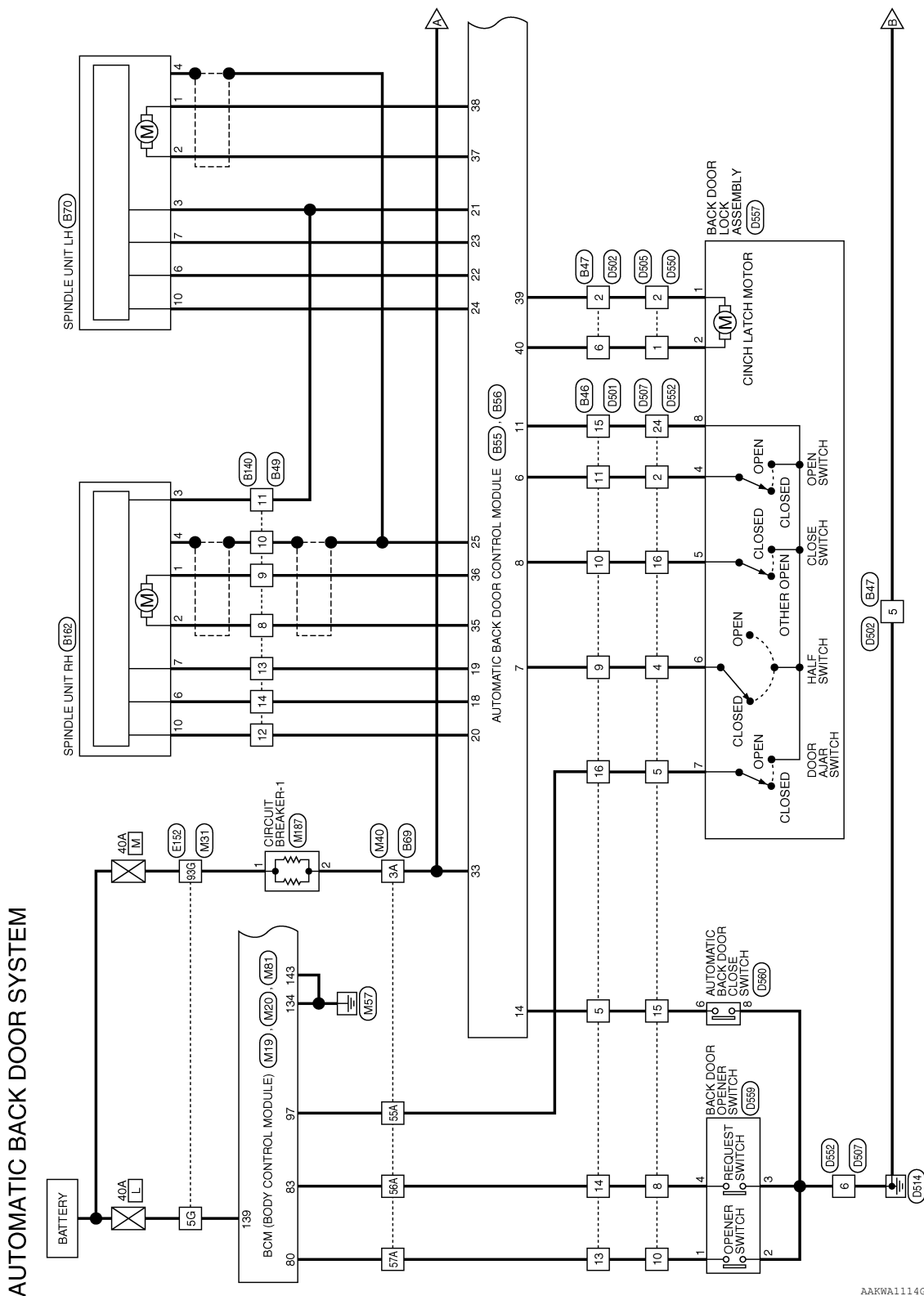
< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

Wiring Diagram

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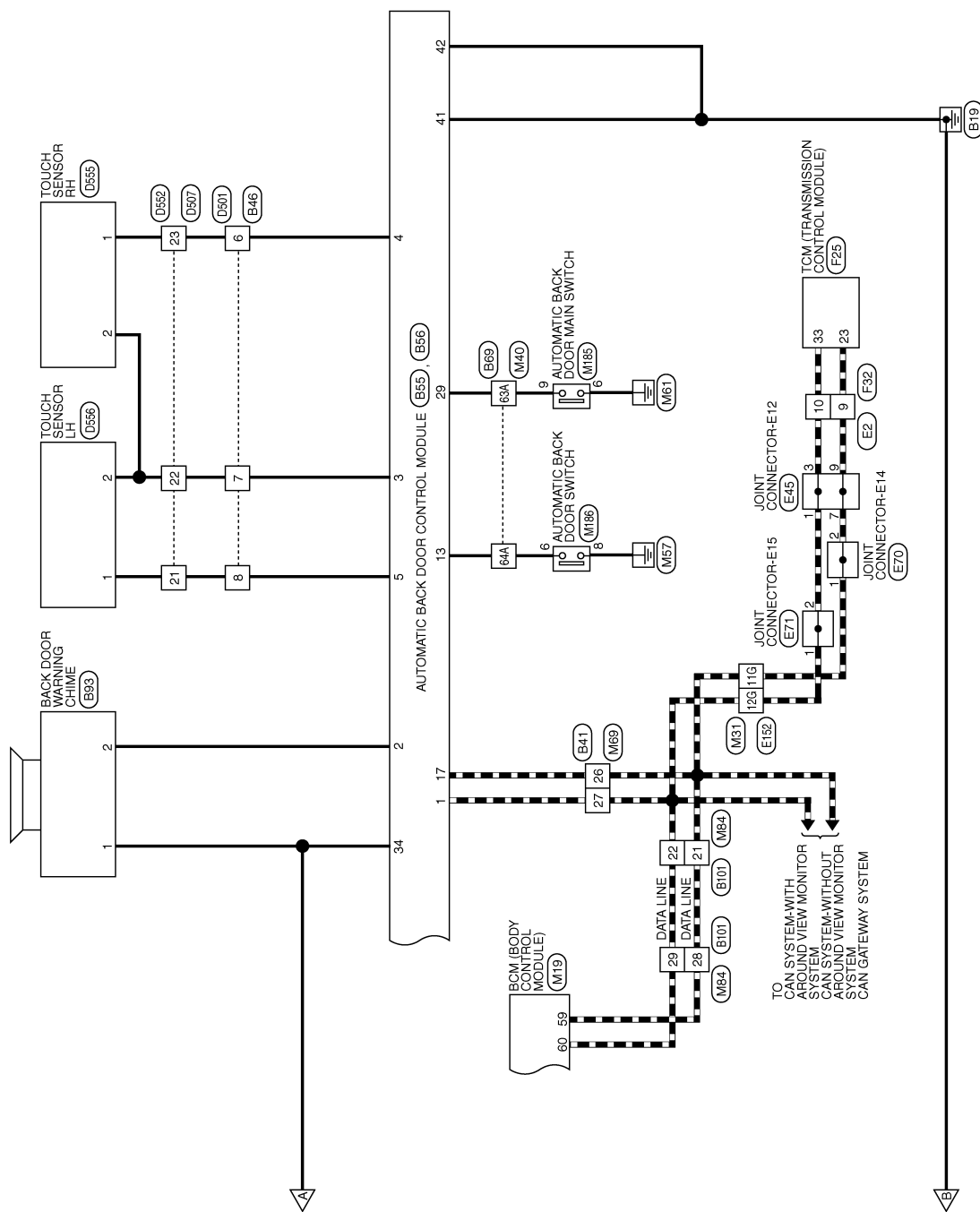


AAKWA1114GB

AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]



AAKWA1115GB

AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM CONNECTORS

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



60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61



92	91	90	89	88	87	86	85	84	83	82	81
104	103	102	101	100	99	98	97	96	95	94	93

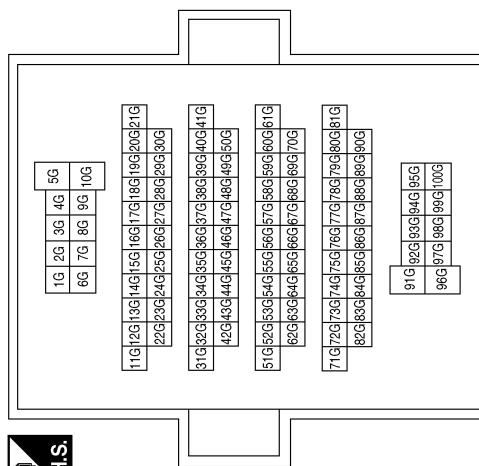
Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GRAY

Terminal No.	Color of Wire	Signal Name
59	P	CAN-L
60	L	CAN-H
80	R	BACK DOOR OPEN SW

Terminal No.	Color of Wire	Signal Name
83	BG	BACK DOOR REQUEST SW
97	W	BACK DOOR SW

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
5G	L	-
11G	P	-
12G	L	-
93G	B	-



AAKIA2649GB

AUTOMATIC BACK DOOR SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

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

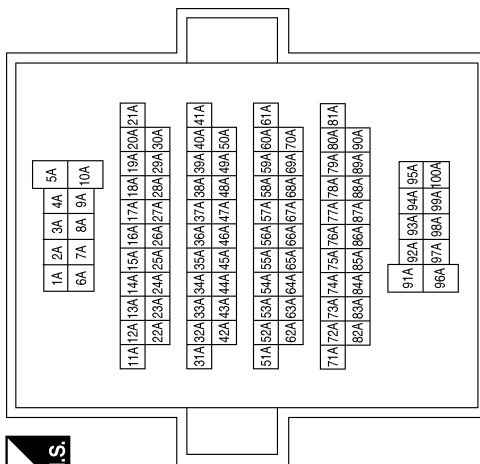


16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color of Wire	Signal Name
26	P	-
27	L	-

Terminal No.	Color of Wire	Signal Name
3A	B	-(WITH AUTOMATIC BACK DOOR)
55A	W	-
56A	BG	-
57A	R	-
63A	Y	-
64A	LG	-

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	GRAY



Connector No.	M185
Connector Name	AUTOMATIC BACK DOOR MAIN SWITCH
Connector Color	WHITE



5	4	3	2	1
10	9	8	7	6

Terminal No.	Color of Wire	Signal Name
6	B	-
9	Y	-

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
21	P	-
22	L	-
28	P	-
29	L	-

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



137	136	135	134	133	132	131	130	129
143	142	141	140	139	138			

Terminal No.	Color of Wire	Signal Name
134	GR	GND2
139	L	BAT POWER F/L
143	GR	GND1

AAKIA2650GB

AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	M186
Connector Name	AUTOMATIC BACK DOOR SWITCH
Connector Color	GREEN



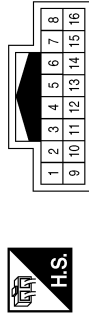
Terminal No.	Color of Wire	Signal Name
6	LG	-
8	B	-

Connector No.	M187
Connector Name	CIRCUIT BREAKER-1
Connector Color	WHITE



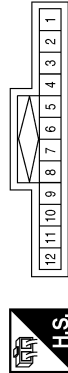
Terminal No.	Color of Wire	Signal Name
1	B	-
2	B	-

Connector No.	E2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
9	P	-
10	L	-

Connector No.	E45
Connector Name	JOINT CONNECTOR-E12
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	L	-
3	L	-
7	P	-
9	P	-

Connector No.	E70
Connector Name	JOINT CONNECTOR-E14
Connector Color	BLACK



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

Connector No.	E71
Connector Name	JOINT CONNECTOR-E15
Connector Color	BLACK



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

AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

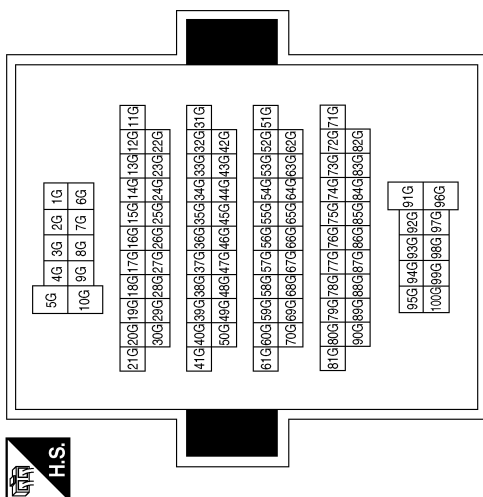
Connector No.	F25
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Color	BLACK

31	32	33	34	35	36	37	38	39	40	47	48
21	22	23	24	25	26	27	28	29	30	45	46
11	12	13	14	15	16	17	18	19	20	43	44
1	2	3	4	5	6	7	8	9	10	41	42

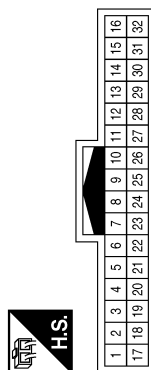
Terminal No.	Color of Wire	Signal Name
23	P	CAN-L
33	L	CAN-H

Terminal No.	Color of Wire	Signal Name
5G	P	-
11G	P	-
12G	L	-
93G	SB	-

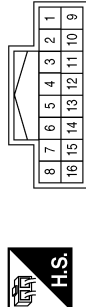
Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	F32
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
26	P	-
27	L	-

Terminal No.	Color of Wire	Signal Name
9	P	-
10	L	-

AAKIA2652GB

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

AUTOMATIC BACK DOOR SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

Connector No.	B47
Connector Name	WIRE TO WIRE
Connector Color	GRAY



1	2	3	4
5	6	7	8

Terminal No.	Color of Wire	Signal Name
2	B	– (WITH AUTOMATIC BACK DOOR)
5	B	–
6	W	– (WITH AUTOMATIC BACK DOOR)

Terminal No.	Color of Wire	Signal Name
10	BR/W	–
11	BR/Y	–
13	W	–
14	R	–
15	B/W	–
16	Y/O	–

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
5	Y/GR	–
6	BR	–
7	V	–
8	G/W	–
9	L/G	–

Terminal No.	Color of Wire	Signal Name
11	G/W	–
12	G/BR	–
13	W/V	–
14	Y/O	–

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
8	B	–
9	W	–
10	SHIELD	–

AAKIA2653GB

AUTOMATIC BACK DOOR SYSTEM

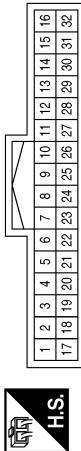
[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
19	W/V	SDL RH HL A PLS
20	G/BR	SDL RH HL B PLS
21	G/W	SDL HL GND
22	B/W	SDL LH HL PWR
23	V/W	SDL LH HL A PLS
24	Y	SDL LH HL B PLS
25	SHIELD	SDL NOISE GND
26	-	-
27	-	-
28	-	-
29	BR/Y	IR CNCL SW PIN D
30	-	-
31	-	-
32	-	-

Terminal No.	Color of Wire	Signal Name
6	BR/Y	CL OP+
7	L/G	CL HF+
8	BR/W	CL CL+
9	-	-
10	-	-
11	B/W	CL SW GND
12	-	-
13	L	DRV SW INPT
14	Y/GR	INNR SW INPT
15	-	-
16	-	-
17	P	CAN-L
18	Y/O	SDL RH HL PWR

Connector No.	B55
Connector Name	AUTOMATIC BACK DOOR CONTROL MODULE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
2	B	BZR CNTL
3	V	TS GND
4	BR	TS RH
5	G/W	TS LH

Terminal No.	Color of Wire	Signal Name
38	W	SDL LH MTR-
39	B	CL MTR+
40	W	CL MTR-
41	B	GND1
42	B/L	GND2
43	-	-
44	-	-

Connector No.	B56
Connector Name	AUTOMATIC BACK DOOR CONTROL MODULE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
33	P	PBD POWER1
34	P	PBD POWER2
35	B	SDL RH MTR+
36	W	SDL RH MTR-
37	B	SDL LH MTR+

AAKIA2654GB

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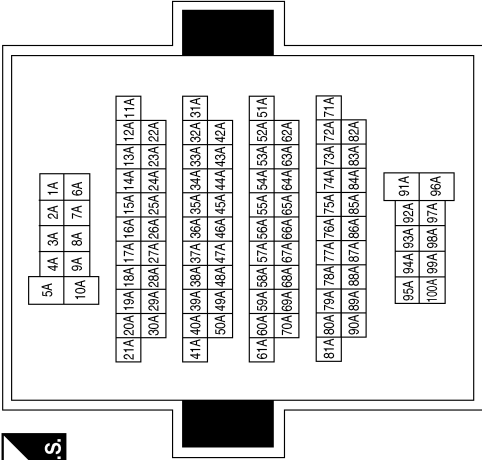
AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

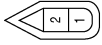
[WITH INTELLIGENT KEY SYSTEM]

Terminal No.	Color of Wire	Signal Name
3A	P	– (WITH AUTOMATIC BACK DOOR)
55A	Y/O	–
56A	R	–
57A	W	–
63A	BR/Y	–
64A	L	–

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	GRAY



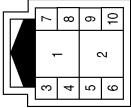
Connector No.	B93
Connector Name	BACK DOOR WARNING CHIME
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	P	–
2	B	–

Terminal No.	Color of Wire	Signal Name
1	W	–
2	B	–
3	G/W	–
4	SHIELD	–
6	B/W	–
7	V/W	–
10	Y	–

Connector No.	B70
Connector Name	SPINDLE UNIT LH
Connector Color	BLACK



AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	B162
Connector Name	SPINDLE UNIT RH
Connector Color	BLACK

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----



Terminal No.	Color of Wire	Signal Name
1	W	-
2	B	-
3	L	-
4	SHIELD	-
6	G/W	-
7	Y	-
10	BR	-

Connector No.	B140
Connector Name	WIRE TO WIRE
Connector Color	WHITE

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



Terminal No.	Color of Wire	Signal Name
8	B	-
9	W	-
10	SHIELD	-
11	L	-
12	BR	-
13	Y	-
14	G/W	-

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Color	WHITE

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



Terminal No.	Color of Wire	Signal Name
21	P	-
22	L	-
28	P	-
29	L	-

Connector No.	D502
Connector Name	WIRE TO WIRE
Connector Color	GRAY

4	3	2	1
8	7	6	5



Terminal No.	Color of Wire	Signal Name
2	R/G	- (WITH AUTOMATIC BACK DOOR)
5	B	-
6	BR/B	- (WITH AUTOMATIC BACK DOOR)

Terminal No.	Color of Wire	Signal Name
5	Y	-
6	V	-
7	G/W	-
8	G	-
9	L/W	-
10	L	-
11	R	-
13	G/W	-
14	V	-
15	B	-
16	P	-

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

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



AAKIA2458GB

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AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No.	Color of Wire	Signal Name
5	P	—
6	B	—
8	V	—
10	GW	—
15	Y	—
16	L	—
21	G	—
22	GW	—
23	V	—
24	B	—

Connector No.	D507
Connector Name	WIRE TO WIRE
Connector Color	WHITE

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



Terminal No.	Color of Wire	Signal Name
2	R	—
4	L/W	—

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

4	3	2	1
8	7	6	5



Terminal No.	Color of Wire	Signal Name
1	BR/B	— (WITH AUTOMATIC BACK DOOR)
2	R/G	— (WITH AUTOMATIC BACK DOOR)

Terminal No.	Color of Wire	Signal Name
4	L/W	—
5	P	—
6	B	—
8	V	—
10	GW	—
15	Y	—
16	L	—
21	G	—
22	GW	—
23	V	—
24	B	—

Connector No.	D552
Connector Name	WIRE TO WIRE
Connector Color	WHITE

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



Terminal No.	Color of Wire	Signal Name
2	R	—

Connector No.	D550
Connector Name	WIRE TO WIRE
Connector Color	GRAY

1	2	3	4
5	6	7	8



Terminal No.	Color of Wire	Signal Name
1	BR/B	— (WITH AUTOMATIC BACK DOOR)
2	R/G	— (WITH AUTOMATIC BACK DOOR)

AAKIA2459GB

AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	D556
Connector Name	TOUCH SENSOR LH
Connector Color	WHITE



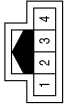
Terminal No.	Color of Wire	Signal Name
1	G	-
2	G/W	-

Connector No.	D555
Connector Name	TOUCH SENSOR RH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	V	-
2	G/W	-

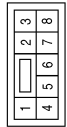
Connector No.	D559
Connector Name	BACK DOOR OPENER SWITCH
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
1	R/G	-
2	BR/B	-
3	-	-
4	R	-
5	L	-
6	L/W	-
7	P	-
8	B	-

Connector No.	D557
Connector Name	BACK DOOR LOCK ASSEMBLY (WITH AUTOMATIC BACK DOOR)
Connector Color	WHITE



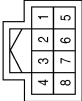
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AUTOMATIC BACK DOOR SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	D560
Connector Name	AUTOMATIC BACK DOOR CLOSE SWITCH
Connector Color	GREEN



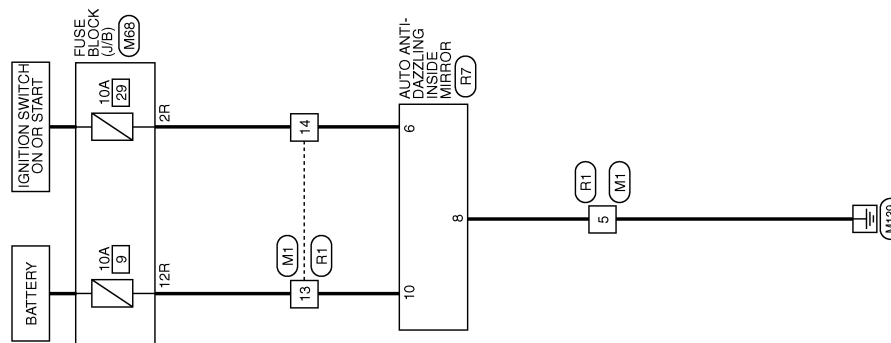
Terminal No.	Color of Wire	Signal Name
6	Y	-
8	B	-

AAKIA2461GB

[WITH INTELLIGENT KEY SYSTEM]

Wiring Diagram

INFOID:0000000011218612



HOMELINK UNIVERSAL TRANSCIEVER

DLK

HOMELINK UNIVERSAL TRANSCEIVER

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

HOMELINK UNIVERSAL TRANSCEIVER CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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



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

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Color	BROWN

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
5	B	-
13	V	-
14	LG	-

Terminal No.	Color of Wire	Signal Name
2R	LG	-
12R	V	-

Terminal No.	Color of Wire	Signal Name
5	B	-
13	L	-
14	BR	-

Connector No.	R7
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Color	BLACK



5	4	3	2	1
10	9	8	7	6

Terminal No.	Color of Wire	Signal Name
6	BR	-
8	B	-
10	L	-

AAKIA2434GB

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

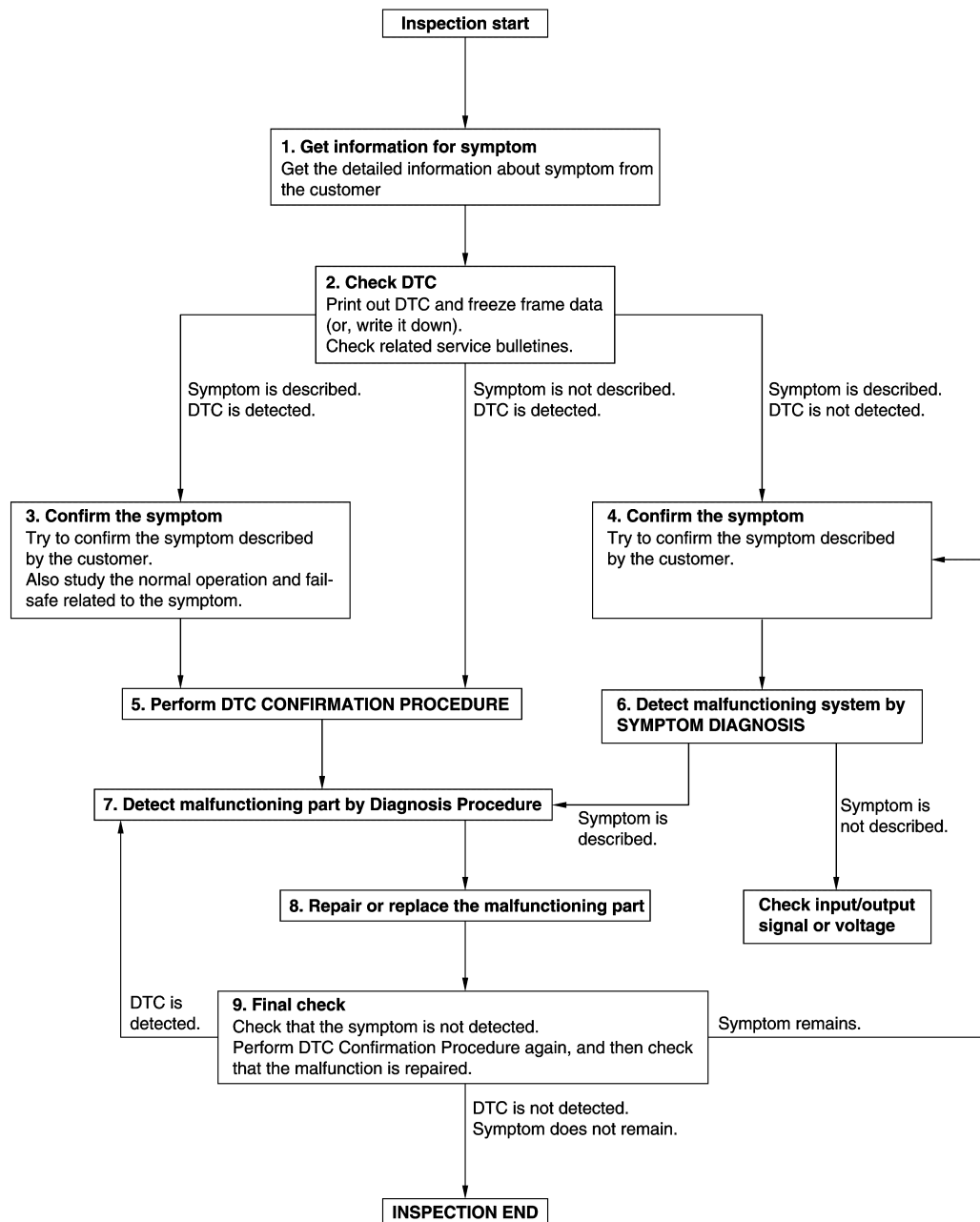
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000011218613

OVERALL SEQUENCE



DETAILED FLOW

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

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

Are any symptoms described and 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-42. "Intermittent Incident"](#).

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

Is the symptom described?

YES >> GO TO 7.

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

7.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-42. "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

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

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

Is DTC detected and does symptom remain?

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

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

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

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DLK

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

Description

INFOID:0000000011218614

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

NOTE:

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

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

Work Procedure

INFOID:0000000011218615

1. INITIALIZATION

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

NOTE:

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

>> Inspection End.

ADDITIONAL SERVICE WHEN REPLACING BCM

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

ADDITIONAL SERVICE WHEN REPLACING BCM

Description

INFOID:0000000011218616

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

Work Procedure

INFOID:0000000011218617

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

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ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL UNIT

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL UNIT

Description

INFOID:0000000011218618

BEFORE REPLACEMENT

When replacing automatic back door control module, save or print current vehicle specification with CONSULT configuration before replacement.

NOTE:

If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing automatic back door control module.

AFTER REPLACEMENT

CAUTION:

When replacing automatic back door control module, always perform "WRITE CONFIGURATION" with CONSULT. If not performed, automatic back door system will not operate normally.

- Complete the procedure of "WRITE CONFIGURATION" in order.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- If you set incorrect "WRITE CONFIGURATION", incidents might occur.

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

NOTE:

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

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

Work Procedure

INFOID:0000000011218619

1. SAVING VEHICLE SPECIFICATION (AUTOMATIC BACK DOOR CONTROL MODULE)

ⓅCONSULT Configuration

Perform "READ CONFIGURATION" to save or print current vehicle specification. Refer to [DLK-117, "Description"](#).

NOTE:

If "READ CONFIGURATION" can not be used, use the "WRITE CONFIGURATION - Manual selection" after replacing automatic back door control module.

>> GO TO 2.

2. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

>> GO TO 3.

3. WRITING VEHICLE SPECIFICATION (AUTOMATIC BACK DOOR CONTROL MODULE)

ⓅCONSULT Configuration

Perform "WRITE CONFIGURATION - Config file" or "WRITE CONFIGURATION - Manual selection" to write vehicle specification. Refer to [DLK-117, "Work Procedure"](#).

>> GO TO 4.

4. PERFORM INITIAL SETTING

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

NOTE:

ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CON-
TROL UNIT

< BASIC INSPECTION > [WITH INTELLIGENT KEY SYSTEM]

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

>> Work End.

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DLK

CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

Description

INFOID:0000000011218620

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

- After removing and installing or replacing back door assembly
- After removing and installing or replacing spindle unit
- After adjustment or position change of the back door hinges or striker

Work Procedure

INFOID:0000000011218621

1.STEP 1

Fully close the back door manually.

>> GO TO 2.

2.STEP 2

CONSULT

1. Select "AUTO BACK DOOR".
2. Select "RESET AUTO BACK DOOR STATUS" of "Work support" mode.
3. Touch "START" to erase automatic back door position information.

>> GO TO 3.

3.STEP 3

Operate back door opener switch and perform automatic open operation.

NOTE:

At this time, automatic operation of back door is performed at half speed.

>> GO TO 4.

4.STEP 4

1. The back door fully opens.
2. Check that hazard warning lamps blink and automatic back door warning buzzer sounds normally.

Do hazard warning lamps blink and automatic back door warning buzzer sound normally?

YES >> GO TO 5.

NO >> GO TO 1.

5.STEP 5

Fully close the back door.

>> Inspection End.

CONFIGURATION

Description

INFOID:0000000011875484

Vehicle specification needs to be written with CONSULT because it is not written after replacing automatic back door control module.
Configuration has three functions as follows.

Function		Description
Read / Write Configuration	Before Replace ECU	- Reads the vehicle configuration of current automatic back door control module. - Saves the read vehicle configuration.
	After Replace ECU	Writes the vehicle configuration with saved data.
Manual Configuration		Writes the vehicle configuration with manual selection.

NOTE:

Manual setting item: Items which need selection by vehicle specifications

Automatic setting item: Items which are written in automatically (Setting cannot be changed)

For some models and specifications, the automatic setting item may not be displayed.

CAUTION:

When replacing automatic back door control module, always perform “Re/programming, Configuration” with CONSULT. If not performed, automatic back door control module control function will not operate normally.

- Complete the procedure of “Read / Write Configuration” in order.
- Configuration is different for each vehicle model. Confirm configuration of each vehicle model.
- Never perform “Read / Write Configuration” except for new automatic back door control module.
- If you set incorrect “Read / Write Configuration”, the automatic back door system may not operate properly.

Work Procedure

INFOID:0000000011875485

1. WRITING MODE SELECTION

 CONSULT Configuration

Select “Re/programming, Configuration” of AUTO BACK DOOR.

When writing saved data>>GO TO 2.

When writing manually>>GO TO 3.

2. PERFORM “AFTER REPLACE ECU” OF “READ / WRITE CONFIGURATION”

 CONSULT Configuration

Perform “After Replace ECU” of “Read / Write Configuration”.

>> WORK END

3. PERFORM “MANUAL CONFIGURATION”

 CONSULT Configuration

- Select “Manual Configuration”.
- Identify the correct model and configuration list. Refer to [DLK-118, "Configuration list"](#).
- Confirm and/or change setting value for each item.

CAUTION:

Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.

NOTE:

If items are not displayed, touch “Next”. Refer to [DLK-118, "Configuration list"](#) for written items and setting value.

4. Touch “Next”.

5. Touch “OK”.

CAUTION:

CONFIGURATION

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

Make sure to select “OK” even if the indicated configuration of brand new automatic back door control module is the same as the desired configuration. If “OK” is not selected, configuration will not be complete.

6. Check that the configuration has been successfully written and touch “End”.

>> GO TO 4.

4. OPERATION CHECK

Confirm that the automatic back door operates normally.

>> WORK END

Configuration list

INFOID:0000000011875486

CAUTION:

- Thoroughly read and understand the vehicle specification. ECU control may not operate normally if the setting is not correct.
- The “setting value” of this vehicle is as follows: Never select any other value than the setting value shown below. (If there is only 1 item in “setting value” that means that item is the only choice for this certain vehicle.)

SETTING ITEM		NOTE
Items	Setting value	
Destination	NAM	NAM: North America

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

DTC Description

INFOID:0000000011545444

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 vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only. CAN Communication Signal Chart. Refer to [LAN-37. "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart"](#).

DTC DETECTION LOGIC

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

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

—

Diagnosis Procedure

INFOID:0000000011545445

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.

Is DTC "U1000" displayed?

- YES >> Refer to [LAN-21. "Trouble Diagnosis Flow Chart"](#).
- NO-1 >> To check malfunction symptom before repair: Refer to [GI-42. "Intermittent Incident"](#).
- NO-2 >> Confirmation after repair: Inspection End.

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U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

U1010 CONTROL UNIT (CAN)

DTC Description

INFOID:0000000011545446

DTC DETECTION LOGIC

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

POSSIBLE CAUSE

- BCM

FAIL-SAFE

—

Diagnosis Procedure

INFOID:0000000011545447

1. REPLACE BCM

When DTC U1010 is detected, replace BCM.

>> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

B2401 IGNITION POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2401 IGNITION POWER SUPPLY CIRCUIT

DTC Description

INFOID:0000000011218628

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
		Diagnosis condition	When ignition switch is ON.
B2401	IGN OPEN	Signal (terminal)	—
		Threshold	Automatic back door control module cannot detect ignition switch ON signal via CAN communication with BCM
		Diagnosis delay time	—

POSSIBLE CAUSE

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

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

Ⓔ CONSULT

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

Is DTC detected?

- YES >> Refer to [DLK-121, "Diagnosis Procedure"](#).
- NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000011218629

1.CHECK BCM OUTPUT SIGNAL

Ⓔ CONSULT

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

Monitor Item	Condition		Status
PUSH SW	Ignition switch	Pressed	Close
		Not pressed	Open

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).
- NO >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2409 HALF LATCH SWITCH

DTC Description

INFOID:0000000011218630

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2409	HALF LATCH SW	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	Automatic back door control module terminal 7
		Threshold	Automatic back door control module detects a malfunction of half latch switch during automatic operation of back door
		Diagnosis delay time	—

POSSIBLE CAUSE

- Entry of foreign materials in back door lock assembly
- Back door mechanism
- Automatic back door control module
- Half latch switch
- Harness or connectors

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

Ⓔ CONSULT

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

Is DTC detected?

- YES >> Refer to [DLK-122, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000011218631

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

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

Is the inspection result normal?

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

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

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

3.CHECK HALF LATCH SWITCH MONITOR ITEM

Ⓔ CONSULT

1. Select “AUTO BACK DOOR”.
2. Select “HALF LATCH SW” in “Data Monitor” mode.

B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 4.

4.CHECK HALF LATCH SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal		
D557	6	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK HALF LATCH SWITCH CIRCUIT

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

Automatic back door control module		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B55	7	D557	6	Yes

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

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

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311. "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK HALF LATCH SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D557	8		Yes

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness or connector.

7.CHECK HALF LATCH SWITCH

Refer to [DLK-124. "Component Inspection"](#).

Is the inspection result normal?

B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> GO TO 8.

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218632

COMPONENT INSPECTION

1.CHECK SWITCH

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

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2416 TOUCH SENSOR RH

DTC Description

INFOID:0000000011218633

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2416	TOUCH SEN R OPEN	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	Automatic back door control module terminals 3 and 4
		Threshold	Automatic back door control module detects a malfunction of touch sensor RH during automatic operation of back door
		Diagnosis delay time	—

POSSIBLE CAUSE

- Improper installation of touch sensor
- Touch sensor RH
- Harness or connectors
- Automatic back door control module

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

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

Is DTC detected?

- YES >> Refer to [DLK-125, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000011218634

DLK

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK INSTALLATION OF TOUCH SENSOR RH

Check that touch sensor RH is installed normally.

Refer to [DLK-299, "BACK DOOR TOUCH SENSOR : Removal and Installation"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Refer to [DLK-299, "BACK DOOR TOUCH SENSOR : Removal and Installation"](#).

2.CHECK TOUCH SENSOR MONITOR ITEM

CONSULT

1. Select "AUTO BACK DOOR".
2. Select "TOUCH SEN RH" in "Data Monitor" mode.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> GO TO 8.
NO >> GO TO 3.

3. CHECK TOUCH SENSOR INPUT SIGNAL

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

(+)		(-)		Condition		Voltage (Approx.)
Touch sensor RH		Automatic back door control module				
Connector	Terminal	Connector	Terminal			
D555	2	B55	3	Touch sensor RH	Detect obstruction	1.8 – 5 V
					Other than above	2.72 – 7.27 V

Is the inspection result normal?

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

4. CHECK TOUCH SENSOR RH CIRCUIT

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

Automatic back door control module		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B55	4	D555	1	Yes

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	4		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).
NO >> Repair or replace harness.

5. CHECK TOUCH SENSOR RH GROUND CIRCUIT

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

Automatic back door control module		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B55	3	D555	2	Yes

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

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

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace harness.

B2416 TOUCH SENSOR RH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

6.CHECK TOUCH SENSOR RH GROUND CIRCUIT 2

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

(+)		(-)	Voltage (Approx.)
Automatic back door control module			
Connector	Terminal		
B55	3	Ground	0.01 – 0 V

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

7.CHECK TOUCH SENSOR RH

Refer to [DLK-127, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace touch sensor RH. Refer to [DLK-299, "BACK DOOR TOUCH SENSOR : Removal and Installation"](#).

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218635

1.CHECK TOUCH SENSOR RH

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

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace touch sensor RH. Refer to [DLK-299, "BACK DOOR TOUCH SENSOR : Removal and Installation"](#).

B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2417 TOUCH SENSOR LH

DTC Description

INFOID:0000000011218636

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2417	TOUCH SEN L OPEN	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	Automatic back door control module terminals 5 and 3
		Threshold	Automatic back door control module detects a malfunction of touch sensor LH during automatic operation of back door
		Diagnosis delay time	—

POSSIBLE CAUSE

- Improper installation of touch sensor
- Touch sensor LH
- Harness or connectors
- Automatic back door control module

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

Ⓐ CONSULT

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” mode of “AUTO BACK DOOR”.

Is DTC detected?

- YES >> Refer to [DLK-128, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000011218637

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK INSTALLATION OF TOUCH SENSOR LH

Check that touch sensor LH is installed normally.

Refer to [DLK-299, "BACK DOOR TOUCH SENSOR : Removal and Installation"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Refer to [DLK-299, "BACK DOOR TOUCH SENSOR : Removal and Installation"](#).

2.CHECK TOUCH SENSOR MONITOR ITEM

Ⓐ CONSULT

1. Select “AUTO BACK DOOR”.
2. Select “TOUCH SEN LH” in “Data Monitor” mode.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

B2417 TOUCH SENSOR LH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

- YES >> GO TO 8.
NO >> GO TO 3.

3.CHECK TOUCH SENSOR INPUT SIGNAL

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

(+)		(-)		Condition		Voltage (Approx.)
Touch sensor LH		Automatic back door control module				
Connector	Terminal	Connector	Terminal			
D556	2	B55	3	Touch sensor LH	Detect obstruction	1.8 – 5 V
					Other than above	2.72 – 7.27 V

Is the inspection result normal?

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

4.CHECK TOUCH SENSOR LH CIRCUIT

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

Automatic back door control module		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B55	5	D556	1	Yes

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	5		No

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).
NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR LH GROUND CIRCUIT

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

Automatic back door control module		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B55	3	D556	2	Yes

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

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

Is the inspection result normal?

- YES >> GO TO 6.
NO >> Repair or replace harness.

B2417 TOUCH SENSOR LH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

6.CHECK TOUCH SENSOR LH GROUND CIRCUIT 2

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

(+) Automatic back door control module		(-)	Voltage (Approx.)
Connector	Terminal		
B55	3	Ground	0.01 – 0 V

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

7.CHECK TOUCH SENSOR LH

Refer to [DLK-127, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace touch sensor LH. Refer to [DLK-299, "BACK DOOR TOUCH SENSOR : Removal and Installation"](#).

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218638

1.CHECK TOUCH SENSOR LH

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

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace touch sensor LH. Refer to [DLK-299, "BACK DOOR TOUCH SENSOR : Removal and Installation"](#).

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2419 OPEN SWITCH

DTC Description

INFOID:0000000011218639

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
		Diagnosis condition	When ignition switch is ON.
B2419	OPEN SW	Signal (terminal)	Automatic back door control module terminal 4
		Threshold	Automatic back door control module detects a malfunction of open switch during automatic operation of back door
		Diagnosis delay time	—

POSSIBLE CAUSE

- Entry of foreign materials in back door lock assembly
- Back door mechanism
- Automatic back door control module
- Open switch
- Harness or connectors

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

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

Is DTC detected?

- YES >> Refer to [DLK-131, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000011218640

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

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

Is the inspection result normal?

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

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

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

3.CHECK OPEN SWITCH SIGNAL

CONSULT

1. Select "AUTO BACK DOOR".
2. Select "OPEN SW" in "Data Monitor" mode.

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B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3. Check that the function operates normally according to the following conditions:

Monitor Item	Condition		Status
OPEN SW	Back door	Fully closed/Half latch	OFF
		Open	ON

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 4.

4.CHECK OPEN SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal		
D557	4	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK OPEN SWITCH CIRCUIT

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

Automatic back door control module		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B55	6	D557	4	Yes

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

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

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK OPEN SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D557	8		Yes

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK OPEN SWITCH

Refer to [DLK-124, "Component Inspection"](#).

Is the inspection result normal?

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> GO TO 8.

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218641

COMPONENT INSPECTION

1.CHECK SWITCH

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

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

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B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2420 CLOSE SWITCH

DTC Description

INFOID:0000000011218642

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2420	CLOSE SW	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	Automatic back door control module terminal 5
		Threshold	Automatic back door control module detects a malfunction of close switch during automatic operation of back door
		Diagnosis delay time	—

POSSIBLE CAUSE

- Entry of foreign materials in back door lock assembly
- Back door mechanism
- Automatic back door control module
- Close switch
- Harness or connectors

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

Ⓐ CONSULT

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

Is DTC detected?

- YES >> Refer to [DLK-134, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000011218643

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

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

Is the inspection result normal?

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

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

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

3.CHECK CLOSE SWITCH SIGNAL

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

B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 4.

4.CHECK CLOSE SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal		
D557	5	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK CLOSE SWITCH CIRCUIT

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

Automatic back door control module		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B55	8	D557	5	Yes

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	8		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK CLOSE SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D557	8		Yes

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK CLOSE SWITCH

Refer to [DLK-124, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 8.

B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218644

COMPONENT INSPECTION

1.CHECK SWITCH

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

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2422 BACK DOOR STATE

DTC Description

INFOID:0000000011218645

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
		Diagnosis condition	When ignition switch is ON.
B2422	BACK DOOR STATE	Signal (terminal)	—
		Threshold	When the automatic back door control module detects back door position malfunction according to the pulse signal
		Diagnosis delay time	—

POSSIBLE CAUSE

- Improper installation of back door assembly
- [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete
- Back door mechanism
- Encoder
- Automatic back door control module
- Harness or connectors

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

Ⓐ CONSULT

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

Is DTC detected?

- YES >> Refer to [DLK-137, "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000011218646

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

Ⓐ CONSULT

1. Perform initialization setting of automatic back door position information.
Refer to [DLK-114, "Work Procedure"](#).
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
NO >> Inspection End.

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

1. Check that back door assembly is installed normally.
Refer to [DLK-284, "BACK DOOR ASSEMBLY : Adjustment"](#).
2. Check back door assembly for mechanism deformation, looseness, rattle, interference with other parts and pinched foreign materials.

Is the inspection result normal?

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B2422 BACK DOOR STATE

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

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

3.CHECK ENCODER SIGNAL

CONSULT

1. Select "AUTO BACK DOOR".
2. Select "SPINDLE SENSOR LH" and "SPINDLE SENSOR RH" in "Data Monitor" mode.
3. Check that the function operates normally according to the following conditions:

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

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

- YES >> GO TO 4.
NO >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

4.CHECK ENCODER POWER SUPPLY

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

(+)		(-)	Voltage (Approx.)
Spindle unit			
Connector	Terminal		
LH	B70	Ground	Battery voltage
RH	B162		

Is the inspection result normal?

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

5.CHECK ENCODER CIRCUIT

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

Automatic back door control module		Spindle unit		Continuity
Connector	Terminal	Connector	Terminal	
B55	22	LH	B70	Yes
	18	RH	B162	

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	22		No
	18		

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).
NO >> Repair or replace harness.

6.CHECK ENCODER CIRCUIT 2

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

B2422 BACK DOOR STATE

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door control module		Spindle unit		Continuity
Connector	Terminal	Connector	Terminal	
B55	23	LH	B70	7
	24			10
	19	RH	B162	7
	20			10

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

Automatic back door control module			Continuity
Connector	Terminal		
B55	23	Ground	No
	24		
	19		
	20		

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK ENCODER CIRCUIT 3

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

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

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

DTC Description

INFOID:0000000011218647

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2423	ABD MTR TIME OUT	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	Automatic back door control module terminals 38,37,36,35
		Threshold	When the automatic back door control module and spindle motor operate in the same direction for 180 seconds or more continuously
		Diagnosis delay time	—

POSSIBLE CAUSE

- Spindle motor
- Automatic back door control module
- Harness or connectors

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

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

Is DTC detected?

- YES >> Refer to [DLK-140, "Diagnosis Procedure"](#).
- NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000011218648

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.ERASE DTC

CONSULT

1. Wait at least 180 seconds after automatic back door operation is inhibited.
2. Erase DTC, and then repeat “PERFORM DTC CONFIRMATION PROCEDURE”.

Is DTC detected?

- YES >> GO TO 2.
- NO >> Inspection End.

2.CHECK SPINDLE MOTOR CIRCUIT

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

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door control module		Spindle unit		Continuity
Connector	Terminal	Connector	Terminal	
B56	38	LH	B70	1
	37			2
	36	RH	B162	1
	35			2

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

Automatic back door control module			Continuity
Connector	Terminal		
B56	38	Ground	No
	37		
	36		
	35		

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).
NO >> Repair or replace harness.

B2426 ENCODER

DTC Description

INFOID:0000000011218649

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2426	SPINDLE SENSOR LH	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	—
		Threshold	When the automatic back door control module cannot receive the pulse signal from the encoder just after starting the open/close operation
		Diagnosis delay time	—

POSSIBLE CAUSE

- Improper installation of back door assembly
- [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete
- Back door mechanism
- Automatic back door control module
- Encoder
- Harness or connectors

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

④ CONSULT

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

Is DTC detected?

- YES >> Refer to [DLK-142, "Diagnosis Procedure"](#).
- NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000011218650

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

④ CONSULT

1. Perform initialization setting of automatic back door position information.
Refer to [DLK-114, "Work Procedure"](#).
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
- NO >> Inspection End.

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

1. Check that back door assembly is installed normally.
Refer to [DLK-284, "BACK DOOR ASSEMBLY : Adjustment"](#).
2. Check back door assembly mechanism for deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

B2426 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

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

3.CHECK ENCODER SIGNAL

CONSULT

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

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

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

4.CHECK ENCODER POWER SUPPLY

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

(+) Spindle unit LH		(-)	Voltage (Approx.)
Connector	Terminal		
B70	6	Ground	Battery voltage

Is the inspection result normal?

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

5.CHECK ENCODER CIRCUIT

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

Automatic back door control module		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B55	22	B70	6	Yes

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

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

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).
NO >> Repair or replace harness.

6.CHECK ENCODER CIRCUIT 2

1. Disconnect automatic back door control module connector.

B2426 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Automatic back door control module		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B55	24	B70	10	Yes
	23		7	

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	24		No
	23		

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7. CHECK ENCODER CIRCUIT 3

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

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

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

8. CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

B2427 ENCODER

DTC Description

INFOID:0000000011218651

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2427	SPINDLE SENSOR RH	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	—
		Threshold	When the automatic back door control module cannot receive the pulse signal from the encoder just after starting the open/close operation
		Diagnosis delay time	—

POSSIBLE CAUSE

- Improper installation of back door assembly
- [CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION]: not complete
- Back door mechanism
- Automatic back door control module
- Encoder
- Harness or connectors

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

 CONSULT

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

Is DTC detected?

- YES >> Refer to [DLK-145. "Diagnosis Procedure"](#).
- NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000011218652

Regarding Wiring Diagram information, refer to [DLK-94. "Wiring Diagram"](#).

1.CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

 CONSULT

1. Perform initialization setting of automatic back door position information.
Refer to [DLK-114. "Work Procedure"](#).
2. Erase DTC, and then repeat "PERFORM DTC CONFIRMATION PROCEDURE".

Is DTC detected?

- YES >> GO TO 2.
- NO >> Inspection End.

2.CHECK INSTALLATION OF BACK DOOR ASSEMBLY

1. Check that back door assembly is installed normally.
Refer to [DLK-284. "BACK DOOR ASSEMBLY : Adjustment"](#).
2. Check back door assembly mechanism for deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

B2427 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK ENCODER SIGNAL

 CONSULT

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

4.CHECK ENCODER POWER SUPPLY

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

(+)		(-)	Voltage (Approx.)
Spindle unit RH			
Connector	Terminal		
B162	6	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK ENCODER CIRCUIT

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

Automatic back door control module		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B55	18	B162	6	Yes

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	18		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

NO >> Repair or replace harness.

6.CHECK ENCODER CIRCUIT 2

1. Disconnect automatic back door control module connector.

B2427 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Automatic back door control module		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B55	19	B162	7	Yes
	20		10	

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	19		No
	20		

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness.

7.CHECK ENCODER CIRCUIT 3

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

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

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning parts.

B2428 AUTOMATIC BACK DOOR CONTROL UNIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2428 AUTOMATIC BACK DOOR CONTROL UNIT

DTC Description

INFOID:0000000011218653

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
		Diagnosis condition	When ignition switch is ON.
B2428	AUTO BACK DR CNT UNIT	Signal (terminal)	—
		Threshold	Automatic back door control module detected CPU malfunction
		Diagnosis delay time	—

POSSIBLE CAUSE

- Automatic back door control module

FAIL-SAFE

—

Diagnosis Procedure

INFOID:0000000011218654

1. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

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

>> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B242A CLOSURE CONDITION

DTC Description

INFOID:0000000011218655

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
		Diagnosis condition	When ignition switch is ON.
B242A	CLSR CONDITION	Signal (terminal)	Automatic back door control module terminals 6,7,8
		Threshold	Automatic back door control module detects malfunctions of open switch, close switch and half latch switch when auto closure of back door operates
		Diagnosis delay time	—

POSSIBLE CAUSE

- Entry of foreign materials in back door lock assembly
- Back door mechanism
- Automatic back door control module
- Open switch
- Close switch
- Half latch switch
- Harness or connectors

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

CONSULT

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

Is DTC detected?

- YES >> Refer to [DLK-149. "Diagnosis Procedure"](#).
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000011218656

Regarding Wiring Diagram information, refer to [DLK-94. "Wiring Diagram"](#).

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

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

Is the inspection result normal?

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

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

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

3.CHECK MONITOR ITEM

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

CONSULT

1. Select "AUTO BACK DOOR".
2. Select "HALF LATCH SW", "OPEN SW" and "CLOSE SW" in "Data Monitor" mode.
3. Check that the functions operate normally according to the following conditions:

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

Is the inspection result normal?

YES >> GO TO 8.

NO >> GO TO 4.

4.CHECK SWITCH INPUT SIGNAL

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

(+) Back door lock assembly		(-)	Voltage (Approx.)
Connector	Terminal		
D557	4	Ground	Battery voltage
	5		
	6		

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

5.CHECK SWITCH CIRCUIT

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

Automatic back door control module		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B55	7	D557	6	Yes
	8		5	
	6		4	

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	7		No
	8		
	6		

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

B242A CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> Repair or replace harness.

6.CHECK SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D557	8		Yes

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness or connector.

7.CHECK SWITCH

Refer to [DLK-151, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

8.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218657

COMPONENT INSPECTION

1.CHECK SWITCH

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

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

B261B REMOTE ENGINE START

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B261B REMOTE ENGINE START

DTC Description

INFOID:0000000011541464

DTC DETECTION LOGIC

NOTE:

- If DTC B261B is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to [BCS-69, "DTC Description"](#).
- If DTC B261B is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to [BCS-70, "DTC Description"](#).

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
		Diagnosis condition	When ignition switch is ON.
B261B	BCM	Signal (terminal)	—
		Threshold	The BCM has requested ignition OFF but ECM keeps the engine running for more than 10 seconds after the OFF request was made
		Diagnosis delay time	—

POSSIBLE CAUSE

- ECM

FAIL-SAFE

—

Diagnosis Procedure

INFOID:0000000011541465

1. CHECK ECM IGNITION, POWER AND GROUND CIRCUITS

Check ECM ignition power and ground circuits. Refer to [EC-188, "Diagnosis Procedure"](#).

Is the inspection result normal?

- YES >> Replace ECM. Refer to [EC-579, "Removal and Installation"](#). GO TO 2.
NO >> Repair or replace harness or connectors.

2. INSPECTION

CONSULT

1. Turn ignition switch ON.
2. Select "Self Diagnostic Result" mode.
3. Touch "ERASE".
4. Perform vehicle remote start operation.

Does DTC B261B return?

- YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
NO >> Inspection End.

B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2621 INSIDE ANTENNA

DTC Description

INFOID:0000000011218658

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

—

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-153, "Diagnosis Procedure"](#).
- NO >> Inside key antenna (instrument center) is OK.

Diagnosis Procedure

INFOID:0000000011218659

Regarding Wiring Diagram information, refer to [DLK-76, "Wiring Diagram"](#).

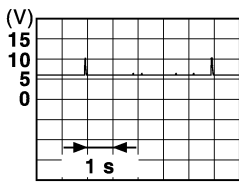
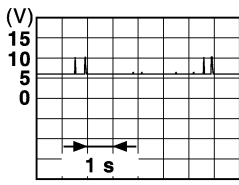
1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
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 BCM. Refer to [BCS-82, "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	M14	1	Yes
	124		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M80	123		No
	124		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

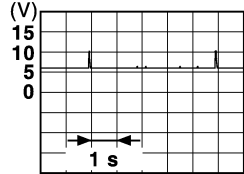
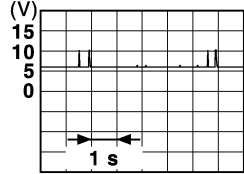
3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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 >

[WITH INTELLIGENT KEY SYSTEM]

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
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-82. "Removal and Installation"](#).

DLK

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2622 INSIDE ANTENNA

DTC Description

INFOID:0000000011218660

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

—

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-156, "Diagnosis Procedure"](#).
- NO >> Inside key antenna (console) is OK.

Diagnosis Procedure

INFOID:0000000011218661

Regarding Wiring Diagram information, refer to [DLK-76, "Wiring Diagram"](#).

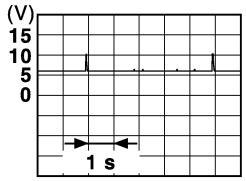
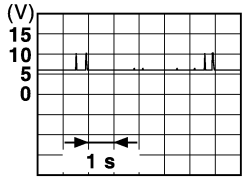
1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
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-82, "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	B83	1	Yes
	128		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M80	116		No
	128		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

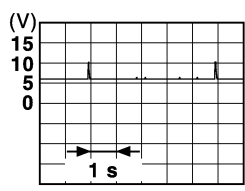
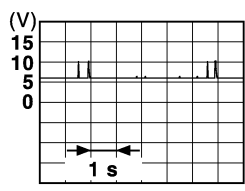
3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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 >

[WITH INTELLIGENT KEY SYSTEM]

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M80	116, 128	Ground	When Intelligent Key is in the antenna detection area.	 JMKIA3639GB
			When Intelligent Key is not in the antenna detection area.	 JMKIA5951GB

Is the inspection result normal?

- YES >> Replace inside key antenna (console). Refer to [DLK-305, "CONSOLE : Removal and Installation"](#).
 NO >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2623 INSIDE ANTENNA

DTC Description

INFOID:0000000011541462

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
B2623	INSIDE ANTENNA	Diagnosis condition	When ignition switch is ON.
		Signal (terminal)	BCM terminals 99,100
		Threshold	An excessive high or low voltage from inside antenna (luggage room) is sent to BCM
		Diagnosis delay time	—

POSSIBLE CAUSE

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

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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-159. "Diagnosis Procedure"](#).
NO >> Inside key antenna (luggage room) is OK.

Diagnosis Procedure

INFOID:0000000011541463

DLK

Regarding Wiring Diagram information, refer to [DLK-76. "Wiring Diagram"](#).

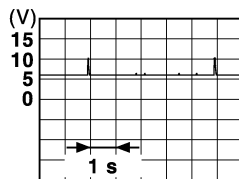
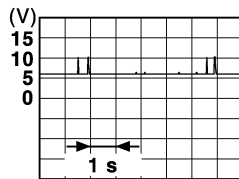
1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M20	100, 99	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-82, "Removal and Installation"](#).

NO >> GO TO 2.

2.CHECK INSIDE KEY ANTENNA CIRCUIT

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

BCM		Inside key antenna (luggage room)		Continuity
Connector	Terminal	Connector	Terminal	
M20	100	B76	1	Yes
	99		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	100		No
	99		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

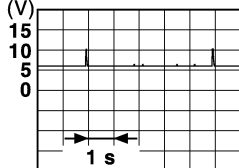
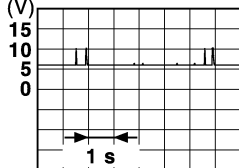
3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M20	100, 99	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 (luggage room).
- NO >> Replace BCM. Refer to [BCS-82. "Removal and Installation"](#).

DLK

B26FD SHIFT LOCK SOLENOID

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B26FD SHIFT LOCK SOLENOID

DTC Description

INFOID:0000000011541466

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 terminals 143,134
		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

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

Is DTC detected?

- YES >> Refer to [DLK-162, "Diagnosis Procedure"](#).
- NO >> Shift lock solenoid is OK.

Diagnosis Procedure

INFOID:0000000011541467

Regarding Wiring Diagram information, refer to [DLK-76, "Wiring Diagram"](#).

1. CHECK POWER SOURCE (STOP LAMP SWITCH)

1. Turn ignition switch OFF.
2. Disconnect stop lamp switch connector.
3. Check voltage between stop lamp switch connector and ground.

Stop lamp switch		Ground	Voltage (Approx.)
Connector	Terminal		
E38	1		Battery voltage

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Check the following:
- Harness for short or open between fuse block (J/B) and stop lamp switch
 - 10A fuse (No. 10, located in fuse block [J/B])

2.CHECK STOP LAMP SWITCH

Check stop lamp switch.

Is the inspection result normal?

- YES >> GO TO 3.

B26FD SHIFT LOCK SOLENOID

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> Replace stop lamp switch. Refer to [BR-20. "Exploded View"](#).

3.CHECK GROUND CIRCUIT (BCM)

1. Disconnect BCM.
2. Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M81	134		Yes
	143		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace damaged parts.

4.CHECK HARNESS BETWEEN BCM AND STOP LAMP SWITCH FOR OPEN

1. Disconnect BCM.
2. Check continuity between BCM and stop lamp switch.

BCM		Stop lamp switch		Continuity
Connector	Terminal	Connector	Terminal	
M18	27	E38	2	Yes

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace damaged parts.

5.CHECK HARNESS BETWEEN BCM AND STOP LAMP SWITCH FOR SHORT CIRCUIT

Check continuity between BCM and ground.

BCM		Ground	Continuity
Connector	Terminal		
M18	27		No

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace damaged parts.

6.CHECK HARNESS BETWEEN BCM AND CVT SHIFT SELECTOR FOR OPEN

1. Disconnect CVT shift selector and BCM.
2. Check continuity between BCM and CVT shift selector.

BCM		CVT shift selector		Continuity
Connector	Terminal	Connector	Terminal	
M80	108	M78	3	Yes

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace damaged parts.

7.CHECK HARNESS BETWEEN BCM AND CVT SHIFT SELECTOR FOR SHORT CIRCUIT

Check continuity between BCM and ground.

BCM		Ground	Continuity
Connector	Terminal		
M80	108		No

A

B

C

D

E

F

G

H

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P

B26FD SHIFT LOCK SOLENOID

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace damaged parts.

8.CHECK GROUND CIRCUIT (CVT SHIFT SELECTOR)

Check continuity between CVT shift selector and ground.

CVT shift selector		Ground	Continuity
Connector	Terminal		
M78	4		Yes

Is the inspection result normal?

YES >> Replace shift lock solenoid. Refer to [TM-193, "Exploded View"](#).

NO >> Repair or replace damaged parts.

B26FE HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B26FE HOOD SWITCH

DTC Description

INFOID:0000000011541468

DTC DETECTION LOGIC

NOTE:

- If DTC B26FE is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to [BCS-69, "DTC Description"](#).
- If DTC B26FE is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to [BCS-70, "DTC Description"](#).

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
		Diagnosis condition	When ignition switch is ON.
B26FE	HOOD SWITCH	Signal (terminal)	IPDM E/R terminals 94,96
		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-165, "Diagnosis Procedure"](#).
- NO >> Hood switch is OK.

Diagnosis Procedure

INFOID:0000000011541469

Regarding Wiring Diagram information, refer to [DLK-76, "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		
E205	1	Ground	Battery voltage
	2		

Is the inspection result normal?

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

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B26FE HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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	
E218	94	E205	1	Yes
	96		2	

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E218	94		No
	96		

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to [PCS-37, "Removal and Installation"](#).

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		
E205	3		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK HOOD SWITCH

Refer to [DLK-166, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace hood switch. Refer to [DLK-287, "HOOD LOCK : Removal and Installation"](#).

5.CHECK BCM CONFIGURATION

Refer to [BCS-66, "CONFIGURATION \(BCM\) : Configuration List"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011541470

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				
1	3	Hood switch	Press	Yes
			Release	No
2			Press	No
			Release	Yes

B26FE HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

- YES >> Inspection End.
- NO >> Replace hood switch. Refer to [DLK-287, "HOOD LOCK : Removal and Installation"](#).

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B26FF REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B26FF REMOTE KEYLESS ENTRY RECEIVER

DTC Description

INFOID:0000000011541471

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC Detection Condition	
		Diagnosis condition	When ignition switch is ON.
B26FF	INTELLIGENT TUNER COM- MUNICATION FAIL	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

—

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-168, "Diagnosis Procedure"](#).
- NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000011541472

Regarding Wiring Diagram information, refer to [DLK-76, "Wiring Diagram"](#).

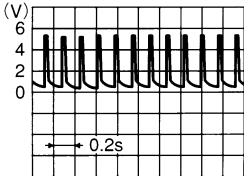
1.CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

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

B26FF REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
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-82, "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			
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 10A fuse No. 25 [located in fuse block J/B].

NO-2 >> Repair or replace harness between remote keyless entry receiver and 10A fuse No. 25.

4.CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

B26FF REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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-309, "Removal and Installation"](#).

NO >> Repair or replace harness.

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

AUTOMATIC BACK DOOR CONTROL UNIT

AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:0000000011218662

Regarding Wiring Diagram information, refer to [DLK-76, "Wiring Diagram"](#).

1. CHECK FUSIBLE LINK

Check that the following fusible link is not open:

Fusible link No.	Signal name
M (40A)	Battery power supply

Is the fusible link open?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

(+)		(-)	Voltage (Approx.)
Automatic back door control module			
Connector	Terminal		
B56	33	Ground	Battery voltage
	34		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK GROUND CIRCUIT

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B56	41	Ground	Yes
	42		

Does continuity exist?

YES >> Inspection End.

NO >> Repair or replace harness.

BCM

BCM : Diagnosis Procedure

INFOID:0000000011545448

Regarding Wiring Diagram information, refer to [BCS-55, "Wiring Diagram"](#).

1. CHECK FUSE AND FUSIBLE LINK

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

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Signal name	Fuse and fusible link No.
Fusible link battery power	L (40A)
BCM battery fuse	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.

OUTSIDE KEY ANTENNA (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE KEY ANTENNA (PASSENGER SIDE)

Component Function Check

INFOID:0000000011218664

1.CHECK OUTSIDE KEY ANTENNA (RH)

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

Does the door unlock?

- YES >> Inspection End.
NO >> Refer to [DLK-173. "Diagnosis Procedure"](#).

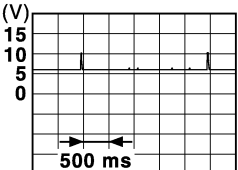
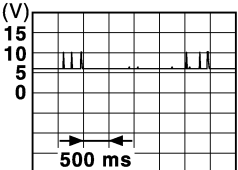
Diagnosis Procedure

INFOID:0000000011218665

Regarding Wiring Diagram information, refer to [DLK-76. "Wiring Diagram"](#).

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
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.)	
M80	114, 115	Ground	When Intelligent Key is not in the antenna detection area. (The distance between Intelligent Key and antenna: Approx. 2 m.)	
			When Intelligent Key is in the antenna detection area. (The distance between Intelligent Key and antenna: Approx. 2 m.)	

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-82. "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	D115	1	Yes
	115		2	

3. Check continuity between BCM harness connector and ground.

OUTSIDE KEY ANTENNA (PASSENGER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Ground	Continuity
Connector	Terminal		
M80	114		No
	115		

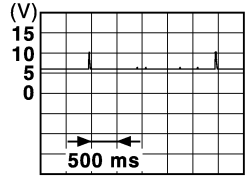
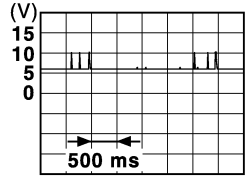
Is the inspection result normal?

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.

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

Is the inspection result normal?

YES >> Replace outside key antenna (RH). Refer to [DLK-306, "PASSENGER SIDE : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

OUTSIDE KEY ANTENNA (DRIVER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE KEY ANTENNA (DRIVER SIDE)

Component Function Check

INFOID:0000000011218666

1.CHECK OUTSIDE KEY ANTENNA (LH)

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

Does the door unlock?

- YES >> Inspection End.
NO >> Refer to [DLK-175. "Diagnosis Procedure"](#).

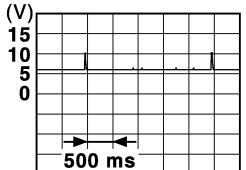
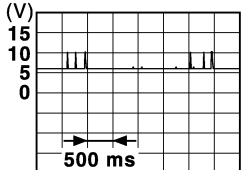
Diagnosis Procedure

INFOID:0000000011218667

Regarding Wiring Diagram information, refer to [DLK-76. "Wiring Diagram"](#).

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
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 Intelligent Key is not in the antenna detection area. (The distance between Intelligent Key and antenna: Approx. 2 m.)	 JMKIA5954GB

Is the inspection result normal?

- YES >> Replace BCM. Refer to [DLK-311. "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.

OUTSIDE KEY ANTENNA (DRIVER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Ground	Continuity
Connector	Terminal		
M80	122		No
	121		

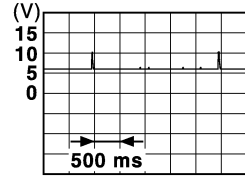
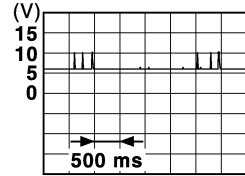
Is the inspection result normal?

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.

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M80	122, 121	Ground	When the driver door request switch is operated with ignition switch OFF.	 JMKIA5955GB
			When Intelligent Key is not in the antenna detection area. (The distance between Intelligent Key and antenna: Approx. 2 m.)	 JMKIA5954GB

Is the inspection result normal?

YES >> Replace outside key antenna (LH). Refer to [DLK-306, "DRIVER SIDE : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

OUTSIDE KEY ANTENNA (REAR BUMPER)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE KEY ANTENNA (REAR BUMPER)

Component Function Check

INFOID:0000000011218668

1.CHECK OUTSIDE KEY ANTENNA (REAR BUMPER)

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

Does the door unlock?

- YES >> Inspection End.
NO >> Refer to [DLK-177. "Diagnosis Procedure"](#).

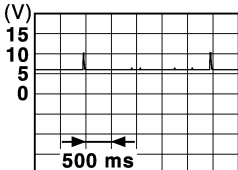
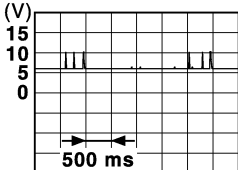
Diagnosis Procedure

INFOID:0000000011218668

Regarding Wiring Diagram information, refer to [DLK-76. "Wiring Diagram"](#).

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M20	102, 101	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-82. "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

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

BCM		Outside key antenna (rear bumper)		Continuity
Connector	Terminal	Connector	Terminal	
M20	102	B84	1	Yes
	101		2	

3. Check continuity between BCM harness connector and ground.

OUTSIDE KEY ANTENNA (REAR BUMPER)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Ground	Continuity
Connector	Terminal		
M20	102		No
	101		

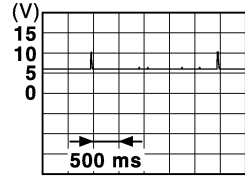
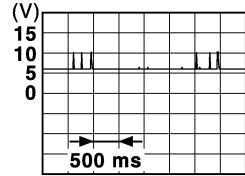
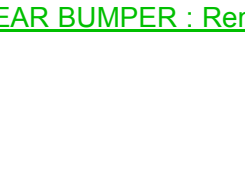
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+) BCM		(-)	Condition	Signal (Reference value)
Connector	Terminal			
M20	102, 101	Ground	When the driver door request switch is operated with ignition switch OFF.	 JMKIA5955GB
			When Intelligent Key is in the antenna detection area. (The distance between Intelligent Key and antenna: 80 cm or less.)	 JMKIA5954GB
M20	102, 101	Ground	When the driver door request switch is operated with ignition switch OFF.	 JMKIA5955GB
			When Intelligent Key is not in the antenna detection area. (The distance between Intelligent Key and antenna: Approx. 2 m.)	 JMKIA5954GB

Is the inspection result normal?

YES >> Replace outside key antenna (rear bumper). Refer to [DLK-306, "REAR BUMPER : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR SWITCH

Component Function Check

INFOID:0000000011218670

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-179. "Diagnosis Procedure"](#).

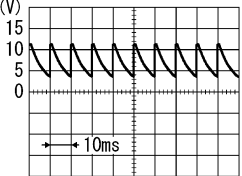
Diagnosis Procedure

INFOID:0000000011218671

Regarding Wiring Diagram information, refer to [DLK-76. "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.

(+)		Terminal	(-)	Signal (Reference value)
Door switch				
Connector				
Front LH	B8	3	Ground	
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.

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DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Door switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
Front LH	B8	M20	96	Yes
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	3	No
Front RH	B108		
Rear LH	B18		
Rear RH	B116		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR SWITCH

Refer to [DLK-180, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch. Refer to [DLK-303, "Removal and Installation"](#).

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218672

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	No
			Released	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch. Refer to [DLK-303, "Removal and Installation"](#).

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR SWITCH

Component Function Check

INFOID:0000000011218673

1.CHECK FUNCTION

CONSULT

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

Monitor Item	Condition		Status
DOOR SW-BK	Back door	Open	On
		Closed	Off

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [DLK-181, "Diagnosis Procedure \(With Automatic Back Door\)"](#).

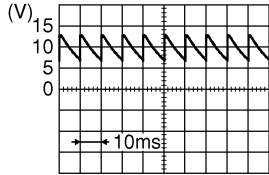
Diagnosis Procedure (With Automatic Back Door)

INFOID:0000000011218674

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK BACK DOOR SWITCH INPUT SIGNAL

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

(+)Back door lock assembly		(-)	Signal (Reference value)
Connector	Terminal		
D557	7	Ground	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK BACK DOOR SWITCH CIRCUIT

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

Back door lock assembly		BCM		Continuity
Connector	Terminal	Connector	Terminal	
D557	7	M20	97	Yes

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

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D557	7		No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK BACK DOOR SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D557	8		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR SWITCH

Refer to [DLK-183, "Component Inspection \(With Automatic Back Door\)"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

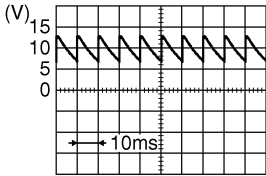
Diagnosis Procedure (Without Automatic Back Door)

INFOID:0000000011218675

Regarding Wiring Diagram information, refer to [DLK-76, "Wiring Diagram"](#).

1.CHECK BACK DOOR SWITCH INPUT SIGNAL

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

(+) Back door lock assembly		(-)	Signal (Reference value)
Connector	Terminal		
D567	3	Ground	 9.0 - 10.0 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2.CHECK BACK DOOR SWITCH CIRCUIT

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

Back door lock assembly		BCM		Continuity
Connector	Terminal	Connector	Terminal	
D567	3	M20	97	Yes

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D567	3		No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK BACK DOOR SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D567	4		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR SWITCH

Refer to [DLK-184, "Component Inspection \(Without Automatic Back Door\)"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection (With Automatic Back Door)

INFOID:0000000011218676

1.CHECK BACK DOOR SWITCH

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

Back door lock assembly		Condition		Continuity
Terminal				
7	8	Door switch	Pressed	No
			Released	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Component Inspection (Without Automatic Back Door)

INFOID:0000000011218677

1. CHECK BACK DOOR SWITCH

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

Back door lock assembly		Condition		Continuity
Terminal				
3	4	Door switch	Pressed	No
			Released	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000011552692

1.CHECK FUNCTION

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	Door lock and unlock switch	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-185, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011552693

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-67, "Removal and Installation"](#).

NO >> Refer to [PWC-34, "POWER WINDOW MAIN SWITCH : Diagnosis Procedure"](#).

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:0000000011552697

1.CHECK FUNCTION

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	Door lock and unlock switch	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-185, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011552698

1.CHECK POWER WINDOW SWITCH

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

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DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Does power window operate?

- YES >> Replace front power window switch (passenger side). Refer to [PWC-68, "Removal and Installation"](#).
- NO >> Refer to [PWC-36, "FRONT POWER WINDOW SWITCH \(PASSENGER SIDE\) : Diagnosis Procedure"](#).

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000011552709

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-187, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011552710

Regarding Wiring Diagram information, refer to [DLK-63, "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.

(+) Front door lock assembly LH		(-)	Condition	Voltage (Approx.)
Connector	Terminal			
D14	1	Ground	Door lock and unlock switch	Battery voltage
	2			

Is the inspection result normal?

YES >> Replace front door lock assembly LH. Refer to [DLK-290, "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		No
	137		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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DLK

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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	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-82, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:0000000011552711

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-188, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011552712

Regarding Wiring Diagram information, refer to [DLK-63, "Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+) Front door lock actuator RH		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
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-290, "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 actuator RH harness connector.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Front door lock actuator RH		Continuity
Connector	Terminal	Connector	Terminal	
M81	130	D114	1	Yes
	135		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M81	130		No
	135		

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	Battery voltage
	135			Lock	

Is the inspection result normal?

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

NO >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

REAR LH

REAR LH : Component Function Check

INFOID:0000000011552713

DLK

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-189, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:0000000011552714

Regarding Wiring Diagram information, refer to [DLK-63, "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 >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition		Voltage (Approx.)
Rear door lock actuator LH					
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-294. "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		No
	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					
Connector	Terminal				
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-82. "Removal and Installation"](#).

REAR RH

REAR RH : Component Function Check

INFOID:0000000011552715

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-191. "REAR RH : Diagnosis Procedure"](#).

DOOR LOCK ACTUATOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

REAR RH : Diagnosis Procedure

INFOID:0000000011552716

Regarding Wiring Diagram information, refer to [DLK-63, "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.)
Rear door lock actuator RH					
Connector	Terminal				
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-294, "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		No
	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					
Connector	Terminal				
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-82, "Removal and Installation"](#).

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

UNLOCK SENSOR

Component Function Check

INFOID:0000000011218692

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-192, "Diagnosis Procedure"](#).

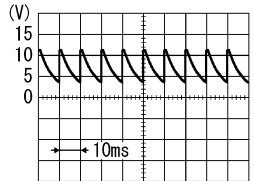
Diagnosis Procedure

INFOID:0000000011218693

Regarding Wiring Diagram information, refer to [DLK-63, "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.

(+)		(-)	Signal (Reference value)
Front door lock assembly LH Connector	Terminal		
D14	3	Ground	

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 >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Ground	Continuity
Connector	Terminal		
M18	30		No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "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-193, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly LH. Refer to [DLK-290, "DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218694

1.CHECK UNLOCK SENSOR

DLK

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	Yes
			Lock	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front door lock assembly LH. Refer to [DLK-290, "DOOR LOCK : Removal and Installation"](#).

DOOR KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR KEY CYLINDER SWITCH

Component Function Check

INFOID:0000000011552729

1.CHECK FUNCTION

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	Driver side door key cylinder	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-194, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011552730

Regarding Wiring Diagram information, refer to [DLK-63, "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.

(+) Front door lock assembly LH		(-)	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 >

[WITH INTELLIGENT KEY SYSTEM]

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

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to [PWC-67, "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		
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-195, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly LH. Refer to [DLK-290, "DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011552731

DLK

1.CHECK DOOR KEY CYLINDER SWITCH

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

Front door lock assembly LH		Condition		Continuity
Terminal				
5	4	Driver side door key cylinder	Unlock	Yes
			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-290, "DOOR LOCK : Removal and Installation"](#).

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY RECEIVER

Component Function Check

INFOID:0000000011552734

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-196, "Diagnosis Procedure"](#).

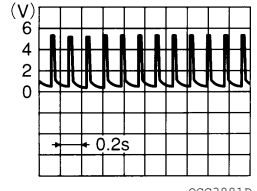
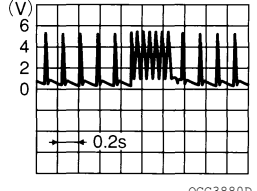
Diagnosis Procedure

INFOID:0000000011552735

Regarding Wiring Diagram information, refer to [DLK-63, "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.

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

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-82, "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 >

[WITH INTELLIGENT KEY SYSTEM]

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 10A fuse No. 25 [located in fuse block J/B].

NO-2 >> Repair or replace harness between remote keyless entry receiver and 10A fuse No. 25.

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-309. "Removal and Installation"](#).

NO >> Repair or replace harness.

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR REQUEST SWITCH

Component Function Check

INFOID:0000000011218698

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	LH door request switch	Pressed	ON
		Released	OFF
REQ SW -AS	RH door request switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

YES >> Front door request switch is OK.

NO >> Refer to [DLK-198, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011218699

Regarding Wiring Diagram information, refer to [DLK-63, "Wiring Diagram"](#).

1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

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

(+)		Terminal	(−)	Voltage (Approx.)
Front door request switch				
Connector				
LH	D15	3	Ground	Battery voltage
RH	D115			

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
RH	D115		72	

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

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Front door request switch			Ground	Continuity
Connector		Terminal		
LH	D15	3		
RH	D115			No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "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		Yes
RH	D115			

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR REQUEST SWITCH

Refer to [DLK-199, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front outside handle assembly. Refer to [DLK-304, "DRIVER SIDE : Removal and Installation"](#) or [DLK-304, "PASSENGER SIDE : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218700

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				
3	4	Door request switch	Pressed	Yes
			Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning front door request switch. Refer to [DLK-304, "DRIVER SIDE : Removal and Installation"](#) or [DLK-304, "PASSENGER SIDE : Removal and Installation"](#).

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR REQUEST SWITCH

Component Function Check

INFOID:0000000011218701

1.CHECK FUNCTION

CONSULT

1. Select "INTELLIGENT KEY" of "BCM".
2. Select "REQ SW-BD/TR" in "Data Monitor" mode.
3. Check that the function operates normally according to the following conditions:

Monitor Item	Condition		Status
REQ SW-BD/TR	Back door request switch	Pressed	On
		Released	Off

Is the inspection result normal?

- YES >> Back door request switch is OK.
NO >> Refer to [DLK-200, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011218702

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK BACK DOOR REQUEST SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Back door opener switch			
Connector	Terminal		
D559	4	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK BACK DOOR REQUEST SWITCH CIRCUIT

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

BCM		Back door opener switch		Continuity
Connector	Terminal	Connector	Terminal	
M20	83	D559	4	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	83		No

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK BACK DOOR REQUEST SWITCH GROUND CIRCUIT

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Back door opener switch		Ground	Continuity
Connector	Terminal		
D559	3		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR REQUEST SWITCH

Refer to [DLK-201, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch. Refer to [DLK-313, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218703

1.CHECK BACK DOOR REQUEST SWITCH

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

Back door opener switch assembly		Condition		Continuity
Terminal				
3	4	Back door request switch	Pressed	Yes
			Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door opener switch assembly. Refer to [DLK-313, "Removal and Installation"](#).

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPENER SWITCH

Component Function Check

INFOID:0000000011218704

1.CHECK FUNCTION

CONSULT

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

Monitor Item	Condition		Status
TR/BD OPEN SW	Back door opener switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

- YES >> Back door opener switch is OK.
NO >> Refer to [DLK-202, "Diagnosis Procedure"](#).

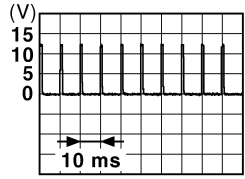
Diagnosis Procedure

INFOID:0000000011218705

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL

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

(+) Back door opener switch		(-)	Signal (Reference value)
Connector	Terminal		
D559	1	Ground	

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Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

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

BCM		Back door opener switch		Continuity
Connector	Terminal	Connector	Terminal	
M19	80	D559	1	Yes

3. Check continuity between BCM harness connector and ground.

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Ground	Continuity
Connector	Terminal		
M19	80		No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

Back door opener switch		Ground	Continuity
Connector	Terminal		
D559	2		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR OPENER SWITCH

Refer to [DLK-203, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch. Refer to [DLK-313, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218706

1.CHECK BACK DOOR OPENER SWITCH

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

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door opener switch. Refer to [DLK-313, "Removal and Installation"](#).

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY WARNING BUZZER

Component Function Check

INFOID:0000000011218707

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-204, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011218708

Regarding Wiring Diagram information, refer to [DLK-76, "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-204, "Component Inspection"](#).

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-307, "Removal and Installation"](#).

Component Inspection

INFOID:0000000011218709

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

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-307, "Removal and Installation"](#).

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INTELLIGENT KEY

Component Function Check

INFOID:0000000011218710

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-206, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011218711

NOTE:

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

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

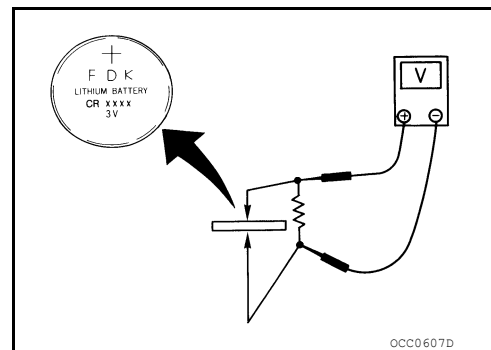
1.CHECK INTELLIGENT KEY BATTERY

Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA. Refer to [DLK-310, "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.



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METER BUZZER CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

METER BUZZER CIRCUIT

Description

INFOID:0000000011218712

- 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:0000000011218713

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-207, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011218714

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-78, "Removal and Installation"](#).
NO >> Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

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KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY WARNING LAMP

Component Function Check

INFOID:0000000011218715

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-208, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011218716

1.CHECK KEY WARNING LAMP

Refer to [MWI-20, "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-42, "Intermittent Incident"](#).

>> Inspection End.

HAZARD FUNCTION

Component Function Check

INFOID:0000000011218717

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-209, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011218718

1.CHECK HAZARD SWITCH CIRCUIT

Refer to [DLK-209, "Component Function Check"](#).Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

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AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR CLOSE SWITCH

Component Function Check

INFOID:0000000011218719

1.CHECK FUNCTION

CONSULT

1. Select "AUTO BACK DOOR".
2. Select "BK DOOR CL SW" in "Data Monitor" mode.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Automatic back door close switch is OK.

NO >> Refer to [DLK-210, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011218720

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (Approx.)
Automatic back door close switch			
Connector	Terminal		
D560	6	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH CIRCUIT

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

Automatic back door control module		Automatic back door close switch		Continuity
Connector	Terminal	Connector	Terminal	
B55	14	D560	6	Yes

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	14		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

NO >> Repair or replace harness.

AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH GROUND CIRCUIT

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

Automatic back door close switch		Ground	Continuity
Connector	Terminal		
D560	8		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Refer to [DLK-211, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door close switch. Refer to [DLK-314, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218721

1.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

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

Automatic back door close switch		Condition		Continuity
Terminal				
6	8	Automatic back door close switch	Pressed	Yes
			Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace automatic back door close switch. Refer to [DLK-314, "Removal and Installation"](#).

AUTOMATIC BACK DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR MAIN SWITCH

Component Function Check

INFOID:0000000011218722

1.CHECK FUNCTION

CONSULT

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

Monitor Item	Condition		Status
MAIN SW	Automatic back door main switch	ON	ON
		OFF	OFF

Is the inspection result normal?

- YES >> Automatic back door main switch is OK.
NO >> Refer to [DLK-212, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011218723

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK AUTOMATIC BACK DOOR MAIN SWITCH INPUT SIGNAL

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

(+) Automatic back door main switch		(-)	Voltage (Approx.)
Connector	Terminal		
M185	9	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK AUTOMATIC BACK DOOR MAIN SWITCH CIRCUIT

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

Automatic back door control module		Automatic back door main switch		Continuity
Connector	Terminal	Connector	Terminal	
B55	29	M185	9	Yes

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	29		No

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).
NO >> Repair or replace harness.

AUTOMATIC BACK DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3.CHECK AUTOMATIC BACK DOOR MAIN SWITCH GROUND CIRCUIT

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

Automatic back door main switch		Ground	Continuity
Connector	Terminal		
M185	6		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Refer to [DLK-213, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door main switch. Refer to [DLK-312, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218724

1.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

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

Automatic back door main switch		Condition		Continuity
Terminal				
9	6	Automatic back door main switch	ON	Yes
			OFF	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace automatic back door main switch. Refer to [DLK-312, "Removal and Installation"](#).

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SWITCH

Component Function Check

INFOID:0000000011218725

1.CHECK FUNCTION

CONSULT

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

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

Is the inspection result normal?

YES >> Automatic back door switch is OK.

NO >> Refer to [DLK-214, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011218726

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK AUTOMATIC BACK DOOR SWITCH INPUT SIGNAL

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

(+) Automatic back door switch		(-)	Voltage (Approx.)
Connector	Terminal		
M186	6	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR SWITCH CIRCUIT

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

Automatic back door control module		Automatic back door switch		Continuity
Connector	Terminal	Connector	Terminal	
B55	13	M186	6	Yes

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	13		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

NO >> Repair or replace harness.

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3.CHECK AUTOMATIC BACK DOOR SWITCH GROUND CIRCUIT

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

Automatic back door switch		Ground	Continuity
Connector	Terminal		
M186	8		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR SWITCH

Refer to [DLK-215, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door switch. Refer to [DLK-313, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218727

1.CHECK AUTOMATIC BACK DOOR SWITCH

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

Automatic back door switch		Condition		Continuity
Terminal				
6	8	Automatic back door switch	Pressed	Yes
			Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace automatic back door switch. Refer to [DLK-313, "Removal and Installation"](#).

HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

HALF LATCH SWITCH

Component Function Check

INFOID:0000000011218728

1.CHECK FUNCTION

CONSULT

1. Select "AUTO BACK DOOR".
2. Select "HALF LATCH SW" in "Data Monitor" mode.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Half latch switch is OK.

NO >> Refer to [DLK-216, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011218729

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK HALF LATCH SWITCH INPUT SIGNAL

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

(-)		(-)	Voltage (Approx.)
Back door lock assembly			
Connector	Terminal		
D557	6	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK HALF LATCH SWITCH CIRCUIT

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

Automatic back door control module		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B55	7	D557	6	Yes

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

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

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

NO >> Repair or replace harness.

HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3.CHECK HALF LATCH SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D557	7		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK HALF LATCH SWITCH

Refer to [DLK-217, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218730

COMPONENT INSPECTION

1.CHECK HALF LATCH SWITCH

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

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).

TOUCH SENSOR

RH

RH : Component Function Check

INFOID:0000000011218731

1.CHECK FUNCTION

CONSULT

1. Select "AUTOMATIC BACK DOOR".
2. Select "TOUCH SEN RH" in "Data Monitor" mode.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

- YES >> Touch sensor RH is OK.
 NO >> Refer to [DLK-218. "RH : Diagnosis Procedure"](#).

RH : Diagnosis Procedure

INFOID:0000000011218732

Regarding Wiring Diagram information, refer to [DLK-94. "Wiring Diagram"](#).

1.CHECK TOUCH SENSOR INPUT SIGNAL

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

(+)		(-)		Condition		Voltage (Approx.)
Touch sensor RH		Automatic back door control module				
Connector	Terminal	Connector	Terminal			
D555	1	B55	3	Touch sensor RH	Detect obstruction	1.8 – 5 V
					Other than above	2.72 – 7.27 V

Is the inspection result normal?

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

2.CHECK TOUCH SENSOR RH CIRCUIT

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

Automatic back door control module		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B55	4	D555	2	Yes

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

TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	4		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK TOUCH SENSOR RH GROUND CIRCUIT

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

Automatic back door control module		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B55	3	D555	2	Yes

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK TOUCH SENSOR RH GROUND CIRCUIT 2

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

Automatic back door control module		Ground	Voltage (Approx.)
Connector	Terminal		
B55	3		0.01 – 0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR RH

Refer to [DLK-219, "RH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace touch sensor RH. Refer to [DLK-299, "BACK DOOR TOUCH SENSOR : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

RH : Component Inspection

INFOID:0000000011218733

1.CHECK TOUCH SENSOR RH

1. Turn ignition switch OFF.
2. Disconnect touch sensor RH connector.

TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3. Check resistance between touch sensor RH terminals.

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace touch sensor RH. Refer to [DLK-299, "BACK DOOR TOUCH SENSOR : Removal and Installation"](#).

LH

LH : Component Function Check

INFOID:0000000011218734

1.CHECK FUNCTION

 CONSULT

1. Select "AUTOMATIC BACK DOOR".
2. Select "TOUCH SEN LH" in "Data Monitor" mode.
3. Check that the function operates normally according to the following conditions:

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

Is the inspection result normal?

YES >> Touch sensor LH is OK.

NO >> Refer to [DLK-220, "LH : Diagnosis Procedure"](#).

LH : Diagnosis Procedure

INFOID:0000000011218735

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK TOUCH SENSOR INPUT SIGNAL

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

(+)		(-)		Condition		Voltage (Approx.)
Touch sensor LH		Automatic back door control module				
Connector	Terminal	Connector	Terminal			
D556	2	B55	3	Touch sensor LH	Detect obstruction	1.8 – 5 V
					Other than above	2.72 – 7.27 V

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK TOUCH SENSOR LH CIRCUIT

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

TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door control module		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B55	5	D556	1	Yes

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	5		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK TOUCH SENSOR LH GROUND CIRCUIT

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

Automatic back door control module		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B55	3	D556	2	Yes

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK TOUCH SENSOR LH GROUND CIRCUIT 2

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

Automatic back door control module		Ground	Voltage (Approx.)
Connector	Terminal		
B55	3	Ground	0.01 – 0 V

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR LH

Refer to [DLK-222, "LH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace touch sensor LH. Refer to [DLK-299, "BACK DOOR TOUCH SENSOR : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

TOUCH SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

LH : Component Inspection

INFOID:0000000011218736

1. CHECK TOUCH SENSOR LH

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

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

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace touch sensor LH. Refer to [DLK-299, "BACK DOOR TOUCH SENSOR : Removal and Installation"](#).

SPINDLE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SPINDLE MOTOR

RH

RH : Diagnosis Procedure

INFOID:0000000011218737

Regarding Wiring Diagram information, refer to [DLK-94. "Wiring Diagram"](#).

1.CHECK SPINDLE MOTOR INPUT SIGNAL

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

(+) Spindle unit RH		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
B162	1	Ground	Back door	Auto open operation	Battery voltage
	2			Auto close operation	

Is the inspection result normal?

- YES >> Replace spindle unit RH. Refer to [DLK-297. "SPINDLE UNIT : Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK SPINDLE MOTOR CIRCUIT

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

Automatic back door control module		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B56	36	B162	1	Yes
	35		2	

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B56	36		No
	35		

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to [DLK-311. "Removal and Installation"](#).
NO >> Repair or replace harness.

LH

LH : Diagnosis Procedure

INFOID:0000000011218738

Regarding Wiring Diagram information, refer to [DLK-94. "Wiring Diagram"](#).

1.CHECK SPINDLE MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.

SPINDLE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2. Disconnect spindle unit LH connector.
3. Check voltage between spindle unit LH harness connector and ground.

(+)		(-)	Condition		Voltage (Approx.)
Spindle unit LH					
Connector	Terminal				
B70	1	Ground	Back door	Auto open operation	Battery voltage
	2			Auto close operation	

Is the inspection result normal?

- YES >> Replace spindle unit LH. Refer to [DLK-297, "SPINDLE UNIT : Removal and Installation"](#).
 NO >> GO TO 2.

2.CHECK SPINDLE MOTOR CIRCUIT

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

Automatic back door control module		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B56	38	B70	1	Yes
	37		2	

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B56	38		No
	37		

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).
 NO >> Repair or replace harness.

BACK DOOR CLOSURE MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR CLOSURE MOTOR

Diagnosis Procedure

INFOID:0000000011218739

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1.CHECK BACK DOOR CLOSURE MOTOR INPUT SIGNAL

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

(+) Back door lock assembly		(-)	Condition		Voltage (Approx.)
Connector	Terminal				
D557	1	Ground	Back door opener switch	Pressed	Battery voltage
	2			Released	0 V

Is the inspection result normal?

- YES >> Replace back door lock assembly. Refer to [DLK-297, "DOOR LOCK : Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

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

Automatic back door control module		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B56	39	D557	1	Yes
	40		2	

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B56	39		No
	40		

Is the inspection result normal?

- YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).
NO >> Repair or replace harness.

AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR WARNING BUZZER

Diagnosis Procedure

INFOID:0000000011218740

Regarding Wiring Diagram information, refer to [DLK-94, "Wiring Diagram"](#).

1. CHECK BACK DOOR WARNING CHIME POWER SUPPLY CIRCUIT

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

(+)		(-)	Voltage (Approx.)
Back door warning chime			
Connector	Terminal		
B93	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK BACK DOOR WARNING CHIME OUTPUT SIGNAL CIRCUIT

1. Disconnect automatic back door control module connector.
2. Check continuity between automatic back door control module harness connector and back door warning chime harness connector.

Automatic back door control module		Back door warning chime		Continuity
Connector	Terminal	Connector	Terminal	
B56	34	B93	1	Yes

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B56	34		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK BACK DOOR WARNING CHIME GROUND CIRCUIT

Check continuity between back door warning chime harness connector and ground.

Back door warning chime		Ground	Continuity
Connector	Terminal		
B93	2		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BACK DOOR WARNING CHIME

Refer to [DLK-227, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door warning chime. Refer to [DLK-308, "Removal and Installation"](#).

AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011218741

1.CHECK BACK DOOR WARNING CHIME

1. Turn ignition switch OFF.
2. Disconnect back door warning chime connector.
3. Connect battery power supply directly to back door warning chime terminals and check the operation.

Back door warning chime		Operation
Terminal		
(+)	(-)	
1	2	Chime sounds

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace back door warning chime. Refer to [DLK-308, "Removal and Installation"](#).

DLK

HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

HOOD SWITCH

Component Function Check

INFOID:0000000011552736

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-228. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011552737

Regarding Wiring Diagram information, refer to [DLK-76. "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 (V) (Approx.)
Hood switch			
Connector	Terminal		
E205	1	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	
E218	94	E205	1	Yes
	96		2	

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E218	94		No
	96		

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to [PCS-37. "Removal and Installation"](#).

HOOD SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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		
E205	3		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK HOOD SWITCH

Refer to [DLK-229, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace hood switch. Refer to [SEC-154, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

Component Inspection

INFOID:0000000011552738

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				
1	3	Hood switch	Press	Yes
			Release	No
2			Press	No
			Release	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace hood switch. Refer to [SEC-154, "Removal and Installation"](#).

INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER

Component Function Check

INFOID:0000000011218742

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-230. "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-19. "Removal and Installation"](#).

Diagnosis Procedure

INFOID:0000000011218743

Regarding Wiring Diagram information, refer to [DLK-107. "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
	6		Ignition switch position: ON	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the following items:

- 10A fuse No. 29 located in the fuse block (J/B).
- 10A fuse No. 9 located in the fuse block (J/B).
- Harness for open or short between fuse and auto anti-dazzling inside mirror (HomeLink® universal transceiver).

2.CHECK GROUND CIRCUIT

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

INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-42, "Intermittent Incident"](#).

>> Inspection End.

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DLK

SYMPTOM DIAGNOSIS

INTELLIGENT KEY SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000011218744

CAUTION:

CONSULT

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

Symptom	Inspection item
Door does not lock/unlock with door lock and unlock switch.	• All doors inoperative. Refer to DLK-233. • Drivers side door inoperative. Refer to DLK-233. • Passenger side door inoperative. Refer to DLK-234. • Rear LH door inoperative. Refer to DLK-234. • Rear RH door inoperative. Refer to DLK-234.
Door does not lock/unlock with door key cylinder operation.	Refer to DLK-236 .
Door does not lock/unlock with door request switch.	• All door request switches. Refer to DLK-237. • Drivers side door request switch. Refer to DLK-238. • Passenger side door request switch. Refer to DLK-238. • Back door request switch. Refer to DLK-238.
Door does not lock/unlock with Intelligent Key.	Refer to DLK-240 .
Ignition position warning function does not operate.	Refer to DLK-241 .
OFF position warning does not operate.	Refer to DLK-242 .
Take away warning does not operate.	Refer to DLK-243 .
Key ID warning does not operate.	Refer to DLK-245 .
Intelligent Key low battery warning does not operate.	Refer to DLK-246 .
Door lock operation warning does not operate.	Refer to DLK-247 .
Automatic back door operation does not operate.	• All switches. Refer to DLK-248. • Automatic back door switch. Refer to DLK-249. • Automatic back door close switch. Refer to DLK-249. • Intelligent Key. Refer to DLK-250. • Back door opener switch. Refer to DLK-250. • Open/closure function. Refer to DLK-251. • Open function. Refer to DLK-252. • Closure function. Refer to DLK-253.
Automatic back door warning does not operate.	Refer to DLK-254 .
Automatic back door functions do not cancel.	Refer to DLK-256 .
Automatic back door anti-pinch functions do not operate.	Refer to DLK-257 .
Integrated HomeLink® transmitter does not operate.	Refer to DLK-258 .
Squeak and rattle trouble diagnosis.	Refer to DLK-260 .

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

< SYMPTOM DIAGNOSIS > [WITH INTELLIGENT KEY SYSTEM]

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

ALL DOOR

ALL DOOR : Description

INFOID:0000000011218745

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

ALL DOOR : Diagnosis Procedure

INFOID:0000000011218746

1.CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

- Driver side: Refer to [DLK-185, "DRIVER SIDE : Component Function Check"](#).
- Passenger side: Refer to [DLK-185, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly LH.

Refer to [DLK-187, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

- Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
- Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000011218747

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011218748

1.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly LH.

Refer to [DLK-187, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

- Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
- Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

PASSENGER SIDE

DLK

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE : Description

INFOID:0000000011218749

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011218750

1.CHECK DOOR LOCK ACTUATOR

Check front door lock actuator RH.

Refer to [DLK-187, "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

- Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
- Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

REAR LH

REAR LH : Description

INFOID:0000000011218751

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

REAR LH : Diagnosis Procedure

INFOID:0000000011218752

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator LH.

Refer to [DLK-189, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

- Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
- Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

REAR RH

REAR RH : Description

INFOID:0000000011218753

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

REAR RH : Diagnosis Procedure

INFOID:0000000011218754

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator RH.

Refer to [DLK-190, "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

- Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

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

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

- Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.
NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION
< SYMPTOM DIAGNOSIS > **[WITH INTELLIGENT KEY SYSTEM]**

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION

Diagnosis Procedure

INFOID:0000000011218755

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.

NO >> Refer to [DLK-233, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to [DLK-194, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

• Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

• Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

ALL DOOR REQUEST SWITCHES

ALL DOOR REQUEST SWITCHES : Description

INFOID:0000000011218756

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

ALL DOOR REQUEST SWITCHES : Diagnosis Procedure

INFOID:0000000011218757

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.

NO >> Refer to [DLK-206, "Component Function Check"](#).

2.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-179, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-153, "DTC Description"](#).

• Console: Refer to [DLK-156, "DTC Description"](#).

• Luggage room: Refer to [DLK-159, "DTC Description"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.

• Driver side: Refer to [DLK-175, "Component Function Check"](#).

• Passenger side: Refer to [DLK-173, "Component Function Check"](#).

• Rear bumper: Refer to [DLK-177, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK BACK DOOR SWITCH

Check back door switch.

Refer to [DLK-181, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.REPLACE BCM

• Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

• Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

DRIVER SIDE DOOR REQUEST SWITCH

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DRIVER SIDE DOOR REQUEST SWITCH : Description

INFOID:0000000011218758

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

DRIVER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:0000000011218759

1.CHECK DOOR REQUEST SWITCH

Check front door request switch (driver side).

Refer to [DLK-198, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

• Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

• Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

PASSENGER SIDE DOOR REQUEST SWITCH

PASSENGER SIDE DOOR REQUEST SWITCH : Description

INFOID:0000000011218760

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

PASSENGER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:0000000011218761

1.CHECK DOOR REQUEST SWITCH

Check front door request switch (passenger side).

Refer to [DLK-198, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

• Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

• Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

BACK DOOR REQUEST SWITCH

BACK DOOR REQUEST SWITCH : Description

INFOID:0000000011218762

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

BACK DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:0000000011218763

1.CHECK BACK DOOR REQUEST SWITCH

Check back door request switch.

Refer to [DLK-200, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

• Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

- Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

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DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:0000000011218764

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.

NO >> Refer to [DLK-233, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to [DLK-206, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

• Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

• Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011218765

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.

NO >> Refer to [DLK-233, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-179, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK BACK DOOR SWITCH

Check back door switch.

Refer to [DLK-181, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

• Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

• Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

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OFF POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OFF POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011218766

1.CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK DOOR SWITCH

Check front door switch LH.

Refer to [DLK-179, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-207, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-204, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.REPLACE BCM

• Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

• Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

TAKE AWAY WARNING DOES NOT OPERATE

Description

INFOID:0000000011218767

Take away warning function does not operate for vehicles with information display models.

NOTE:

Warning function operating condition is extremely complicated. During operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-32, "WARNING FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:0000000011218768

1.CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to [DLK-153, "DTC Description"](#).
- Console: Refer to [DLK-156, "DTC Description"](#).
- Luggage room: Refer to [DLK-159, "DTC Description"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK DOOR SWITCH

Check front door switch LH.

Refer to [DLK-179, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-207, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-204, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7.REPLACE BCM

- Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
- Confirm the operation after replacement.

TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

KEY ID WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY ID WARNING DOES NOT OPERATE

Description

INFOID:0000000011218769

Key ID warning function does not operate for vehicles with information display models.

NOTE:

Warning function operating condition is extremely complicated. During operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-32, "WARNING FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:0000000011218770

1.CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to [DLK-206, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to [DLK-153, "DTC Description"](#).
- Console: Refer to [DLK-156, "DTC Description"](#).
- Luggage room: Refer to [DLK-159, "DTC Description"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.REPLACE BCM

- Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).
- Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

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INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Description

INFOID:0000000011218771

Intelligent Key low battery warning does not operate for vehicles with information display models.

NOTE:

Warning function operating condition is extremely complicated. During operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-32, "WARNING FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:0000000011218772

1. CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2. CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3. CHECK "LO- BATT OF KEY FOB WARN" SETTING IN "WORK SUPPORT"

CONSULT

1. Select "INTELLIGENT KEY" of "BCM".

2. Select "LO- BATT OF KEY FOB WARN" in "Work support" mode.

3. Check "LO- BATT OF KEY FOB WARN" setting in "Work support" mode.

Refer to [BCS-22, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set "ON" in "LO- BATT OF KEY FOB WARN".

4. CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to [DLK-206, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-153, "DTC Description"](#).

• Console: Refer to [DLK-156, "DTC Description"](#).

• Luggage room: Refer to [DLK-159, "DTC Description"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6. REPLACE BCM

• Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

• Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011218773

1.CHECK DOOR LOCK FUNCTION

Check door lock function.

Does door lock/unlock using door request switch?

YES >> GO TO 2.

NO >> Refer to [DLK-237, "ALL DOOR REQUEST SWITCHES : Diagnosis Procedure"](#).

2.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-204, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

• Replace BCM. Refer to [BCS-82, "Removal and Installation"](#).

• Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

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AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

ALL SWITCHES

ALL SWITCHES : Description

INFOID:0000000011218774

Automatic back door open/close function does not operate using all switches.

NOTE:

Automatic back door open/close operation condition is extremely complicated. During operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39, "System Description"](#).

ALL SWITCHES : Diagnosis Procedure

INFOID:0000000011218775

1.CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL MODULE

Check that DTC is not detected with automatic back door control module.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK BACK DOOR AUTO CLOSURE FUNCTION

Check back door auto closure function.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Refer to [DLK-251, "OPEN/CLOSURE FUNCTION : Diagnosis Procedure"](#).

3.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check automatic back door control module power supply and ground circuit.

Refer to [DLK-121, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK GROUND CIRCUIT

Check automatic back door control module ground circuit.

Refer to [DLK-148, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK TOUCH SENSOR LH

Check touch sensor LH.

Refer to [DLK-130, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CHECK TOUCH SENSOR RH

Check touch sensor RH.

Refer to [DLK-127, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR SWITCH

AUTOMATIC BACK DOOR SWITCH : Description

INFOID:0000000011218776

Automatic back door open/close function does not operate using automatic back door switch.

NOTE:

Automatic back door open/close operation condition is extremely complicated. During operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39, "System Description"](#).

AUTOMATIC BACK DOOR SWITCH : Diagnosis Procedure

INFOID:0000000011218777

1.CHECK AUTOMATIC BACK DOOR SWITCH

Check automatic back door switch.

Refer to [DLK-214, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR CLOSE SWITCH

AUTOMATIC BACK DOOR CLOSE SWITCH : Description

INFOID:0000000011218778

Automatic back door open/close function does not operate using automatic back door close switch.

NOTE:

Automatic back door open/close operation condition is extremely complicated. During operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39, "System Description"](#).

AUTOMATIC BACK DOOR CLOSE SWITCH : Diagnosis Procedure

INFOID:0000000011218779

1.CONFIRM THE OPERATION

1. Turn ON automatic back door main switch.

2. Confirm the operation.

Is the result normal?

YES >> Automatic back door system is OK.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Check automatic back door close switch.

Refer to [DLK-210, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Refer to [DLK-212, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

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AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

1. Replace automatic back door control module. Refer to [DLK-311. "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

INTELLIGENT KEY

INTELLIGENT KEY : Description

INFOID:0000000011218780

Automatic back door open/close function does not operate using Intelligent Key.

NOTE:

Automatic back door open/close operation condition is extremely complicated. During operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39. "System Description"](#).

INTELLIGENT KEY : Diagnosis Procedure

INFOID:0000000011218781

1.CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL MODULE

Check that DTC is not detected with automatic back door control module.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 4.

NO >> Refer to [DLK-240. "Diagnosis Procedure"](#).

4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module. Refer to [DLK-311. "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : Description

INFOID:0000000011218782

Automatic back door open/close function does not operate using back door opener switch.

NOTE:

Automatic back door open/close operation condition is extremely complicated. During operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-39. "System Description"](#).

BACK DOOR OPENER SWITCH : Diagnosis Procedure

INFOID:0000000011218783

1.CONFIRM THE OPERATION

1. Turn ON automatic back door main switch.
2. Confirm the operation.

Is the result normal?

YES >> Automatic back door system is OK.

NO >> GO TO 2.

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Refer to [DLK-212, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-202, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

OPEN/CLOSURE FUNCTION

OPEN/CLOSURE FUNCTION : Description

INFOID:0000000011218784

Back door auto closure function does not operate when back door opening and closing operations are performed.

OPEN/CLOSURE FUNCTION : Diagnosis Procedure

INFOID:0000000011218785

1.CONFIRM THE OPERATION

1. Turn ON automatic back door main switch.

2. Confirm the operation.

Is the result normal?

YES >> Automatic back door system is OK.

NO >> GO TO 2.

2.CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL MODULE

Check that DTC is not detected with automatic back door control module.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Refer to [DLK-212, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-202, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

5.CHECK BACK DOOR CLOSURE MOTOR

Check back door closure motor.

Refer to [DLK-225, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

OPEN FUNCTION

OPEN FUNCTION : Description

INFOID:0000000011218786

Back door auto closure function does not operate when back door opening operations are performed.

OPEN FUNCTION : Diagnosis Procedure

INFOID:0000000011218787

1.CONFIRM THE OPERATION

1. Turn ON automatic back door main switch.

2. Confirm the operation.

Is the result normal?

YES >> Automatic back door system is OK.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Refer to [DLK-212, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.

Refer to [DLK-202, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

CLOSURE FUNCTION

CLOSURE FUNCTION : Description

INFOID:0000000011218788

Back door auto closure function does not operate when back door closing operations are performed.

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

CLOSURE FUNCTION : Diagnosis Procedure

INFOID:0000000011218789

1.CHECK HALF LATCH SWITCH

Check half latch switch.

Refer to [DLK-216. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK BACK DOOR CLOSURE MOTOR

Check back door closure motor.

Refer to [DLK-225. "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module. Refer to [DLK-311. "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

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AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE

BUZZER

BUZZER : Description

INFOID:0000000011218790

Automatic back door warning chime does not operate when automatic back door warning function is performed.

BUZZER : Diagnosis Procedure

INFOID:0000000011218791

1.CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL MODULE

Check that DTC is not detected with automatic back door control module.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK BACK DOOR WARNING CHIME

Check back door warning chime.

Refer to [DLK-226, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

HAZARD WARNING LAMP

HAZARD WARNING LAMP : Description

INFOID:0000000011218792

Hazard warning lamp does not operate when automatic back door warning function is performed.

HAZARD WARNING LAMP : Diagnosis Procedure

INFOID:0000000011218793

1.CHECK DTC WITH AUTOMATIC BACK DOOR CONTROL MODULE

Check that DTC is not detected with automatic back door control module.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK GROUND CIRCUIT

Check automatic back door control module ground circuit.

Refer to [DLK-171, "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts

4.CHECK HAZARD AND HORN REMINDER FUNCTION

AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Check hazard and horn reminder function.

Is the inspection result normal?

YES >> GO TO 5.

NO >> Refer to [DLK-209, "Diagnosis Procedure"](#).

5. REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

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AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

Diagnosis Procedure

INFOID:0000000011218794

1.CHECK THE OPERATION

Check automatic back door main switch function.

NOTE:

When the main switch is OFF, the automatic back door operation is not available by back door opener switch and automatic back door close switch.

Is the inspection result normal?

- YES >> Automatic back door system is OK.
- NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Refer to [DLK-212, "Component Function Check"](#).

Is the inspection result normal?

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

3.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

- YES >> Inspection End.
- NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR ANTI-PINCH FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011218795

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check automatic back door control module power supply and ground circuit.

Refer to [DLK-121, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK TOUCH SENSOR LH

Check touch sensor LH.

Refer to [DLK-220, "LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK TOUCH SENSOR RH

Check touch sensor RH.

Refer to [DLK-218, "RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

1. Replace automatic back door control module. Refer to [DLK-311, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42, "Intermittent Incident"](#).

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INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011218796

1. CHECK INTEGRATED HOMELINK® TRANSMITTER

Check integrated HomeLink® transmitter.

Refer to [DLK-230. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. REPLACE AUTO ANTI-DAZZLING INSIDE MIRROR

Replace auto anti-dazzling inside mirror.

Refer to [MIR-19. "Removal and Installation"](#).

Is the result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to [GI-42. "Intermittent Incident"](#).

SQUEAK AND RATTLE TROUBLE DIAGNOSES

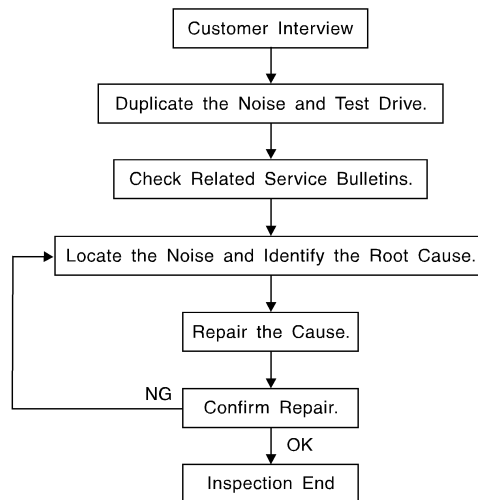
< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000011218797



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CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to [DLK-263, "Diagnostic Worksheet"](#). This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak —(Like tennis shoes on a clean floor)
Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping.
- Creak—(Like walking on an old wooden floor)
Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle—(Like shaking a baby rattle)
Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock —(Like a knock on a door)
Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)
Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a bumble bee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT and A/T models).
 - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
 - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanic's stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - removing the components in the area that you suspect the noise is coming from.
Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
 - tapping or pushing/pulling the component that you suspect is causing the noise.
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
 - placing a piece of paper between components that you suspect are causing the noise.
 - looking for loose components and contact marks.Refer to [DLK-260, "Generic Squeak and Rattle Troubleshooting"](#).

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
 - separate components by repositioning or loosening and retightening the component, if possible.
 - insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A NISSAN Squeak and Rattle Kit (J-50397) is available through your authorized NISSAN Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged.

NOTE:

- Always check with the Parts Department for the latest parts information.
- The materials contained in the NISSAN Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.
- The following materials not found in the kit can also be used to repair squeaks and rattles.
 - SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease will only last a few months.
 - SILICONE SPRAY: Use when grease cannot be applied.
 - DUCT TAPE: Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Generic Squeak and Rattle Troubleshooting

INFOID:0000000011218798

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

1. Cluster lid A and the instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar finisher
4. Instrument panel to windshield
5. Instrument panel pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

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These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

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CENTER CONSOLE

Components to pay attention to include:

1. Shift selector assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

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The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the:

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

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Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the NISSAN Squeak and Rattle Kit (J-50397) to repair the noise.

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TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner.

In addition look for:

1. Trunk lid bumpers out of adjustment
2. Trunk lid striker out of adjustment
3. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

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Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

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Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sun visor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

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

OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage.

In addition look for:

1. Loose harness or harness connectors.
2. Front console map/reading lamp lens loose.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3. Loose screws at console attachment points.

SEATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

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

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

UNDERHOOD

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

Causes of transmitted underhood noise include:

1. Any component installed to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator installation pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine rpm or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Diagnostic Worksheet

INFOID:0000000011218799

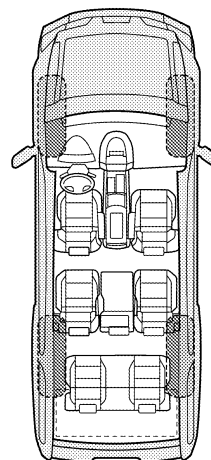
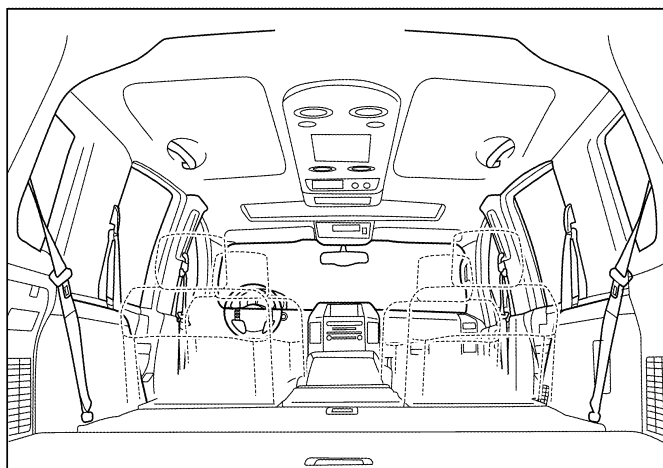
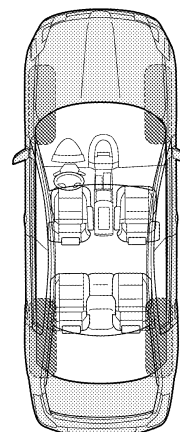
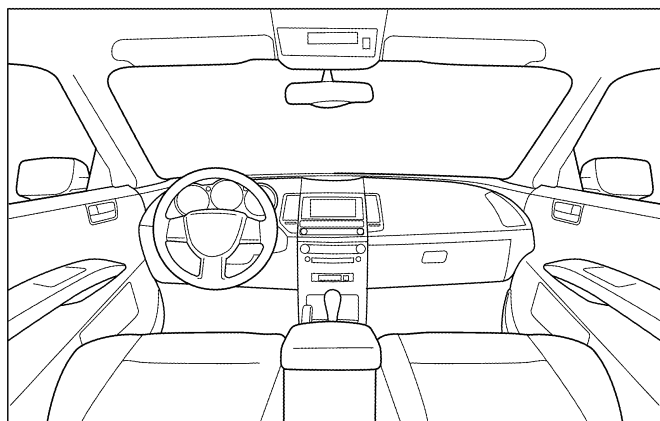
Dear Customer:

We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

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

- | | |
|---|--|
| ☐ Anytime | ☐ After sitting out in the rain |
| ☐ 1st time in the morning | ☐ When it is raining or wet |
| ☐ Only when it is cold outside | ☐ Dry or dusty conditions |
| ☐ Only when it is hot outside | ☐ Other: |

III. WHEN DRIVING:

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

IV. WHAT TYPE OF NOISE

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

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

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

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

This form must be attached to Work Order

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HOOD

< REMOVAL AND INSTALLATION >

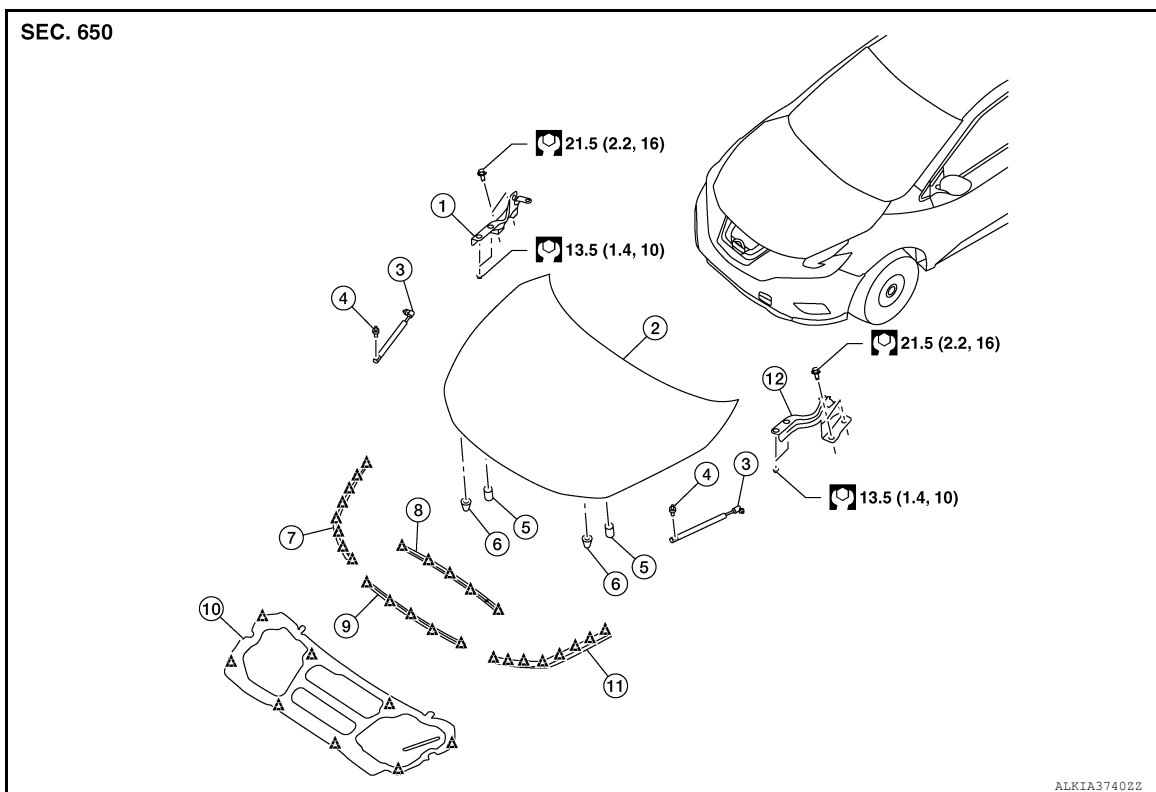
[WITH INTELLIGENT KEY SYSTEM]

REMOVAL AND INSTALLATION

HOOD

Exploded View

INFOID:0000000011218800



- | | | |
|--------------------------------|--------------------------|----------------------|
| 1. Hood hinge (RH) | 2. Hood | 3. Hood stay (RH/LH) |
| 4. Hood stay stud ball (LH/RH) | 5. Bumper rubber (LH/RH) | 6. Grommet |
| 7. Hood side seal (RH) | 8. Hood rear seal | 9. Hood front seal |
| 10. Hood insulator | 11. Hood side seal (LH) | 12. Hood hinge (LH) |
| △ Clip | | |

HOOD ASSEMBLY

HOOD ASSEMBLY : Removal and Installation

INFOID:0000000011218801

CAUTION:

- Use two people when removing or installing hood assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of hood assembly.

REMOVAL

1. Support hood assembly using a suitable tool.

WARNING:

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

2. Release clips using a suitable tool and remove hood insulator. Refer to [DLK-265, "Exploded View"](#).
3. Disconnect front washer tube. Refer to [WW-59, "Exploded View"](#).
4. Release clip (LH/RH) using a suitable tool and remove hood stay from hood side.

HOOD

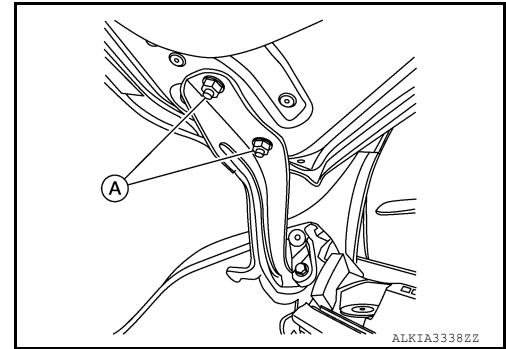
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Remove hood hinge to hood nuts (A) (LH/RH) and hood assembly.

NOTE:

RH side shown; LH similar.



INSTALLATION

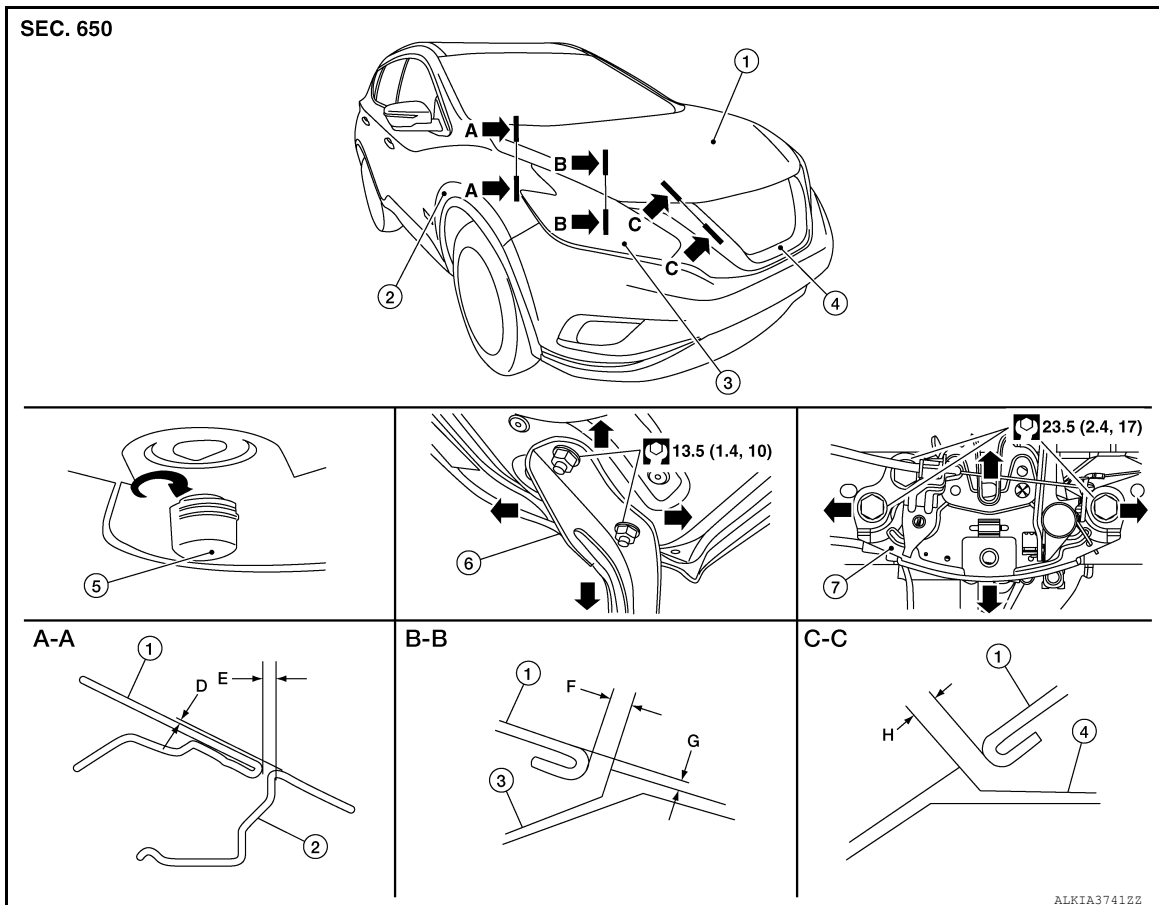
Installation is in the reverse order of removal.

CAUTION:

- Before installing hood hinge, apply anticorrosive agent onto surface of vehicle.
- After installation, perform hood assembly adjustment procedure. Refer to [DLK-266, "HOOD ASSEMBLY : Adjustment"](#).

HOOD ASSEMBLY : Adjustment

INFOID:000000011218802



1. Hood assembly

2. Front fender

3. Front combination lamp

4. Front grille

5. Bumper rubber

6. Hood hinge

7. Hood lock

Check clearance and surface height between hood and each part by visual inspection and tactile feel. If clearance and surface height are out of specification, adjust them according to adjustment procedures.

HOOD

< REMOVAL AND INSTALLATION >

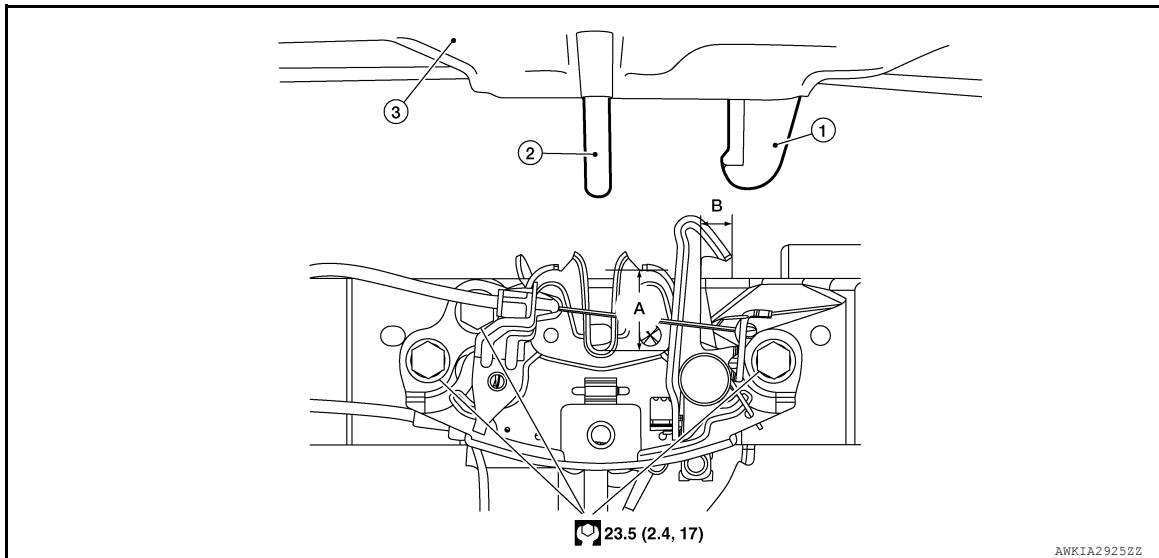
[WITH INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Portion	Section	Item	Measurement	Standard	Parallelism
Hood - Fender	A - A	D	Surface height	0.0 ± 1.0 (0.0 ± 0.04)	1.5 (0.06)
		E	Clearance	3.5 ± 1.5 (0.14 ± 0.04)	1.5 (0.06)
Fender - Front combination lamp	B - B	F	Clearance	4.5 ± 2.0 (0.35 ± 0.08)	2.0 (0.08)
		G	Surface Height	$\text{Blend} \pm 1.1$ ($\text{Blend} \pm 0.04$)	2.0 (0.08)
Hood - Front combination lamp	C - C	H	Clearance	5.5 ± 2.0 (0.22 ± 0.08)	2.3 (0.09)

HEIGHT ADJUSTMENT

- Loosen hood lock assembly bolts.
- Adjust surface height of hood assembly to front grille and front fender according to specified values by rotating hood bumper rubber.
- Temporarily tighten hood lock assembly bolts.
- 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) height or by pressing hood lightly [approximately 29 N (3.0 kg, 6.5 lb)].



- Secondary striker
 - Primary striker
 - Hood assembly
- A. 20 mm (0.79 in) B. 6.8 mm (0.27 in)

- After adjustment, tighten hood hinge nuts and bolts to specified torque.

CAUTION:

- Check hood hinge rotating part for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to heads of hood hinge bolts and nuts.

CLEARANCE ADJUSTMENT

- Loosen hood hinge nuts and bolts.
- Loosen hood lock assembly bolts.
- Adjust hood assembly so clearance measurements are within specifications.
- Tighten hood hinge nuts and bolts to specified torque.
- Tighten hood lock assembly bolts to specified torque.

HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:0000000011218803

REMOVAL

HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

1. Remove hood assembly. Refer to [DLK-265, "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove front fender. Refer to [DLK-272, "Removal and Installation"](#).
3. Remove hood hinge bolts, and then remove hood hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Before installing hood hinge, apply anticorrosive agent onto surface of vehicle.
- After installation, perform hood assembly adjustment procedure. Refer to [DLK-266, "HOOD ASSEMBLY : Adjustment"](#).

HOOD STAY

HOOD STAY : Removal and Installation

INFOID:0000000011573878

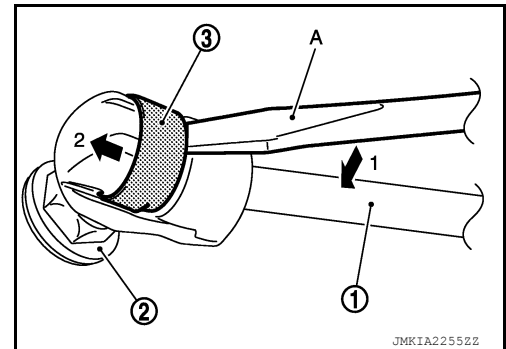
REMOVAL

1. Support hood assembly using a suitable tool.

WARNING:

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

2. Remove metal clip (3) located on connection between hood stay (1) and stud ball (2) (hood side) by using a suitable tool (A) to release clip to side and then toward front.



3. Release stud ball from hood stay (hood side).
4. Release stud ball from hood stay (body side) then remove hood stay.

INSTALLATION

Installation is in the reverse order of removal.

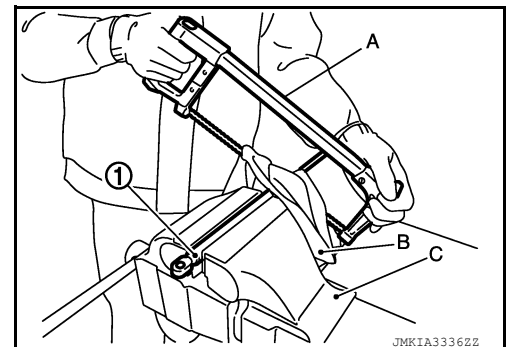
HOOD STAY : Disposal

INFOID:0000000011573879

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.



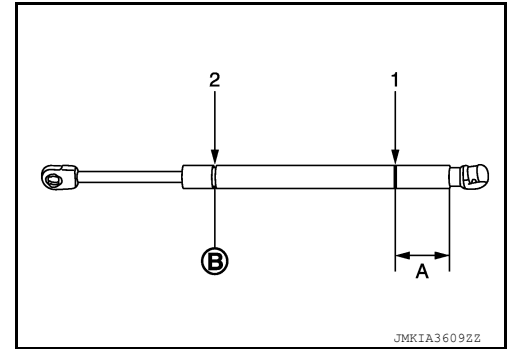
HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

A: 20 mm (0.79 in)

B: Cut at groove.



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RADIATOR CORE SUPPORT

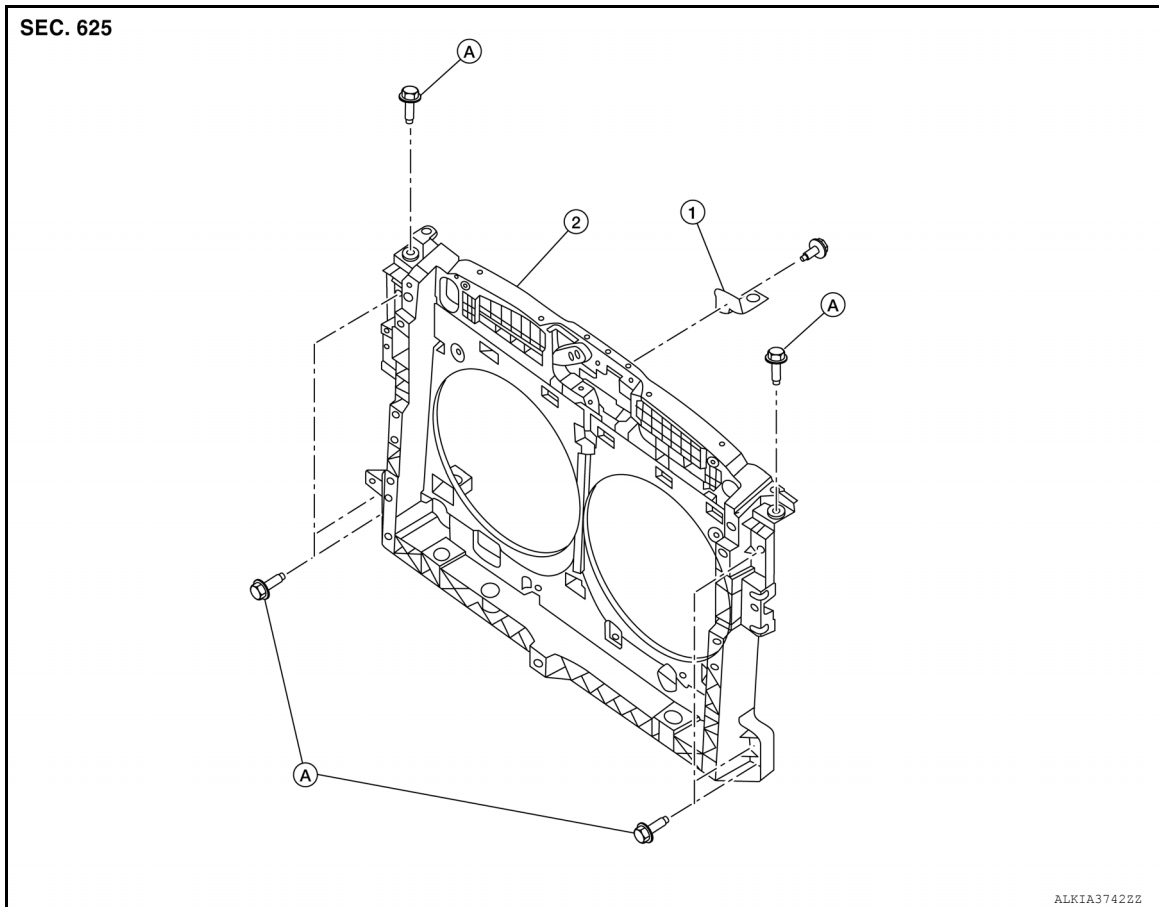
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

RADIATOR CORE SUPPORT

Exploded View

INFOID:0000000011218804



Removal and Installation

INFOID:0000000011218805

CAUTION:

When removing radiator core support upper, be careful not to damage painted surface.

REMOVAL

1. Remove radiator. Refer to [CO-13. "Removal and Installation"](#).
2. Remove active grille shutter. Refer to [EXT-32. "Removal and Installation"](#).
3. Remove crash zone sensor. Refer to [SR-25. "Removal and Installation"](#).
4. Remove bolts and radiator core support.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

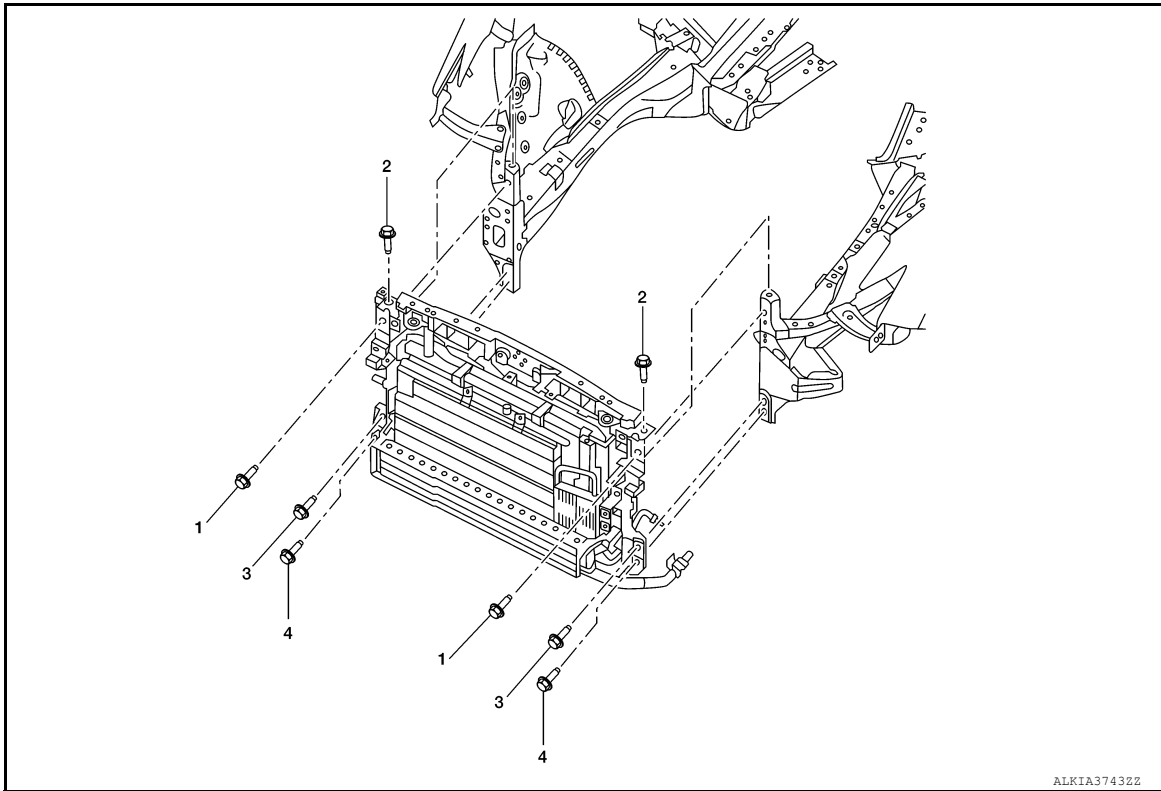
- Tighten bolts to specified torque.
- When installing radiator core support, tighten core support bolts in sequence shown.

Radiator core support bolts :21.1 N·m (2.2 kg-m, 16 ft-lb)

RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]



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FRONT FENDER

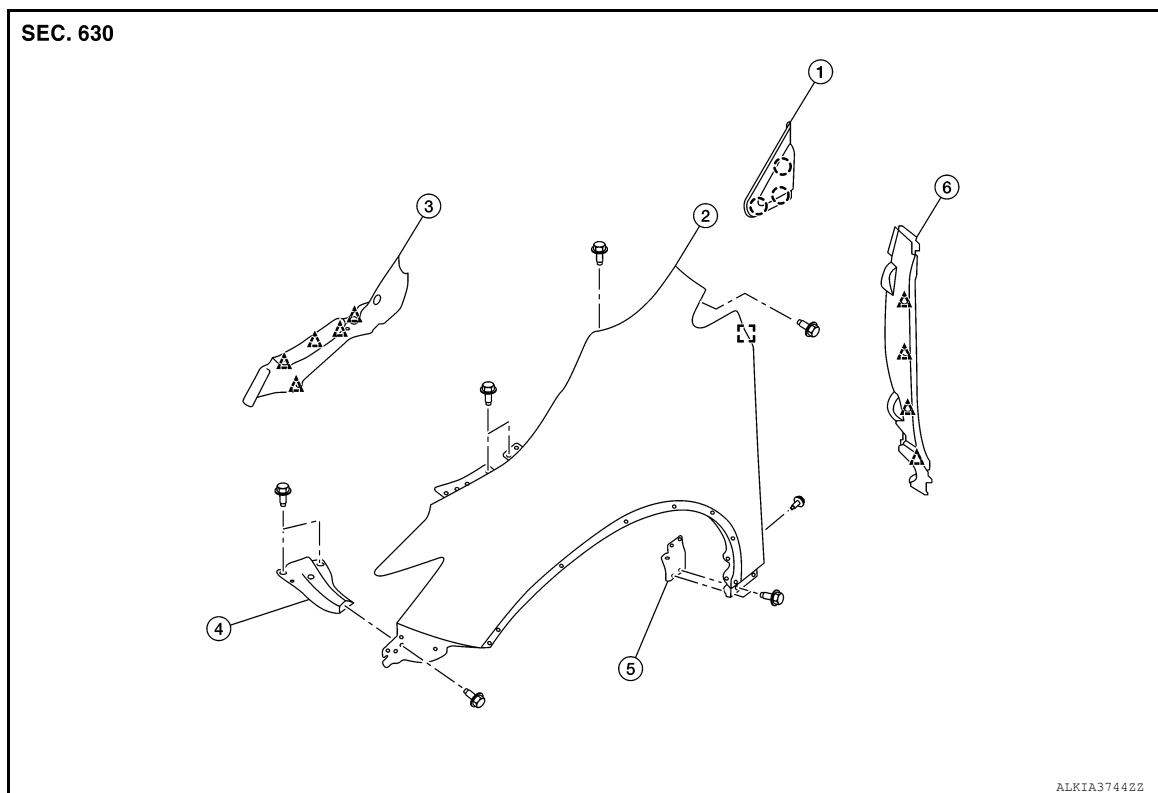
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

FRONT FENDER

Exploded View

INFOID:000000011218806



Removal and Installation

INFOID:000000011218807

CAUTION:

Use shop cloth to protect body from being damaged during removal and installation.

REMOVAL

1. Remove front combination lamp. Refer to [EXL-128, "Removal and Installation"](#) (HALOGEN HEADLAMP) or [EXL-128, "Removal and Installation"](#) (LED HEADLAMP).
2. Remove hoodedge cover. Refer to [DLK-272, "Exploded View"](#).
3. Remove fender corner finisher. Refer to [DLK-272, "Exploded View"](#).
4. Remove front fender baffle. Refer to [DLK-272, "Exploded View"](#).
5. Remove bolts and front fender.

CAUTION:

Use care when removing front fender. The front fender baffle adheres front fender to body side outer. Carefully release baffle foam or damage to front fender may occur.

6. Remove front fender front bracket (if necessary).
7. Remove front fender rear bracket (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, apply touch up paint (body color) to heads of front fender bolts.
- After installation, adjust following components as necessary:
 - Hood assembly: Refer to [DLK-266, "HOOD ASSEMBLY : Adjustment"](#).

FRONT FENDER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Front door: Refer to [DLK-275, "DOOR ASSEMBLY : Adjustment"](#).
- Tighten bolts to specification. Refer to [DLK-272, "Exploded View"](#).

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FRONT DOOR

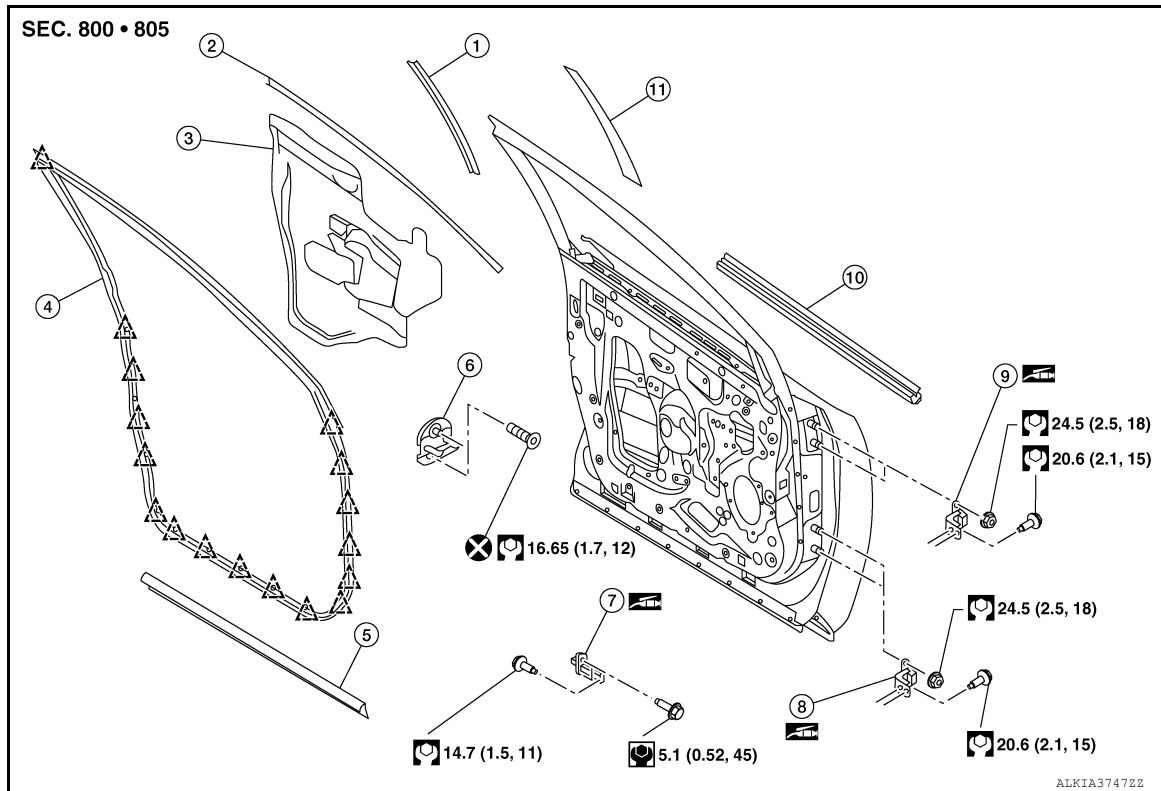
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

FRONT DOOR

Exploded View

INFOID:0000000011218808



- | | | |
|------------------------------|-----------------------------|---------------------------|
| 1. Front door sash rear tape | 2. Front door sash | 3. Vapor barrier |
| 4. Front door weather strip | 5. Front door seal | 6. Front door striker |
| 7. Front door check link | 8. Front door lower hinge | 9. Front door upper hinge |
| 10. Front door inside seal | 11. Front door outside tape | △ Clip |

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

INFOID:0000000011218809

CAUTION:

- Use two people when removing or installing front door due to its heavy weight.
- When removing and installing front door assembly, support front door with a suitable tool.

REMOVAL

1. Remove front door finisher. Refer to [INT-15, "Removal and Installation"](#).
2. Remove front door vapor barrier.
3. Disconnect the front door harness connector (body side).
4. Remove front door check link bolt (body side).
5. Remove front door hinge nuts (door side) and front door assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts/bolts to specified torque. Refer to [DLK-274, "Exploded View"](#).
- Apply anticorrosive agent where necessary.
- After installation, check front door open/close and lock/unlock operation.
- After installation, perform front door adjustment procedure. Refer to [DLK-275, "DOOR ASSEMBLY : Adjustment"](#).

FRONT DOOR

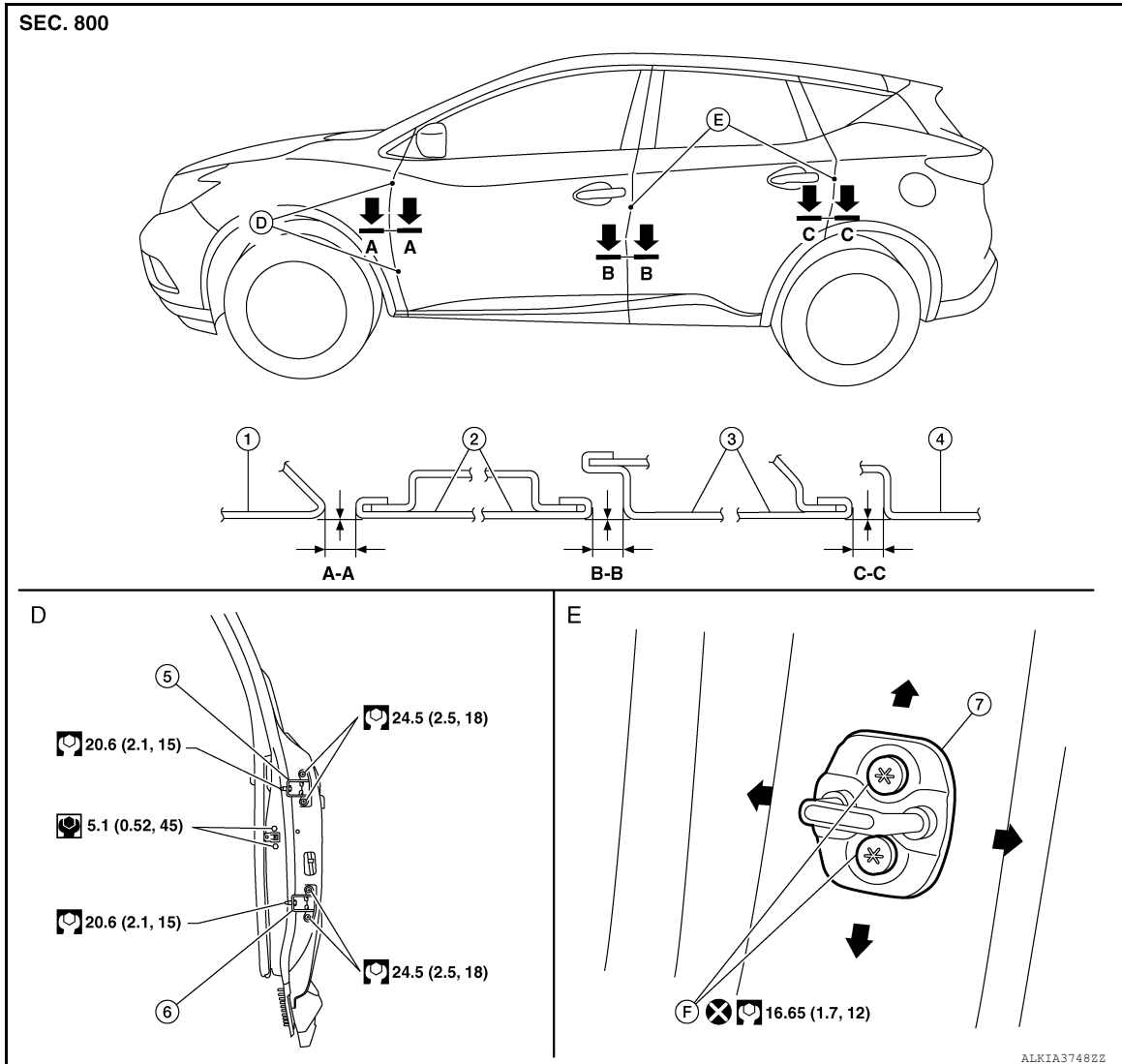
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR ASSEMBLY : Adjustment

INFOID:0000000011218810

ADJUSTMENT



Check clearance and surface height between front door and each part by visual inspection and tactile feel. If clearance and surface height are out of specification, adjust them according to adjustment procedure.

Unit: mm (in)

Portion	Section	Measurement	Standard
Front fender - Front door	A - A	Clearance	3.5 ± 1.0 (0.14 $\pm$ 0.04)
		Surface height	± 1.0 ($\pm$ 0.04)
Front door - Rear door	B - B	Clearance	4.0 ± 1.0 (0.16 $\pm$ 0.04)
		Surface height	± 1.0 ($\pm$ 0.04)
Rear door - Body side outer	C - C	Clearance	3.2 ± 1.0 (0.13 $\pm$ 0.04)
		Surface height	± 1.0 ($\pm$ 0.04)

1. Remove front fender. Refer to [DLK-272. "Removal and Installation"](#).

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

2. Loosen front door hinge nuts (door side).
3. Adjust surface height of front door according to specifications provided.
4. Temporarily tighten front door hinge nuts (door side).
5. Loosen front door hinge bolts (body side).
6. Raise front door at rear end to adjust clearance of 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 (body color) to heads of front door hinge bolts and nuts.

8. Install front fender. Refer to [DLK-272, "Removal and Installation"](#).

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:0000000011218811

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-276, "DOOR STRIKER : Adjustment"](#).
- Tighten bolts to specified torque. Refer to [DLK-274, "Exploded View"](#).

DOOR STRIKER : Adjustment

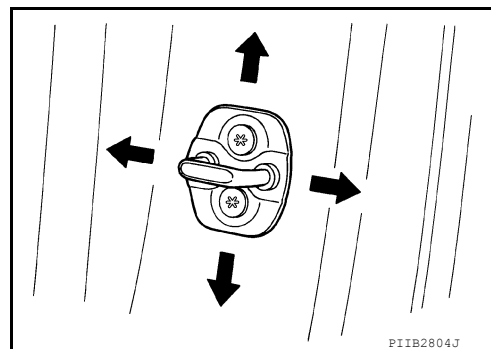
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DOOR STRIKER ADJUSTMENT

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

CAUTION:

Tighten bolts to specified torque. Refer to [DLK-274, "Exploded View"](#).



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DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:0000000011218813

REMOVAL

1. Remove front door assembly. Refer to [DLK-274, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove front door hinge bolts (body side) and front door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts/bolts to specified torque. Refer to [DLK-274, "Exploded View"](#).
- Apply anticorrosive agent to hinge mating surface.

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- 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-275, "DOOR ASSEMBLY : Adjustment"](#).

DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:0000000011218814

REMOVAL

1. Fully close front door window.
2. Remove front door speaker. Refer to [AV-71, "Removal and Installation"](#) [MULTI AV (DISPLAY AUDIO)] or [AV-189, "Removal and Installation"](#) [MULTI AV (NAVIGATION)].
3. Remove door check link bolt (body side).
4. Remove door check link bolts (door side).
5. Remove door check link through hole in door assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts/bolts to specified torque. Refer to [DLK-274, "Exploded View"](#).
- After installation, check front door open/close and lock/unlock operation.
- Check door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.

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REAR DOOR

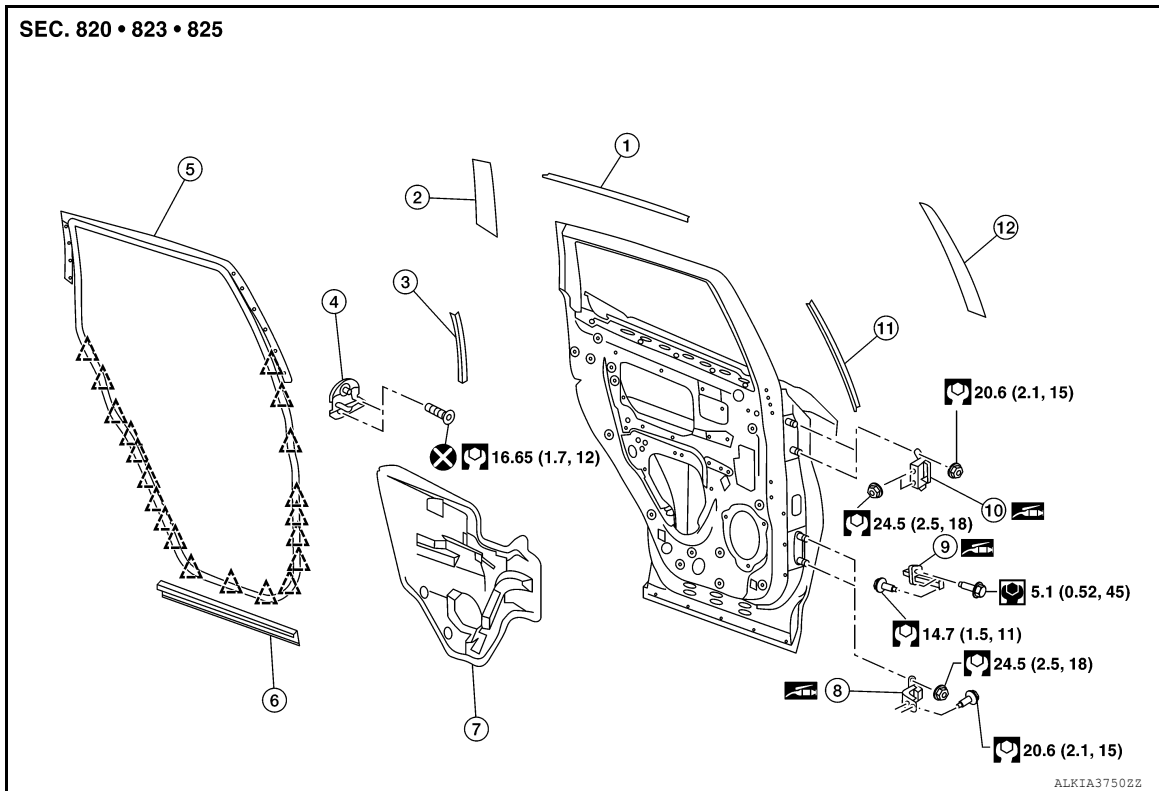
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REAR DOOR

Exploded View

INFOID:0000000011218815



- | | | |
|---------------------------|--------------------------------|----------------------------------|
| 1. Rear door sash | 2. Rear door outside rear tape | 3. Rear door sash rear tape |
| 4. Rear door striker | 5. Rear door weather strip | 6. Rear door seal |
| 7. Vapor barrier | 8. Rear door lower hinge | 9. Rear door check link |
| 10. Rear door upper hinge | 11. Rear door sash front tape | 12. Rear door outside front tape |
-  Clip

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

INFOID:0000000011218816

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

1. Remove rear door finisher. Refer to [INT-17, "Removal and Installation"](#).
2. Remove rear door vapor barrier.
3. Disconnect the harness connectors from the rear door.
4. Remove harness grommet from rear door then pull out rear door harness from rear door.
5. Remove rear door check link bolt (body side).
6. Remove rear door hinge nuts (door side) and rear door assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts/bolts to specification. Refer to [DLK-278, "Exploded View"](#).
- Apply anticorrosive agent where necessary.
- After installation, check rear door open/close and lock/unlock operation.

REAR DOOR

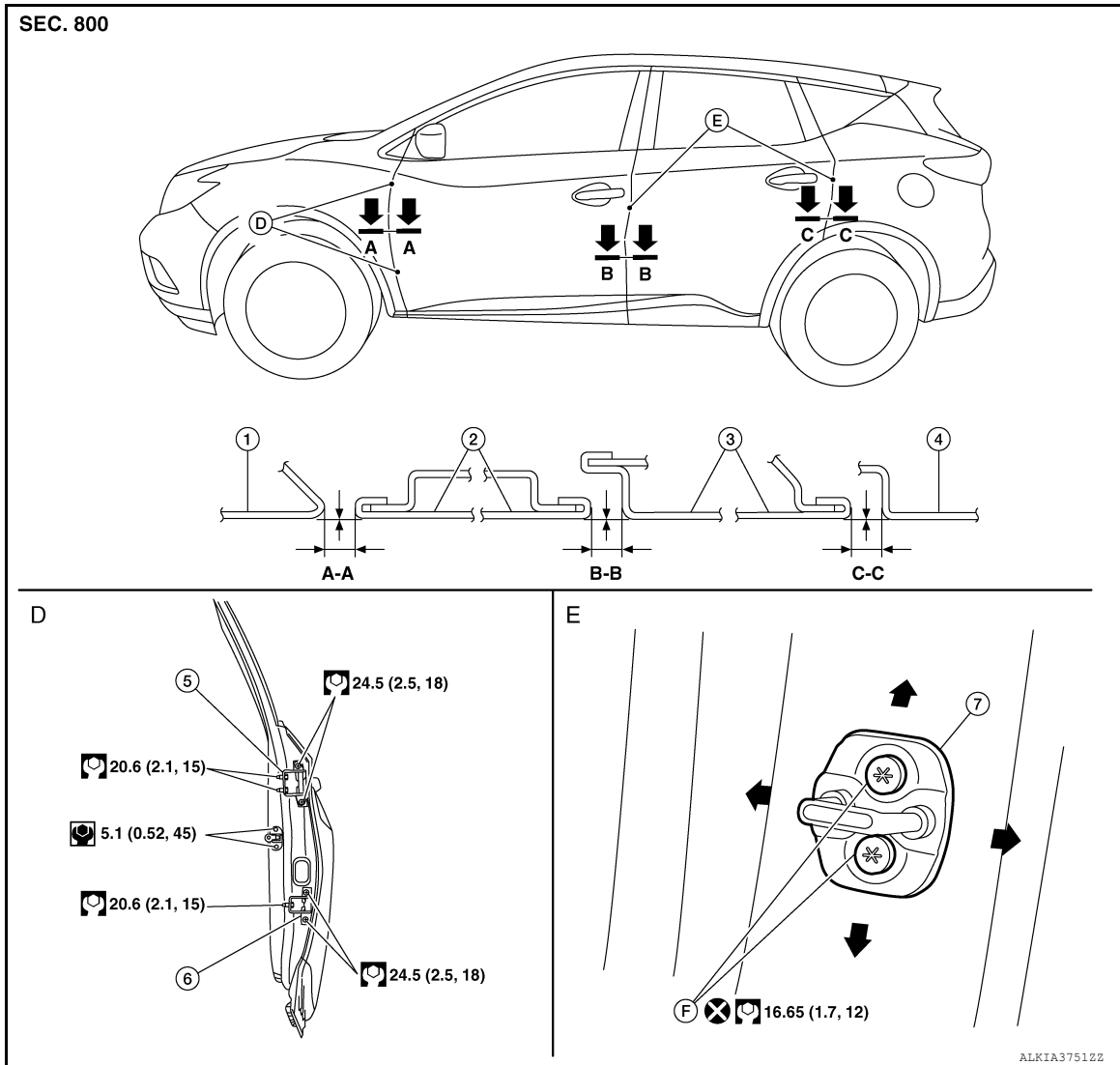
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- After installation, perform rear door adjustment procedure. Refer to [DLK-279, "DOOR ASSEMBLY : Adjustment"](#).

DOOR ASSEMBLY : Adjustment

INFOID:0000000011218817



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	Section	Measurement	Standard
Front fender - Front door	A - A	Clearance	3.5 ± 1.0 (0.14 $\pm$ 0.04)
		Surface height	± 1.0 ($\pm$ 0.04)
Front door - Rear door	B - B	Clearance	4.0 ± 1.0 (0.16 $\pm$ 0.04)
		Surface height	± 1.0 ($\pm$ 0.04)
Rear door - Body side outer	C - C	Clearance	3.2 ± 1.0 (0.13 $\pm$ 0.04)
		Surface height	± 1.0 ($\pm$ 0.04)

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

1. Remove center pillar lower finisher. Refer to [INT-21, "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).
2. Loosen rear door hinge nuts (door side).
3. Adjust surface height of rear door according to specifications provided.
4. Temporarily tighten rear door hinge nuts (door side).
5. Loosen rear door hinge nuts and bolts (body side).
6. Raise rear door at rear end to adjust clearance of rear door according to 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 (body color) to heads of rear door hinge bolts and nuts.
8. Install center pillar lower finisher. Refer to [INT-21, "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:0000000011218818

REMOVAL

Remove bolts and rear door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Do not reuse rear door striker bolts.
- Tighten bolts to specification. Refer to [DLK-278, "Exploded View"](#).
- After installation, check rear door open/close operation. If necessary, adjust door striker. Refer to [DLK-280, "DOOR STRIKER : Adjustment"](#).

DOOR STRIKER : Adjustment

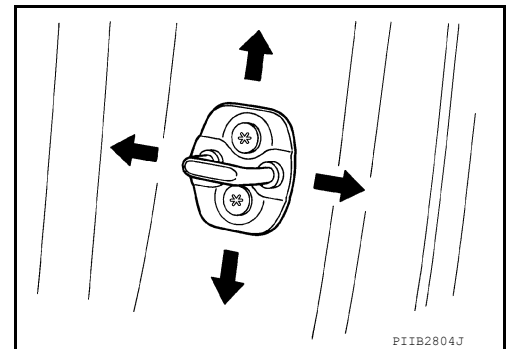
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DOOR STRIKER ADJUSTMENT

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

CAUTION:

Tighten bolts to specification. Refer to [DLK-278, "Exploded View"](#).



DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:0000000011218820

REMOVAL

1. Remove rear door assembly. Refer to [DLK-278, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove center pillar lower finisher (rear door lower hinge only). Refer to [INT-21, "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).
3. Remove rear door hinge bolts and nuts and rear door hinge.

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts/bolts to specification. Refer to [DLK-278, "Exploded View"](#).
- 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-279, "DOOR ASSEMBLY : Adjustment"](#).

DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:0000000011218821

REMOVAL

1. Fully close rear door window.
2. Remove rear door speaker. Refer to [AV-72, "Removal and Installation"](#) [MULTI AV (DISPLAY AUDIO)] or [AV-190, "Removal and Installation"](#) [MULTI AV (NAVIGATION)].
3. Remove rear door check link bolt (body side).
4. Remove rear door check link bolts (door side).
5. Remove rear door check link through hole in rear door panel.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specification. Refer to [DLK-278, "Exploded View"](#).
- After installation, check rear door open/close and lock/unlock operation.
- Check rear door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.

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BACK DOOR

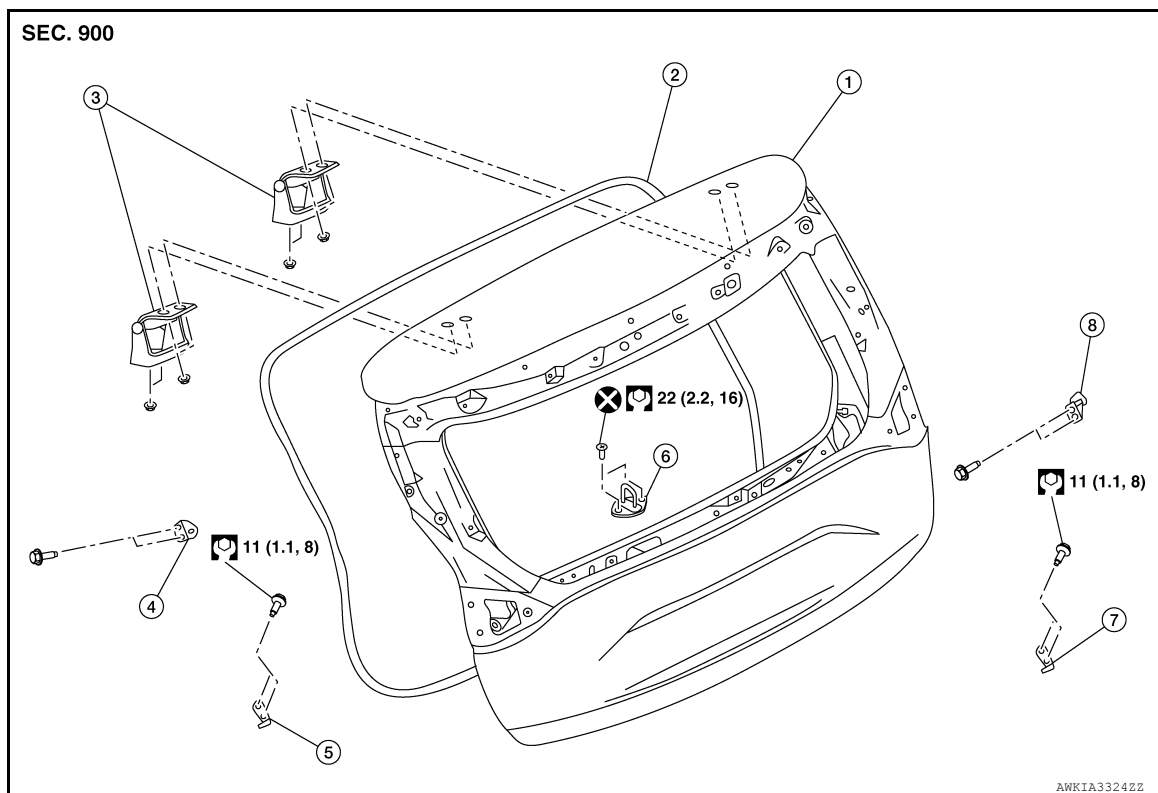
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR

Exploded View

INFOID:000000011218822



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|--|--|----------------------------|
| 1. Back door | 2. Back door weather stripping | 3. Back door hinge (LH/RH) |
| 4. Back door upper stud ball or spindle unit upper hinge (with power back door) (LH) | 5. Back door lower stud ball or spindle unit lower hinge (with power back door) (LH) | 6. Back door striker |
| 7. Back door lower stud ball or spindle unit upper hinge (with power back door) (RH) | 8. Back door upper stud ball or spindle unit lower hinge (with power back door) (RH) | |

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000011218823

CAUTION:

- Use two people when removing or installing back door due to its heavy weight.
- Use shop cloths to protect surrounding components from damage during removal and installation of back door.

REMOVAL

1. Support back door assembly using a suitable tool.

WARNING:

Bodily injury may occur if back door assembly is not supported properly when removing back door spindle unit.

2. Disconnect spindle units (LH/RH) or back door upper stud balls (LH/RH) from back door assembly. Refer to [DLK-297, "SPINDLE UNIT : Removal and Installation"](#) (WITH AUTOMATIC BACK DOOR) or [DLK-298, "BACK DOOR STAY : Removal and Installation"](#) (WITHOUT AUTOMATIC BACK DOOR).
3. Disconnect the harness connectors from the back door.
4. Remove back door harness grommet then pull harness from back door.
5. Disconnect washer tube.

BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

6. Remove washer tube grommet and washer tube from back door.
7. Remove back door hinge bolts (door side) and back door assembly.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specification. Refer to [DLK-282, "Exploded View"](#).
- Apply anticorrosive agent onto surface between hinge and door side.
- When reusing stud ball, always apply locking sealant before installing stud ball to back door.
- After installation, perform back door assembly adjustment procedure. Refer to [DLK-284, "BACK DOOR ASSEMBLY : Adjustment"](#).

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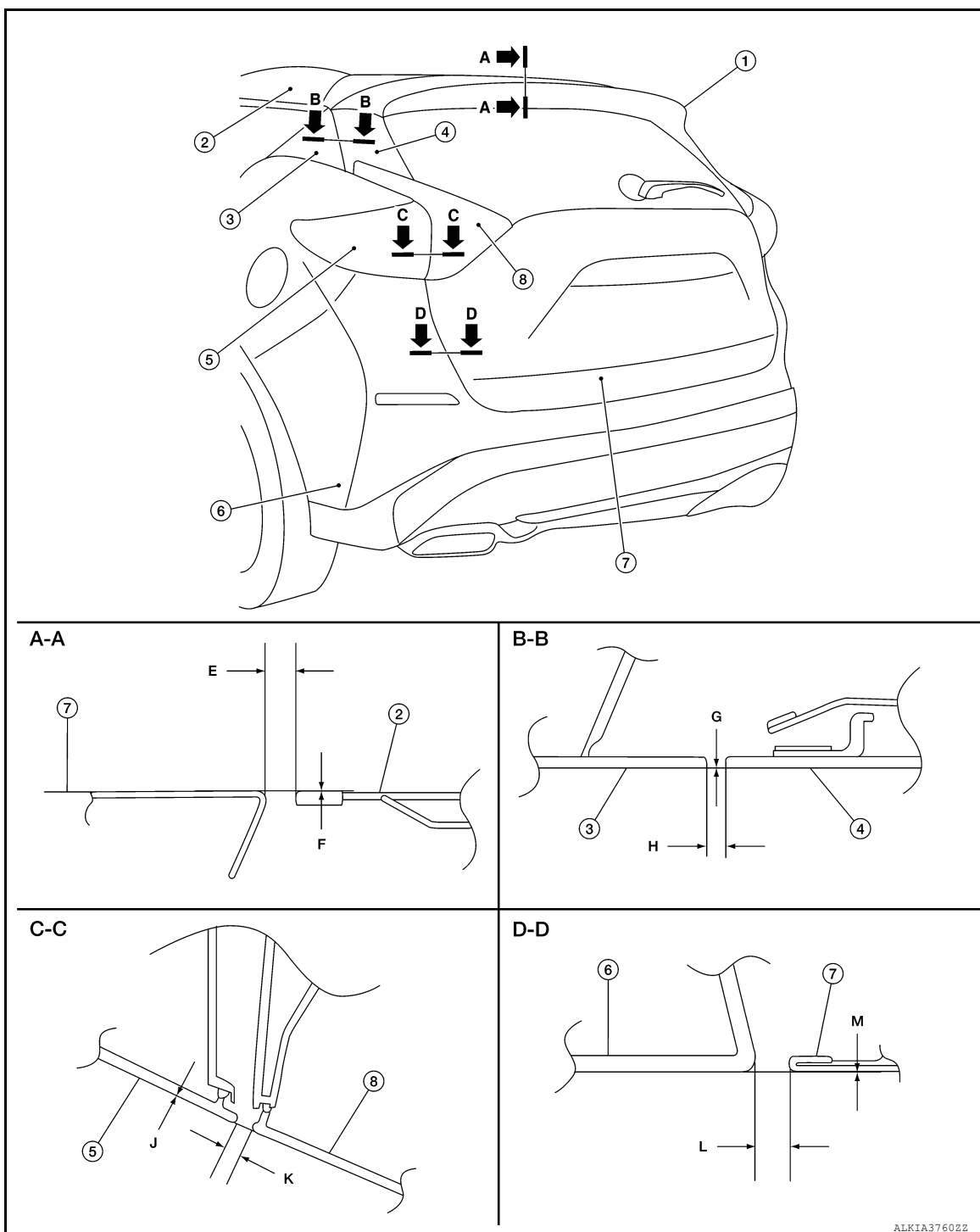
BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR ASSEMBLY : Adjustment

INFOID:000000011218824



- 1. Rear spoiler
- 4. Side air spoiler
- 7. Back door

- 2. Roof
- 5. Rear combination lamp
- 8. Back-up lamp

- 3. Quarter window finisher
- 6. Rear bumper

Check clearance and surface height between back door and each part by visual inspection and tactile feel. If clearance and surface height are out of specification, adjust them according to adjustment procedure.

BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Portion	Section	Item	Measurement	Standard	Parallelism
Spoiler – Roof	A – A	E	Clearance	6.0 ± 1.0 (0.24 $\pm$ 0.04)	1.5 (0.06)
		F	Surface height	0.3 ± 1.0 (0.01 $\pm$ 0.04)	1.5 (0.06)
Quarter window finisher – Side air spoiler	B – B	G	Clearance	3.0 ± 2.4 (0.12 $\pm$ 0.09)	1.9 (0.07)
		H	Surface height	—	—
Rear combination lamp – Back-up lamp	C – C	J	Clearance	5.0 ± 2.0 (0.18 $\pm$ 0.08)	2.0 (0.08)
		K	Surface height	—	—
Rear bumper – Back door	D – D	L	Clearance	6.0 ± 1.9 (0.19 $\pm$ 0.08)	2.0 (0.08)
		M	Surface height	0.5 ± 1.9 (0.02 $\pm$ 0.07)	—

1. Loosen back door hinge nuts (door side).
2. Lift up back door approximately 100 – 150 mm (3.94 – 5.91 in) height then close it lightly and check that it is engaged firmly with back door closed.
3. Check clearance and surface height according to specifications provided.
4. Tighten back door hinge nuts to specified torque.

CAUTION:

- After installation, check back door open/close and lock/unlock operation.
- Check back door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to heads of rear door hinge bolts and nuts.
- Perform calibration of automatic back door position information. Refer to [DLK-116, "Work Procedure"](#).

BACK DOOR STRIKER

BACK DOOR STRIKER : Removal and Installation

INFOID:0000000011218825

REMOVAL

1. Remove back door kicking plate. Refer to [INT-32, "BACK DOOR KICKING PLATE : Removal and Installation"](#).
2. Remove bolts and back door striker.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

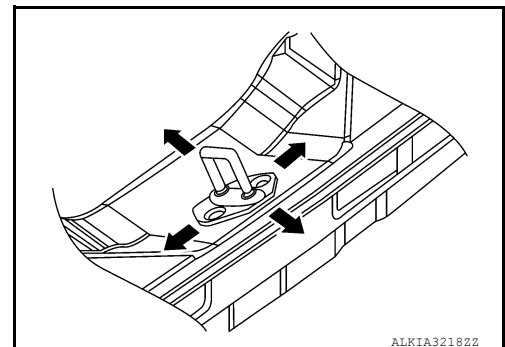
- Do not reuse back door striker bolts.
- Tighten bolts to specification. Refer to [DLK-282, "Exploded View"](#).
- After installation, check back door open/close operation. If necessary, adjust door striker. Refer to [DLK-285, "BACK DOOR STRIKER : Adjustment"](#).

BACK DOOR STRIKER : Adjustment

INFOID:0000000011218826

DOOR STRIKER ADJUSTMENT

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



ALKIA32182Z

3. Tighten door striker bolts to specification. Refer to [DLK-282, "Exploded View"](#).

BACK DOOR HINGE

BACK DOOR HINGE : Removal and Installation

INFOID:0000000011218827

REMOVAL

1. Remove back door assembly. Refer to [DLK-282, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Partially remove rear of headlining. Refer to [INT-27, "Removal and Installation"](#).
3. Remove nuts and back door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten nuts to specification. Refer to [DLK-282, "Exploded View"](#).
- Apply anticorrosive agent onto surface between hinge and body side.
- After installation, perform back door assembly adjustment procedure. Refer to [DLK-284, "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000011218828

REMOVAL

Carefully remove back door weather-strip from opening door joint.

INSTALLATION

1. Beginning with upper section, align weather-strip mark with vehicle center position mark and install weather-strip to vehicle.
2. For lower section, align weather-strip seam with center of back door striker.

NOTE:

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

HOOD LOCK

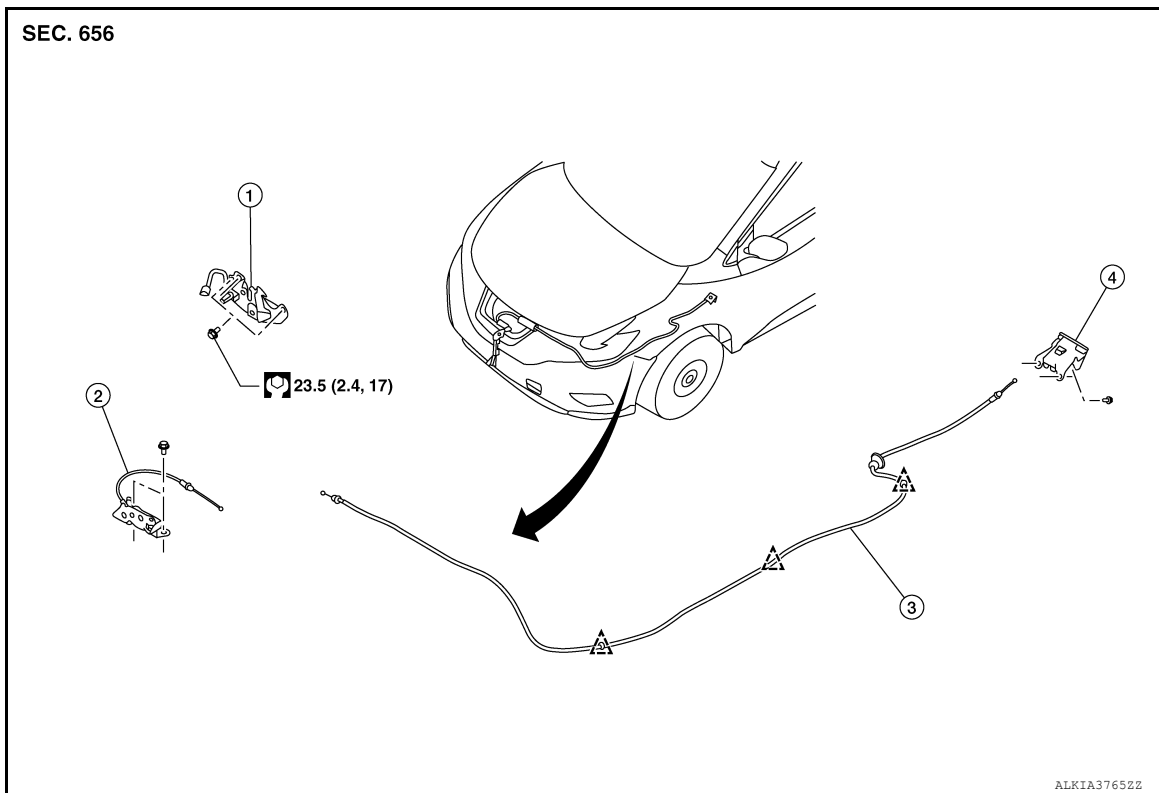
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

HOOD LOCK

Exploded View

INFOID:0000000011218829



- | | | |
|-----------------------------|--|----------------------------|
| 1. Hood lock | 2. Secondary latch | 3. Hood lock release cable |
| 4. Hood lock release handle |  Clip | |

HOOD LOCK

HOOD LOCK : Removal and Installation

INFOID:0000000011218830

REMOVAL

1. Remove core support cover. Refer to [EXT-30, "Exploded View"](#).
2. Disconnect hood lock release cable and secondary latch cable from hood lock.
3. Remove bolts, disconnect the harness connector and remove hood lock.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specified torque. Refer to [DLK-287, "Exploded View"](#).
- Check that hood lock release cable and secondary latch cable are properly engaged with hood lock.
- After installation, perform hood assembly adjustment procedure. Refer to [DLK-266, "HOOD ASSEMBLY : Adjustment"](#).
- After adjusting, perform hood lock inspection. Refer to [DLK-287, "HOOD LOCK : Inspection"](#).

HOOD LOCK : Inspection

INFOID:0000000011218831

NOTE:

If hood lock 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 assembly is raised by approximately 20.0 mm (0.79 in). Also check that hood lock release handle returns to original position.

HOOD LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

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 assembly.

SECONDARY LATCH

SECONDARY LATCH : Removal and Installation

INFOID:0000000011218832

REMOVAL

1. Remove front grille. Refer to [EXT-30, "Removal and Installation"](#).
2. Disconnect secondary latch cable from hood lock assembly.
3. Remove bolts and secondary latch.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specified torque. Refer to [DLK-287, "Exploded View"](#).
- Check that secondary latch cable is properly engaged with hood lock.

HOOD LOCK RELEASE CABLE

HOOD LOCK RELEASE CABLE : Removal and Installation

INFOID:0000000011218833

REMOVAL

1. Remove fender protector (LH). Refer to [EXT-36, "FENDER PROTECTOR : Removal and Installation"](#).
2. Remove front grille. Refer to [EXT-30, "Removal and Installation"](#).
3. Disconnect hood lock release cable from hood lock release handle and hood lock.
4. Release hood lock release cable clips using a suitable tool.
5. Remove grommet on lower dash and carefully pull hood lock release cable into passenger compartment.

CAUTION:

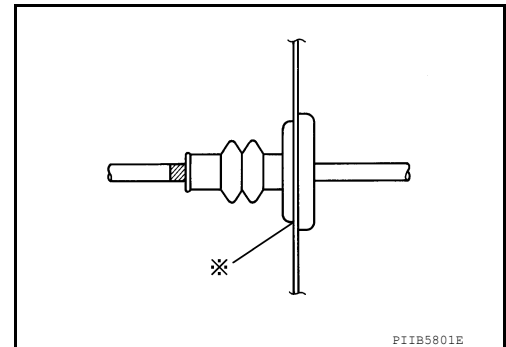
While pulling, be careful not to damage (peel) outside of hood lock release cable.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Be careful not to bend cable too much, keep radius 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-266, "HOOD ASSEMBLY : Adjustment"](#).
- After adjusting, perform hood lock inspection. Refer to [DLK-287, "HOOD LOCK : Inspection"](#).

HOOD LOCK RELEASE HANDLE

HOOD LOCK

< REMOVAL AND INSTALLATION >

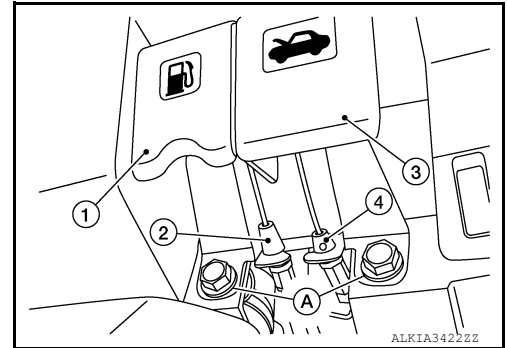
[WITH INTELLIGENT KEY SYSTEM]

HOOD LOCK RELEASE HANDLE : Removal and Installation

INFOID:0000000011218834

REMOVAL

1. Remove fuel filler lid/hood lock release handle bolts (A).
2. Disconnect fuel filler lid release cable (2) from fuel filler lid release handle (1).
3. Disconnect hood lock release cable (4) from hood lock release handle (3).
4. Remove hood lock release handle.



INSTALLATION

Installation is in the reverse order of removal.

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DLK

FRONT DOOR LOCK

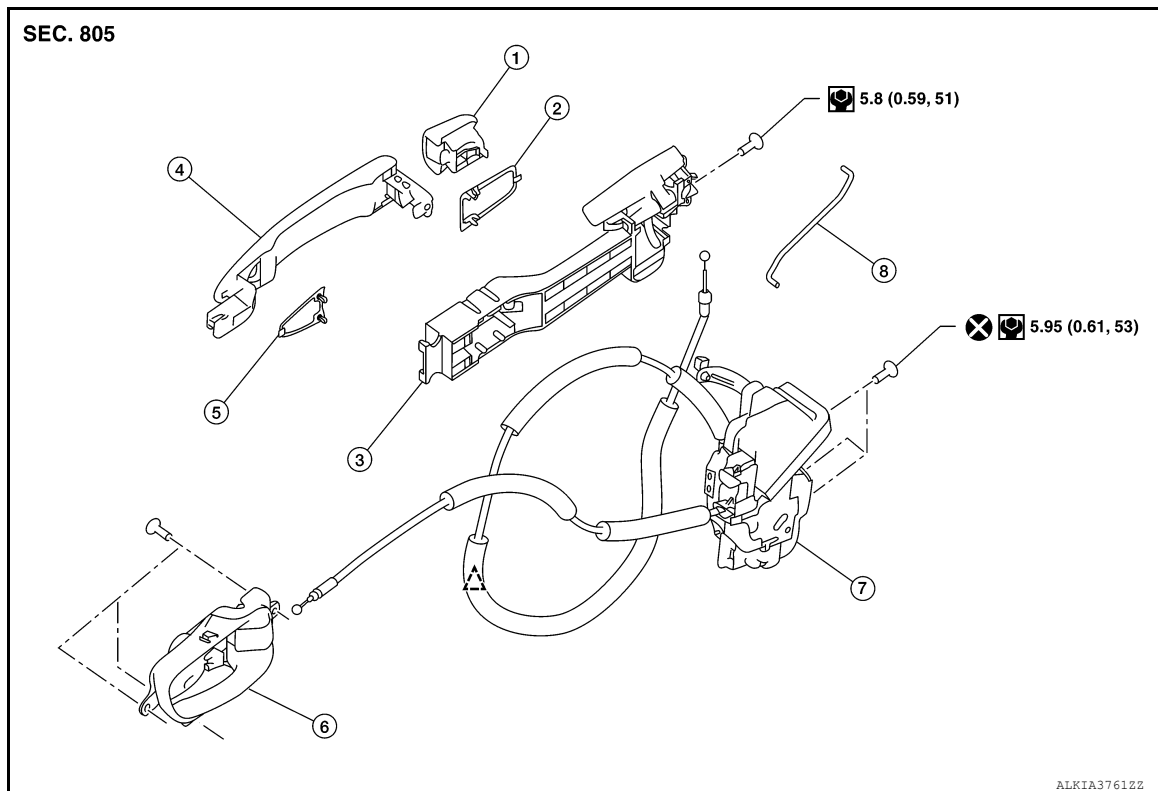
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

FRONT DOOR LOCK

Exploded View

INFOID:0000000011218835



- | | | |
|--|--------------------------|---------------------------|
| 1. Outside handle escutcheon/door key cylinder (LH only) | 2. Rear gasket | 3. Outside handle bracket |
| 4. Outside handle | 5. Front gasket | 6. Inside handle |
| 7. Front door lock | 8. Door key cylinder rod | △ Clip |

DOOR LOCK

DOOR LOCK : Removal and Installation

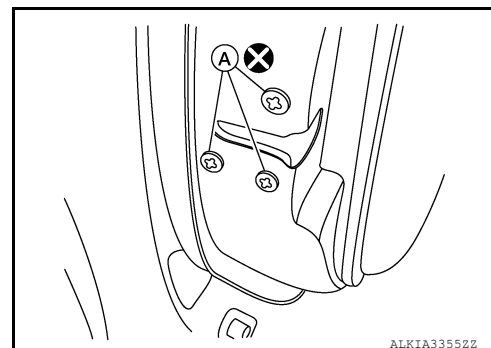
INFOID:0000000011218836

REMOVAL

1. Remove front door finisher. Refer to [INT-15, "Removal and Installation"](#).
2. Remove vapor barrier.
3. Remove front door lock bolts (A).

CAUTION:

Do not reuse front door lock bolts.

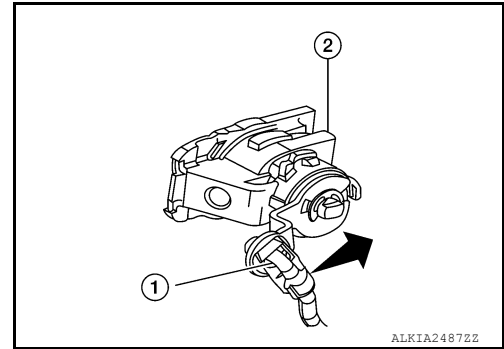


FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

4. Disconnect door key cylinder rod (LH only) (1) from front door lock (2) (LH only).



5. Disconnect door lock cables from inside handle and outside handle.
6. Disconnect the harness connector from the front door lock and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Do not reuse front door lock bolts.
- Tighten bolts to specification. Refer to [DLK-290, "Exploded View"](#).
- 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.

INSIDE HANDLE

INSIDE HANDLE : Removal and Installation

INFOID:0000000011218837

REMOVAL

1. Remove front door finisher. Refer to [INT-15, "Removal and Installation"](#).
2. Remove inside handle bolt.
3. Disconnect the door lock cables and remove the inside handle.

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:0000000011218838

REMOVAL

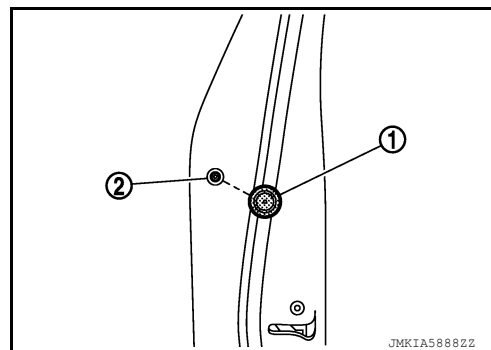
1. Fully close front door glass.
2. Remove front door finisher. Refer to [INT-15, "Removal and Installation"](#).
3. Remove front door vapor barrier.

FRONT DOOR LOCK

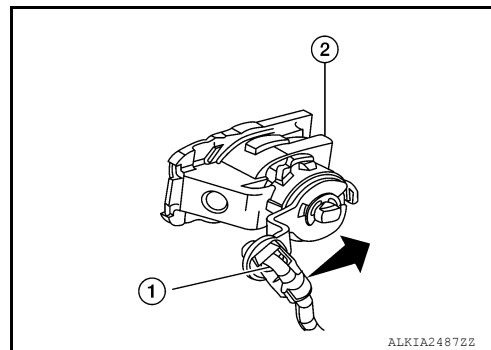
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

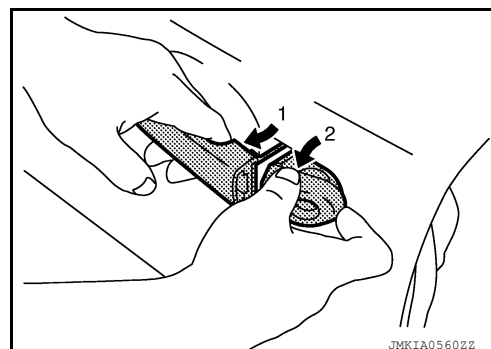
4. Remove door side grommet (1), and remove bolt from grommet hole (2).



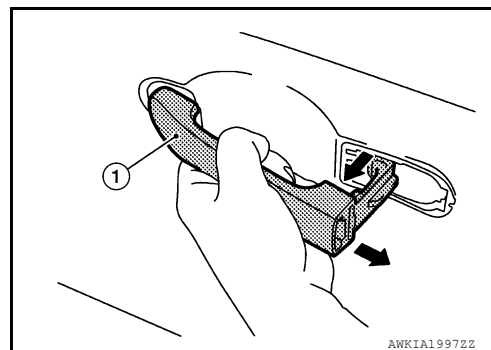
5. Separate door key cylinder rod (LH only) (1) from door key cylinder assembly (LH only) (2).



6. While pulling (1) outside handle, remove (2) door key cylinder assembly (LH side) or outside handle escutcheon (RH side).



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



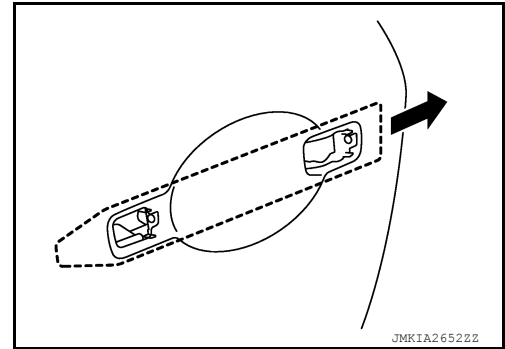
8. Remove front gasket and rear gasket.

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

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



10. Disconnect outside handle cable from outside handle bracket and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When installing door key cylinder rod (LH only), be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check that door lock cable is properly engaged to outside handle bracket.
- After installation, check door open/close and lock/unlock operation.

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REAR DOOR LOCK

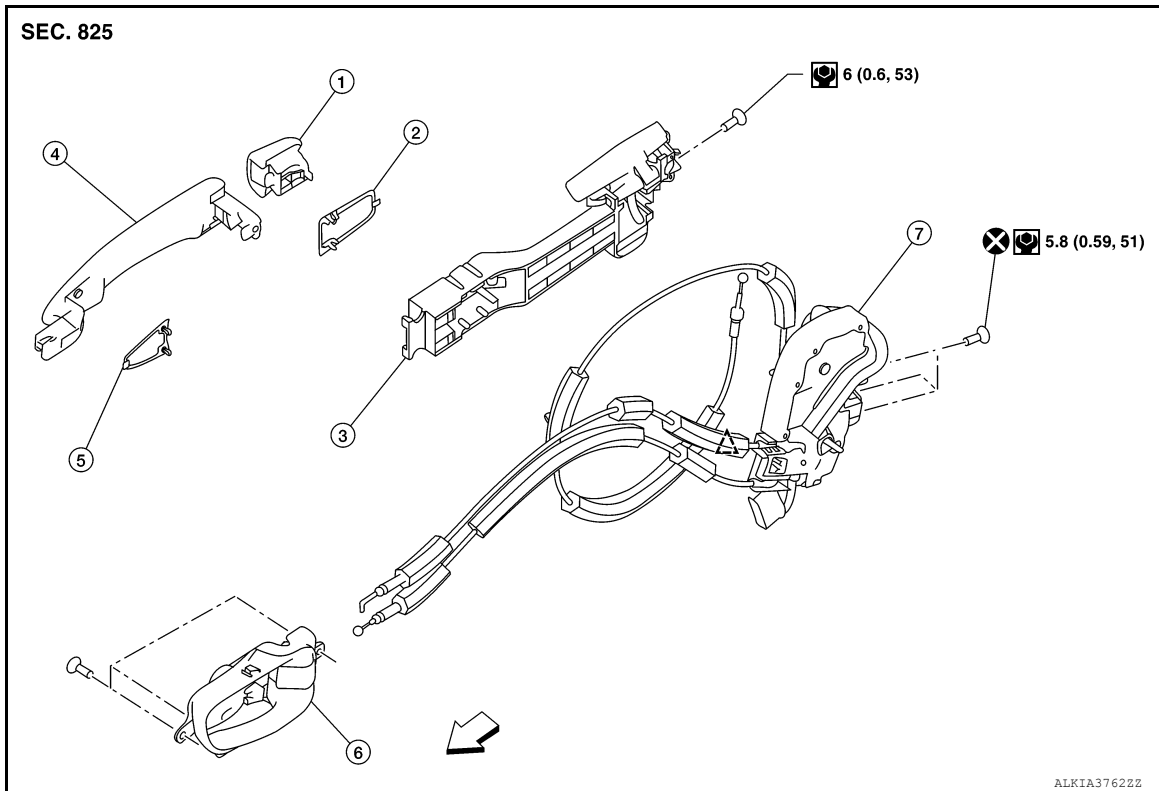
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REAR DOOR LOCK

Exploded View

INFOID:0000000011218839



- | | | |
|------------------------------|-----------------|---------------------------|
| 1. Outside handle escutcheon | 2. Rear gasket | 3. Outside handle bracket |
| 4. Outside handle | 5. Front gasket | 6. Inside door handle |
| 7. Rear door lock | ↩ Front | △ Clip |

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:0000000011218840

REMOVAL

1. Remove rear door finisher. Refer to [INT-17, "Removal and Installation"](#).
2. Remove vapor barrier.
3. Remove rear door lock bolts.
4. Disconnect door lock cables.
5. Disconnect the harness connector from the rear door lock and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Do not reuse rear door lock bolts.
- Tighten bolts to specification. Refer to [DLK-294, "Exploded View"](#).
- 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

REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INSIDE HANDLE : Removal and Installation

INFOID:0000000011218841

REMOVAL

1. Remove rear door finisher. Refer to [INT-17, "Removal and Installation"](#).
2. Remove inside handle screws.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

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

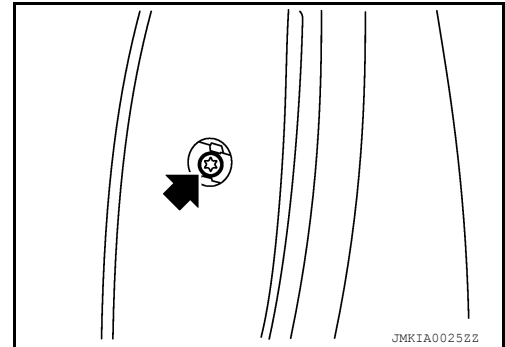
OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

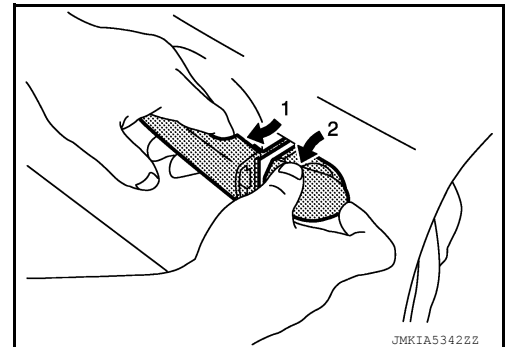
INFOID:0000000011218842

REMOVAL

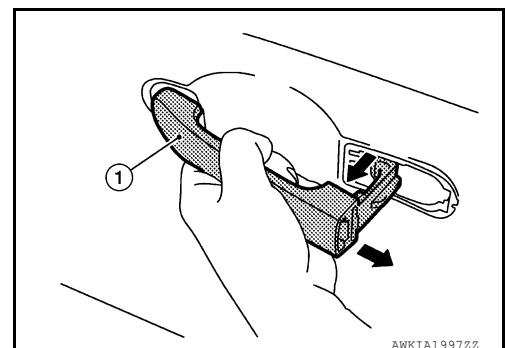
1. Fully close rear door glass.
2. Remove rear door finisher. Refer to [INT-17, "Removal and Installation"](#).
3. Remove rear door vapor barrier.
4. Remove door side grommet and bolt from grommet hole.



5. While pulling (1) outside handle, remove (2) outside handle escutcheon.



6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



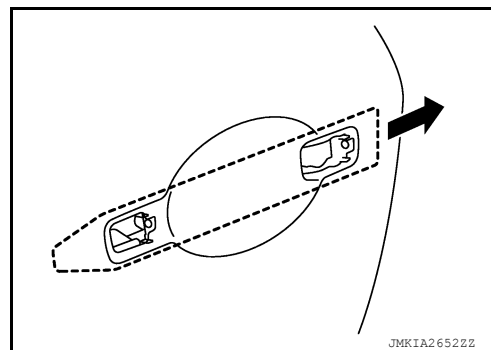
7. Remove front gasket and rear gasket.

REAR DOOR LOCK

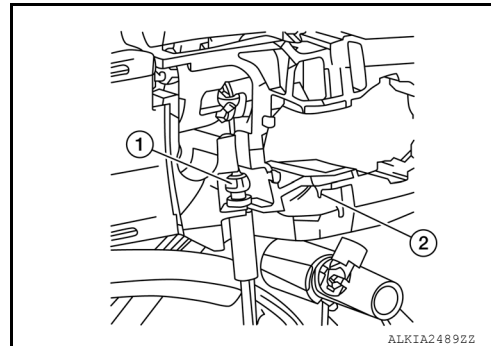
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

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



9. Disconnect outside handle cable from outside handle bracket.



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.

BACK DOOR LOCK

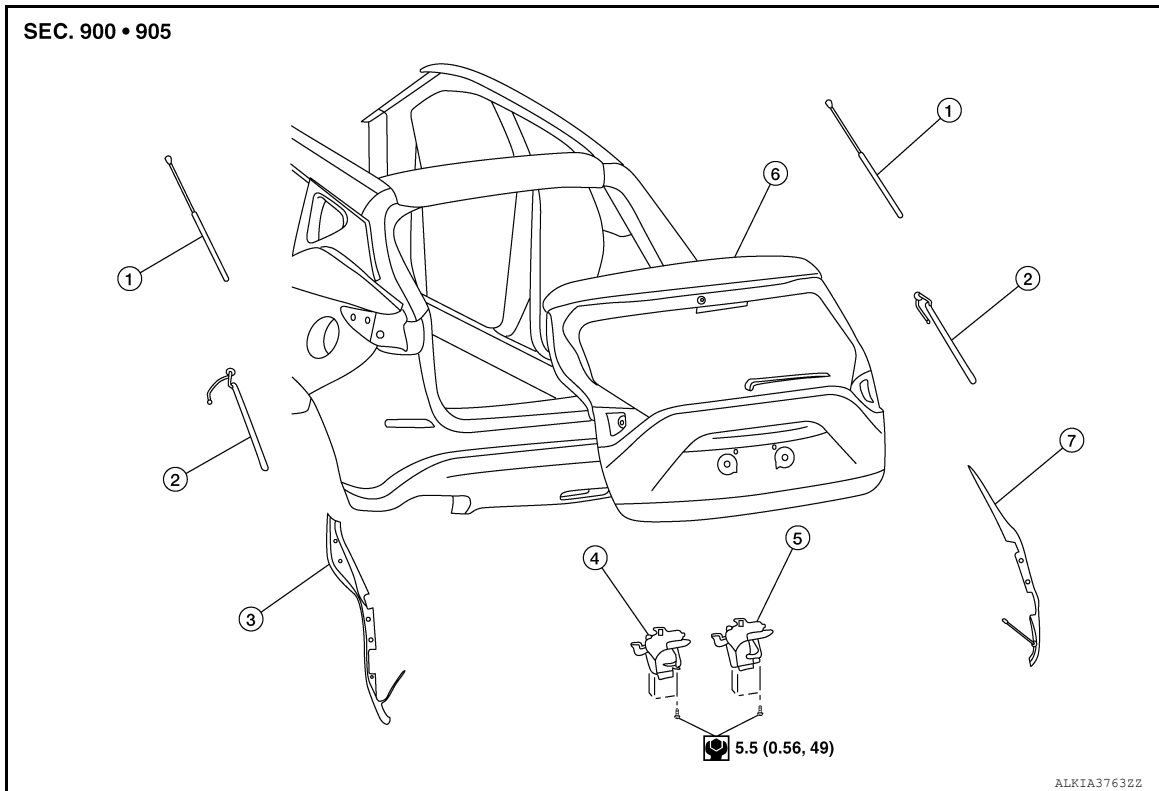
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR LOCK

Exploded View

INFOID:0000000011218843



- | | | |
|---|---|---|
| 1. Back door stay [(LH/RH) (without automatic back door)] | 2. Spindle unit [(LH/RH) (with automatic back door)] | 3. Back door touch sensor [(LH) (with automatic back door)] |
| 4. Back door lock | 5. Back door lock assembly (with automatic back door) | 6. Back door |
| 7. Back door touch sensor [(RH) (with automatic back door)] | | |

DLK

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:0000000011218844

REMOVAL

1. Remove back door lower finisher. Refer to [INT-34, "BACK DOOR LOWER FINISHER : Removal and Installation"](#).
2. Disconnect the harness connector from the back door lock.
3. Remove bolts and back door lock.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Tighten bolts to specification. Refer to [DLK-297, "Exploded View"](#).
- After installation, check back door open/close and lock/unlock operation.

SPINDLE UNIT

SPINDLE UNIT : Removal and Installation

INFOID:0000000011218845

REMOVAL

1. Support back door using a suitable tool.

BACK DOOR LOCK

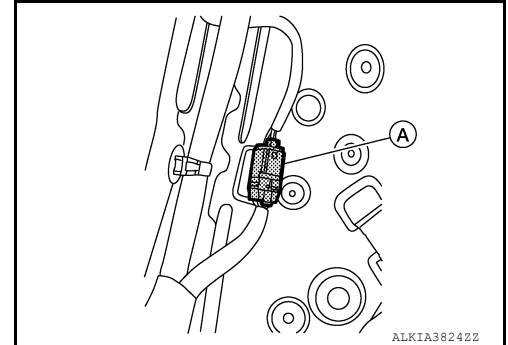
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

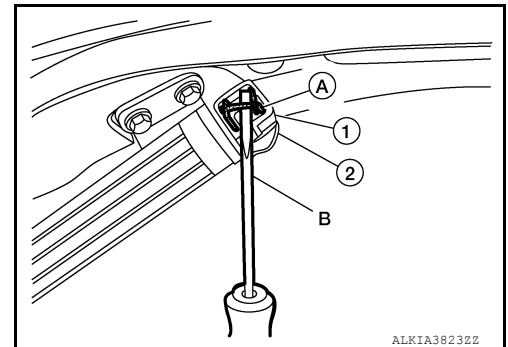
WARNING:

Bodily injury may occur if back door is not supported properly when removing back door spindle unit.

2. Remove luggage side upper finisher. Refer to [INT-31, "LUGGAGE SIDE UPPER FINISHER : Removal and Installation"](#).
3. Disconnect the harness connector (A) from the spindle unit.



4. Remove metal clip (A) from spindle unit upper hinge ball socket (1) using a suitable tool (B) and release spindle unit from spindle unit upper hinge (2).



5. Remove metal clip from spindle unit lower hinge ball socket using a suitable tool and release spindle unit.
6. Pull harness through vehicle body and remove spindle unit.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When reusing stud ball, always apply locking sealant before installing stud ball to back door.
- After installation, check back door open/close and lock/unlock operation.
- Perform calibration of automatic back door position information. Refer to [DLK-116, "Work Procedure"](#).

BACK DOOR STAY

BACK DOOR STAY : Removal and Installation

INFOID:0000000011218846

REMOVAL

1. Support back door using a suitable tool.

WARNING:

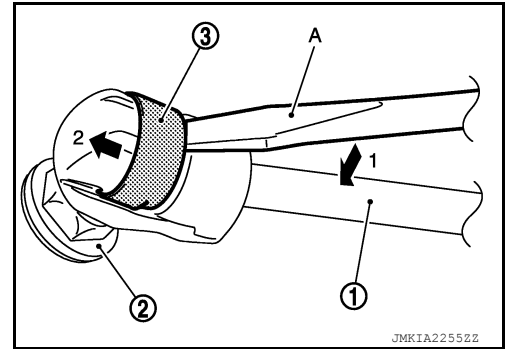
Bodily injury may occur if no supporting rod is holding back door open when removing back door stay.

BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

2. Release metal clip (3) located on connection between back door stay (1) and stud ball (back door side) (2) using a suitable tool (A).
3. Remove back door stay (back door side).



4. Repeat procedure for removing back door stay from body side.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check back door open/close operation.

BACK DOOR TOUCH SENSOR

BACK DOOR TOUCH SENSOR : Removal and Installation

INFOID:0000000011218847

CAUTION:

Use care not to bend touch sensor.

REMOVAL

1. Release touch sensor clips using a suitable tool.
2. Disconnect the harness connector from the touch sensor and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check back door open/close and lock/unlock operation.

EMERGENCY LEVER

EMERGENCY LEVER : Unlock Procedure

INFOID:0000000011218848

UNLOCK PROCEDURE

NOTE:

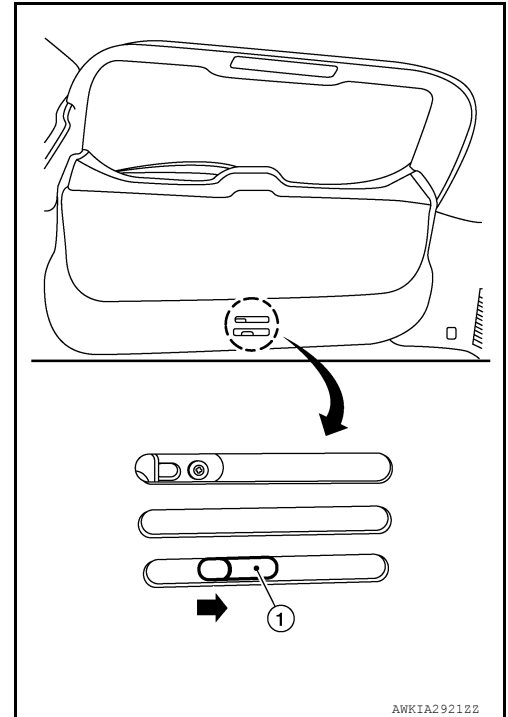
If back door lock cannot be unlocked due to a malfunction or battery discharge, perform unlock procedure to unlock back door assembly.

BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- From inside vehicle, rotate emergency lever (1) in direction shown to unlock.



FUEL FILLER LID OPENER

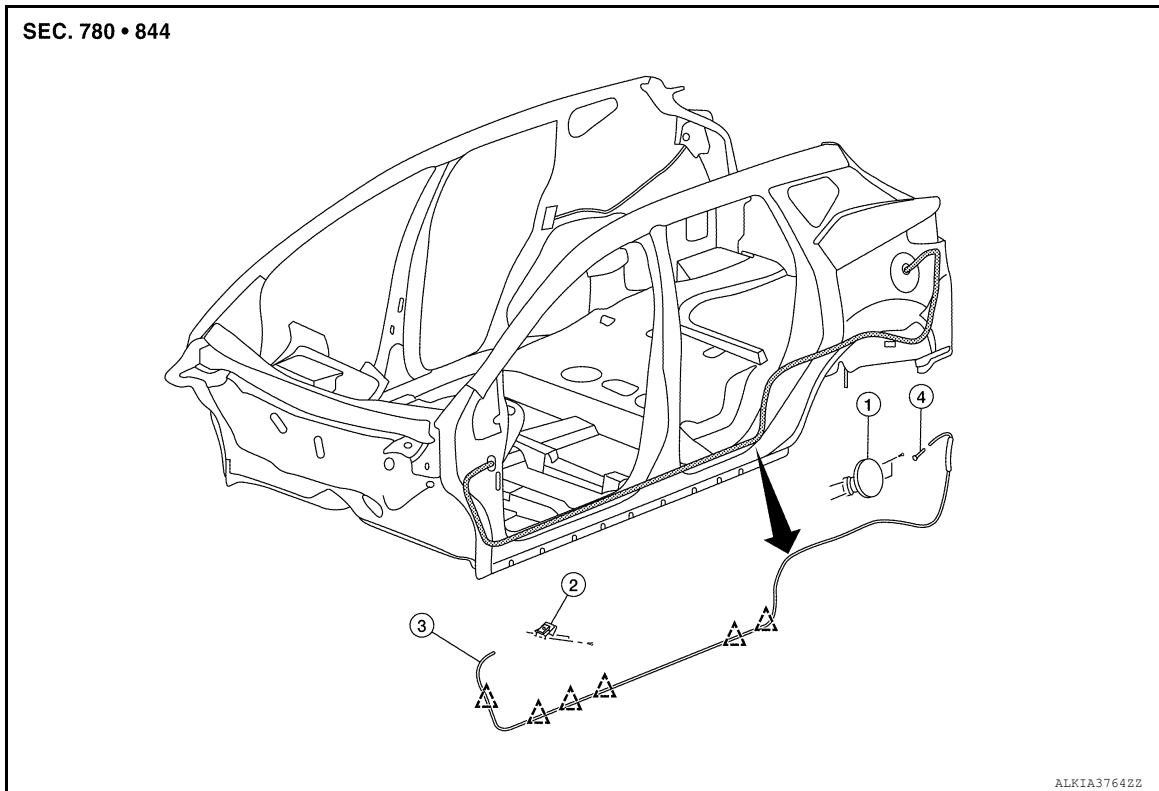
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

FUEL FILLER LID OPENER

Exploded View

INFOID:0000000011218849



FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

INFOID:0000000011218850

REMOVAL

1. Remove fuel cap pin.
2. Remove screws and fuel filler lid.
3. Remove fuel filler lid spring and bumper rubber from fuel filler lid (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid open/close and lock/unlock operation.

FUEL FILLER LID LOCK

FUEL FILLER LID LOCK : Removal and Installation

INFOID:0000000011218851

REMOVAL

1. Remove luggage side lower finisher (LH). Refer to [SE-140, "Removal and Installation"](#).
2. Disconnect the fuel filler lid release cable from the fuel filler lid lock.
3. Rotate fuel filler lid lock to release pawls and remove.

INSTALLATION

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FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid open/close and lock/unlock operation.

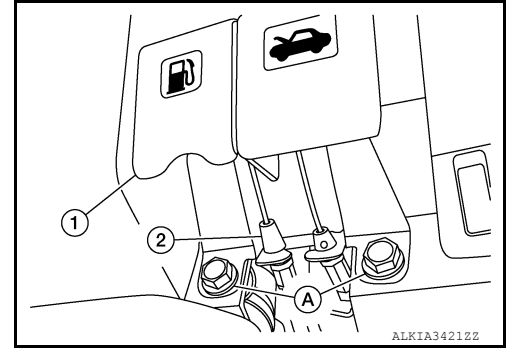
FUEL FILLER LID RELEASE CABLE

FUEL FILLER LID RELEASE CABLE : Removal and Installation

INFOID:000000011218852

REMOVAL

1. Partially remove front floor trim (LH). Refer to [INT-25. "Exploded View"](#).
2. Remove fuel filler lid/hood lock release handle bolts (A).
3. Disconnect the fuel filler lid release cable (2) from the fuel filler lid release handle (1).



4. Disconnect the fuel filler lid release cable from the fuel filler lid lock.
5. Release clips and remove fuel filler lid release cable.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid open/close and lock/unlock operation.

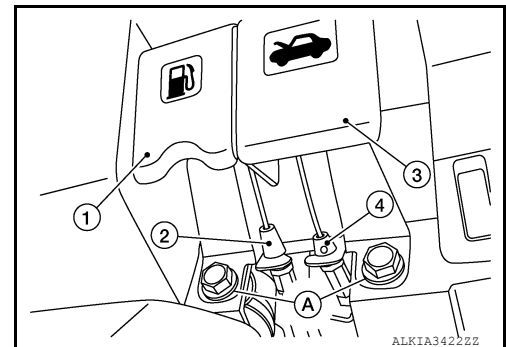
FUEL FILLER LID RELEASE HANDLE

FUEL FILLER LID RELEASE HANDLE : Removal and Installation

INFOID:000000011218853

REMOVAL

1. Remove fuel filler lid/hood lock release handle bolts (A).
2. Disconnect fuel filler lid release cable (2) from fuel filler lid release handle (1).
3. Disconnect hood lock release cable (4) from hood lock release handle (3).
4. Remove fuel filler lid release handle.



INSTALLATION

Installation is in the reverse order of removal.

DOOR SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

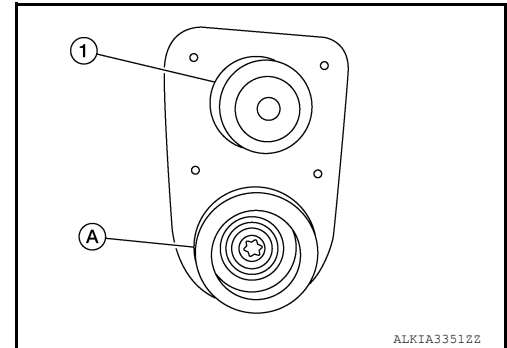
DOOR SWITCH

Removal and Installation

INFOID:0000000011218854

REMOVAL

1. Remove door switch bolt (A).
2. Disconnect the harness connector from the door switch (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

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DOOR REQUEST SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Removal and Installation

INFOID:0000000011218855

The driver side door request switch and driver side outside handle are serviced as an assembly. Refer to [DLK-291, "OUTSIDE HANDLE : Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Removal and Installation

INFOID:0000000011218856

The passenger side door request switch and passenger side outside handle are serviced as an assembly. Refer to [DLK-291, "OUTSIDE HANDLE : Removal and Installation"](#).

BACK DOOR

BACK DOOR : Removal and Installation

INFOID:0000000011218857

REMOVAL

1. Remove back door outer finisher. Refer to [EXT-53, "Removal and Installation"](#).
2. Disconnect the harness connector from the back door request switch.
3. Release pawls and remove back door request switch.

INSTALLATION

Installation is in the reverse order of removal.

INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INSIDE KEY ANTENNA INSTRUMENT CENTER

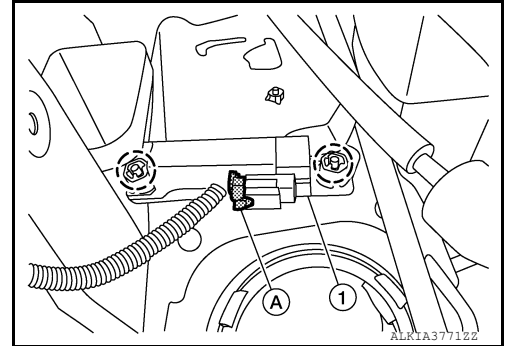
INSTRUMENT CENTER : Removal and Installation

INFOID:0000000011218858

REMOVAL

1. Remove shift selector finisher. Refer to [JP-15. "Exploded View"](#).
2. Disconnect the harness connector (A) from the inside key antenna (instrument center) (1).
3. Release pawls using a suitable tool and remove inside key antenna (instrument center).

(○): Pawl



INSTALLATION

Installation is in the reverse order of removal.

CONSOLE

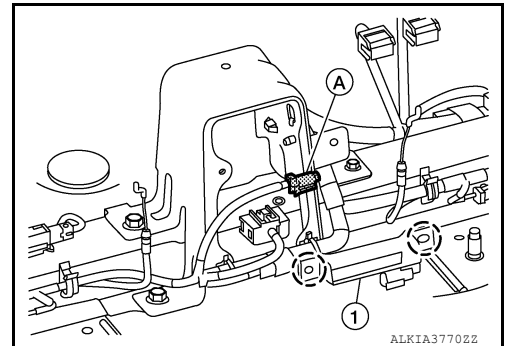
CONSOLE : Removal and Installation

INFOID:0000000011218859

REMOVAL

1. Remove center console rear finisher. Refer to [SE-140. "Removal and Installation"](#).
2. Disconnect the harness connector (A) from the inside key antenna (console) (1).
3. Release pawls using a suitable tool and remove inside key antenna (console).

(○): Pawl



INSTALLATION

Installation is in the reverse order of removal.

LUGGAGE ROOM

LUGGAGE ROOM : Removal and Installation

INFOID:0000000011573889

REMOVAL

1. Fold second row seatback (LH) flat.
2. Disconnect the harness connector from the inside key antenna (luggage).
3. Release clips using a suitable tool and remove inside key antenna (luggage).

INSTALLATION

Installation is in the reverse order of removal.

OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Removal and Installation

INFOID:0000000011218860

The driver side outside key antenna and driver side outside handle are serviced as an assembly. Refer to [DLK-291, "OUTSIDE HANDLE : Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Removal and Installation

INFOID:0000000011218861

The passenger side outside key antenna and passenger side outside handle are serviced as an assembly. Refer to [DLK-291, "OUTSIDE HANDLE : Removal and Installation"](#).

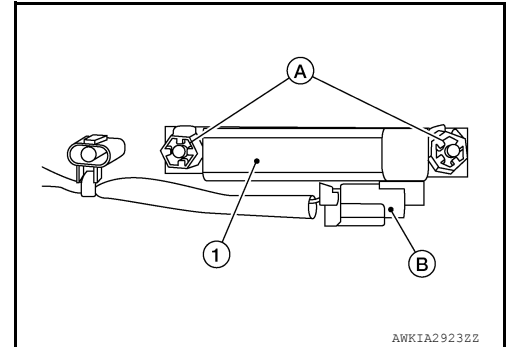
REAR BUMPER

REAR BUMPER : Removal and Installation

INFOID:0000000011218862

REMOVAL

1. Remove rear bumper fascia. Refer to [EXT-27, "Removal and Installation"](#).
2. Disconnect the harness connector (B) from the outside key antenna (rear bumper).
3. Release clips (A) and remove outside key antenna (1).



INSTALLATION

Installation is in the reverse order of removal.

INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

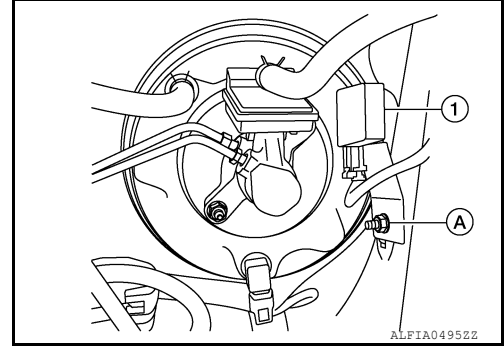
INTELLIGENT KEY WARNING BUZZER

Removal and Installation

INFOID:0000000011218863

REMOVAL

1. Remove air cleaner and air duct. Refer to [EM-26. "Removal and Installation"](#)
2. Disconnect the harness connector from the Intelligent Key warning buzzer (1).
3. Remove bolt (A) and Intelligent Key warning buzzer.



INSTALLATION

Installation is in the reverse order of removal.

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DLK

BACK DOOR WARNING CHIME

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR WARNING CHIME

Removal and Installation

INFOID:0000000011218864

REMOVAL

1. Remove rear bumper fascia. Refer to [EXT-27. "Removal and Installation"](#).
2. Disconnect the harness connector from the back door warning chime.
3. Remove nuts and back door warning chime.

INSTALLATION

Installation is in the reverse order of removal.

REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

INFOID:0000000011568150

REMOVAL

1. Remove glove box assembly. Refer to [IP-25. "Removal and Installation"](#).
2. Remove remote keyless entry receiver bolt.
3. Disconnect the harness connector from the remote keyless entry receiver and remove.

INSTALLATION

Installation is in the reverse order of removal.

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INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY BATTERY

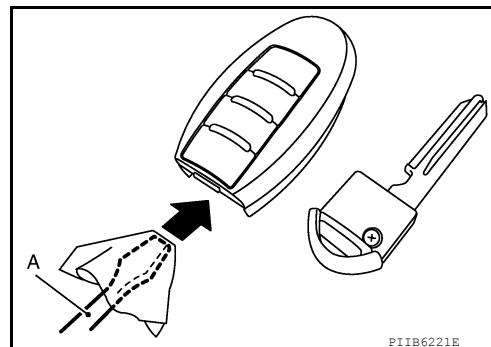
Removal and Installation

INFOID:000000011218865

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.

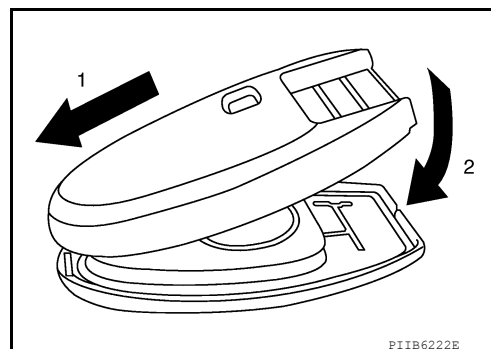
Battery replacement

: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.



AUTOMATIC BACK DOOR CONTROL MODULE

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR CONTROL MODULE

Removal and Installation

INFOID:0000000011218866

REMOVAL

NOTE:

Before replacing automatic back door control module, perform "Before Replace ECU" of "Read / Write Configuration" to save or print current vehicle specification. Refer to [DLK-114, "Description"](#).

1. Remove luggage side lower finisher (LH). Refer to [INT-31, "LUGGAGE SIDE UPPER FINISHER : Removal and Installation"](#).
2. Disconnect the harness connectors from the automatic back door control module.
3. Remove nuts and automatic back door control module.

INSTALLATION

CAUTION:

Be sure to perform "After Replace ECU" of "Read / Write Configuration" or "Manual Configuration" when replacing automatic back door control module. Refer to [DLK-114, "Work Procedure"](#).

Installation is in the reverse order of removal.

CAUTION:

Perform calibration of automatic back door position information. Refer to [DLK-114, "Work Procedure"](#).

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DLK

AUTOMATIC BACK DOOR MAIN SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR MAIN SWITCH

Removal and Installation

INFOID:0000000011218867

REMOVAL

1. Remove glove box assembly. Refer to [IP-25. "Removal and Installation"](#).
2. Release pawls using a suitable tool and remove automatic back door main switch.

INSTALLATION

Installation is in the reverse order of removal.

AUTOMATIC BACK DOOR SWITCH

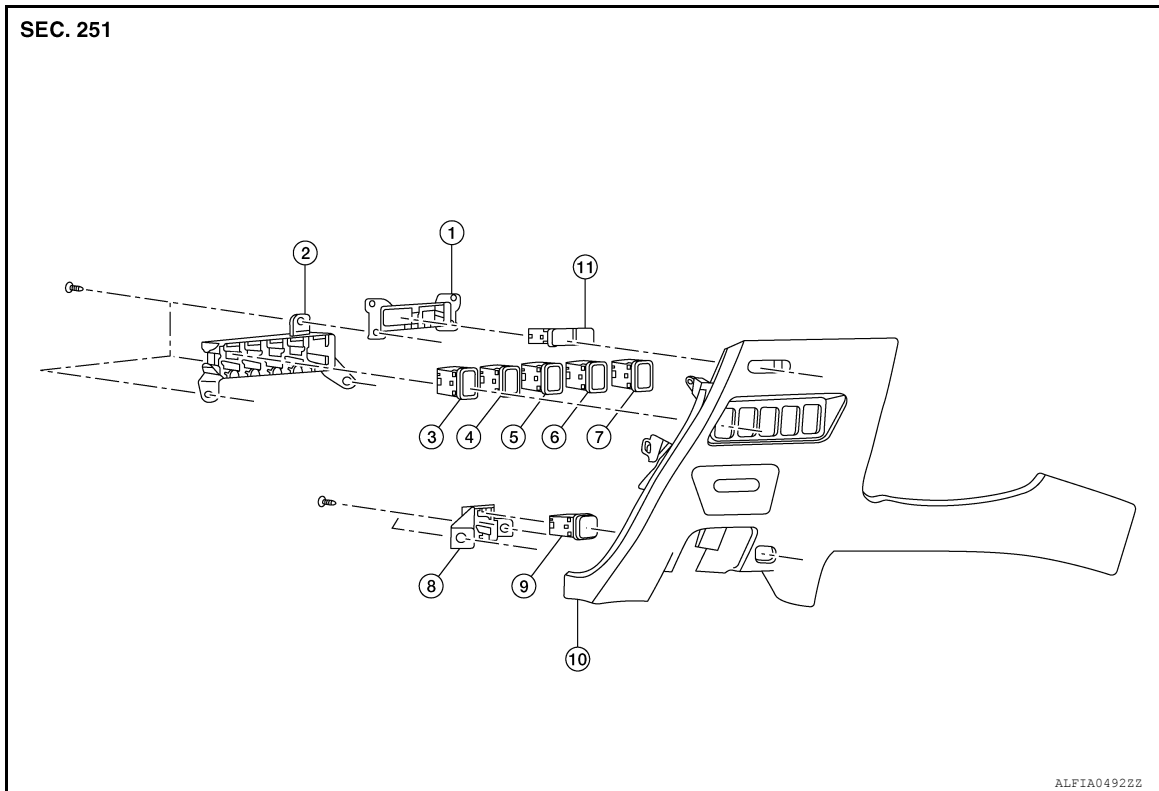
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SWITCH

Exploded View

INFOID:0000000011569120



- | | | |
|-------------------------------|---------------------------------|---------------------------------|
| 1. Upper switch carrier | 2. Middle switch carrier | 3. VDC OFF switch |
| 4. Mask | 5. Automatic back door switch | 6. Heated steering wheel switch |
| 7. Warning system switch | 8. Lower switch carrier | 9. Front power return switch |
| 10. Instrument lower panel LH | 11. Illumination control switch | |

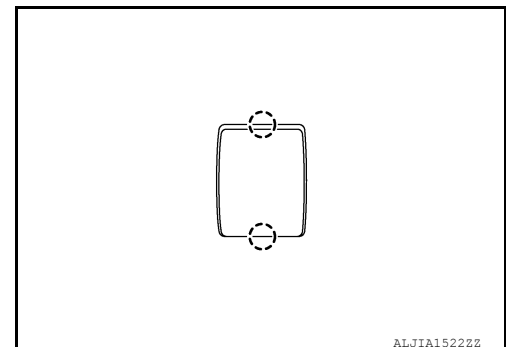
Removal and Installation

INFOID:0000000011218868

REMOVAL

1. Remove instrument lower panel LH. Refer to [IP-24, "Removal and Installation"](#).
2. Remove screws and middle switch carrier from instrument lower panel LH.
3. Release pawls using a suitable tool and remove automatic back door switch from middle switch carrier.

(○): Pawl



INSTALLATION

Installation is in the reverse order of removal.

AUTOMATIC BACK DOOR CLOSE SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

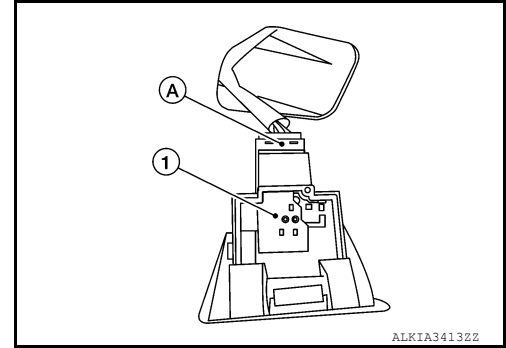
AUTOMATIC BACK DOOR CLOSE SWITCH

Removal and Installation

INFOID:0000000011218869

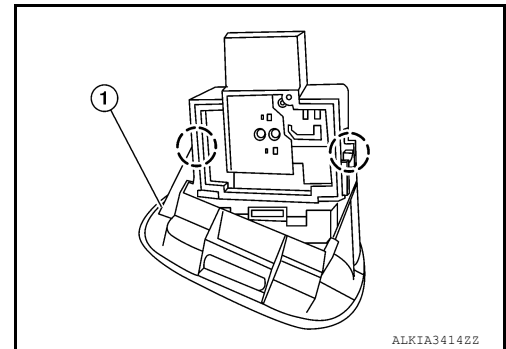
REMOVAL

1. Release the automatic back door close switch finisher pawls using a suitable tool.
2. Disconnect the harness connector (A) from the automatic back door close switch (1) and remove.



3. Release pawls and remove automatic back door switch finisher (1) (if necessary).

○: Pawl



INSTALLATION

Installation is in the reverse order of removal.