SECTION DLK
DOOR & LOCK

CONTENTS

PRECAUTION

PRECAUTIONS

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

INFOID:0000000013513320

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes dual stage front air bag modules. The SRS system may only deploy one front air bag, depending on the severity of a collision and whether the front passenger seat is occupied. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

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

Precaution for Servicing Doors and Locks

INFOID:0000000012851867

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.

< PRECAUTION >

- For genuine leather seats, use a genuine leather seat cleaner.

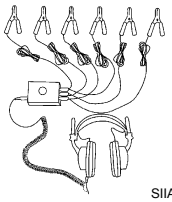
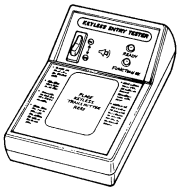
PREPARATION

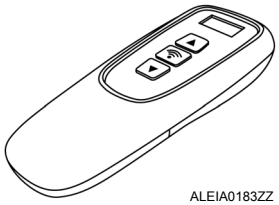
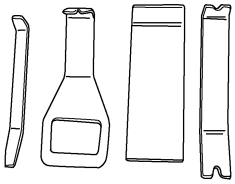
PREPARATION

Special Service Tool

INFOID:0000000012851868

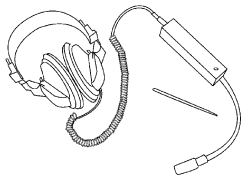
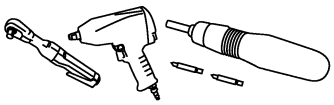
The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name		Description
— (J-39570) Chassis Ear	 SIIA0993E	Locating the noise
— (J-50397) INFINITI Squeak and Rattle Kit	 ALJIA1232ZZ	Repairing the cause of noise
— (J-43241) Remote Keyless Entry Tester		Used to test keyfobs
— (J-50190) Signal Tech II	 ALEIA0131ZZ	• Activate and display TPMS transmitter IDs • Display tire pressure reported by the TPMS transmitter • Read TPMS DTCs • Register TPMS transmitter IDs • Test remote keyless entry keyfob relative signal strength • Check Intelligent Key relative signal strength • Confirm vehicle Intelligent Key antenna signal strength • Compatible with future sensors • Equipped with a display

Tool number (TechMate No.) Tool name	Description
KV48105501 (J-45295-A) Transmitter Activation Tool  ALEIA0183ZZ	• Activate TPMS transmitter IDs • Compatible with future sensors • Equipped with a display (KV48105501 only)
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tool

INFOID:0000000012851869

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

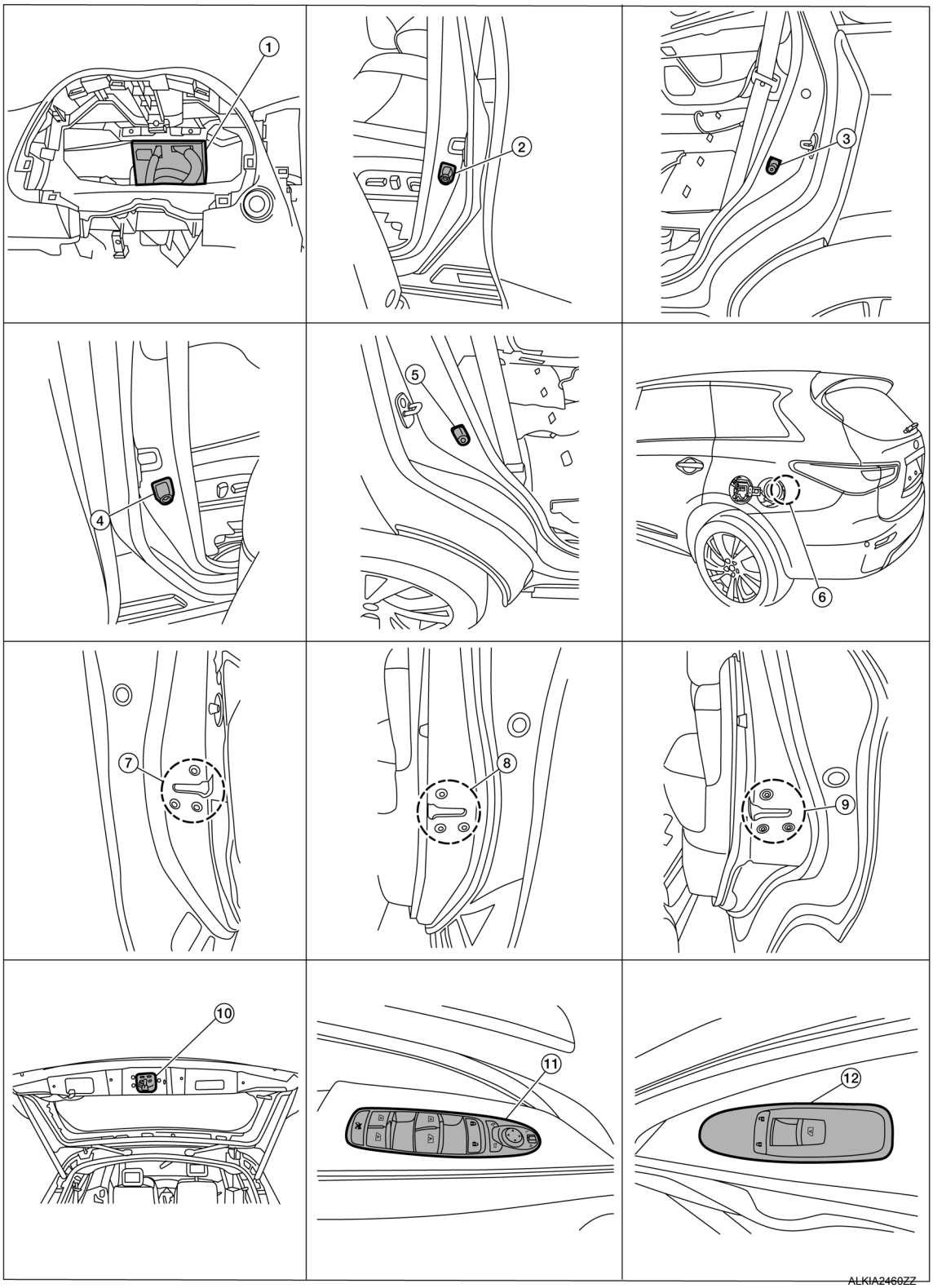
SYSTEM DESCRIPTION

COMPONENT PARTS

POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : Component Parts Location

INFOID:0000000012851870



1. BCM (view with combination meter removed)
2. Front door switch LH
3. Rear door switch LH
4. Front door switch RH
5. Rear door switch RH
6. Fuel lid door lock actuator (view with luggage side lower finisher LH removed)
7. Front door lock assembly LH
8. Front door lock actuator RH
9. Rear door lock actuator RH (LH similar)
10. Back door lock assembly
11. Main power window and door lock/unlock switch
12. Power window and door lock/unlock switch RH

POWER DOOR LOCK SYSTEM : Component Description

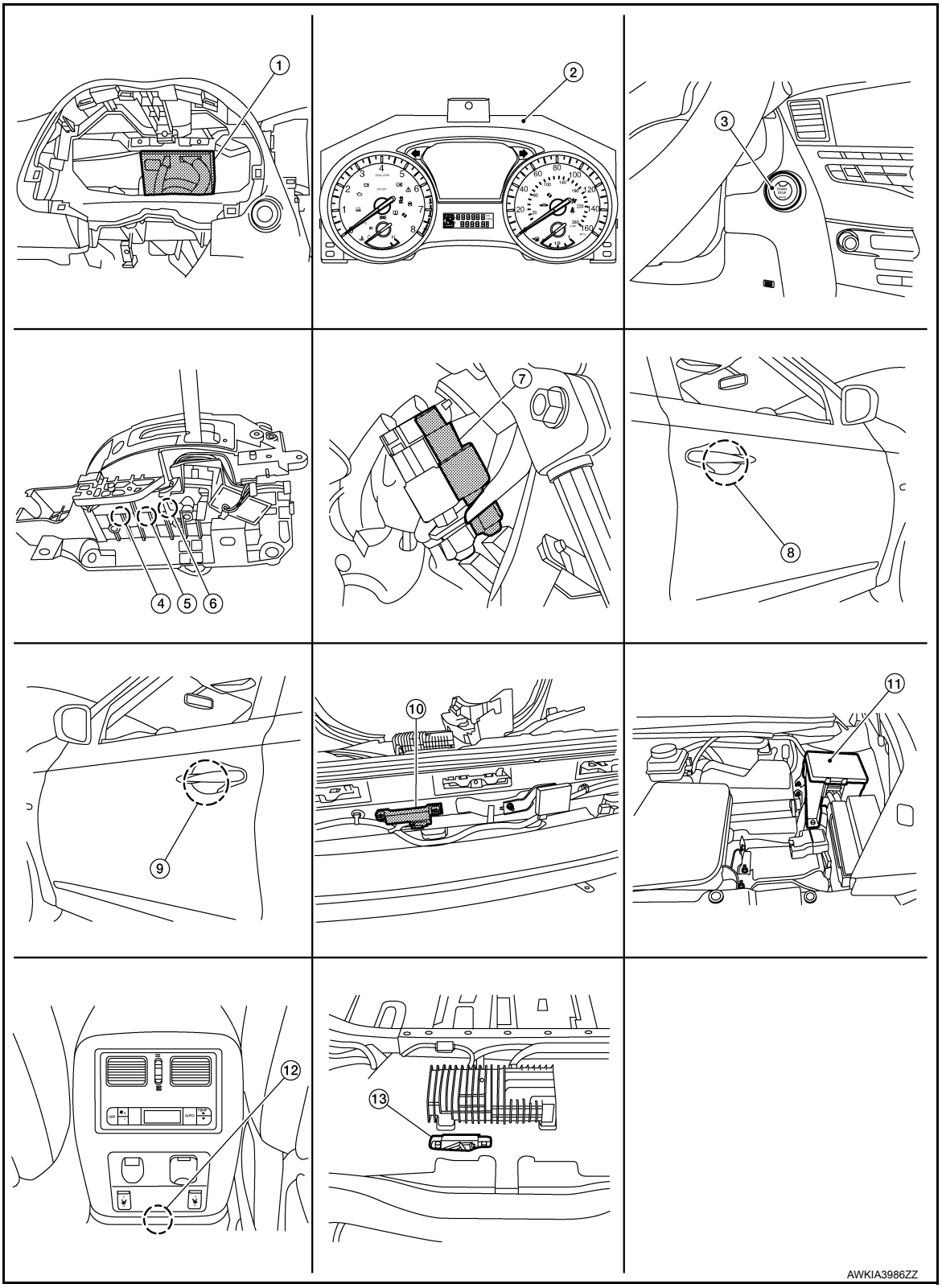
INFOID:0000000012851871

Item	Function
BCM	Controls the door lock system
Door switch	Inputs door open/close condition to BCM
Door lock and unlock switch	• Detects if door lock and unlock switch is press/release • Integrated in the main power window and door lock/unlock switch and power window and door lock/unlock switch (RH)
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door
Fuel lid door lock actuator	Output lock/unlock signal from BCM and locks/unlocks fuel filler lid

INTELLIGENT KEY SYSTEM

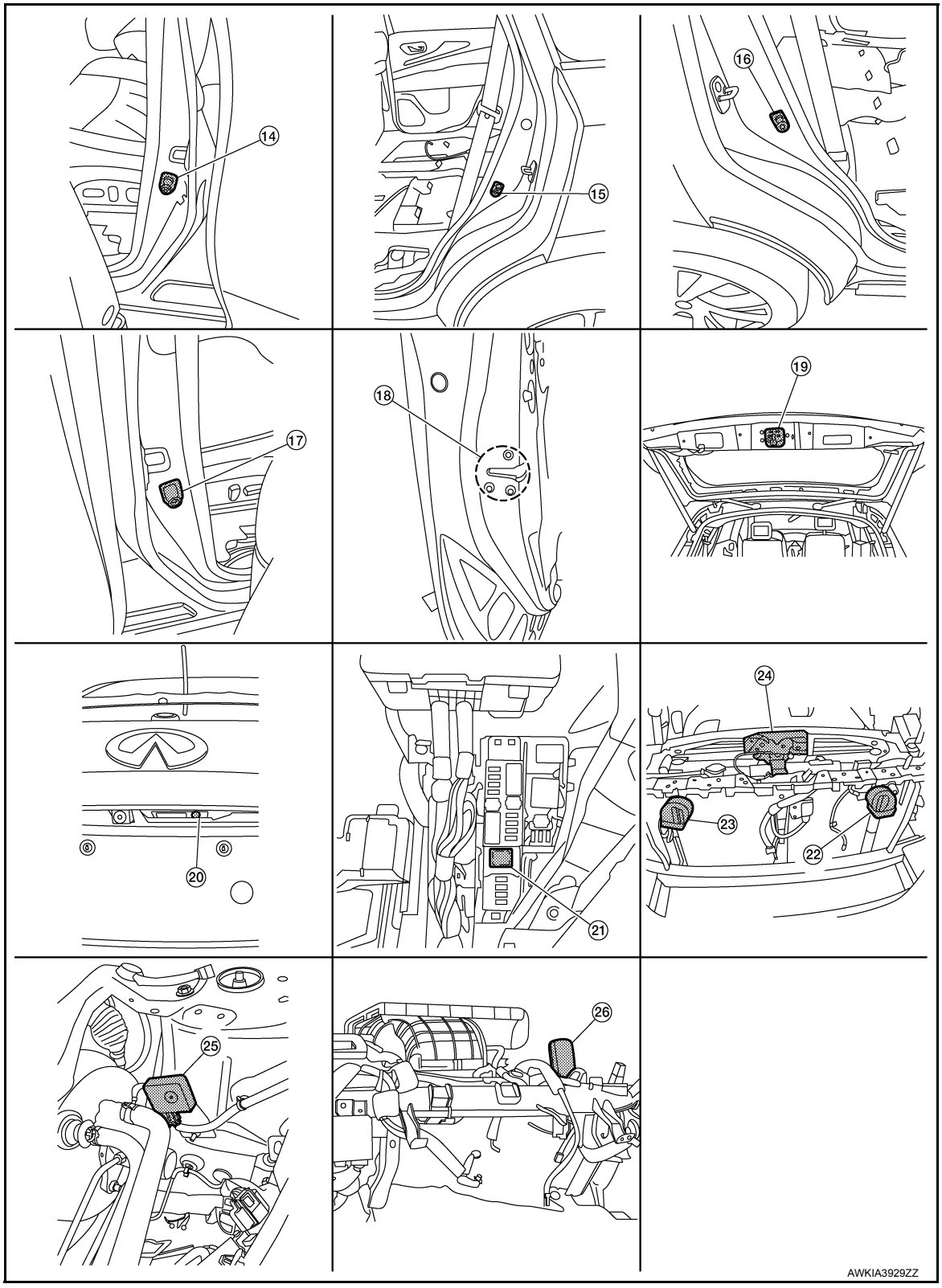
INTELLIGENT KEY SYSTEM : Component Parts Location

INFOID:0000000012851872



1. BCM (view with combination meter removed)
2. Combination meter
3. Push-button ignition switch
4. CVT shift selector [park position switch (shift selector)]
5. CVT shift selector (shift lock solenoid)
6. CVT shift selector (park position switch)

7. Stop lamp switch
8. Front outside handle RH (RH request switch and outside key antenna passenger side)
9. Front outside handle LH (LH request switch and outside key antenna drivers side)
10. Outside key antenna (rear bumper) (view with rear bumper cover removed)
11. IPDM E/R
12. Inside key antenna (console)
13. Inside key antenna (luggage room) (view with rear carpet removed)



14. Front door switch LH
15. Rear door switch LH
16. Rear door switch RH
17. Front door switch RH
18. Front door lock assembly LH
19. Back door lock assembly
20. Back door opener switch
21. Horn relay
22. Horn (low)
23. Horn (high)
24. Hood switch
25. Intelligent Key warning buzzer
26. Remote keyless entry receiver (view with instrument panel removed)

INTELLIGENT KEY SYSTEM : Component Description

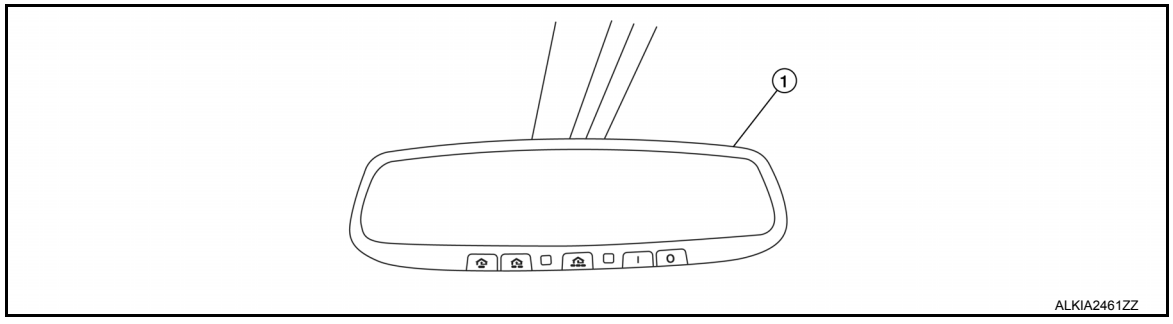
INFOID:0000000012851873

Item	Function
BCM	Controls the Intelligent Key system.
Back door opener switch	Inputs back door open/close condition to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Stop lamp switch	Inputs the brake pedal position condition to BCM.
Push-button ignition switch	Inputs the push-button ignition switch ON/OFF condition to BCM.
Hood switch	Inputs hood open/close condition to BCM.
Door switch	Inputs door open/close condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Request switch	Inputs lock/unlock operation to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Outside key antenna	Detects if Intelligent Key is outside the vehicle.
Inside key antenna	Detects if Intelligent Key is inside the vehicle.
Combination meter	Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

INTEGRATED HOMELINK TRANSMITTER

INTEGRATED HOMELINK TRANSMITTER : Component Parts Location

INFOID:0000000012851874



1. Auto anti-dazzling inside mirror

INTEGRATED HOMELINK TRANSMITTER : Component Description

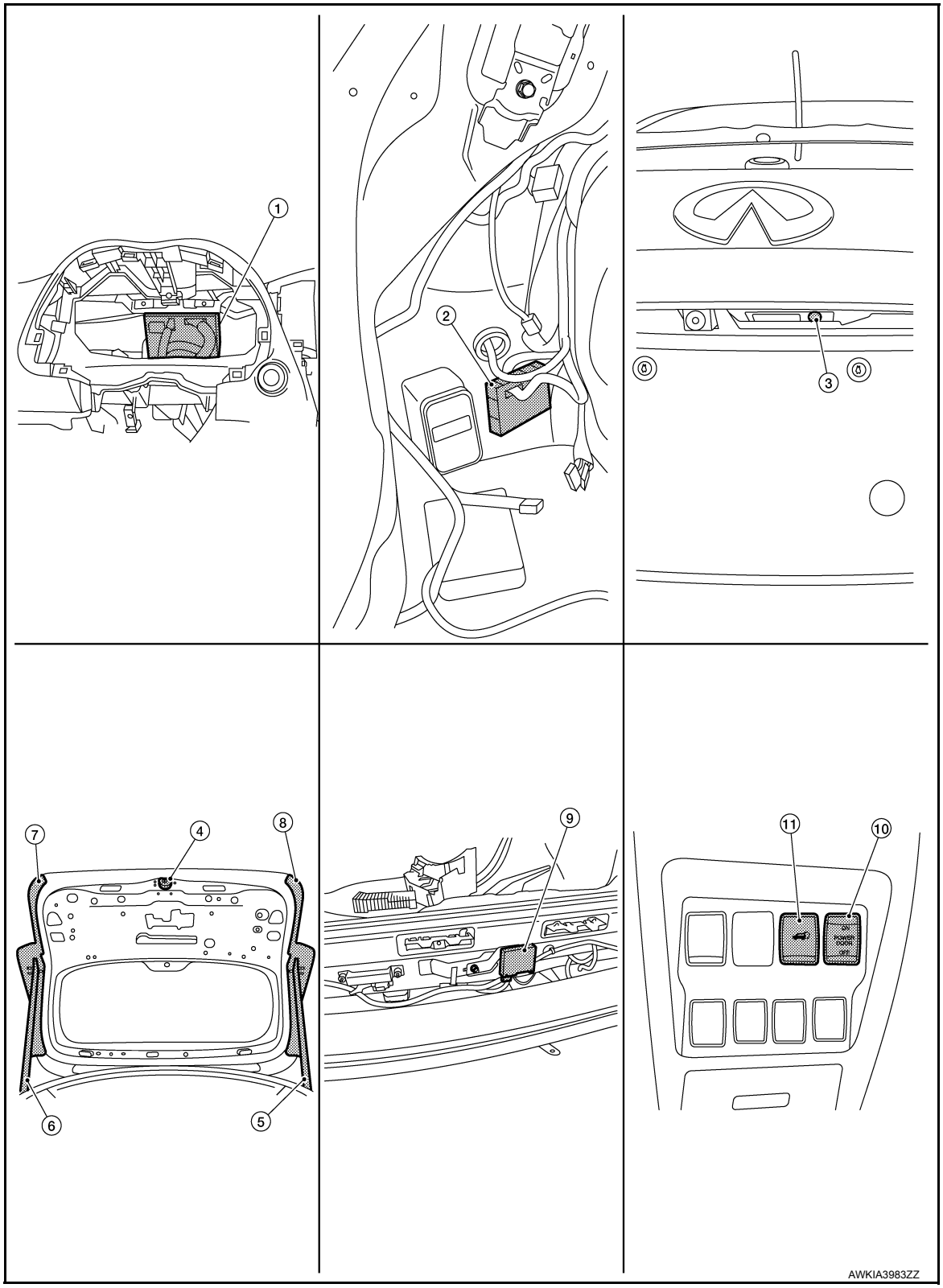
INFOID:0000000012851875

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

AUTOMATIC BACK DOOR SYSTEM

AUTOMATIC BACK DOOR SYSTEM : Component Parts Location

INFOID:0000000012851876



1. BCM (view with combination meter removed)
2. Automatic back door control module (view with luggage side lower finisher removed)
3. Back door opener switch
4. Back door lock assembly
5. Spindle Unit RH
6. Spindle Unit LH

7. Touch sensor LH
8. Touch sensor RH
9. Back door warning chime (view with rear bumper cover removed)
10. Automatic back door main switch
11. Automatic back door switch

AUTOMATIC BACK DOOR SYSTEM : Component Description

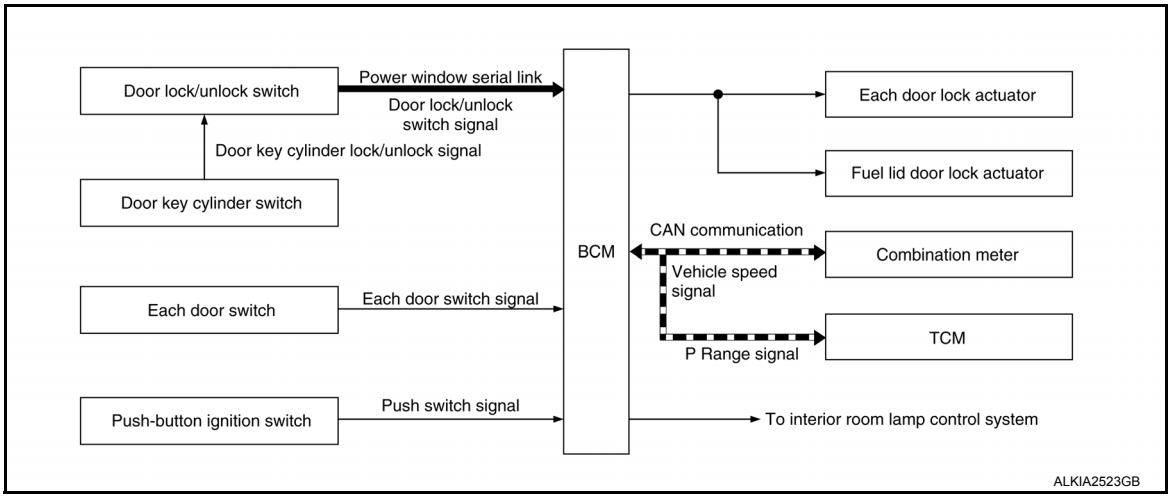
INFOID:0000000012851877

Item	Function
Automatic back door control module	Controls the automatic back door system.
BCM	Transmits and receives signals to the automatic back door control module.
Combination meter	Transmits vehicle speed signal to CAN communication line.
Automatic back door warning chime	Warns the user of the automatic back door condition and inappropriate operations with the chime sounds.
Touch sensor LH/RH	During back door close operation, the touch sensor detects any trapped foreign material.
Back door opener switch	Detects if back door opener switch is press/release.
Back door request switch	Detects if back door request switch is press/release.
Automatic back door switch	Detects if automatic back door switch is press/release.
Automatic back door main switch	Detects if automatic back door main switch is press/release.
Automatic back door close switch	Detects if automatic back door close switch is press/release.
Back door lock assembly	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.
Spindle unit	Encoder and spindle motor are installed: • Encoder: Automatic back door control module receives the pulse signals from encoders A and B that occurred due to synchronization with the back door operation. The automatic back door control module calculates the back door position, operation direction, and operation speed according to the received pulse signals. • Spindle motor: Inputs open/close signal from automatic back door control module and activates the automatic back door open/close operation.

SYSTEM (POWER DOOR LOCK SYSTEM)

System Diagram

INFOID:0000000012851878



System Description

INFOID:0000000012851879

DOOR LOCK FUNCTION

Door Lock and Unlock Switch

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

Door Key Cylinder Switch

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

Selective unlock operation mode can be changed using CONSULT.
Refer to BCS-15, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

DOOR KEY CYLINDER SWITCH POWER WINDOW FUNCTION

Driver side door key cylinder LOCK/UNLOCK operation can activate power window. Refer to PWC-7, "System Description".

IGNITION POSITION WARNING FUNCTION

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

INTERIOR ROOM LAMP CONTROL FUNCTION

Interior room lamp is controlled according to door lock/unlock state, refer to INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description".

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (LOCK OPERATION)

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

Vehicle Speed Sensing Auto Door Lock

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

P Range Interlock Door Lock

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

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is in the ON position, all doors are closed and the shift signal received from the TCM via CAN communication shifted from the P (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 at the WORK SUPPORT setting of CONSULT.

Without CONSULT

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

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

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 the P to P position.

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

Setting change of Automatic Door Lock/Unlock Function

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

With CONSULT

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

Without CONSULT

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

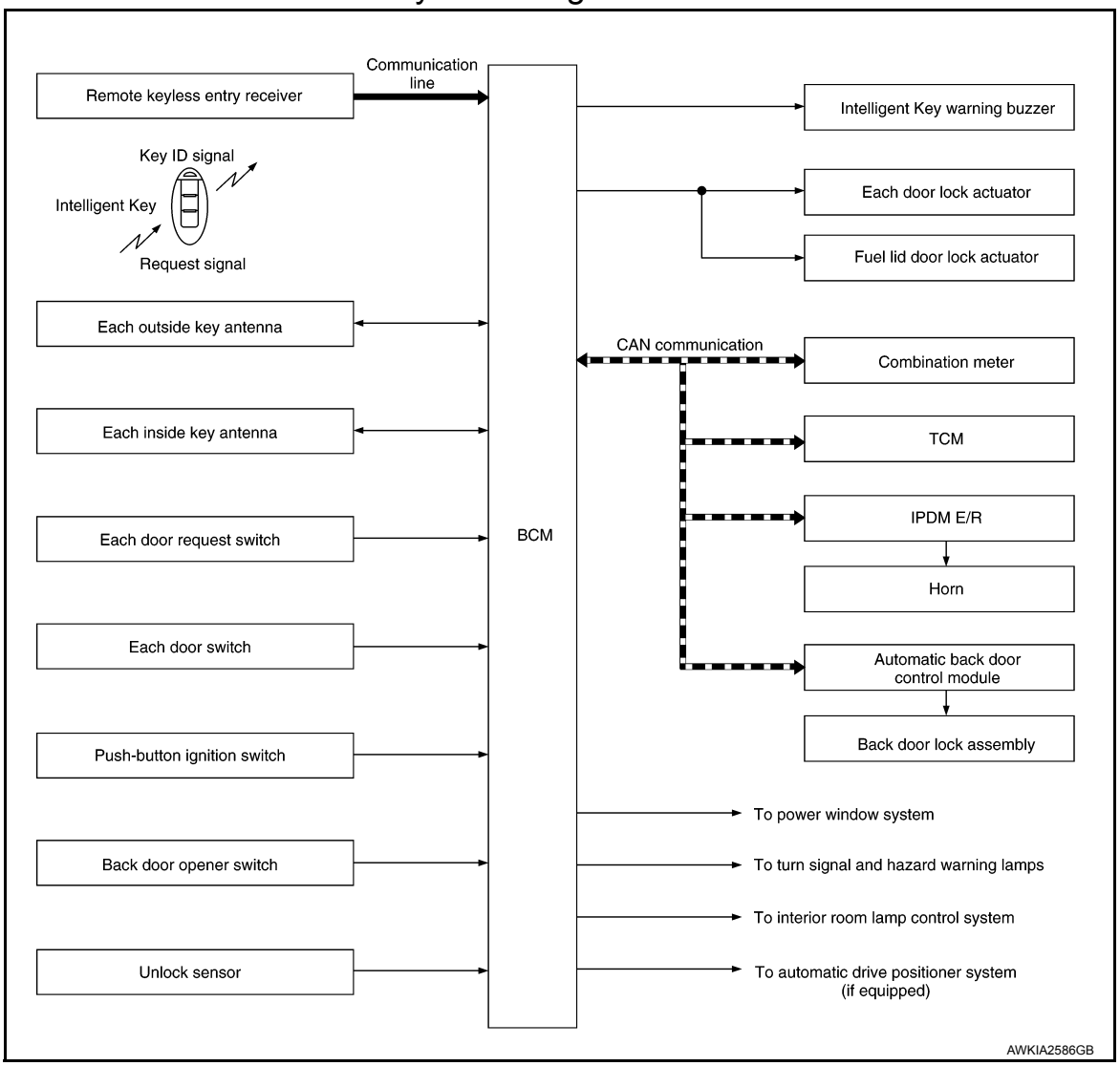
1. Close all doors (door switch OFF)
2. Ignition switch: OFF→ON
3. Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the power supply position ON.
4. The switching is complete when the hazard lamp blinks.

OFF → ON	: 2 blinks
ON → OFF	: 1 blink

SYSTEM (INTELLIGENT KEY SYSTEM)
INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Diagram

INFOID:0000000012851880



INTELLIGENT KEY SYSTEM : System Description

INFOID:0000000012851881

- 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.

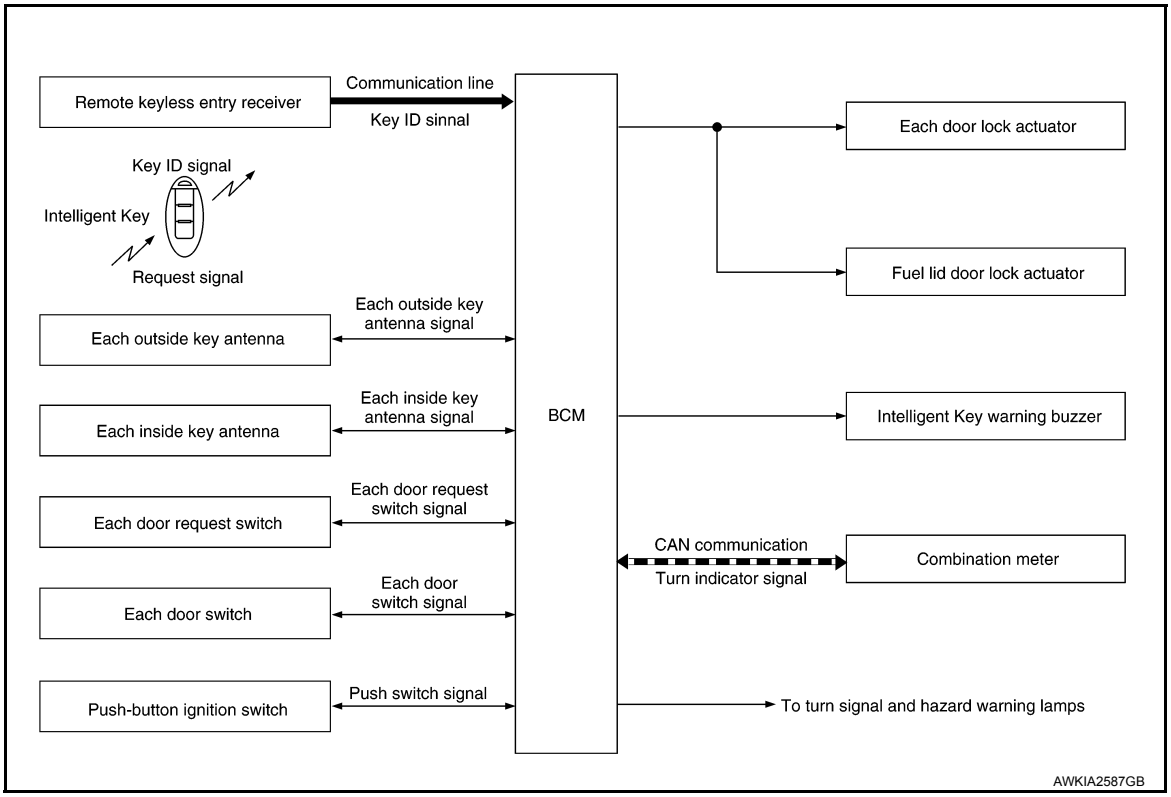
Function	Description	Refer
Door lock	Lock/unlock can be performed by pressing the request switch.	DLK-21
Back door opener	The back door can be opened by carrying the Intelligent Key and pressing the back door opener switch.	DLK-24

Function	Description		Refer
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.		DLK-25
Key reminder	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.		DLK-28
Welcome light	When the Intelligent Key is carried, and vehicle doors are approached, the BCM illuminates interior room lamps and operates heart beat operation of the push-button ignition switch.		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-33
Engine start	The engine can be turned on while carrying the Intelligent Key.		SEC-9
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state.		INL-7
Power window	Power window can be operated by Intelligent Key button operation.		PWC-7
Panic alarm	When Intelligent Key panic alarm button is pressed, horn sounds.		SEC-14
Intelligent Key interlock	Setting of auto driving position can be automatically set, according to key ID of Intelligent Key to the position that is registered in advance.	Automatic drive positioner	ADP-11
	Setting of air conditioning system can be set according to key ID of Intelligent Key to the setting value that is set before turning ignition switch OFF.	Air conditioning system	HAC-19
	Setting of multi AV system can be set according to key ID of Intelligent Key to the setting value that is set before turning ignition switch OFF.	Multi AV system	AV-24

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Diagram

INFOID:0000000012851882



DOOR LOCK FUNCTION : System Description

INFOID:0000000012851883

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

OPERATION DESCRIPTION

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

OPERATION CONDITION

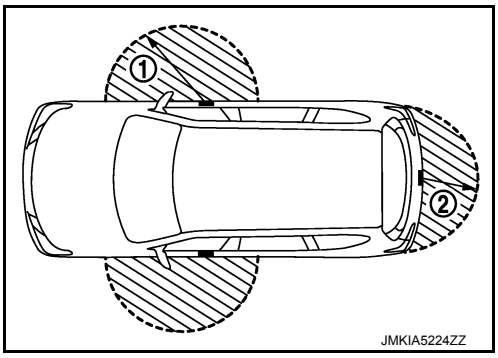
If the following conditions are satisfied, door lock/unlock operation is performed if the door request switch is operated.

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

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

OUTSIDE KEY ANTENNA DETECTION AREA

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



SELECTIVE UNLOCK FUNCTION

Lock Operation

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

Unlock Operation

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

How To Change Selective Unlock Operation Mode

Selective unlock operation mode can be changed using CONSULT.

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

HAZARD AND BUZZER REMINDER FUNCTION

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

Operating Function Of Hazard And buzzer Reminder

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

Hazard and buzzer reminder does not operate in the following conditions.
- Ignition switch position is ON.
- Door is open (only lock operation).

How To Change Hazard And Buzzer Reminder Mode

Hazard and buzzer reminder mode can be changed using CONSULT.
Refer to BCS-21, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

AUTO DOOR LOCK FUNCTION

After door is unlocked by door request switch operation and if 60 seconds or more passes without performing the following operation, all doors and fuel filler lid 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-21, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

LIST OF OPERATION RELATED PARTS

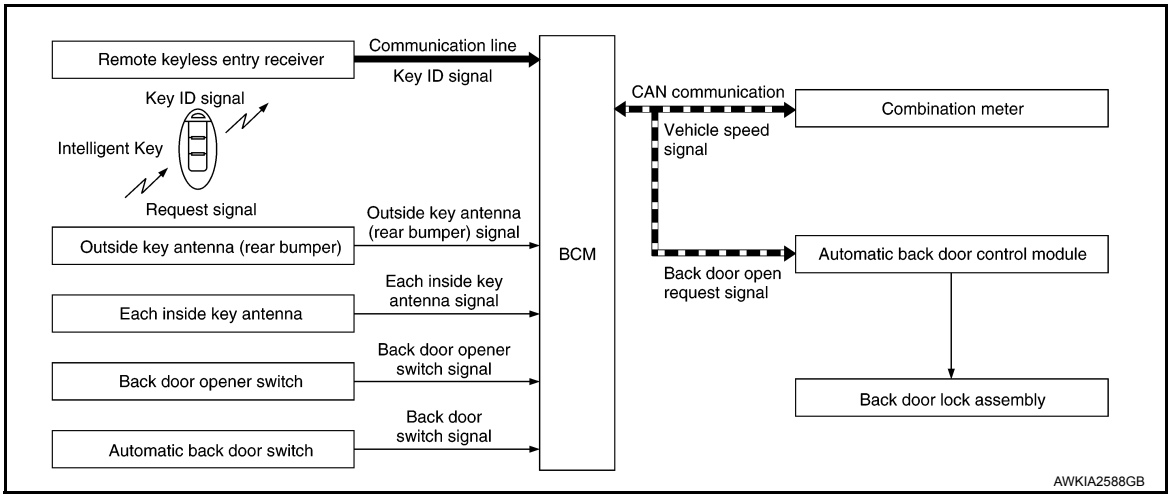
Parts marked with × are the parts related to operation.

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

BACK DOOR OPEN FUNCTION

BACK DOOR OPEN FUNCTION : System Diagram

INFOID:0000000012851884



BACK DOOR OPEN FUNCTION : System Description

INFOID:0000000012851885

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

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

- When the BCM detects that back door opener switch is pressed, it activates the outside key antenna (rear bumper) and inside key antenna and transmits the request signal to the Intelligent Key and then, checks that the Intelligent Key is near the back door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- If the verification result is OK, BCM transmits the back door open request signal to automatic back door control module via CAN communication.
- Automatic back door control module transmits back door open request signal to back door lock assembly and back door is open.
- When the back door is open, automatic back door system performs waiting operation for next back door close operation.
  The operation of then back door open is the same as the automatic back door system, refer to DLK-37, "System Description".

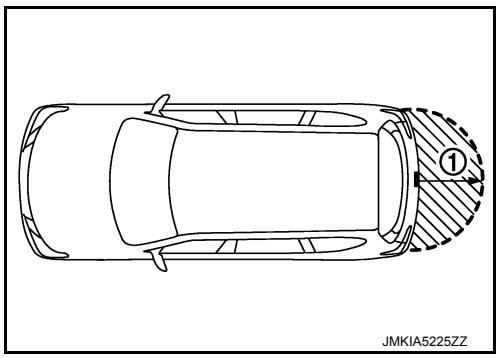
OPERATION CONDITION

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

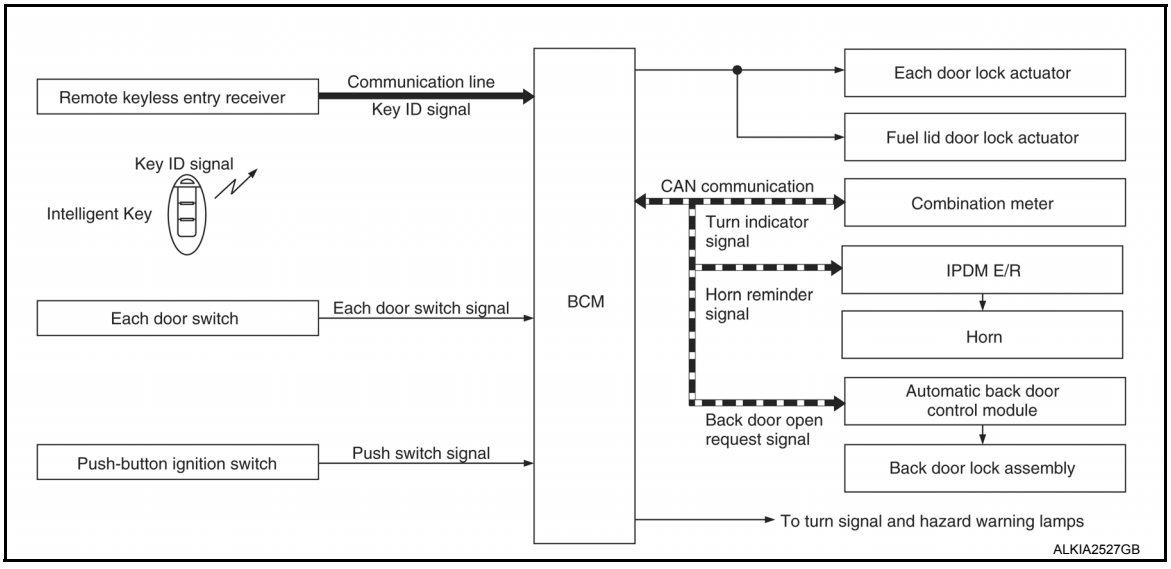
Parts marked with × are the parts related to operation.

Function	Intelligent Key	Remote keyless entry receiver	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

REMOTE KEYLESS ENTRY FUNCTION : System Diagram

INFOID:0000000012851886



REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:0000000012851887

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

REMOTE ENGINE START FUNCTION

- When the lock button and then the remote engine start button of the Intelligent Key are pressed within 5 seconds of each other, a start signal is transmitted from Intelligent Key to BCM via remote keyless entry receiver.
- When the BCM receives the remote engine start signal, it locks all doors and the fuel lid, flashes the hazard lamps and chirps the horn and the engine will then start.
- To exit the remote engine start mode from inside the vehicle, depress the brake pedal and press the push-button ignition switch at the same time.
- 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 pressing the lock button and remote engine start button within 5 seconds of each other. This will add an aditional 10 minutes of running time. Extended time can only be added once, for a total run time of up to 20 minutes.

Remote engine start cancel operation	• Anti-theft alarm - unauthorized entry • Maximum time for engine to run by remote start has been exceded. • Hazard lamps are turned on. • Push-button start button is pressed without the Intelligent Key in the vehicle. • Push-button start button is pressed without depressing the brake pedal. • The hood is opened while the remote engine start is engaged.

DOOR LOCK/UNLOCK FUNCTION

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

OPERATION CONDITION

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

Remote controller operation	Operation condition
Lock	• Panic alarm is not activated. • P (Park) position warning is not activated.
Unlock	Panic alarm is not activated.

SELECTIVE UNLOCK FUNCTION

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

How to change selective unlock operation mode.

Selective unlock operation mode can be changed using CONSULT.
Refer to BCS-15, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

AUTO DOOR LOCK FUNCTION

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

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

HAZARD AND HORN REMINDER FUNCTION

When doors are locked or unlocked by Intelligent Key, BCM blinks hazard warning lamps as a reminder.
The hazard and horn reminder has a horn chirp mode (C mode) and a non-horn chirp mode (S mode).

Operating Function of Hazard and Horn Reminder

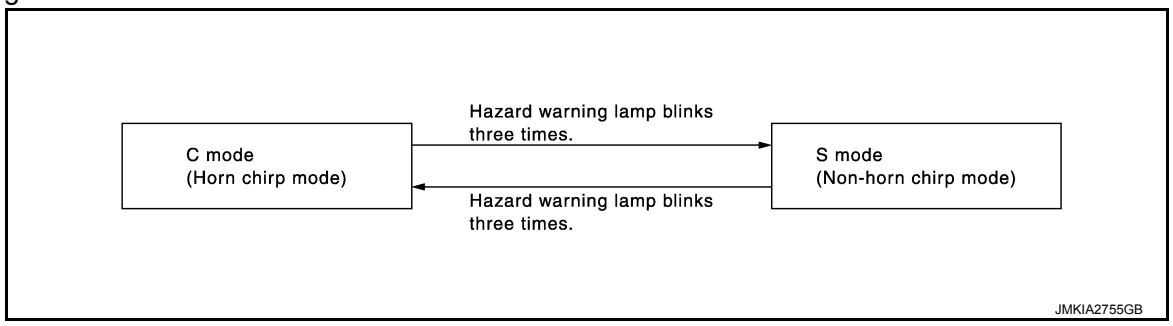
	C mode		S mode	
Intelligent Key operation	Lock	Unlock	Lock	Unlock
Hazard warning lamp blinks	Twice	Once	Twice	—
Horn sound	Once	—	—	—

Hazard and horn reminder does not operate in the following conditions.
- Ignition switch position is ON.
- Door is open (only lock operation).

How to Change Hazard and Horn Reminder Mode

With CONSULT
Hazard and horn reminder operation mode can be changed using CONSULT.
Refer to BCS-21, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

Without CONSULT
When LOCK and UNLOCK signals are sent from the Intelligent Key for more than 2 seconds at the same time, the hazard and horn reminder mode is changed and hazard warning lamp blinks and horn sounds as per the following items:



AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

When back door button of Intelligent Key is pressed for 0.4 second or more, back door open automatically for detailed description, refer to DLK-37, "System Description".

LIST OF OPERATION RELATED PARTS

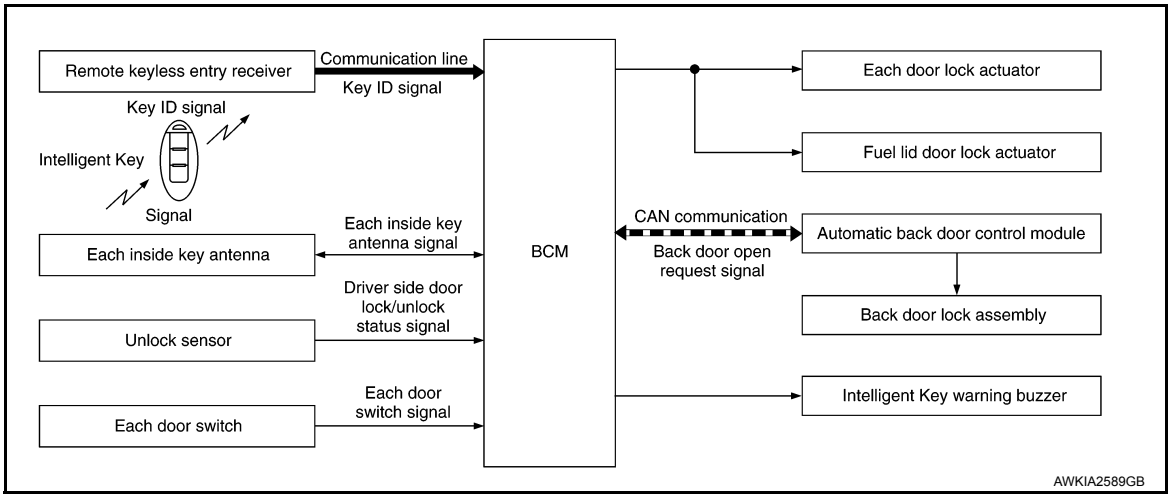
Parts marked with × are the parts related to operation.

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	×			×	×	×	×	×	×		×	×	×

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION : System Diagram

INFOID:0000000012851888



KEY REMINDER FUNCTION : System Description

INFOID:0000000012851889

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

Key remainder function	Operation condition	Operation
Driver door closed*	Right after driver side door is closed under the following conditions: • Door lock operation is performed. • Driver side door is open. • Driver side door is in lock state.	All doors (except back door) and fuel filler lid unlock.

Key remainder function	Operation condition	Operation
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 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 with the door lock knob might activate the door locks accidentally but unlock operation is performed in these cases.

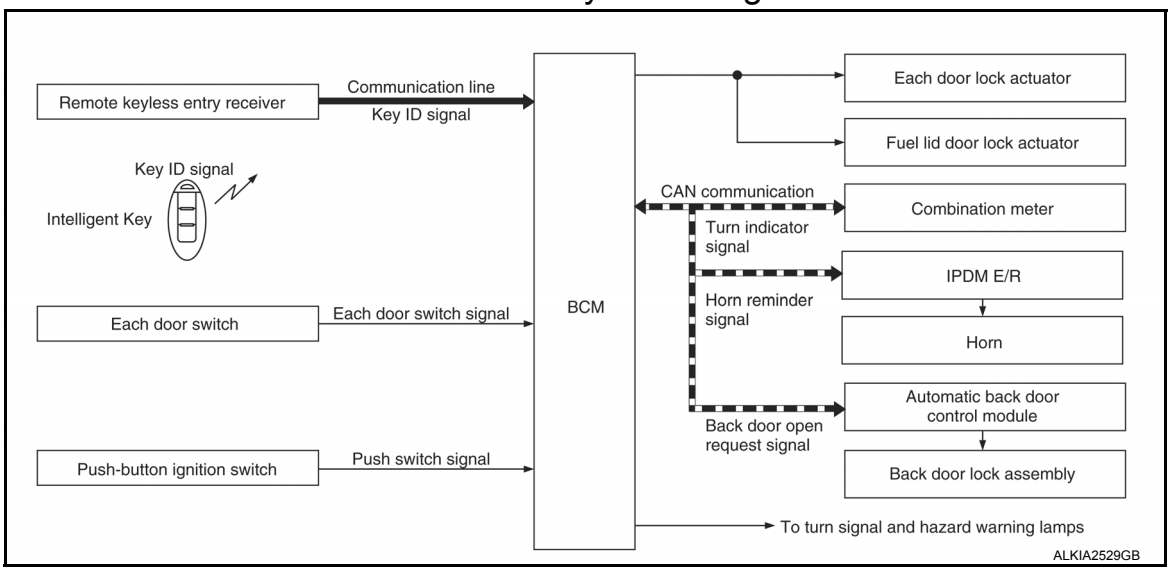
CAUTION:

- **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 for the open door.**

REMOTE ENGINE START FUNCTION

REMOTE ENGINE START FUNCTION : System Diagram

INFOID:0000000012851890



REMOTE ENGINE START FUNCTION : System Description

INFOID:0000000012851891

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.

REMOTE ENGINE START FUNCTION

- The remote engine start function is activated when the lock button of the Intelligent Key is pressed and released, 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, 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 starts 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 operation	• 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 of 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 of the vehicle. • The push-button ignition switch must not be in the ACC or ON positions. • 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	
Intelligent Key operation	Lock	Unlock	Lock	Unlock
Hazard warning lamp blinks	Twice	Once	Twice	—
Horn sound	Once	—	—	—

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

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

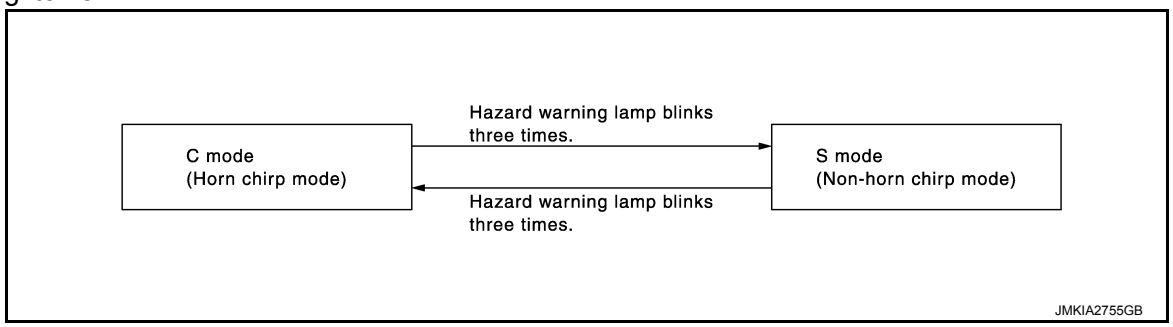
How to Change Hazard and Horn Reminder Mode

With CONSULT

Hazard and horn reminder operation mode can be changed using CONSULT.
Refer to BCS-21, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

Without CONSULT

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



LIST OF OPERATION RELATED PARTS

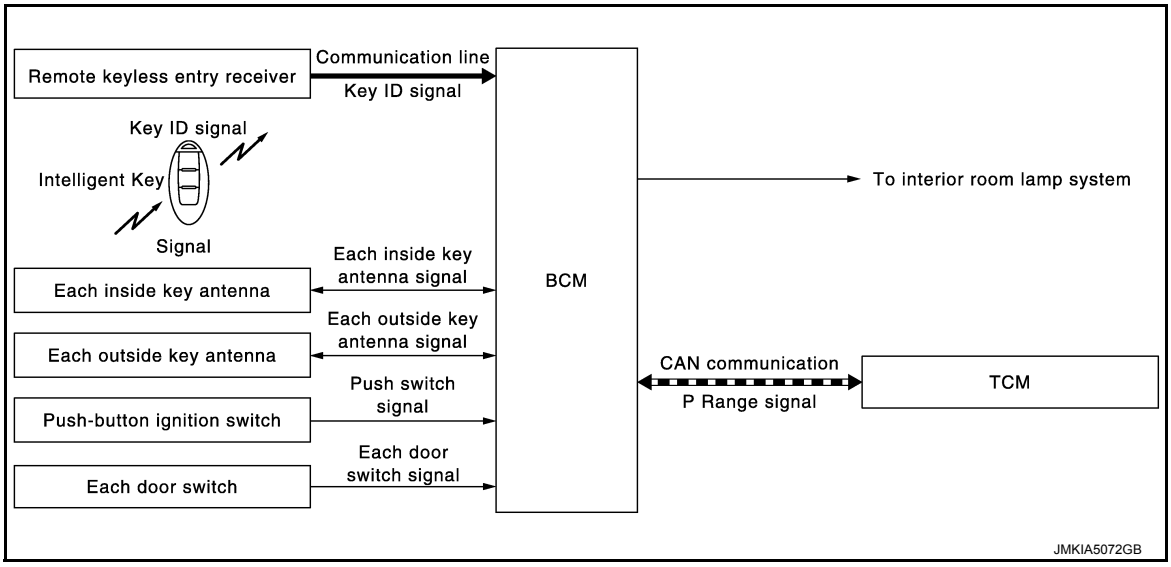
Parts marked with × are the parts related to operation.

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	×			×	×	×	×	×	×		×	×	×

WELCOME LIGHT FUNCTION

WELCOME LIGHT FUNCTION : System Diagram

INFOID:0000000012851892



WELCOME LIGHT FUNCTION : System Description

INFOID:0000000012851893

The welcome light function operates as per the following. When the Intelligent Key is within the outside key antenna detection area, the BCM turns on interior room lamp* and operates heart beat operation of the push-button ignition switch.
*: Settings for map lamp, foot lamp, personal lamp, and puddle lamp are available.

OPERATION DESCRIPTION

- When the BCM detects that the Intelligent Key is within the outside key antenna detection area. BCM transmits the request signal to the Intelligent Key and check it is near the door.
- Intelligent Key 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 illuminates lamps that are set, when key ID verification is OK.

TIMER FUNCTION

BCM can operate welcome light function using the timer function for 9 days after key switch is turned OFF.

The timer function resets when the engine is started*.Operating period of timer function may differ depending on battery size.

*: Timer function does not stop if another Intelligent Key that has a different key ID is detected within the interior antenna detection area when starting the engine.

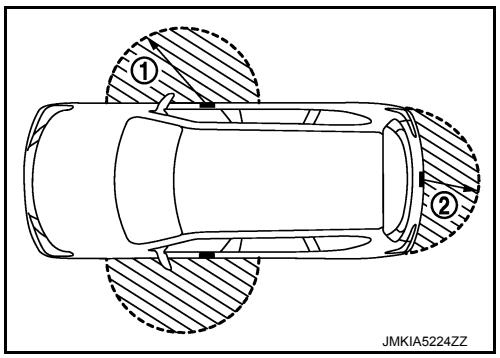
OPERATION CONDITION

If the following condition are satisfied, welcome light function is operated.

Function	Operation condition
Welcome light function	• All door are closed. • All doors are locked. • Ignition switch: OFF position. • Shift position: P (Park) position. • Intelligent Key is outside the vehicle. • Timer function is activated.

OUTSIDE KEY ANTENNA DETECTION AREA

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



WELCOME LIGHT FUNCTION SETTING

Welcome light function operation mode can be changed using CONSULT

With CONSULT

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

Without CONSULT

The welcome light function ON/OFF can be switched by performing the following operation.

1. Turn ignition switch: OFF→ON
2. Press and hold the driver side door request switch for 5 seconds or more within 20 seconds after turning the ignition switch ON.
3. The switching is complete when combination meter buzzer sounds.

WARNING FUNCTION

WARNING FUNCTION : System Description

INFOID:0000000012851894

OPERATION DESCRIPTION

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

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

OPERATION CONDITION

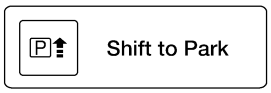
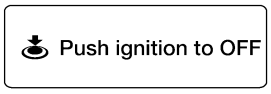
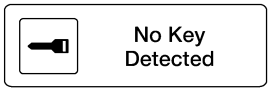
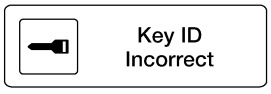
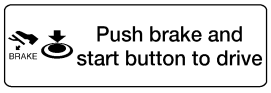
Once the following condition from below is established, alert or warning is executed.

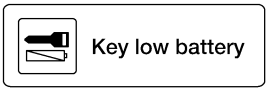
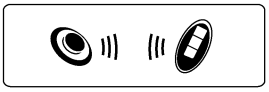
Warning/Information functions	Operation procedure
Intelligent Key system malfunction	When a malfunction is detected on BCM, “KEY” warning lamp illuminates.

Warning/Information functions		Operation procedure
OFF position warning	For internal	When condition A, B or condition C is satisfied • Condition A - Ignition switch: ACC position - Door switch (driver side): ON (Door is open) • Condition B - Turn ignition switch from ON to OFF while door is open • Condition C - Intelligent Key backside is contacted to ignition switch while brake pedal is depressed and ignition switch is LOCK or OFF (When the Intelligent Key battery is discharged) - Door switch (driver side): ON (Door is open)
	For external	OFF position warning (For internal) is in active mode, driver side door is closed. **NOTE:** OFF position (For external) active only when each of the sequence occurs as below: P position warning → ACC warning → OFF position warning (For internal) → OFF position warning (For internal)
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 close	• 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 condition of door request switch or Intelligent Key are not satisfied
Engine start information	Ignition switch is ON position	• Ignition switch: ON position • Shift position: P (Park) position • Engine is stopped
	Ignition switch is except ON position	• Ignition switch: Except ON position • Shift position: P (Park) position • 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 be detected 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	—	 ALKIA2515GB	Activate	—
	For external			—	Active
ACC warning		—	 ALKIA2516GB	Activate	—
Take away warning	Door is open to close	—	 ALKIA2517GB	Activate	Activate
	Door is open			—	—
	Push-button ignition switch operation			Activate	—
Door lock operation warning	Request switch operation	—	—	—	Activate
	Intelligent Key	—	—	—	Activate
Key ID warning		—	 ALKIA2518GB	—	—
Engine start information		—	 ALKIA2519GB	—	—

Warning/Information functions	"KEY" warning lamp	Information display (combination meter)	Warning chime	
			Combination meter buzzer	Intelligent Key warning buzzer
Intelligent Key low battery warning	—	 ALKIA2520GB	—	—
Key ID verification information	—	 ALKIA2521ZZ	—	—

LIST OF OPERATION RELATED PARTS

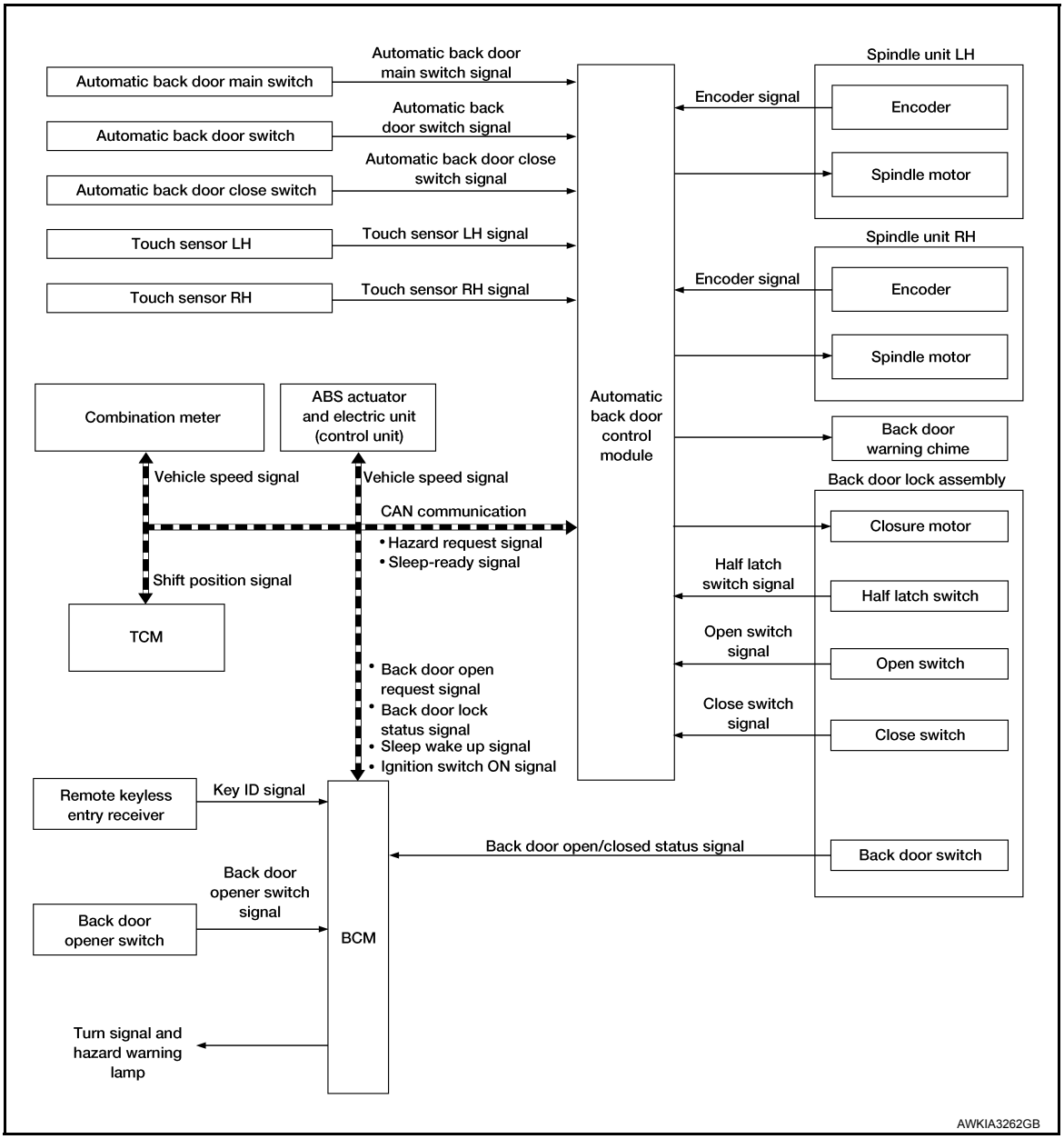
Parts marked with × are the parts related to operation.

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			×						×	×	×	×	×
ACC warning			×						×	×	×	×	
Take away warning	Door is open or close	×		×		×		×	×	×	×	×	×
	Door is open	×		×		×				×	×	×	×
	Push-button ignition switch operation	×	×			×			×	×	×	×	×
Door lock operation warning		×		×	×	×	×	×			×		
Key ID warning			×			×				×	×	×	×
Engine start information	Ignition switch is ON position	×	×			×				×	×	×	
	Ignition switch is except ON position	×	×			×				×	×	×	
Intelligent Key low battery warning		×				×				×	×	×	×
Key ID verification information		×				×				×	×	×	

SYSTEM (AUTOMATIC BACK DOOR SYSTEM)

System Diagram

INFOID:0000000012851895



System Description

INFOID:0000000012851896

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

AUTOMATIC BACK DOOR OPEN/CLOSE FUNCTION

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

AUTOMATIC OPEN/CLOSE TEMPORARY STOP FUNCTION

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

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

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

BACK DOOR OPEN POSITION SETTING FUNCTION

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

Setting Procedure

Stop position for back door open position setting function can be set by the following procedure.
1. Manually move the back door to a stop setting position.
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 cancelled by the following procedure.
1. Manually move the back door to a fully open position.
2. Press and hold the automatic back door close switch for 3 seconds.
3. The switching is complete when the buzzer sounds (pattern E).
4. Fully close the back door.

BACK DOOR AUTO CLOSURE FUNCTION

Open Function

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

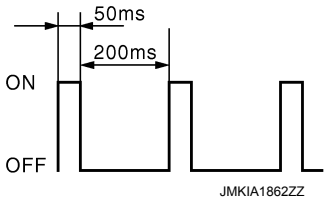
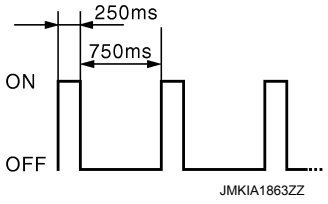
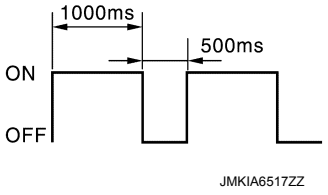
Closure Function

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

WARNING FUNCTION

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

Chime Operation Condition

Pattern		Time	Description
A		0.75 sec.	Operation start announcement Anti-pinch operation start announcement
B	Pi---	2.0 sec.	• Closure function operates when automatic back door main switch is in OFF position • During the closure operation, when touch sensor detects any trapped foreign material, the back door stops halfway
C	Pi------••••••	Back door fully closed or vehicle is stopped	The conditions are not satisfied in the fully open position or during the operation, and then the operation continues
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
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)]

Detection method	Encoder pulse	Touch sensor
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		Automatic 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.

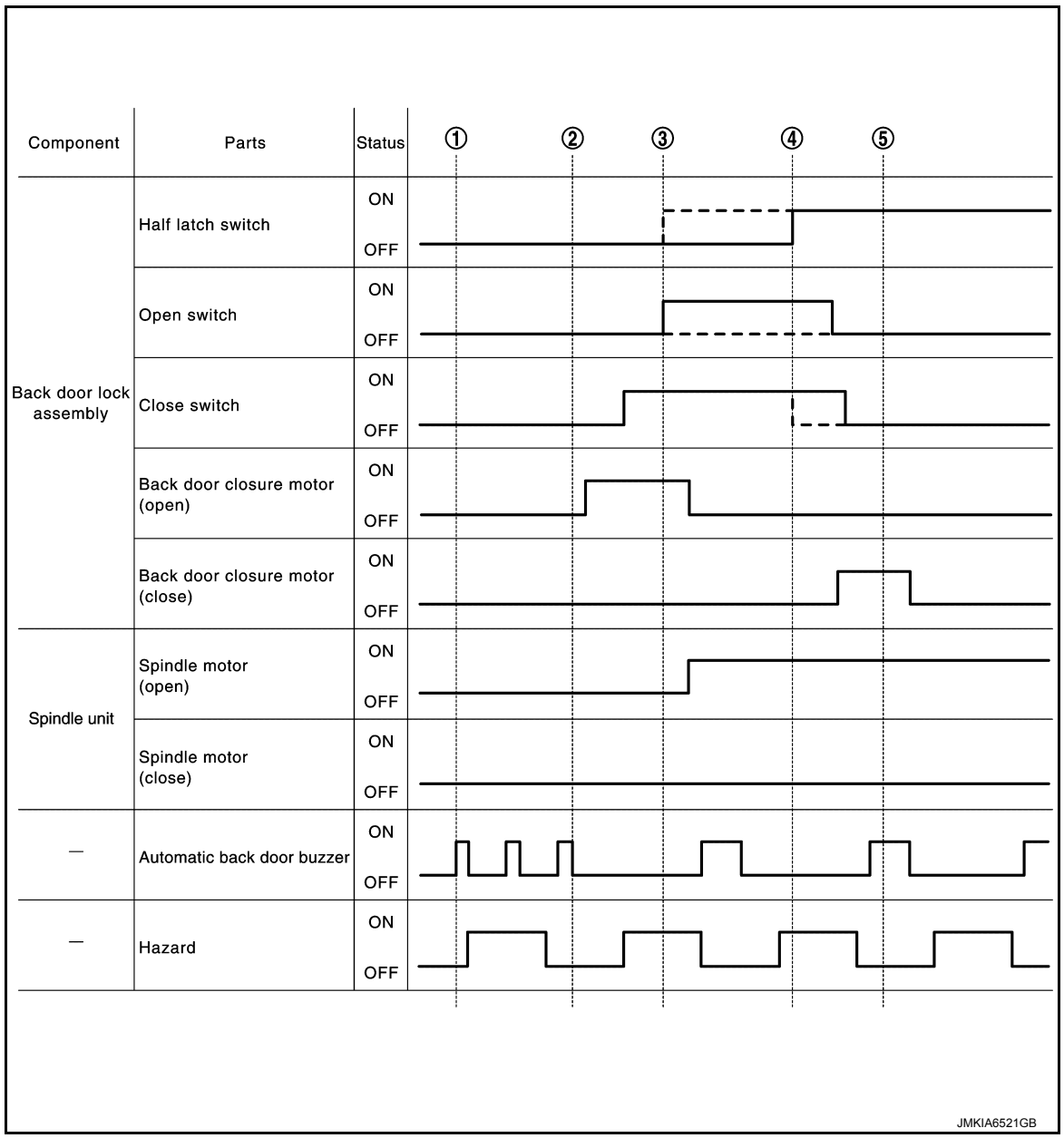
Item (Condition)	Back door condition	
Vehicle stop condition (open operation) • IGN ON and shift P (Park) position→IGN ON and other than P (Park) position	The operation is continued	
Operation condition release during the operation start announcement condition	Automatic back door function does not operate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

Item (Condition)	Back door condition	
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.



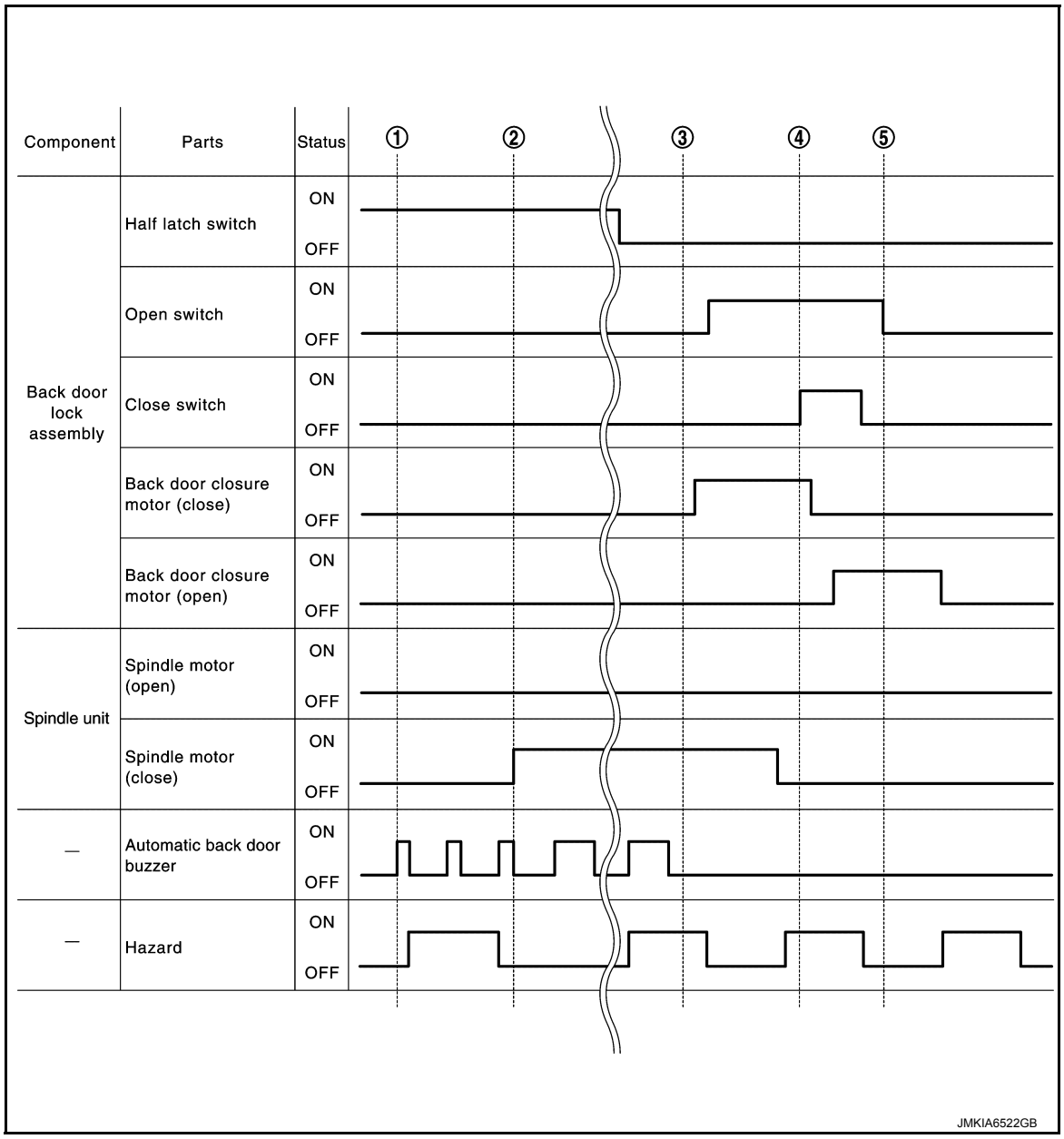
1. Operates the chime and hazard after the operation enable conditions are established.
2. The back door closure motor performs the open operation after the chime (pattern A) stops sounding.
3. Stops the back door closure motor open operation after turning the open switch to ON

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

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

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

Fully Open to Fully Closed Operation
When operating the automatic back door switch, automatic back door close switch and Intelligent Key, the automatic back door system operates as follows.



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

5. Stop the back door closure motor open operation and return the latch to the neutral position after turning the close switch to OFF.

SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

System Description

INFOID:0000000012851897

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

INFOID:0000000013577891

CAUTION:
After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to ”sleep mode”, potentially causing a discharged battery and a no-start condition.

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			×				

System	Sub System	Direct Diagnostic Mode						
		Ecu Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000013577892

CAUTION:
After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to ”sleep mode”, potentially causing a discharged battery and a no-start condition.

SELF DIAGNOSTIC RESULT

Refer to BCS-51, "DTC Index".

DATA MONITOR

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

ACTIVE TEST

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

WORK SUPPORT

Support Item	Setting	Description
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.
	Off	Automatic door locks function OFF.
AUTO UNLOCK TYPE	MODE2	Driver door only unlocks automatically.
	MODE1*	All doors unlock automatically.

Support Item	Setting	Description
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	—

* : Initial setting

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000013577893

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

SELF DIAGNOSTIC RESULT

Refer to BCS-51, "DTC Index".

DATA MONITOR

Monitor Item [Unit]	Main	Description
REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	×	Indicates condition of door request switch RH.
REQ SW -BD/TR [On/Off]	×	Indicates condition of back door request switch.
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.
SHFTLCK SLNID PWR SPLY [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 detent 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.

Monitor Item [Unit]	Main	Description
DOOR STAT -DR [LOCK/READY/UNLK]	×	Indicates condition of driver side door status.
DOOR STAT -AS [LOCK/READY/UNLK]	×	Indicates condition of passenger side door status.
DOOR STAT -RR [LOCK/READY/UNLK]	×	Indicates condition of rear right side door status.
DOOR STAT -RL [LOCK/READY/UNLK]	×	Indicates condition of rear left side door status.
BK DOOR STATE [LOCK/READY/UNLK]	×	Indicates condition of back door status.
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
PRMT RKE STRT [Set/Reset]		Indicates condition of engine start possibility from Intelligent Key.
I-KEY OK FLAG [Key ON/Key OFF]	×	Indicates condition of Intelligent Key OK flag.
PRBT ENG STRT [Set/Reset]		Indicates condition of engine start prohibit.
ID AUTHENT CANCEL TIMER [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 CRANK TMR [On/Off]		Indicates condition of automatic engine crank timer from Intelligent Key.
CRNK PRBT TME [sec]		Indicates condition of engine crank prohibit time.
AUT CRANK TMR [sec]		Indicates condition of automatic engine crank time from Intelligent Key.
CRANKING TME [sec]		Indicates condition of engine cranking time from Intelligent Key.
DETE SW PWR [On/Off]		Indicates condition of detent switch voltage.
ACC RLY -REQ [On/Off]		Indicates condition of accessory relay control request.
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
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 trunk 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.

ACTIVE TEST

Test Item	Description
INTELLIGENT KEY LINK (CAN)	This test is able to check Intelligent Key identification number [Off/ID No1/ID N02/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].

Test Item	Description
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 P/W 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 SORENOID TEST	This test is able to check shift lock solenoid operation [On/Off].

WORK SUPPORT

Support Item	Setting		Description
IGN/ACC BATTERY SAVER	On*		Battery saver function ON.
	Off		Battery saver function OFF.
REMOTE ENGINE STARTER	On*		Remote engine start function ON.
	Off		Remote engine start function OFF.
ANSWER BACK 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.
WELCOME LIGHT OP SET	On*		Door handle lamp function from request switch ON.
	Off		Door handle lamp function from request switch OFF.
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.
INTELLIGENT KEY LINK SET	On		Intelligent Key link set ON.
	Off*		Intelligent Key link set 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		—

Support Item	Setting		Description
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:0000000013577903

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

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.
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 trunk room lamp switch.

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

CONSULT Function

INFOID:0000000012851902

CAUTION:

After disconnecting the CONSULT vehicle interface (VI) from the data link connector, the ignition must be cycled OFF → ON (for at least 5 seconds) → OFF. If this step is not performed, the BCM may not go to "sleep mode", potentially causing a discharged battery and a no-start condition.

APPLICATION ITEMS

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

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

SELF DIAGNOSTIC RESULTS

Refer to DLK-57, "DTC Index".

DATA MONITOR

Monitor Item	Unit	Description
SPINDLE SENSOR LH	[Pulse]	Displays the condition of the LH encoder
SPINDLE LH SPEED	[mm/s]	Displays the LH spindle operation speed
SPINDLE MOTOR LH DUTY	[%]	Displays the condition of the spindle motor LH duty
VHCL SPEED MTR	[km/h]	Displays the vehicle speed signal received from combination meter by numerical value
VHCL SPEED ABS	[km/h]	Displays the vehicle speed signal received from ABS actuator and electrical unit by numerical value
MAIN SW	[ON/OFF]	Indicates condition of automatic back door main switch
AUTO BD SW	[ON/OFF]	Indicates condition of automatic back door switch
BK DOOR CL SW	[ON/OFF]	Indicates condition of automatic back door close switch
PKB SW	[ON/OFF]	Indicates condition of parking brake switch
BACK DOOR LOCK STATUS	[ON/OFF]	Indicates condition of back door lock status
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
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

Monitor Item	Unit	Description
SPINDLE SENSOR RH	[Pulse]	Displays the condition of the RH encoder
SPINDLE RH SPEED	[mm/s]	Displays the RH spindle operation speed
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

WORK SUPPORT

Work item	Description	Refer to
RESET AUTO BACK DOOR STATUS	This item is for calibration of automatic back door position information.	DLK-118, "Work Procedure"

ECU DIAGNOSIS INFORMATION

AUTOMATIC BACK DOOR CONTROL UNIT

Reference Value

INFOID:0000000012851903

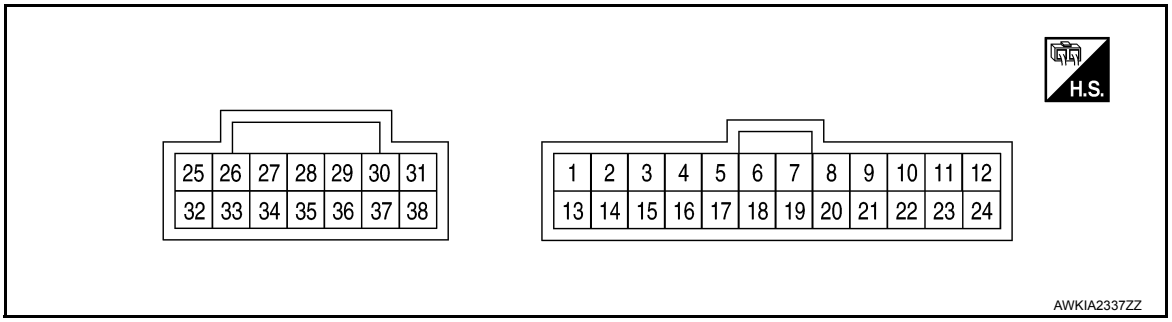
VALUES ON THE DIAGNOSIS TOOL

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
PKB SW	Parking brake switch	Release	OFF
		Press	ON
BACK DOOR LOCK STATUS	Back door lock	Lock	OFF
		Unlock	ON
OPEN SW	Back door	Half latch/fully closed	OFF
		Open	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 bellow	OFF
		Detect obstruction	ON
TOUCH SEN LH	Touch sensor LH	Other than bellow	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 second)	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
		Operate	Change HI or LO
SPINDLE LH ENCODER B	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO

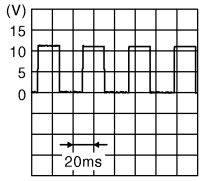
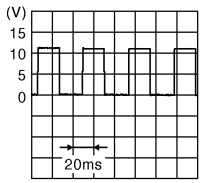
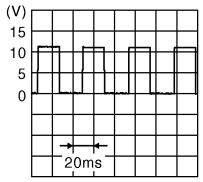
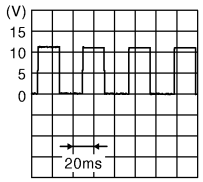
Monitor Item	Condition		Value/Status
DESTINATION	—		OTHER
AUTO BCK DR POS INITIAL	Calibration of automatic back door position information	Not complete	YET
		Complete	DONE
AUTO BCK DR POS LEARN	Additional service when removing battery negative terminal	Not complete	YET
		Complete	DONE
SPINDLE SENSOR RH	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 operate	No change HI or LO
		Operate	Change HI or LO
SPINDLE RH ENCODER B	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
1 (BR)	13 (SB)	Touch sensor RH signal	Input	Touch sensor RH	Detect obstruction	1.8 – 5 V
					Other than above	2.72 – 7.27 V
2 (LG)	13 (SB)	Touch sensor LH signal	Input	Touch sensor LH	Detect obstruction	1.8 – 5 V
					Other than above	2.72 – 7.27 V
3 (L)	Ground	Half latch switch signal	Input	Back door	Half latch	0 V
					Fully closed/open	Battery voltage
4* (GR)	Ground	Ground	—	—		0 V
5 (LG)	Ground	Close switch signal	Input	Back door	Fully closed	0 V
					Open/half latch	Battery voltage

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
6 (V)	Ground	Encoder LH A signal	Input	Back door	Moving (auto or manual)	 JMKIA1864ZZ **NOTE:** Waveform width changes according to back door open/close speed
					When stopped	0 V or Battery voltage
7 (Y)	Ground	Encoder LH B signal	Input	Back door	Moving (auto or manual)	 JMKIA1864ZZ **NOTE:** Waveform width changes according to back door open/close speed
					When stopped	0 V or 12 V
8 (BR)	Ground	Encoder RH A signal	Input	Back door	Moving (auto or manual)	 JMKIA1864ZZ **NOTE:** Waveform width changes according to back door open/close speed
					When stopped	0 V or 12 V
9 (L)	Ground	Encoder RH B signal	Input	Back door	Moving (auto or manual)	 JMKIA1864ZZ **NOTE:** Waveform width changes according to back door open/close speed
					When stopped	0 V or 12 V
10 (LG)	Ground	Automatic back door main switch	Input	Automatic back door main switch	ON	0 V
					OFF	Battery voltage
11 (BR)	Ground	Open switch signal	Input	Back door	Moving (auto or manual)	0 V
					When stopped	Battery voltage
12 (W)	Ground	CAN - L	Input/ Output	—		—

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
13 (SB)	Ground	Touch sensor ground	Input	—		0.01 – 0 V
18 (Shield)	Ground	Ground (noise shield)	—	—		0.01 – 0 V
19 (SB)	Ground	Encoder LH power supply	Output	—		Battery voltage
20 (Y)	Ground	Encoder RH power supply	Output	—		Battery voltage
21 (LG)	Ground	Encoder ground	—	—		0 V
22 (SB)	Ground	Automatic back door switch	Input	Automatic back door switch	Pressed	0 V
					Released	Battery voltage
23 (Y)	Ground	Automatic back door close switch	Input	Automatic back door close switch	Pressed	0 V
					Released	Battery voltage
24 (B)	Ground	CAN - H	Input/ Output	—		—
25 (B)	Ground	Power supply (BAT)	Input	—		Battery voltage
27 (B)	Ground	Spindle motor LH (open)	Output	Back door	Auto open operation	Battery voltage
28 (Shield)	Ground	Ground (noise shield)	—	—		0.01 – 0 V
29 (B)	Ground	Spindle motor RH (open)	Output	Back door	Auto open operation	Battery voltage
31 (B)	Ground	Back door closure motor (open)	Output	Back door	Open operation	Battery voltage
					Other than above	0 V
32 (B)	Ground	Ground	—	—		0 V
34 (W)	Ground	Spindle motor LH (close)	Output	Back door	Auto close operation	Battery voltage
36 (W)	Ground	Spindle motor RH (close)	Output	Back door	Auto close operation	Battery voltage
37 (LG)	Ground	Back door warning chime	Output	Automatic back door warning chime	Sounding	Battery voltage
					Not sounding	0 V
38 (W)	Ground	Back door closure motor (close)	Output	Back door	Close operation	Battery voltage
					Other than above	0 V

*: Except For Mexico

Fail Safe

INFOID:0000000012851904

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.

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

DTC Inspection Priority Chart

INFOID:0000000012851905

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:0000000012851906

NOTE:

Details of time display

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

CONSULT display	Fail-safe	Reference page
U1000: CAN COMM	×	DLK-119, "DTC Logic"
U1010: CONTROL UNIT(CAN)	×	DLK-120, "DTC Logic"
B2401: IGN OPEN	×	DLK-121, "DTC Logic"
B2409: HALF LATCH SW	×	DLK-122, "DTC Logic"
B2416: TOUCH SEN R OPEN	×	DLK-125, "DTC Logic"
B2417: TOUCH SEN L OPEN	×	DLK-128, "DTC Logic"

CONSULT display	Fail-safe	Reference page
B2419: OPEN SW	×	DLK-131, "DTC Logic"
B2420: CLOSE SW	×	DLK-134, "DTC Logic"
B2422: BACK DOOR STATE	×	DLK-137, "DTC Logic"
B2423: ABD MTR TIME OUT	×	DLK-140, "DTC Logic"
B2426: SPINDLE SENSOR LH	×	DLK-142, "DTC Logic"
B2427: SPINDLE SENSOR RH	×	DLK-145, "DTC Logic"
B2428: AUTO BACK DR CNT UNIT	×	DLK-148, "DTC Logic"
B242A: CLSR CONDITION	×	DLK-149, "DTC Logic"

BCM

List of ECU Reference

INFOID:0000000012851907

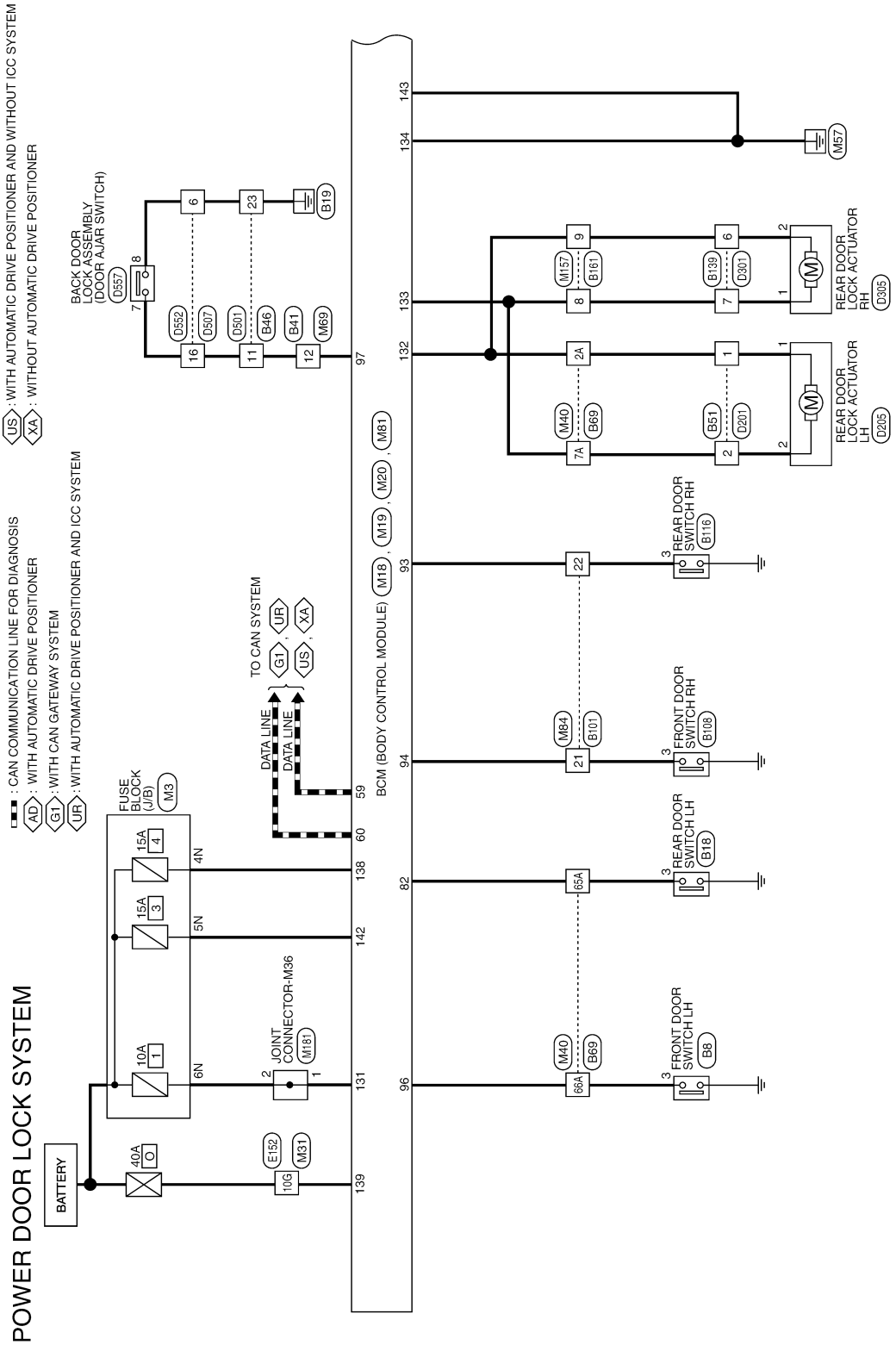
ECU	Reference
BCM	BCS-30, "Reference Value"
	BCS-49, "Fail Safe"
	BCS-50, "DTC Inspection Priority Chart"
	BCS-51, "DTC Index"

WIRING DIAGRAM

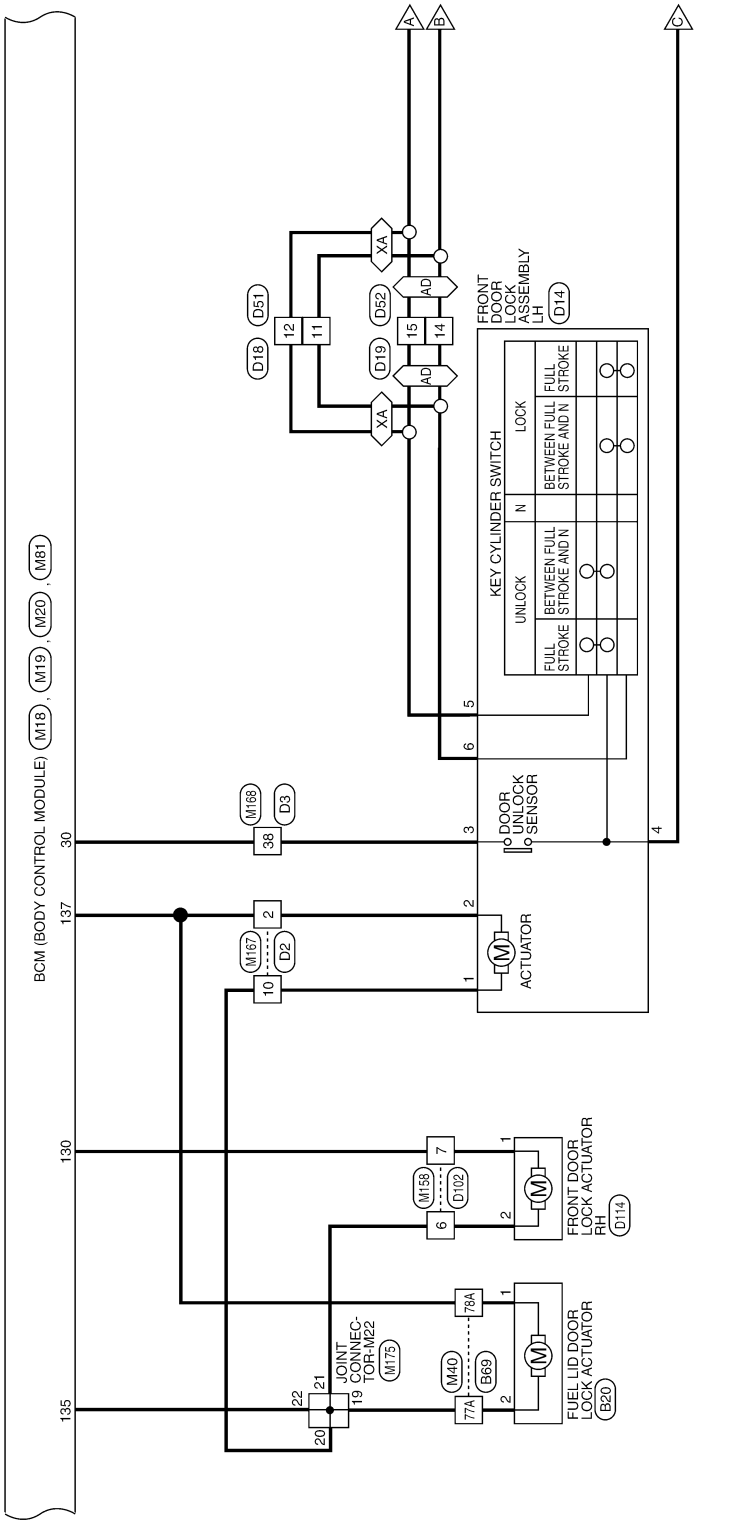
POWER DOOR LOCK SYSTEM

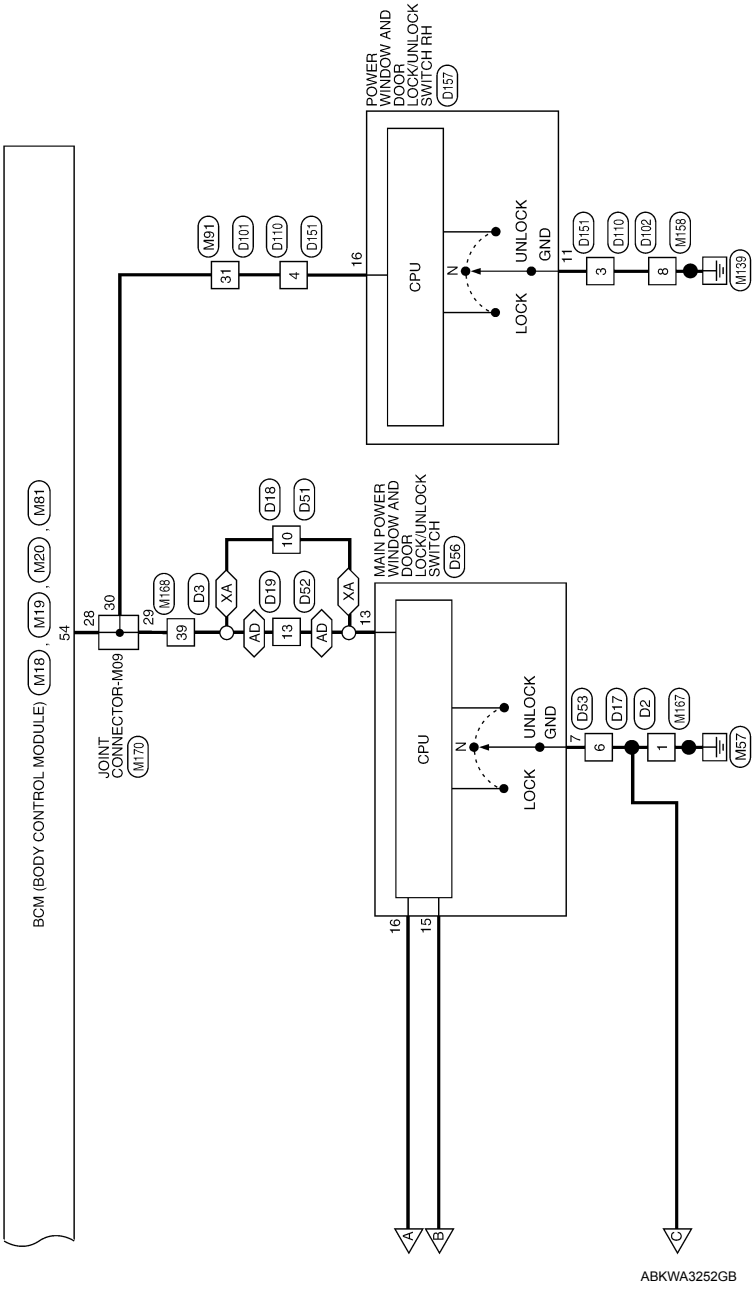
Wiring Diagram

INFOID:0000000012851908



ABKWA3250GB


BCM (BODY CONTROL MODULE) M18 , M19 , M20 , M81
30
137
130
135
M168
D3
38
M167
D2
10
2
7
M158
D102
6
78A
77A
M40
B69
JOINT CONNEC-TOR-M22
M175
21
19
22
20
A
B
C
XA
AD
D51
D18
D52
D19
12
11
15
14
FRONT DOOR LOCK ASSEMBLY LH
D14
KEY CYLINDER SWITCH
UNLOCK
N
LOCK
FULL STROKE
BETWEEN FULL STROKE AND N
FULL STROKE
BETWEEN FULL STROKE AND N
FULL STROKE
5
6
3
4
DOOR UNLOCK SENSOR
2
1
ACTUATOR
FRONT DOOR LOCK ACTUATOR RH
D114
FUEL LID DOOR LOCK ACTUATOR
B20
ABKWA3251GB


POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
D157
CPU
UNLOCK
LOCK
GND
M91
D101
D110
D151
31
4
16
11
D151
D110
D102
M158
3
8
M139
MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
D56
D18
D51
10
M168
D3
XA
AD
D19
D52
13
28
30
29
39
54
BCM (BODY CONTROL MODULE)
M18
M19
M20
M81
JOINT CONNECTOR-M09
M170
D53
D17
D2
M167
7
6
1
M57
16
15
A
B
C
ABKWA3252GB

POWER DOOR LOCK SYSTEM CONNECTORS

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

H.S.

1 2 3 4

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

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

H.S.

1 2 3 4

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	SB	RL DOOR SW
4	–	–

Connector No.	B20
Connector Name	FUEL LID DOOR LOCK ACTUATOR
Connector Type	M04FW-LC
Connector Color	WHITE

H.S.

4 2
3 1

Terminal No.	Color of Wire	Signal Name
1	LG	UNLOCK
2	Y	LOCK
3	–	–
4	–	–

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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	W	TO MAIN HARNESS - (WITHOUT NAVI)
1	R	TO MAIN HARNESS - (WITH NAVI)
2	R	TO MAIN HARNESS - (WITHOUT NAVI)
2	W	TO MAIN HARNESS - (WITH NAVI)
3	B	TO MAIN HARNESS
4	SHIELD	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	SHIELD	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	R	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	–	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	BG	TO MAIN HARNESS - (WITHOUT NAVI)
17	V	TO MAIN HARNESS - (WITH NAVI)
18	SB	TO MAIN HARNESS - (WITHOUT NAVI)
18	W	TO MAIN HARNESS - (WITH NAVI)
19	W	TO MAIN HARNESS - (WITHOUT NAVI)
19	B	TO MAIN HARNESS - (WITH NAVI)
20	B	TO MAIN HARNESS - (WITHOUT NAVI)
20	W	TO MAIN HARNESS - (WITH NAVI)
21	R	TO MAIN HARNESS - (WITHOUT NAVI)
21	SHIELD	TO MAIN HARNESS - (WITH NAVI)
22	G	TO MAIN HARNESS - (WITHOUT NAVI)
22	W	TO MAIN HARNESS - (WITH NAVI)
23	SHIELD	TO MAIN HARNESS - (WITHOUT NAVI)
23	R	TO MAIN HARNESS - (WITH NAVI)
24	SHIELD	TO MAIN HARNESS
25	B	TO MAIN HARNESS
26	G	TO MAIN HARNESS
27	W	TO MAIN HARNESS - (WITH NAVI)
27	R	TO MAIN HARNESS - (WITHOUT NAVI)
28	R	TO MAIN HARNESS - (WITH NAVI)
28	B	TO MAIN HARNESS - (WITHOUT NAVI)
29	G	TO MAIN HARNESS - (WITH NAVI)
29	W	TO MAIN HARNESS - (WITHOUT NAVI)
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	V	TO BACK DOOR LH HARNESS
2	Y	TO BACK DOOR LH HARNESS
3	BR	TO BACK DOOR LH HARNESS
4	SB	TO BACK DOOR LH HARNESS
5	LG	TO BACK DOOR LH HARNESS
6	L	TO BACK DOOR LH HARNESS
7	LG	TO BACK DOOR LH HARNESS
8	BR	TO BACK DOOR LH HARNESS
9	W	TO BACK DOOR LH HARNESS
10	R	TO BACK DOOR LH HARNESS
11	G	TO BACK DOOR LH HARNESS
12	W	TO BACK DOOR LH HARNESS
13	W	TO BACK DOOR LH HARNESS - (WITH NAVI)
13	R	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
14	R	TO BACK DOOR LH HARNESS - (WITH NAVI)
14	B	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
15	G	TO BACK DOOR LH HARNESS - (WITH NAVI)
15	W	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
16	SHIELD	TO BACK DOOR LH HARNESS
17	B	TO BACK DOOR LH HARNESS
18	–	TO BACK DOOR LH HARNESS
19	W	TO BACK DOOR LH HARNESS
20	W	TO BACK DOOR LH HARNESS
21	G	TO BACK DOOR LH HARNESS
22	BR	TO BACK DOOR LH HARNESS
23	GR	TO BACK DOOR LH HARNESS
24	G	TO BACK DOOR LH HARNESS

ABKIA7496GB

POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	B51
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	TO REAR DOOR LH HARNESS
2	BR	TO REAR DOOR LH HARNESS
3	B	TO REAR DOOR LH HARNESS
4	R	TO REAR DOOR LH HARNESS
5	–	TO REAR DOOR LH HARNESS
6	–	TO REAR DOOR LH HARNESS
7	–	TO REAR DOOR LH HARNESS
8	Y	TO REAR DOOR LH HARNESS
9	–	TO REAR DOOR LH HARNESS
10	–	TO REAR DOOR LH HARNESS
11	R	TO REAR DOOR LH HARNESS
12	P	TO REAR DOOR LH HARNESS

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	–	TO MAIN HARNESS
2A	Y	TO MAIN HARNESS
3A	Y	TO MAIN HARNESS
4A	G	TO MAIN HARNESS
5A	–	TO MAIN HARNESS
6A	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	R	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	BR	TO MAIN HARNESS
8A	G	TO MAIN HARNESS
9A	P	TO MAIN HARNESS
10A	–	TO MAIN HARNESS
11A	W	TO MAIN HARNESS
12A	G	TO MAIN HARNESS
13A	–	TO MAIN HARNESS
14A	R	TO MAIN HARNESS
15A	G	TO MAIN HARNESS
16A	W	TO MAIN HARNESS
17A	B	TO MAIN HARNESS
18A	B	TO MAIN HARNESS
19A	SHIELD	TO MAIN HARNESS
20A	W	TO MAIN HARNESS
21A	SHIELD	TO MAIN HARNESS
22A	–	TO MAIN HARNESS
23A	W	TO MAIN HARNESS
24A	B	TO MAIN HARNESS

25A	SHIELD	TO MAIN HARNESS
26A	B	TO MAIN HARNESS
27A	B	TO MAIN HARNESS
28A	SHIELD	TO MAIN HARNESS
29A	R	TO MAIN HARNESS
30A	B	TO MAIN HARNESS
31A	BR	TO MAIN HARNESS
32A	–	TO MAIN HARNESS
33A	W	TO MAIN HARNESS
34A	B	TO MAIN HARNESS
35A	SHIELD	TO MAIN HARNESS
36A	–	TO MAIN HARNESS
37A	LG	TO MAIN HARNESS
38A	V	TO MAIN HARNESS
39A	SB	TO MAIN HARNESS
40A	BR	TO MAIN HARNESS
41A	Y	TO MAIN HARNESS
42A	–	TO MAIN HARNESS
43A	–	TO MAIN HARNESS
44A	V	TO MAIN HARNESS
45A	G	TO MAIN HARNESS
46A	V	TO MAIN HARNESS
47A	L	TO MAIN HARNESS
48A	SB	TO MAIN HARNESS
49A	G	TO MAIN HARNESS
50A	W	TO MAIN HARNESS
51A	–	TO MAIN HARNESS
52A	–	TO MAIN HARNESS
53A	R	TO MAIN HARNESS
54A	SB	TO MAIN HARNESS
55A	LG	TO MAIN HARNESS
56A	Y	TO MAIN HARNESS
57A	SB	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
57A	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
58A	BR	TO MAIN HARNESS
59A	BR	TO MAIN HARNESS
60A	L	TO MAIN HARNESS
61A	Y	TO MAIN HARNESS
62A	–	TO MAIN HARNESS
63A	P	TO MAIN HARNESS
64A	R	TO MAIN HARNESS
65A	SB	TO MAIN HARNESS
66A	L	TO MAIN HARNESS
67A	LG	TO MAIN HARNESS
68A	P	TO MAIN HARNESS
69A	W	TO MAIN HARNESS
70A	G	TO MAIN HARNESS
71A	BR	TO MAIN HARNESS
72A	–	TO MAIN HARNESS
73A	Y	TO MAIN HARNESS
74A	P	TO MAIN HARNESS
75A	V	TO MAIN HARNESS

76A	R	TO MAIN HARNESS
77A	Y	TO MAIN HARNESS
78A	LG	TO MAIN HARNESS
79A	BR	TO MAIN HARNESS
80A	Y	TO MAIN HARNESS
81A	L	TO MAIN HARNESS
82A	BG	TO MAIN HARNESS
83A	Y	TO MAIN HARNESS
84A	LG	TO MAIN HARNESS
85A	SHIELD	TO MAIN HARNESS
86A	LG	TO MAIN HARNESS
87A	SB	TO MAIN HARNESS
88A	BG	TO MAIN HARNESS
89A	L	TO MAIN HARNESS
90A	P	TO MAIN HARNESS
91A	L	TO MAIN HARNESS
92A	LG	TO MAIN HARNESS
93A	B	TO MAIN HARNESS
94A	–	TO MAIN HARNESS
95A	–	TO MAIN HARNESS
96A	–	TO MAIN HARNESS
97A	BR	TO MAIN HARNESS
98A	L	TO MAIN HARNESS
99A	–	TO MAIN HARNESS
100A	–	TO MAIN HARNESS

ABKIA7497GB

POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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	B	TO MAIN HARNESS
2	W	TO MAIN HARNESS
3	SHIELD	TO MAIN HARNESS
4	R	TO MAIN HARNESS
5	V	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	Y	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
6	W	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
7	R	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
7	W	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO MAIN HARNESS - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	R	TO MAIN HARNESS - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO MAIN HARNESS
10	G	TO MAIN HARNESS
11	SB	TO MAIN HARNESS
12	P	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	L	TO MAIN HARNESS
18	P	TO MAIN HARNESS
19	LG	TO MAIN HARNESS
20	BR	TO MAIN HARNESS
21	LG	TO MAIN HARNESS
22	LG	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	V	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
24	BR	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
25	SB	TO MAIN HARNESS
26	LG	TO MAIN HARNESS
27	Y	TO MAIN HARNESS
28	Y	TO MAIN HARNESS
29	SB	TO MAIN HARNESS
30	LG	TO MAIN HARNESS
31	G	TO MAIN HARNESS
32	–	TO MAIN HARNESS

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

H.S.

1	2	3	4

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

Connector No.	B116
Connector Name	REAR DOOR SWITCH RH
Connector Type	TH04FW-NH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	LG	RR DOOR SW
4	–	–

Connector No.	B139
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	TO REAR DOOR RH HARNESS
2	–	TO REAR DOOR RH HARNESS
3	B	TO REAR DOOR RH HARNESS
4	G	TO REAR DOOR RH HARNESS
5	–	TO REAR DOOR RH HARNESS
6	BR	TO REAR DOOR RH HARNESS
7	Y	TO REAR DOOR RH HARNESS
8	Y	TO REAR DOOR RH HARNESS
9	–	TO REAR DOOR RH HARNESS
10	–	TO REAR DOOR RH HARNESS
11	SB	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
11	W	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
12	LG	TO REAR DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
12	G	TO REAR DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

Connector No.	B161
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	TO MAIN HARNESS
2	Y	TO MAIN HARNESS
3	–	TO MAIN HARNESS
4	–	TO MAIN HARNESS
5	–	TO MAIN HARNESS
6	–	TO MAIN HARNESS
7	B	TO MAIN HARNESS
8	Y	TO MAIN HARNESS
9	BR	TO MAIN HARNESS
10	Y	TO MAIN HARNESS
11	LG	TO MAIN HARNESS
12	V	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
12	W	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
13	SB	TO MAIN HARNESS
14	W	TO MAIN HARNESS
15	SHIELD	TO MAIN HARNESS
16	–	TO MAIN HARNESS

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

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

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POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	D3
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	G/B	TO MAIN HARNESS
4	SB	TO MAIN HARNESS
5	LG	TO MAIN HARNESS
6	L	TO MAIN HARNESS
7	BR	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
9	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
10	BR	TO MAIN HARNESS
11	Y	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	Y	TO MAIN HARNESS
14	LG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
14	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	BR	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
15	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
16	LG	TO MAIN HARNESS
17	L	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	BG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	BR	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	L	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	Y	TO MAIN HARNESS
20	LG	TO MAIN HARNESS
21	LG	TO MAIN HARNESS
22	Y	TO MAIN HARNESS
23	LG	TO MAIN HARNESS
24	SB	TO MAIN HARNESS
25	BR	TO MAIN HARNESS
26	B	TO MAIN HARNESS
27	–	TO MAIN HARNESS
28	G	TO MAIN HARNESS
29	SHIELD	TO MAIN HARNESS
30	R	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	W	TO MAIN HARNESS
33	V	TO MAIN HARNESS
34	Y	TO MAIN HARNESS
35	BG	TO MAIN HARNESS
36	SB	TO MAIN HARNESS
37	V	TO MAIN HARNESS
38	LG	TO MAIN HARNESS
39	Y	TO MAIN HARNESS
40	BR	TO MAIN HARNESS

Connector No.	D14
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Type	E06FGY-RS
Connector Color	GRAY

H.S.

1	2	3	4	5	6

Terminal No.	Color of Wire	Signal Name
1	V	DOOR LOCK
2	Y	DOOR UNLOCK
3	LG	DR DOOR LOCK STATUS
4	B	GROUND
5	SB	POWER WINDOW UNLOCK
6	BR	POWER WINDOW LOCK

Connector No.	D17
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

3		2	1
8	7	6	5	4

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT DOOR LH SUB HARNESS
2	V	TO FRONT DOOR LH SUB HARNESS
3	LG	TO FRONT DOOR LH SUB HARNESS
4	BG	TO FRONT DOOR LH SUB HARNESS
5	BR	TO FRONT DOOR LH SUB HARNESS
6	B	TO FRONT DOOR LH SUB HARNESS
7	BR	TO FRONT DOOR LH SUB HARNESS
8	L	TO FRONT DOOR LH SUB HARNESS
16	V	TO FRONT DOOR LH SUB HARNESS

Connector No.	D18
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO FRONT DOOR LH SUB HARNESS
2	LG	TO FRONT DOOR LH SUB HARNESS
3	L	TO FRONT DOOR LH SUB HARNESS
4	LG	TO FRONT DOOR LH SUB HARNESS
5	BR	TO FRONT DOOR LH SUB HARNESS
6	BG	TO FRONT DOOR LH SUB HARNESS
7	L	TO FRONT DOOR LH SUB HARNESS
8	LG	TO FRONT DOOR LH SUB HARNESS
9	–	TO FRONT DOOR LH SUB HARNESS
10	Y	TO FRONT DOOR LH SUB HARNESS
11	BR	TO FRONT DOOR LH SUB HARNESS
12	SB	TO FRONT DOOR LH SUB HARNESS
13	LG	TO FRONT DOOR LH SUB HARNESS
14	BR	TO FRONT DOOR LH SUB HARNESS
15	Y	TO FRONT DOOR LH SUB HARNESS

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POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	D19
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	TO FRONT DOOR LH SUB HARNESS
2	BR	TO FRONT DOOR LH SUB HARNESS
3	LG	TO FRONT DOOR LH SUB HARNESS
4	LG	TO FRONT DOOR LH SUB HARNESS
5	Y	TO FRONT DOOR LH SUB HARNESS
6	BR	TO FRONT DOOR LH SUB HARNESS
7	SB	TO FRONT DOOR LH SUB HARNESS
8	LG	TO FRONT DOOR LH SUB HARNESS
9	L	TO FRONT DOOR LH SUB HARNESS
10	BR	TO FRONT DOOR LH SUB HARNESS
11	V	TO FRONT DOOR LH SUB HARNESS
12	Y	TO FRONT DOOR LH SUB HARNESS
13	Y	TO FRONT DOOR LH SUB HARNESS
14	BR	TO FRONT DOOR LH SUB HARNESS
15	SB	TO FRONT DOOR LH SUB HARNESS
16	Y	TO FRONT DOOR LH SUB HARNESS
17	LG	TO FRONT DOOR LH SUB HARNESS
18	SB	TO FRONT DOOR LH SUB HARNESS
19	BR	TO FRONT DOOR LH SUB HARNESS
20	L	TO FRONT DOOR LH SUB HARNESS
21	V	TO FRONT DOOR LH SUB HARNESS
22	BR	TO FRONT DOOR LH SUB HARNESS
23	B	TO FRONT DOOR LH SUB HARNESS
24	B	TO FRONT DOOR LH SUB HARNESS

Connector No.	D51
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	GR	TO FRONT DOOR LH HARNESS
2	LG	TO FRONT DOOR LH HARNESS
3	L	TO FRONT DOOR LH HARNESS
4	O	TO FRONT DOOR LH HARNESS
5	W	TO FRONT DOOR LH HARNESS
6	W	TO FRONT DOOR LH HARNESS
7	GR	TO FRONT DOOR LH HARNESS
8	LG	TO FRONT DOOR LH HARNESS
9	–	TO FRONT DOOR LH HARNESS
10	Y	TO FRONT DOOR LH HARNESS
11	BR	TO FRONT DOOR LH HARNESS
12	SB	TO FRONT DOOR LH HARNESS
13	LG	TO FRONT DOOR LH HARNESS
14	BR	TO FRONT DOOR LH HARNESS
15	Y	TO FRONT DOOR LH HARNESS
16	W	TO FRONT DOOR LH HARNESS

Connector No.	D52
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	LG	TO FRONT DOOR LH HARNESS
2	BR	TO FRONT DOOR LH HARNESS
3	LG	TO FRONT DOOR LH HARNESS
4	O	TO FRONT DOOR LH HARNESS
5	Y	TO FRONT DOOR LH HARNESS
6	BR	TO FRONT DOOR LH HARNESS
7	SB	TO FRONT DOOR LH HARNESS
8	LG	TO FRONT DOOR LH HARNESS
9	L	TO FRONT DOOR LH HARNESS
10	BR	TO FRONT DOOR LH HARNESS
11	V	TO FRONT DOOR LH HARNESS
12	Y	TO FRONT DOOR LH HARNESS
13	Y	TO FRONT DOOR LH HARNESS
14	BR	TO FRONT DOOR LH HARNESS
15	SB	TO FRONT DOOR LH HARNESS
16	Y	TO FRONT DOOR LH HARNESS
17	LG	TO FRONT DOOR LH HARNESS
18	SB	TO FRONT DOOR LH HARNESS
19	BR	TO FRONT DOOR LH HARNESS
20	L	TO FRONT DOOR LH HARNESS
21	V	TO FRONT DOOR LH HARNESS
22	BR	TO FRONT DOOR LH HARNESS
23	B	TO FRONT DOOR LH HARNESS
24	B	TO FRONT DOOR LH HARNESS

Connector No.	D53
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS
Connector Color	WHITE

H.S.

1	2	3
4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
1	O	TO FRONT DOOR LH HARNESS
2	V	TO FRONT DOOR LH HARNESS
3	Y	TO FRONT DOOR LH HARNESS
4	R	TO FRONT DOOR LH HARNESS
5	W	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
5	BR	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
6	B	TO FRONT DOOR LH HARNESS
7	BR	TO FRONT DOOR LH HARNESS
8	L	TO FRONT DOOR LH HARNESS

Connector No.	D56
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	R	ENCODER +
4	Y	B+
5	BR	MOTOR DN DR
6	L	MOTOR UP DR
7	B	GND
8	–	–
9	W	IGN (RAP) (WITHOUT AUTOMATIC DRIVE POSITIONER)
9	BR	IGN (RAP) (WITH AUTOMATIC DRIVE POSITIONER)
10	LG	ENCODER GND
11	V	ENCODER SIG1 (DLP)
12	O	ENCODER SIG2 (ULP)
13	Y	COM
14	–	–
15	BR	LOCK SW (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	W	LOCK SW (WITH AUTOMATIC DRIVE POSITIONER)
16	SB	UNLOCK SW

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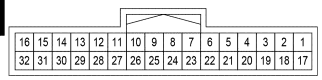
POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

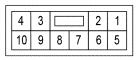
H.S.



Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	W	TO MAIN HARNESS
6	Y	TO MAIN HARNESS
7	L	TO MAIN HARNESS
8	BR	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	BR	TO MAIN HARNESS
11	LG	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	W/B	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	LG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	L	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	BR	TO MAIN HARNESS
20	SB	TO MAIN HARNESS
21	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	G	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
22	Y	TO MAIN HARNESS
23	LG	TO MAIN HARNESS
24	BR	TO MAIN HARNESS
25	Y	TO MAIN HARNESS
26	LG	TO MAIN HARNESS
27	–	TO MAIN HARNESS
28	–	TO MAIN HARNESS
29	Y	TO MAIN HARNESS
30	LG	TO MAIN HARNESS
31	BR	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS
Connector Color	WHITE

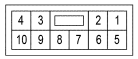
H.S.



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

Connector No.	D110
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS
Connector Color	WHITE

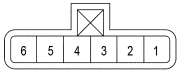
H.S.



Terminal No.	Color of Wire	Signal Name
1	BR	TO FRONT DOOR RH SUB HARNESS
2	BR	TO FRONT DOOR RH SUB HARNESS
3	B	TO FRONT DOOR RH SUB HARNESS
4	BR	TO FRONT DOOR RH SUB HARNESS
5	V	TO FRONT DOOR RH SUB HARNESS
6	BG	TO FRONT DOOR RH SUB HARNESS
7	W	TO FRONT DOOR RH SUB HARNESS
8	LG	TO FRONT DOOR RH SUB HARNESS
9	L	TO FRONT DOOR RH SUB HARNESS
10	–	TO FRONT DOOR RH SUB HARNESS

Connector No.	D114
Connector Name	FRONT DOOR LOCK ACTUATOR RH
Connector Type	E06FGY-RS
Connector Color	GRAY

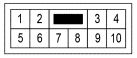
H.S.



Terminal No.	Color of Wire	Signal Name
1	LG	UNLOCK
2	Y	LOCK
3	–	–
4	–	–
5	–	–
6	–	–

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	BR	TO FRONT DOOR RH HARNESS
2	Y	TO FRONT DOOR RH HARNESS
3	B	TO FRONT DOOR RH HARNESS
4	BR	TO FRONT DOOR RH HARNESS
5	V	TO FRONT DOOR RH HARNESS
6	R	TO FRONT DOOR RH HARNESS
7	O	TO FRONT DOOR RH HARNESS
8	LG	TO FRONT DOOR RH HARNESS
9	L	TO FRONT DOOR RH HARNESS
10	–	TO FRONT DOOR RH HARNESS

Connector No.	D157
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	LG	ENCODER GND
4	R	ENCODER +
5	–	–
6	–	–
7	–	–
8	L	MOTOR UP AS
9	BR	MOTOR DN AS
10	Y	B+
11	B	GND
12	V	(DLP) ENCODER SIG1
13	–	–
14	–	–
15	O	(ULP) ENCODER SIG2
16	BR	COM

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POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	BR	TO BODY HARNESS
2	L	TO BODY HARNESS
3	B	TO BODY HARNESS
4	SB	TO BODY HARNESS
5	–	TO BODY HARNESS
6	–	TO BODY HARNESS
7	–	TO BODY HARNESS
8	V	TO BODY HARNESS
9	R/W	TO BODY HARNESS
10	R/G	TO BODY HARNESS
11	Y	TO BODY HARNESS
12	LG	TO BODY HARNESS

Connector No.	D205
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Type	E06FGY-RS
Connector Color	GRAY

H.S.

1	2	3	4	5	6

Terminal No.	Color of Wire	Signal Name
1	BR	LOCK
2	L	UNLOCK
3	–	–
4	–	–
5	–	–
6	–	–

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	W/V	TO BODY HARNESS RH
2	–	TO BODY HARNESS RH
3	B	TO BODY HARNESS RH
4	V	TO BODY HARNESS RH
5	–	TO BODY HARNESS RH
6	Y	TO BODY HARNESS RH
7	LG	TO BODY HARNESS RH
8	SB	TO BODY HARNESS RH
9	R/W	TO BODY HARNESS RH
10	R/G	TO BODY HARNESS RH
11	G	TO BODY HARNESS RH
12	W	TO BODY HARNESS RH

Connector No.	D305
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Type	E06FGY-RS
Connector Color	GRAY

H.S.

6	5	4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	LG	UNLOCK
2	Y	LOCK
3	–	–
4	–	–
5	–	–
6	–	–

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

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

Connector No.	D507
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

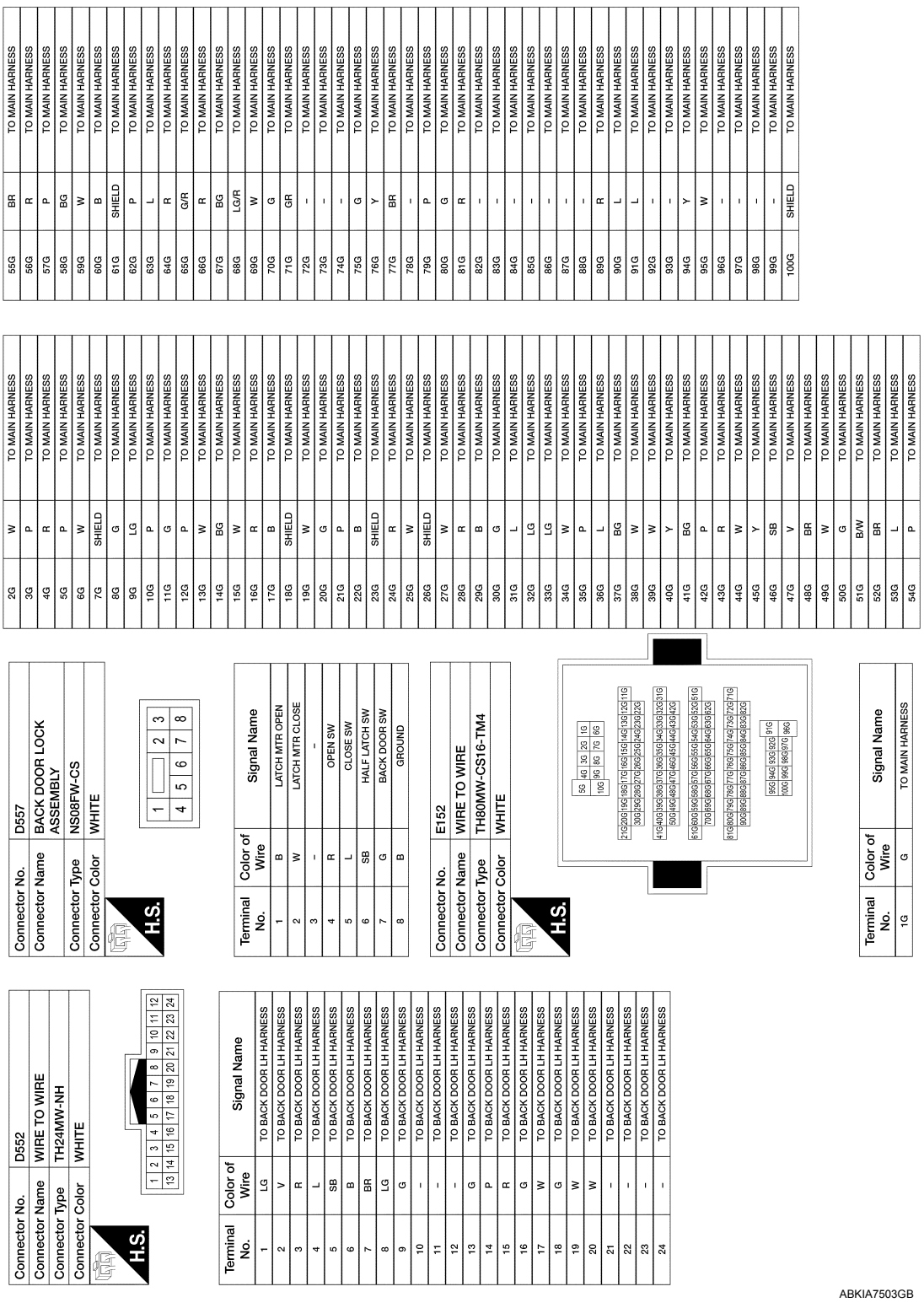
H.S.

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

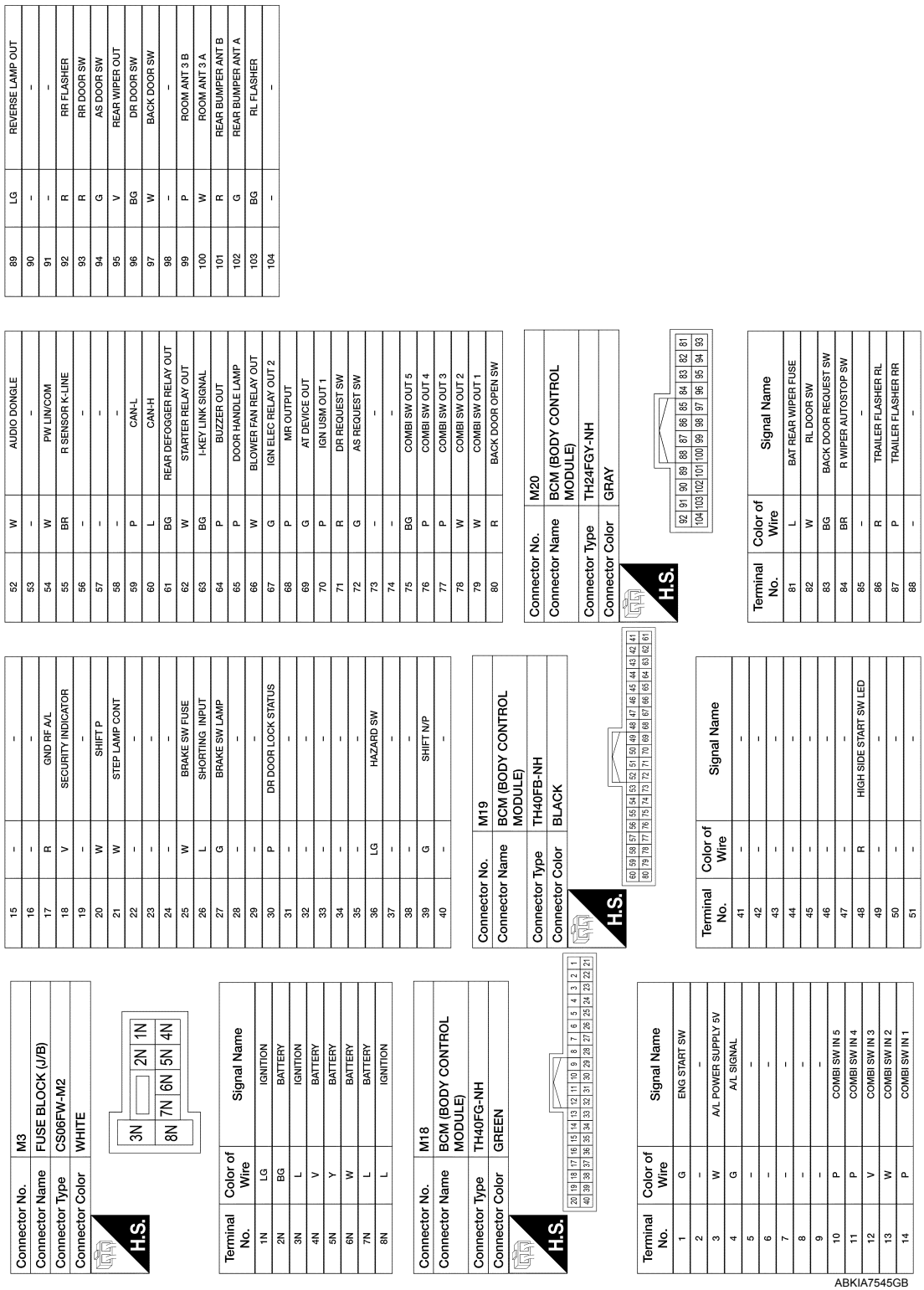
Terminal No.	Color of Wire	Signal Name
1	LG	TO BACK DOOR RH HARNESS
2	V	TO BACK DOOR RH HARNESS
3	R	TO BACK DOOR RH HARNESS
4	L	TO BACK DOOR RH HARNESS
5	SB	TO BACK DOOR RH HARNESS
6	Y	TO BACK DOOR RH HARNESS
7	Y	TO BACK DOOR RH HARNESS
8	LG	TO BACK DOOR RH HARNESS
9	G	TO BACK DOOR RH HARNESS
10	–	TO BACK DOOR RH HARNESS
11	–	TO BACK DOOR RH HARNESS
12	–	TO BACK DOOR RH HARNESS
13	G	TO BACK DOOR RH HARNESS
14	BR	TO BACK DOOR RH HARNESS
15	BG	TO BACK DOOR RH HARNESS
16	P	TO BACK DOOR RH HARNESS
17	W	TO BACK DOOR RH HARNESS
18	G	TO BACK DOOR RH HARNESS
19	W	TO BACK DOOR RH HARNESS
20	W	TO BACK DOOR RH HARNESS
21	–	TO BACK DOOR RH HARNESS
22	–	TO BACK DOOR RH HARNESS
23	–	TO BACK DOOR RH HARNESS
24	–	TO BACK DOOR RH HARNESS

ABKIA7502GB

POWER DOOR LOCK SYSTEM CONNECTORS



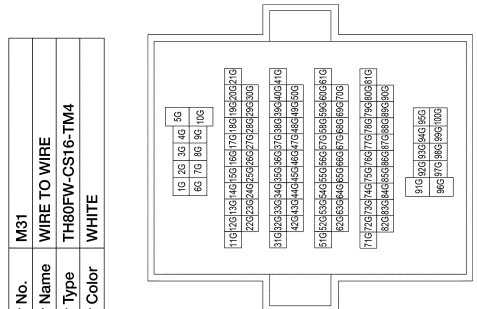
POWER DOOR LOCK SYSTEM CONNECTORS



POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
1G	P	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
2G	W	TO ENGINE ROOM HARNESS
3G	P	TO ENGINE ROOM HARNESS
4G	G	TO ENGINE ROOM HARNESS
5G	P	TO ENGINE ROOM HARNESS
6G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6G	R	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7G	SHIELD	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	BG	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R	TO ENGINE ROOM HARNESS
12G	G	TO ENGINE ROOM HARNESS
13G	G	TO ENGINE ROOM HARNESS
14G	V	TO ENGINE ROOM HARNESS
15G	W	TO ENGINE ROOM HARNESS
16G	R	TO ENGINE ROOM HARNESS
17G	B	TO ENGINE ROOM HARNESS
18G	SHIELD	TO ENGINE ROOM HARNESS
19G	SB	TO ENGINE ROOM HARNESS
20G	LG	TO ENGINE ROOM HARNESS
21G	R	TO ENGINE ROOM HARNESS
22G	B	TO ENGINE ROOM HARNESS
23G	SHIELD	TO ENGINE ROOM HARNESS
24G	W	TO ENGINE ROOM HARNESS
25G	R	TO ENGINE ROOM HARNESS
26G	SHIELD	TO ENGINE ROOM HARNESS
27G	B	TO ENGINE ROOM HARNESS
28G	W	TO ENGINE ROOM HARNESS
29G	G	TO ENGINE ROOM HARNESS
30G	R	TO ENGINE ROOM HARNESS
31G	L	TO ENGINE ROOM HARNESS
32G	G	TO ENGINE ROOM HARNESS
33G	G	TO ENGINE ROOM HARNESS
34G	G	TO ENGINE ROOM HARNESS
35G	P	TO ENGINE ROOM HARNESS
36G	L	TO ENGINE ROOM HARNESS
37G	L	TO ENGINE ROOM HARNESS
38G	W	TO ENGINE ROOM HARNESS
39G	R	TO ENGINE ROOM HARNESS
40G	Y	TO ENGINE ROOM HARNESS
41G	L	TO ENGINE ROOM HARNESS
42G	P	TO ENGINE ROOM HARNESS
43G	W	TO ENGINE ROOM HARNESS
44G	G	TO ENGINE ROOM HARNESS
45G	R	TO ENGINE ROOM HARNESS
46G	Y	TO ENGINE ROOM HARNESS
47G	Y	TO ENGINE ROOM HARNESS
48G	LG	TO ENGINE ROOM HARNESS
49G	P	TO ENGINE ROOM HARNESS
50G	L	TO ENGINE ROOM HARNESS
51G	B/W	TO ENGINE ROOM HARNESS
52G	BR	TO ENGINE ROOM HARNESS
53G	L	TO ENGINE ROOM HARNESS
54G	BG	TO ENGINE ROOM HARNESS
55G	G	TO ENGINE ROOM HARNESS
56G	P	TO ENGINE ROOM HARNESS
57G	P	TO ENGINE ROOM HARNESS
58G	L	TO ENGINE ROOM HARNESS
59G	B	TO ENGINE ROOM HARNESS
60G	W	TO ENGINE ROOM HARNESS
61G	SHIELD	TO ENGINE ROOM HARNESS
62G	G	TO ENGINE ROOM HARNESS
63G	P	TO ENGINE ROOM HARNESS
64G	W	TO ENGINE ROOM HARNESS
65G	G/R	TO ENGINE ROOM HARNESS
66G	R	TO ENGINE ROOM HARNESS
67G	W	TO ENGINE ROOM HARNESS
68G	LG/R	TO ENGINE ROOM HARNESS
69G	P	TO ENGINE ROOM HARNESS
70G	BG	TO ENGINE ROOM HARNESS
71G	GR	TO ENGINE ROOM HARNESS
72G	-	TO ENGINE ROOM HARNESS
73G	-	TO ENGINE ROOM HARNESS
74G	-	TO ENGINE ROOM HARNESS
75G	G	TO ENGINE ROOM HARNESS
76G	Y	TO ENGINE ROOM HARNESS
77G	BR	TO ENGINE ROOM HARNESS
78G	-	TO ENGINE ROOM HARNESS
79G	R	TO ENGINE ROOM HARNESS
80G	W	TO ENGINE ROOM HARNESS
81G	G	TO ENGINE ROOM HARNESS
82G	P	TO ENGINE ROOM HARNESS
83G	P	TO ENGINE ROOM HARNESS
84G	P	TO ENGINE ROOM HARNESS
85G	P	TO ENGINE ROOM HARNESS
86G	P	TO ENGINE ROOM HARNESS
87G	P	TO ENGINE ROOM HARNESS
88G	P	TO ENGINE ROOM HARNESS
89G	R	TO ENGINE ROOM HARNESS
90G	P	TO ENGINE ROOM HARNESS
91G	L	TO ENGINE ROOM HARNESS
92G	P	TO ENGINE ROOM HARNESS
93G	P	TO ENGINE ROOM HARNESS
94G	O	TO ENGINE ROOM HARNESS
95G	B	TO ENGINE ROOM HARNESS
96G	P	TO ENGINE ROOM HARNESS
97G	P	TO ENGINE ROOM HARNESS
98G	P	TO ENGINE ROOM HARNESS
99G	P	TO ENGINE ROOM HARNESS
100G	SHIELD	TO ENGINE ROOM HARNESS

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POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	GR	TO BODY HARNESS
2A	BR	TO BODY HARNESS
3A	Y	TO BODY HARNESS
4A	V	TO BODY HARNESS
5A	L/B	TO BODY HARNESS
6A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	G	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	Y	TO BODY HARNESS
8A	W	TO BODY HARNESS
9A	L	TO BODY HARNESS
10A	R	TO BODY HARNESS
11A	R	TO BODY HARNESS
12A	BG	TO BODY HARNESS
13A	O	TO BODY HARNESS
14A	LG	TO BODY HARNESS
15A	R	TO BODY HARNESS
16A	G	TO BODY HARNESS
17A	B	TO BODY HARNESS
18A	B	TO BODY HARNESS
19A	SHIELD	TO BODY HARNESS
20A	B	TO BODY HARNESS
21A	SHIELD	TO BODY HARNESS
22A	–	TO BODY HARNESS
23A	W	TO BODY HARNESS
24A	B	TO BODY HARNESS
25A	SHIELD	TO BODY HARNESS
26A	B	TO BODY HARNESS
27A	B	TO BODY HARNESS
28A	SHIELD	TO BODY HARNESS
29A	R	TO BODY HARNESS
30A	B	TO BODY HARNESS
31A	R	TO BODY HARNESS
32A	Y/R	TO BODY HARNESS
33A	W	TO BODY HARNESS
34A	B	TO BODY HARNESS
35A	SHIELD	TO BODY HARNESS
36A	L/Y	TO BODY HARNESS
37A	LG	TO BODY HARNESS
38A	V	TO BODY HARNESS
39A	SB	TO BODY HARNESS
40A	BR	TO BODY HARNESS
41A	Y	TO BODY HARNESS
42A	G	TO BODY HARNESS
43A	–	TO BODY HARNESS
44A	W	TO BODY HARNESS
45A	R	TO BODY HARNESS
46A	BG	TO BODY HARNESS
47A	LG	TO BODY HARNESS
48A	R	TO BODY HARNESS
49A	P	TO BODY HARNESS
50A	W	TO BODY HARNESS
51A	L	TO BODY HARNESS
52A	P	TO BODY HARNESS
53A	G	TO BODY HARNESS
54A	W	TO BODY HARNESS
55A	BG	TO BODY HARNESS
56A	BR	TO BODY HARNESS
57A	P	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
57A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
58A	G	TO BODY HARNESS
59A	SB	TO BODY HARNESS
60A	L	TO BODY HARNESS
61A	G	TO BODY HARNESS
62A	BR	TO BODY HARNESS
63A	BR	TO BODY HARNESS
64A	Y	TO BODY HARNESS
65A	W	TO BODY HARNESS
66A	BG	TO BODY HARNESS
67A	Y	TO BODY HARNESS
68A	LG	TO BODY HARNESS
69A	R	TO BODY HARNESS
70A	P	TO BODY HARNESS
71A	BR	TO BODY HARNESS
72A	SB	TO BODY HARNESS
73A	BG	TO BODY HARNESS
74A	BR	TO BODY HARNESS
75A	LG	TO BODY HARNESS
76A	W	TO BODY HARNESS
77A	L	TO BODY HARNESS
78A	V	TO BODY HARNESS
79A	LG	TO BODY HARNESS
80A	Y	TO BODY HARNESS
81A	L	TO BODY HARNESS
82A	BG	TO BODY HARNESS
83A	Y	TO BODY HARNESS
84A	LG	TO BODY HARNESS
85A	SHIELD	TO BODY HARNESS
86A	Y	TO BODY HARNESS
87A	LG	TO BODY HARNESS
88A	BR	TO BODY HARNESS
89A	L	TO BODY HARNESS
90A	P	TO BODY HARNESS
91A	L	TO BODY HARNESS
92A	L	TO BODY HARNESS
93A	B	TO BODY HARNESS
94A	W	TO BODY HARNESS
95A	W	TO BODY HARNESS
96A	–	TO BODY HARNESS
97A	SB	TO BODY HARNESS
98A	Y	TO BODY HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
98A	L	TO BODY HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
99A	–	TO BODY HARNESS
100A	–	TO BODY HARNESS

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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
1	W	TO BODY HARNESS - (WITHOUT NAVI)
1	R	TO BODY HARNESS - (WITH NAVI)
2	B	TO BODY HARNESS - (WITHOUT NAVI)
2	W	TO BODY HARNESS - (WITH NAVI)
3	R	TO BODY HARNESS - (WITHOUT NAVI)
3	B	TO BODY HARNESS - (WITH NAVI)
4	SHIELD	TO BODY HARNESS
5	B	TO BODY HARNESS
6	W	TO BODY HARNESS
7	SHIELD	TO BODY HARNESS
8	B	TO BODY HARNESS
9	SB	TO BODY HARNESS
10	BG	TO BODY HARNESS
11	R	TO BODY HARNESS
12	W	TO BODY HARNESS
13	–	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	L	TO BODY HARNESS
17	P	TO BODY HARNESS - (WITHOUT NAVI)
17	Y	TO BODY HARNESS - (WITH NAVI)
18	Y	TO BODY HARNESS - (WITHOUT NAVI)
18	P	TO BODY HARNESS - (WITH NAVI)
19	W	TO BODY HARNESS - (WITHOUT NAVI)
19	B	TO BODY HARNESS - (WITH NAVI)
20	B	TO BODY HARNESS - (WITHOUT NAVI)
20	W	TO BODY HARNESS - (WITH NAVI)
21	R	TO BODY HARNESS - (WITHOUT NAVI)
21	SHIELD	TO BODY HARNESS - (WITH NAVI)
22	G	TO BODY HARNESS - (WITHOUT NAVI)
22	W	TO BODY HARNESS - (WITH NAVI)
23	SHIELD	TO BODY HARNESS - (WITHOUT NAVI)
23	R	TO BODY HARNESS - (WITH NAVI)
24	SHIELD	TO BODY HARNESS
25	B	TO BODY HARNESS
26	G	TO BODY HARNESS
27	R	TO BODY HARNESS - (WITHOUT NAVI)
27	B	TO BODY HARNESS - (WITH NAVI)
28	B	TO BODY HARNESS - (WITHOUT NAVI)
28	R	TO BODY HARNESS - (WITH NAVI)
29	G	TO BODY HARNESS - (WITH NAVI)
29	W	TO BODY HARNESS - (WITHOUT NAVI)
30	SHIELD	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

ABKIA7547GB

POWER DOOR LOCK SYSTEM CONNECTORS

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
129	SB	BATTERY SAVER OUT
130	LG	DOOR UNLOCK AS
131	W	BAT BCM FUSE
132	BR	DOOR LOCK RR/RL
133	Y	DOOR UNLOCK RR/RL
134	B	GND 2
135	L	DOOR LOCK DR/AS/FL
136	LG	ROOM LAMP CONT
137	V	DOOR UNLOCK DR/FL
138	V	BAT REAR DOOR
139	W	BAT POWER F/L
140	BR	P/W POWER SUPPLY IGN
141	Y	P/W POWER SUPPLY BAT
142	Y	BAT FRONT DOOR
143	B	GND 1

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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
1	B	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	SHIELD	TO BODY HARNESS RH
4	LG	TO BODY HARNESS RH
5	P	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	Y	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
6	W	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
7	R	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
7	W	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	R	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO BODY HARNESS RH
10	G	TO BODY HARNESS RH
11	L	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	P	TO BODY HARNESS RH
15	O	TO BODY HARNESS RH
16	SB	TO BODY HARNESS RH
17	L	TO BODY HARNESS RH
18	P	TO BODY HARNESS RH
19	R	TO BODY HARNESS RH
20	-	TO BODY HARNESS RH
21	G	TO BODY HARNESS RH
22	R	TO BODY HARNESS RH
23	G	TO BODY HARNESS RH
24	R	TO BODY HARNESS RH - (WITH CLIMATE CONTROLLED SEAT)
24	V	TO BODY HARNESS RH - (WITHOUT CLIMATE CONTROLLED SEAT)
25	W	TO BODY HARNESS RH
26	W	TO BODY HARNESS RH
27	BG	TO BODY HARNESS RH
28	V	TO BODY HARNESS RH
29	SB	TO BODY HARNESS RH
30	L	TO BODY HARNESS RH
31	W	TO BODY HARNESS RH
32	-	TO BODY HARNESS RH

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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	W	TO FRONT DOOR RH HARNESS
2	SHIELD	TO FRONT DOOR RH HARNESS
3	G	TO FRONT DOOR RH HARNESS
4	R	TO FRONT DOOR RH HARNESS
5	B	TO FRONT DOOR RH HARNESS
6	G	TO FRONT DOOR RH HARNESS
7	Y	TO FRONT DOOR RH HARNESS
8	W	TO FRONT DOOR RH HARNESS
9	BG	TO FRONT DOOR RH HARNESS
10	P	TO FRONT DOOR RH HARNESS
11	LG	TO FRONT DOOR RH HARNESS
12	B	TO FRONT DOOR RH HARNESS
13	W	TO FRONT DOOR RH HARNESS
14	Y/R	TO FRONT DOOR RH HARNESS
15	GR	TO FRONT DOOR RH HARNESS
16	B/W	TO FRONT DOOR RH HARNESS
17	BG	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	G	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	W	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	BG	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	G	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
19	P	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
20	G	TO FRONT DOOR RH HARNESS
21	W	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	R	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
22	SB	TO FRONT DOOR RH HARNESS
23	P	TO FRONT DOOR RH HARNESS
24	G	TO FRONT DOOR RH HARNESS
25	BG	TO FRONT DOOR RH HARNESS
26	W	TO FRONT DOOR RH HARNESS
27	-	TO FRONT DOOR RH HARNESS
28	-	TO FRONT DOOR RH HARNESS
29	W	TO FRONT DOOR RH HARNESS
30	SB	TO FRONT DOOR RH HARNESS
31	W	TO FRONT DOOR RH HARNESS
32	-	TO FRONT DOOR RH HARNESS

Connector No.	M157
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	Y	TO BODY HARNESS RH
2	BR	TO BODY HARNESS RH
3	G/B	TO BODY HARNESS RH
4	BR	TO BODY HARNESS RH
5	LG/B	TO BODY HARNESS RH
6	Y/V	TO BODY HARNESS RH
7	GR	TO BODY HARNESS RH
8	Y	TO BODY HARNESS RH
9	BR	TO BODY HARNESS RH
10	Y	TO BODY HARNESS RH
11	Y	TO BODY HARNESS RH
12	W	TO BODY HARNESS RH - (WITH CLIMATE CONTROLLED SEAT)
12	LG	TO BODY HARNESS RH - (WITHOUT CLIMATE CONTROLLED SEAT)
13	L	TO BODY HARNESS RH
14	W	TO BODY HARNESS RH
15	SHIELD	TO BODY HARNESS RH
16	-	TO BODY HARNESS RH

ABKIA7548GB

POWER DOOR LOCK SYSTEM CONNECTORS

Connector No.	M158
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS
Connector Color	WHITE

H.S.

1	2		3	4
5	6	7	8	9	10

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT DOOR RH HARNESS
2	B	TO FRONT DOOR RH HARNESS
3	SHIELD	TO FRONT DOOR RH HARNESS
4	BR	TO FRONT DOOR RH HARNESS
5	Y	TO FRONT DOOR RH HARNESS
6	L	TO FRONT DOOR RH HARNESS
7	LG	TO FRONT DOOR RH HARNESS
8	GR	TO FRONT DOOR RH HARNESS
9	BR	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
9	G	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
10	Y	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
10	W	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

Connector No.	M167
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO FRONT DOOR LH HARNESS
2	V	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	V	TO FRONT DOOR LH HARNESS
5	SB	TO FRONT DOOR LH HARNESS
6	BR	TO FRONT DOOR LH HARNESS
7	Y	TO FRONT DOOR LH HARNESS
8	W	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
8	V	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
9	P	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SUB WOOFER AND SURROUND SOUND SYSTEM)
9	G	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
9	SB	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
10	L	TO FRONT DOOR LH HARNESS
11	BR	TO FRONT DOOR LH HARNESS
12	Y	TO FRONT DOOR LH HARNESS
13	LG	TO FRONT DOOR LH HARNESS
14	SHIELD	TO FRONT DOOR LH HARNESS
15	B	TO FRONT DOOR LH HARNESS
16	W	TO FRONT DOOR LH HARNESS

Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SB	TO FRONT DOOR LH HARNESS
2	R	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	P	TO FRONT DOOR LH HARNESS
5	V	TO FRONT DOOR LH HARNESS
6	R	TO FRONT DOOR LH HARNESS
7	G	TO FRONT DOOR LH HARNESS
8	P	TO FRONT DOOR LH HARNESS
9	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
9	R	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
10	R	TO FRONT DOOR LH HARNESS
11	G	TO FRONT DOOR LH HARNESS
12	P	TO FRONT DOOR LH HARNESS
13	P	TO FRONT DOOR LH HARNESS
14	BG	TO FRONT DOOR LH HARNESS
15	W	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	G	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
16	G	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
16	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
17	G	TO FRONT DOOR LH HARNESS
18	W	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	BG	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	W	TO FRONT DOOR LH HARNESS
20	SB	TO FRONT DOOR LH HARNESS
21	P	TO FRONT DOOR LH HARNESS
22	W	TO FRONT DOOR LH HARNESS
23	G	TO FRONT DOOR LH HARNESS
24	SB	TO FRONT DOOR LH HARNESS
25	R	TO FRONT DOOR LH HARNESS
26	B	TO FRONT DOOR LH HARNESS
27	–	TO FRONT DOOR LH HARNESS
28	B	TO FRONT DOOR LH HARNESS
29	SHIELD	TO FRONT DOOR LH HARNESS
30	R	TO FRONT DOOR LH HARNESS
31	G	TO FRONT DOOR LH HARNESS
32	W	TO FRONT DOOR LH HARNESS
33	BG	TO FRONT DOOR LH HARNESS
34	Y	TO FRONT DOOR LH HARNESS
35	R	TO FRONT DOOR LH HARNESS
36	BG	TO FRONT DOOR LH HARNESS
37	W	TO FRONT DOOR LH HARNESS
38	P	TO FRONT DOOR LH HARNESS
39	W	TO FRONT DOOR LH HARNESS
40	P	TO FRONT DOOR LH HARNESS

6	GR	SHIELD
7	SHIELD	SHIELD
8	SHIELD	SHIELD
9	SHIELD	SHIELD
10	SHIELD	SHIELD
11	–	–
12	G	SENS GND
13	–	–
14	G	SENS GND
15	G	SENS GND
16	G	SENS GND
17	G	SENS GND
18	Y	SENS GND
19	Y	SENS GND
20	Y	SENS GND
21	Y	SENS GND
22	Y	SENS GND
23	–	–
24	–	–
25	–	–
26	–	–
27	–	–
28	W	PW LIN
29	W	PW LIN
30	W	PW LIN
31	–	–
32	W	PW LIN
33	W	PW LIN

Connector No.	M170
Connector Name	JOINT CONNECTOR-M09
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SHIELD	SHIELD
2	Y	SHIELD
3	SHIELD	SHIELD
4	–	–
5	–	–

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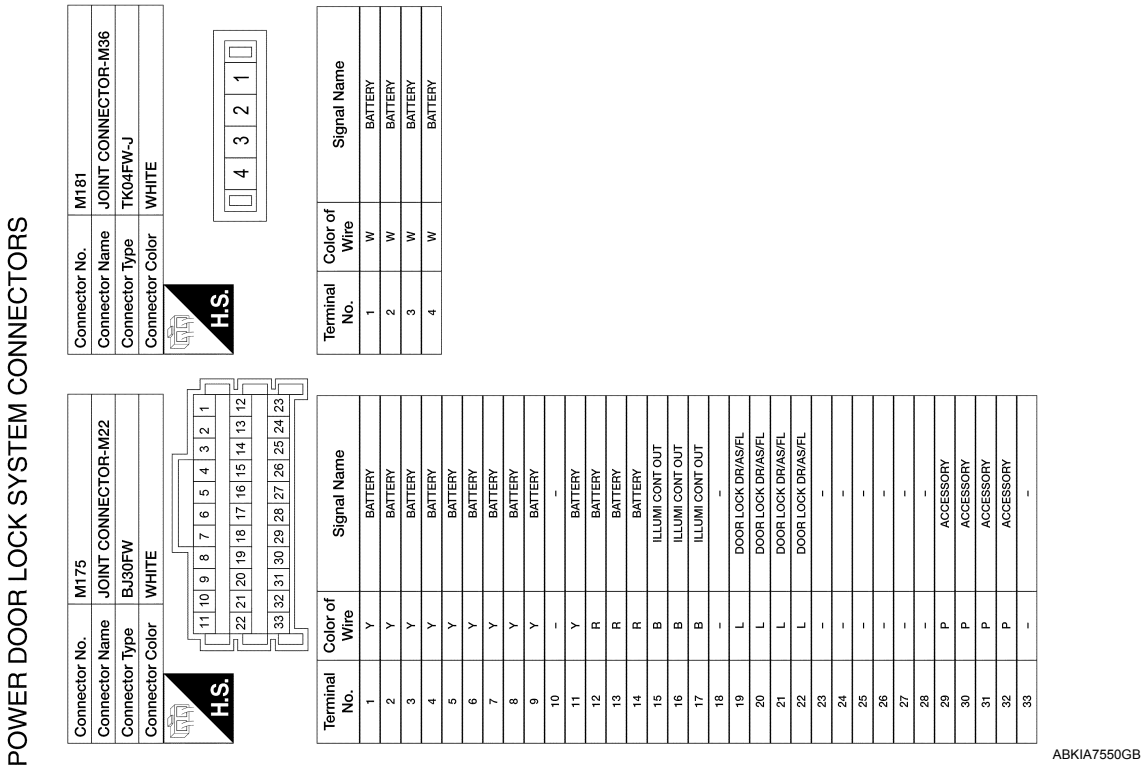
POWER DOOR LOCK SYSTEM CONNECTORS



Terminal No.	Color of Wire	Signal Name
1	Y	BATTERY
2	Y	BATTERY
3	Y	BATTERY
4	Y	BATTERY
5	Y	BATTERY
6	Y	BATTERY
7	Y	BATTERY
8	Y	BATTERY
9	Y	BATTERY
10	–	–
11	Y	BATTERY
12	R	BATTERY
13	R	BATTERY
14	R	BATTERY
15	B	ILLUMI CONT OUT
16	B	ILLUMI CONT OUT
17	B	ILLUMI CONT OUT
18	–	–
19	L	DOOR LOCK DR/AS/FL
20	L	DOOR LOCK DR/AS/FL
21	L	DOOR LOCK DR/AS/FL
22	L	DOOR LOCK DR/AS/FL
23	–	–
24	–	–
25	–	–
26	–	–
27	–	–
28	–	–
29	P	ACCESSORY
30	P	ACCESSORY
31	P	ACCESSORY
32	P	ACCESSORY
33	–	–

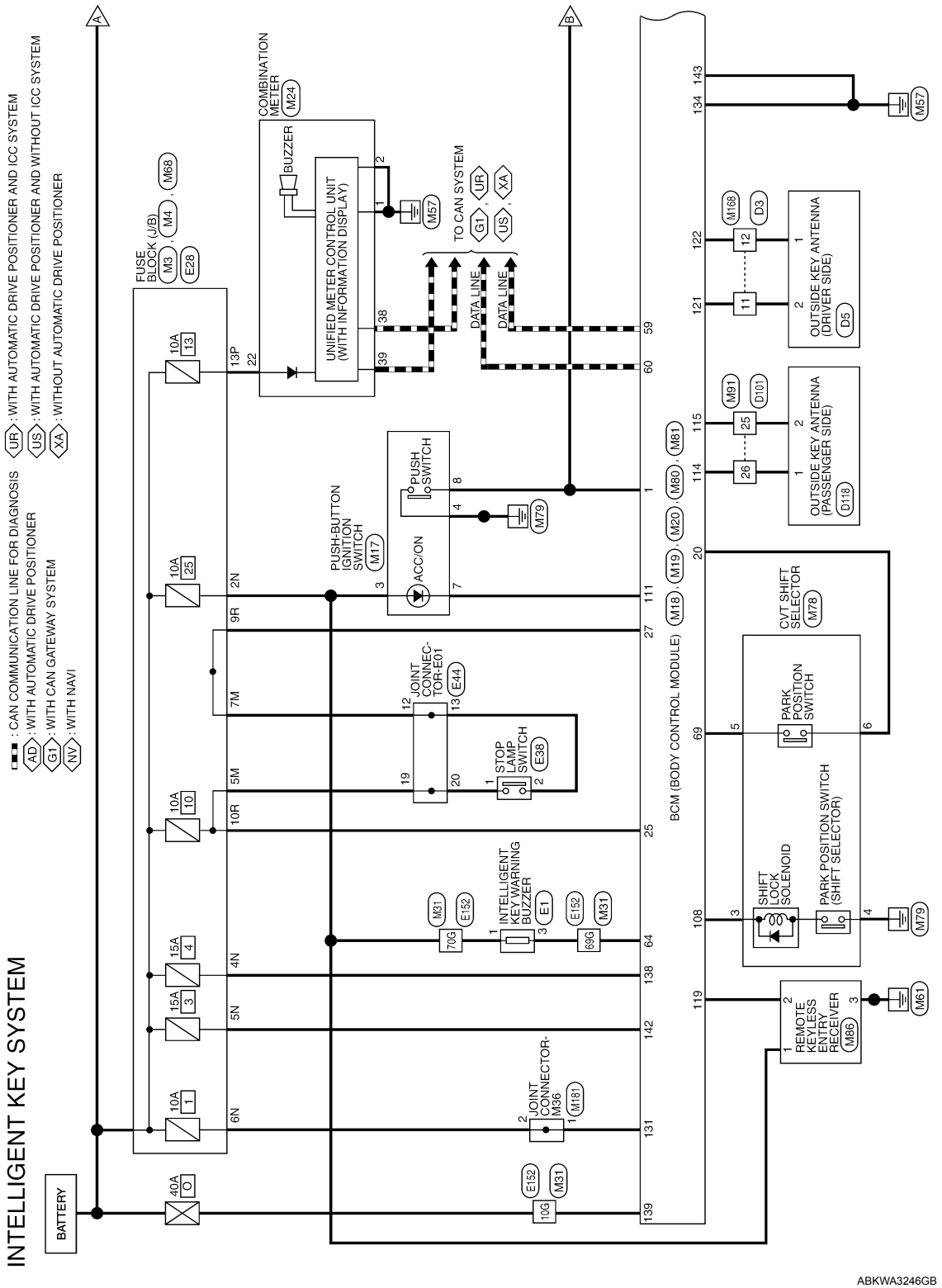
Terminal No.	Color of Wire	Signal Name
1	W	BATTERY
2	W	BATTERY
3	W	BATTERY
4	W	BATTERY

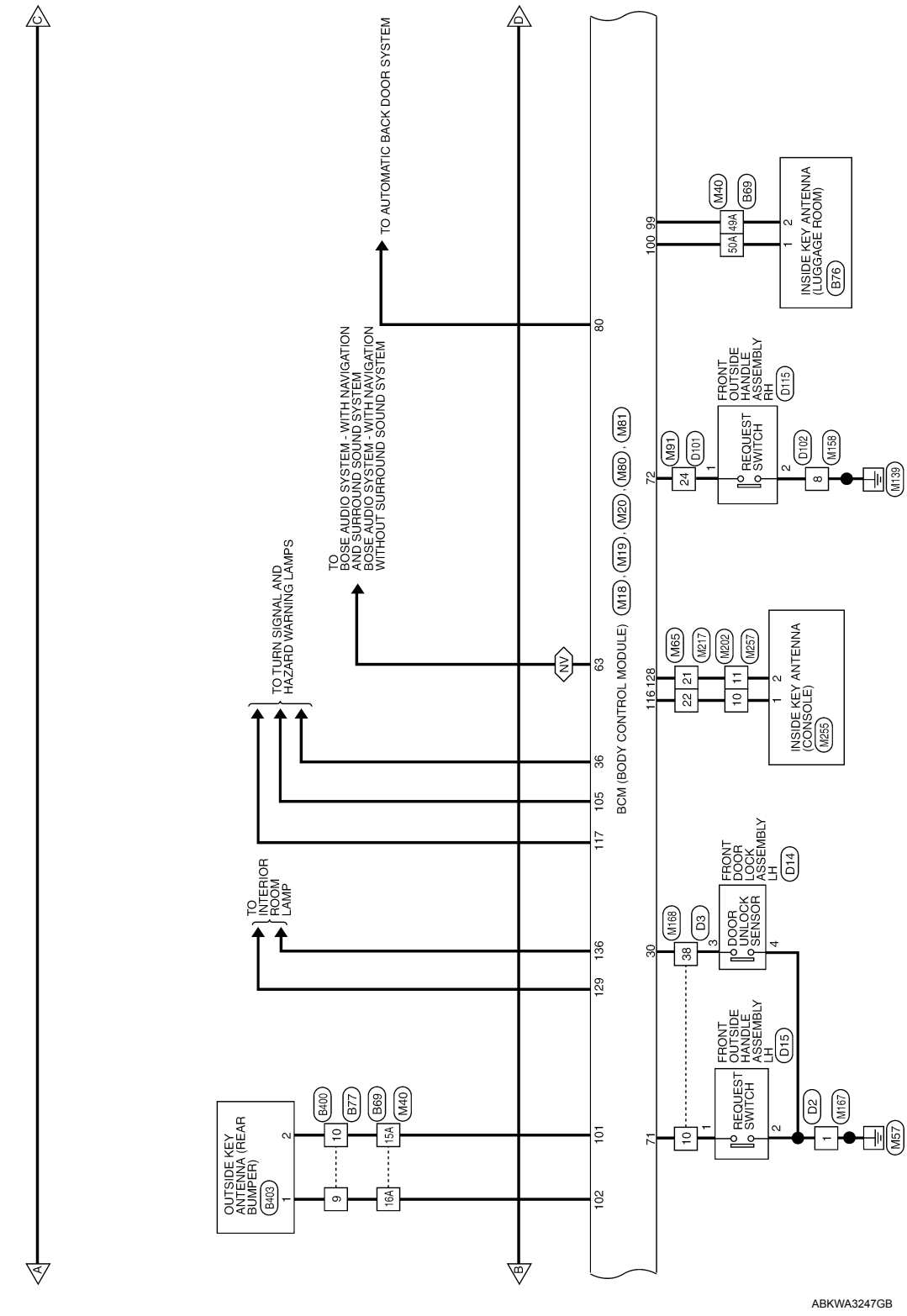
ABKIA7550GB

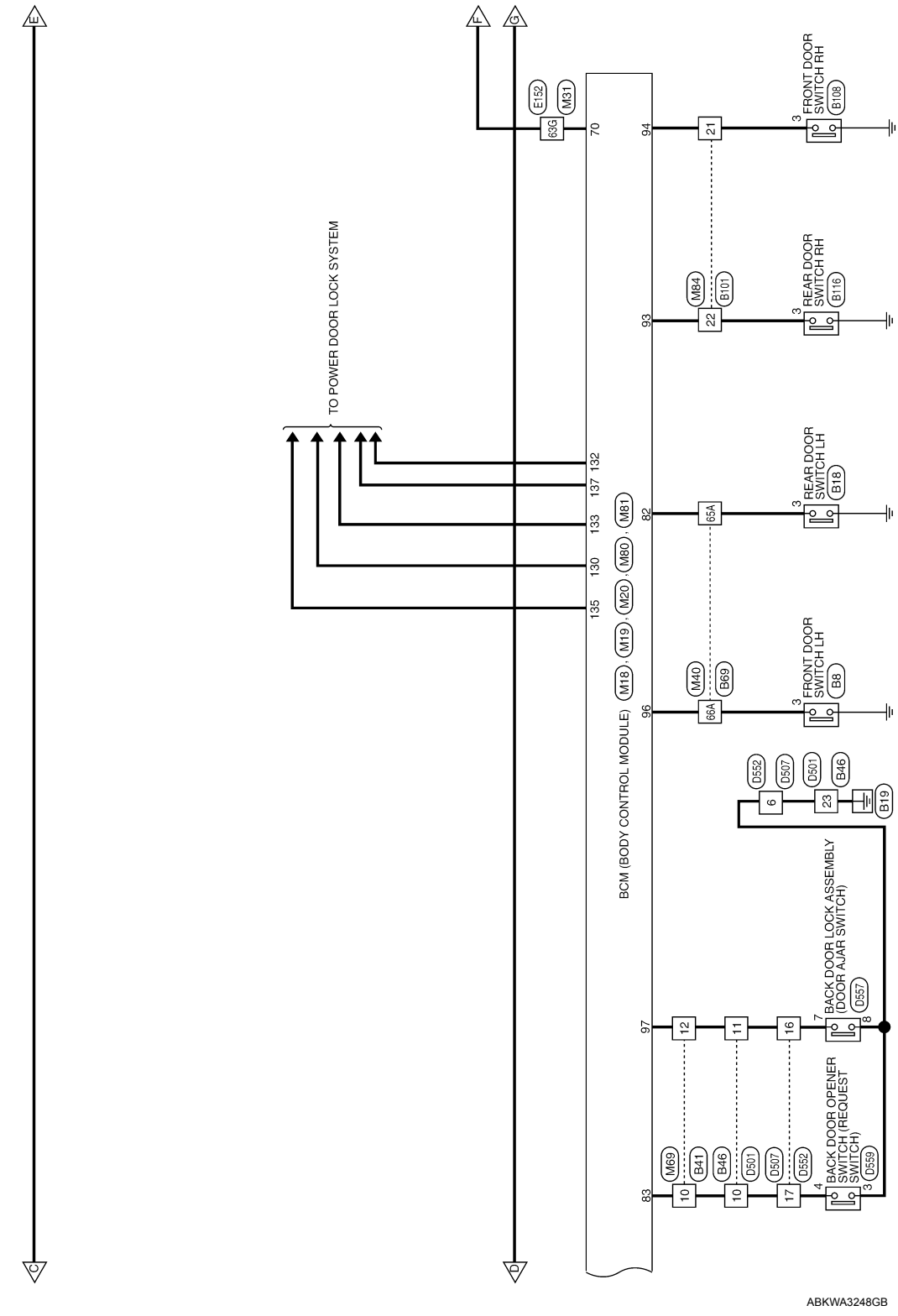
INTELLIGENT KEY SYSTEM

Wiring Diagram

INFOID:0000000012851909




C
D
A
B
TO AUTOMATIC BACK DOOR SYSTEM
TO
BOSE AUDIO SYSTEM - WITH NAVIGATION
AND SURROUND SOUND SYSTEM
BOSE AUDIO SYSTEM - WITH NAVIGATION
WITHOUT SURROUND SOUND SYSTEM
TO TURN SIGNAL AND
HAZARD WARNING LAMPS
TO
INTERIOR
ROOM
LAMP
BCM (BODY CONTROL MODULE)
(M18), (M19), (M20), (M80), (M81)
NV
63
80
36
105
117
129
136
99
100
128
116
72
30
101
102
71
OUTSIDE KEY
ANTENNA (REAR
BUMPER)
B403
INSIDE KEY ANTENNA
(LUGGAGE ROOM)
B76
INSIDE KEY ANTENNA
(CONSOLE)
M255
FRONT
OUTSIDE
HANDLE
ASSEMBLY
RH
D115
FRONT
OUTSIDE
HANDLE
ASSEMBLY
LH
D15
FRONT
DOOR
LOCK
ASSEMBLY
LH
D14
REQUEST
SWITCH
DOOR
UNLOCK
SENSOR
M139
M57
ABKWA3247GB


E
G
C
D
E152
M31
63G
70
94
21
FRONT DOOR SWITCH RH
B108
3
M84
B101
22
93
REAR DOOR SWITCH RH
B116
TO POWER DOOR LOCK SYSTEM
132
137
133
130
135
M81
M80
M20
M19
M18
BCM (BODY CONTROL MODULE)
82
65A
REAR DOOR SWITCH LH
B18
M40
B69
66A
96
FRONT DOOR SWITCH LH
B8
D552
D507
D501
B46
6
23
B19
97
12
11
16
7
8
BACK DOOR LOCK ASSEMBLY (DOOR AJAR SWITCH)
D557
M69
B41
B46
D501
D507
D552
10
10
17
4
3
D559
BACK DOOR OPENER SWITCH (REQUEST SWITCH)
83
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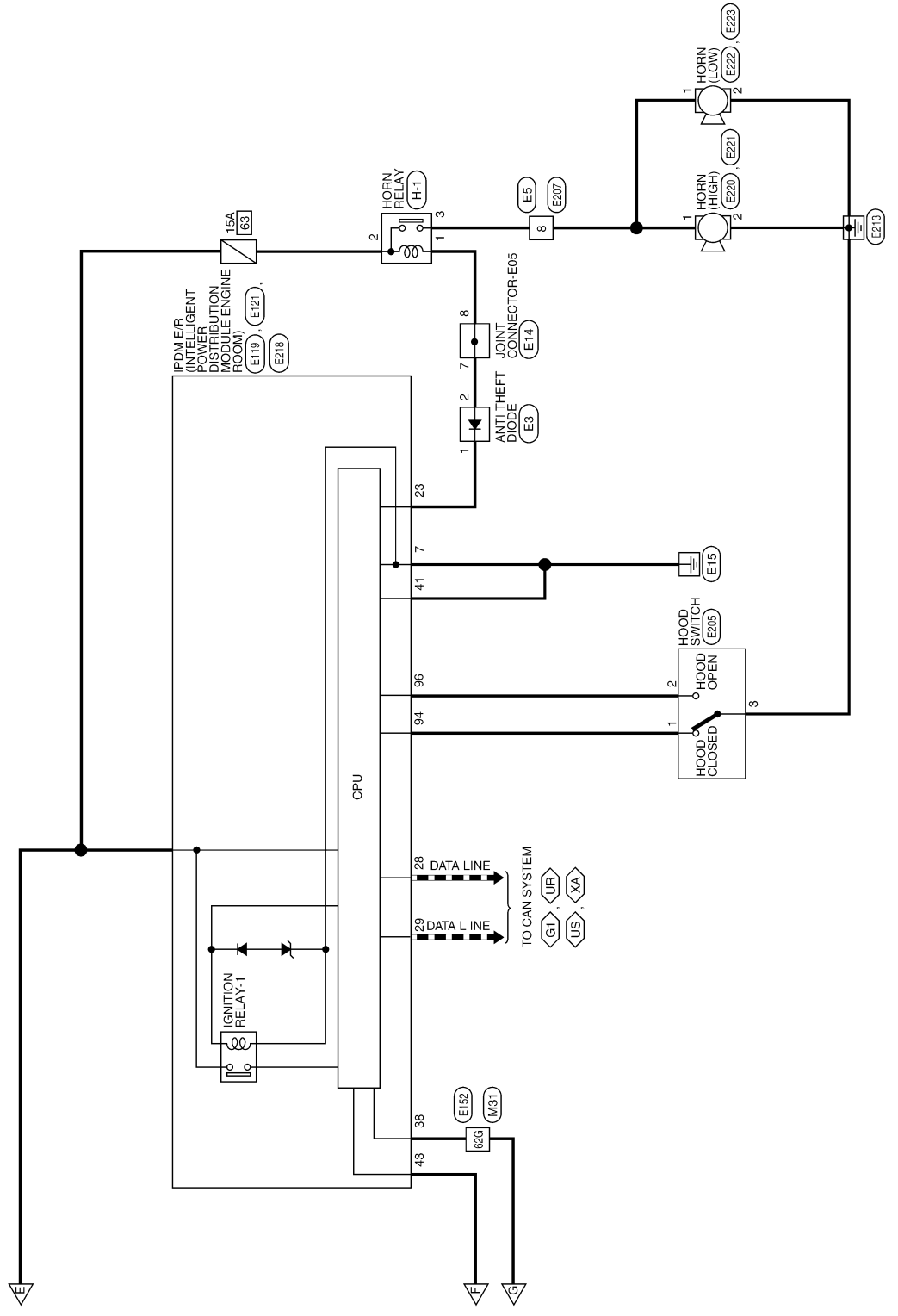
HORN (LOW) E222, E223
HORN (HIGH) E220, E221
HORN RELAY H-1
E5
E207
E213
15A 63
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) E119, E121, E218
JOINT CONNECTOR-E05 E14
ANTI THEFT DIODE E3
CPU
E15
HOOD SWITCH E205
HOOD OPEN
HOOD CLOSED
DATA LINE
DATA L LINE
TO CAN SYSTEM
G1, UR, XA, US
IGNITION RELAY-1
E152
M31
62G
E
F
G
ABKWA3249GB

INTELLIGENT KEY SYSTEM CONNECTORS

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

H.S.

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

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

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	SB	RL DOOR SW
4	–	–

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS - (WITHOUT NAVI)
1	R	TO MAIN HARNESS - (WITH NAVI)
2	R	TO MAIN HARNESS - (WITHOUT NAVI)
2	W	TO MAIN HARNESS - (WITH NAVI)
3	B	TO MAIN HARNESS
4	SHIELD	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	SHIELD	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	R	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	–	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	BG	TO MAIN HARNESS - (WITHOUT NAVI)
17	V	TO MAIN HARNESS - (WITH NAVI)
18	SB	TO MAIN HARNESS - (WITHOUT NAVI)
18	W	TO MAIN HARNESS - (WITH NAVI)
19	W	TO MAIN HARNESS - (WITHOUT NAVI)
19	B	TO MAIN HARNESS - (WITH NAVI)
20	B	TO MAIN HARNESS - (WITHOUT NAVI)
20	W	TO MAIN HARNESS - (WITH NAVI)
21	R	TO MAIN HARNESS - (WITHOUT NAVI)
21	SHIELD	TO MAIN HARNESS - (WITH NAVI)
22	G	TO MAIN HARNESS - (WITHOUT NAVI)
22	W	TO MAIN HARNESS - (WITH NAVI)
23	SHIELD	TO MAIN HARNESS - (WITHOUT NAVI)
23	R	TO MAIN HARNESS - (WITH NAVI)
24	SHIELD	TO MAIN HARNESS
25	B	TO MAIN HARNESS
26	G	TO MAIN HARNESS
27	W	TO MAIN HARNESS - (WITH NAVI)
27	R	TO MAIN HARNESS - (WITHOUT NAVI)
28	R	TO MAIN HARNESS - (WITH NAVI)
28	B	TO MAIN HARNESS - (WITHOUT NAVI)
29	G	TO MAIN HARNESS - (WITH NAVI)
29	W	TO MAIN HARNESS - (WITHOUT NAVI)
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	TO BACK DOOR LH HARNESS
2	Y	TO BACK DOOR LH HARNESS
3	BR	TO BACK DOOR LH HARNESS
4	SB	TO BACK DOOR LH HARNESS
5	LG	TO BACK DOOR LH HARNESS
6	L	TO BACK DOOR LH HARNESS
7	LG	TO BACK DOOR LH HARNESS
8	BR	TO BACK DOOR LH HARNESS
9	W	TO BACK DOOR LH HARNESS
10	R	TO BACK DOOR LH HARNESS
11	G	TO BACK DOOR LH HARNESS
12	W	TO BACK DOOR LH HARNESS
13	W	TO BACK DOOR LH HARNESS - (WITH NAVI)
13	R	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
14	R	TO BACK DOOR LH HARNESS - (WITH NAVI)
14	B	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
15	G	TO BACK DOOR LH HARNESS - (WITH NAVI)
15	W	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
16	SHIELD	TO BACK DOOR LH HARNESS
17	B	TO BACK DOOR LH HARNESS
18	–	TO BACK DOOR LH HARNESS
19	W	TO BACK DOOR LH HARNESS
20	W	TO BACK DOOR LH HARNESS
21	G	TO BACK DOOR LH HARNESS
22	BR	TO BACK DOOR LH HARNESS
23	GR	TO BACK DOOR LH HARNESS
24	G	TO BACK DOOR LH HARNESS

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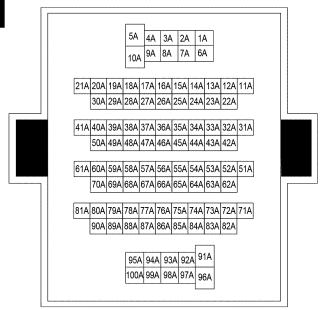
INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
1A	–	TO MAIN HARNESS
2A	Y	TO MAIN HARNESS
3A	Y	TO MAIN HARNESS
4A	G	TO MAIN HARNESS
5A	–	TO MAIN HARNESS
6A	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	R	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	BR	TO MAIN HARNESS
8A	G	TO MAIN HARNESS
9A	P	TO MAIN HARNESS
10A	–	TO MAIN HARNESS
11A	W	TO MAIN HARNESS
12A	G	TO MAIN HARNESS
13A	–	TO MAIN HARNESS
14A	R	TO MAIN HARNESS
15A	G	TO MAIN HARNESS
16A	W	TO MAIN HARNESS
17A	B	TO MAIN HARNESS
18A	B	TO MAIN HARNESS
19A	SHIELD	TO MAIN HARNESS
20A	W	TO MAIN HARNESS
21A	SHIELD	TO MAIN HARNESS
22A	–	TO MAIN HARNESS
23A	W	TO MAIN HARNESS
24A	B	TO MAIN HARNESS
25A	SHIELD	TO MAIN HARNESS
26A	B	TO MAIN HARNESS
27A	B	TO MAIN HARNESS
28A	SHIELD	TO MAIN HARNESS
29A	R	TO MAIN HARNESS
30A	B	TO MAIN HARNESS
31A	BR	TO MAIN HARNESS
32A	–	TO MAIN HARNESS
33A	W	TO MAIN HARNESS
34A	B	TO MAIN HARNESS
35A	SHIELD	TO MAIN HARNESS
36A	–	TO MAIN HARNESS
37A	LG	TO MAIN HARNESS
38A	V	TO MAIN HARNESS
39A	SB	TO MAIN HARNESS
40A	BR	TO MAIN HARNESS
41A	Y	TO MAIN HARNESS
42A	–	TO MAIN HARNESS
43A	–	TO MAIN HARNESS
44A	V	TO MAIN HARNESS
45A	G	TO MAIN HARNESS
46A	V	TO MAIN HARNESS
47A	L	TO MAIN HARNESS
48A	SB	TO MAIN HARNESS
49A	G	TO MAIN HARNESS
50A	W	TO MAIN HARNESS
51A	–	TO MAIN HARNESS
52A	–	TO MAIN HARNESS
53A	R	TO MAIN HARNESS
54A	SB	TO MAIN HARNESS
55A	LG	TO MAIN HARNESS
56A	Y	TO MAIN HARNESS
57A	SB	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
57A	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
58A	BR	TO MAIN HARNESS
59A	BR	TO MAIN HARNESS
60A	L	TO MAIN HARNESS
61A	Y	TO MAIN HARNESS
62A	–	TO MAIN HARNESS
63A	P	TO MAIN HARNESS
64A	R	TO MAIN HARNESS
65A	SB	TO MAIN HARNESS
66A	L	TO MAIN HARNESS
67A	LG	TO MAIN HARNESS
68A	P	TO MAIN HARNESS
69A	W	TO MAIN HARNESS
70A	G	TO MAIN HARNESS
71A	BR	TO MAIN HARNESS
72A	–	TO MAIN HARNESS
73A	Y	TO MAIN HARNESS
74A	P	TO MAIN HARNESS
75A	V	TO MAIN HARNESS
76A	R	TO MAIN HARNESS
77A	Y	TO MAIN HARNESS
78A	LG	TO MAIN HARNESS
79A	BR	TO MAIN HARNESS
80A	Y	TO MAIN HARNESS
81A	L	TO MAIN HARNESS
82A	BG	TO MAIN HARNESS
83A	Y	TO MAIN HARNESS
84A	LG	TO MAIN HARNESS
85A	SHIELD	TO MAIN HARNESS
86A	LG	TO MAIN HARNESS
87A	SB	TO MAIN HARNESS
88A	BG	TO MAIN HARNESS
89A	L	TO MAIN HARNESS
90A	P	TO MAIN HARNESS
91A	L	TO MAIN HARNESS
92A	LG	TO MAIN HARNESS
93A	B	TO MAIN HARNESS
94A	–	TO MAIN HARNESS
95A	–	TO MAIN HARNESS
96A	–	TO MAIN HARNESS
97A	BR	TO MAIN HARNESS
98A	L	TO MAIN HARNESS
99A	–	TO MAIN HARNESS
100A	–	TO MAIN HARNESS

Connector No.	B76
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	RK02FGY
Connector Color	GRAY

H.S.

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

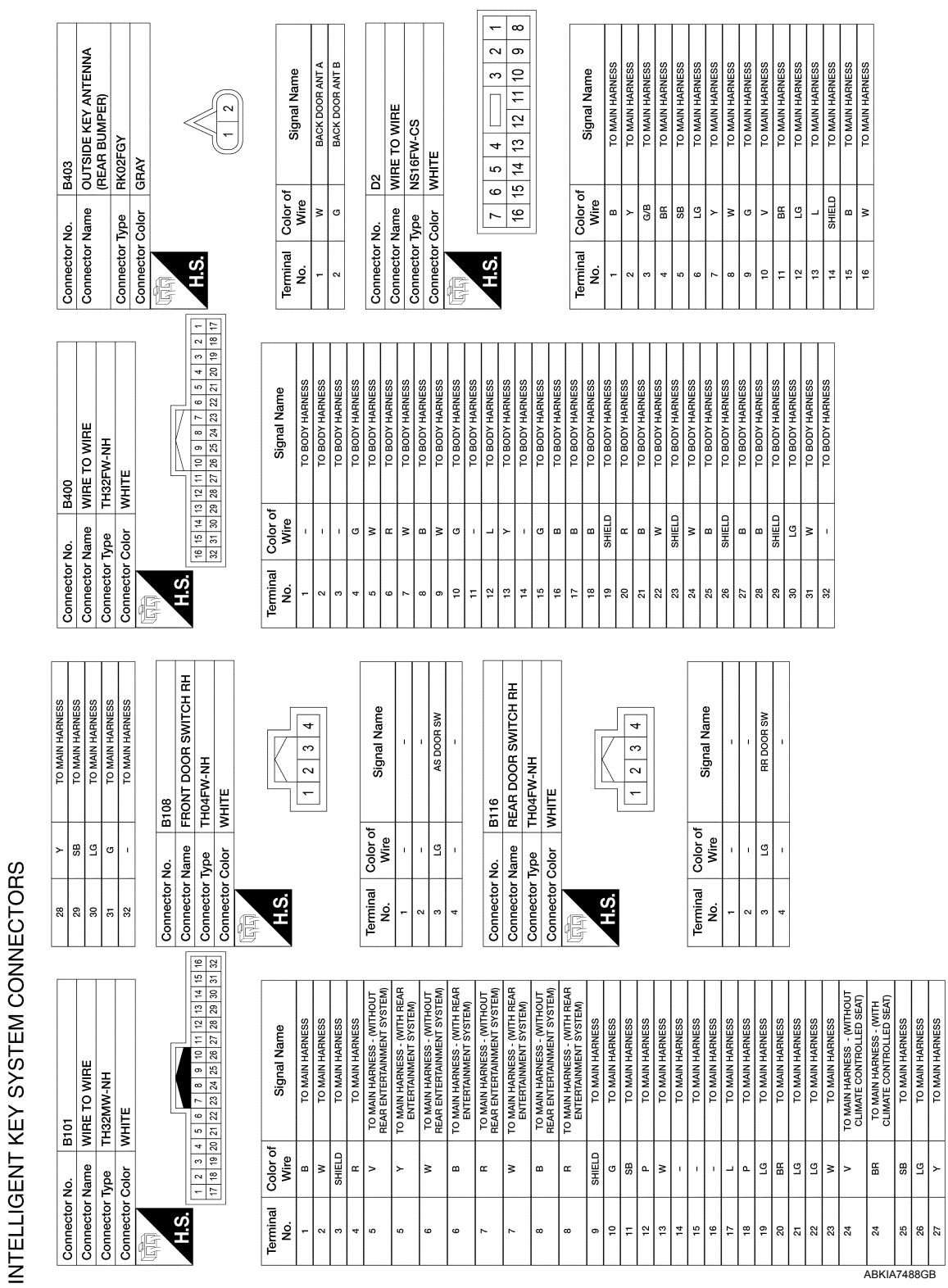
Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 HARNESS
2	–	TO BODY NO. 3 HARNESS
3	–	TO BODY NO. 3 HARNESS
4	G	TO BODY NO. 3 HARNESS
5	W	TO BODY NO. 3 HARNESS
6	R	TO BODY NO. 3 HARNESS
7	W	TO BODY NO. 3 HARNESS
8	B	TO BODY NO. 3 HARNESS
9	W	TO BODY NO. 3 HARNESS
10	G	TO BODY NO. 3 HARNESS
11	–	TO BODY NO. 3 HARNESS
12	L	TO BODY NO. 3 HARNESS
13	Y	TO BODY NO. 3 HARNESS
14	–	TO BODY NO. 3 HARNESS
15	G	TO BODY NO. 3 HARNESS
16	–	TO BODY NO. 3 HARNESS
17	B	TO BODY NO. 3 HARNESS
18	B	TO BODY NO. 3 HARNESS
19	SHIELD	TO BODY NO. 3 HARNESS
20	R	TO BODY NO. 3 HARNESS
21	B	TO BODY NO. 3 HARNESS
22	W	TO BODY NO. 3 HARNESS
23	SHIELD	TO BODY NO. 3 HARNESS
24	W	TO BODY NO. 3 HARNESS
25	B	TO BODY NO. 3 HARNESS
26	SHIELD	TO BODY NO. 3 HARNESS
27	B	TO BODY NO. 3 HARNESS
28	B	TO BODY NO. 3 HARNESS
29	SHIELD	TO BODY NO. 3 HARNESS
30	LG	TO BODY NO. 3 HARNESS
31	W	TO BODY NO. 3 HARNESS
32	–	TO BODY NO. 3 HARNESS

ABKIA7487GB

INTELLIGENT KEY SYSTEM CONNECTORS

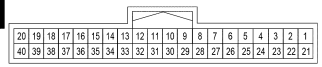


ABKIA7488GB

INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	D3
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	Y	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	G/B	TO MAIN HARNESS
4	SB	TO MAIN HARNESS
5	LG	TO MAIN HARNESS
6	L	TO MAIN HARNESS
7	BR	TO MAIN HARNESS
8	V	TO MAIN HARNESS
9	Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
9	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
10	BR	TO MAIN HARNESS
11	Y	TO MAIN HARNESS
12	LG	TO MAIN HARNESS
13	Y	TO MAIN HARNESS
14	LG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
14	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	BR	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
15	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
16	LG	TO MAIN HARNESS
17	L	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	BG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	BR	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	L	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	Y	TO MAIN HARNESS
20	LG	TO MAIN HARNESS
21	LG	TO MAIN HARNESS
22	Y	TO MAIN HARNESS
23	LG	TO MAIN HARNESS
24	SB	TO MAIN HARNESS
25	BR	TO MAIN HARNESS
26	B	TO MAIN HARNESS
27	–	TO MAIN HARNESS
28	G	TO MAIN HARNESS
29	SHIELD	TO MAIN HARNESS
30	R	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	W	TO MAIN HARNESS
33	V	TO MAIN HARNESS
34	Y	TO MAIN HARNESS
35	BG	TO MAIN HARNESS
36	SB	TO MAIN HARNESS
37	V	TO MAIN HARNESS
38	LG	TO MAIN HARNESS
39	Y	TO MAIN HARNESS
40	BR	TO MAIN HARNESS

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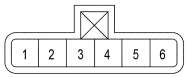
Connector No.	D5
Connector Name	OUTSIDE KEY ANTENNA (DRIVER SIDE)
Connector Type	RK02MGY
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	DR DOOR ANT A
2	Y	DR DOOR ANT B

Connector No.	D14
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Type	E06FGY-RS
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
1	V	DOOR LOCK
2	Y	DOOR UNLOCK
3	LG	DR DOOR LOCK STATUS
4	B	GROUND
5	SB	POWER WINDOW UNLOCK
6	BR	POWER WINDOW LOCK

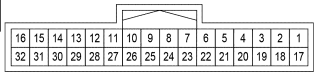
Connector No.	D15
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY LH
Connector Type	SAZ06FW
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	BR	DR REQUEST SW
2	B	GROUND
3	Y	BATTERY SAVER OUT
4	LG	DOOR HANDLE LAMP
5	–	–
6	–	–

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

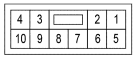
H.S.



Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	SHIELD	TO MAIN HARNESS
3	R	TO MAIN HARNESS
4	B	TO MAIN HARNESS
5	W	TO MAIN HARNESS
6	Y	TO MAIN HARNESS
7	L	TO MAIN HARNESS
8	BR	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	BR	TO MAIN HARNESS
11	LG	TO MAIN HARNESS
12	B	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	W/B	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	Y	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	LG	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	L	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	Y	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	BR	TO MAIN HARNESS
20	SB	TO MAIN HARNESS
21	LG	TO MAIN HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	G	TO MAIN HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
22	Y	TO MAIN HARNESS
23	LG	TO MAIN HARNESS
24	BR	TO MAIN HARNESS
25	Y	TO MAIN HARNESS
26	LG	TO MAIN HARNESS
27	–	TO MAIN HARNESS
28	–	TO MAIN HARNESS
29	Y	TO MAIN HARNESS
30	LG	TO MAIN HARNESS
31	BR	TO MAIN HARNESS
32	–	TO MAIN HARNESS

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS
Connector Color	WHITE

H.S.



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

INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	D115
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY RH
Connector Type	SAZ06FW
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	BR	AS REQUEST SW
2	B	GROUND
3	Y	BATTERY SAVER OUT
4	LG	DOOR HANDLE LAMP
5	–	–
6	–	–

Connector No.	D118
Connector Name	OUTSIDE KEY ANTENNA (PASSENGER SIDE)
Connector Type	RK02MGY
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	AS DOOR ANT A
2	Y	AS DOOR ANT B

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Connector No.	D507
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	TO BACK DOOR RH HARNESS
2	V	TO BACK DOOR RH HARNESS
3	R	TO BACK DOOR RH HARNESS
4	L	TO BACK DOOR RH HARNESS
5	SB	TO BACK DOOR RH HARNESS
6	Y	TO BACK DOOR RH HARNESS
7	Y	TO BACK DOOR RH HARNESS
8	LG	TO BACK DOOR RH HARNESS
9	G	TO BACK DOOR RH HARNESS
10	–	TO BACK DOOR RH HARNESS
11	–	TO BACK DOOR RH HARNESS
12	–	TO BACK DOOR RH HARNESS
13	G	TO BACK DOOR RH HARNESS
14	BR	TO BACK DOOR RH HARNESS
15	BG	TO BACK DOOR RH HARNESS
16	P	TO BACK DOOR RH HARNESS
17	W	TO BACK DOOR RH HARNESS
18	G	TO BACK DOOR RH HARNESS
19	W	TO BACK DOOR RH HARNESS
20	W	TO BACK DOOR RH HARNESS
21	–	TO BACK DOOR RH HARNESS
22	–	TO BACK DOOR RH HARNESS
23	–	TO BACK DOOR RH HARNESS
24	–	TO BACK DOOR RH HARNESS

Connector No.	D552
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	TO BACK DOOR LH HARNESS
2	V	TO BACK DOOR LH HARNESS
3	R	TO BACK DOOR LH HARNESS
4	L	TO BACK DOOR LH HARNESS
5	SB	TO BACK DOOR LH HARNESS
6	B	TO BACK DOOR LH HARNESS
7	BR	TO BACK DOOR LH HARNESS
8	LG	TO BACK DOOR LH HARNESS
9	G	TO BACK DOOR LH HARNESS
10	–	TO BACK DOOR LH HARNESS
11	–	TO BACK DOOR LH HARNESS
12	–	TO BACK DOOR LH HARNESS
13	G	TO BACK DOOR LH HARNESS
14	P	TO BACK DOOR LH HARNESS
15	R	TO BACK DOOR LH HARNESS
16	G	TO BACK DOOR LH HARNESS
17	W	TO BACK DOOR LH HARNESS
18	G	TO BACK DOOR LH HARNESS
19	W	TO BACK DOOR LH HARNESS
20	W	TO BACK DOOR LH HARNESS
21	–	TO BACK DOOR LH HARNESS
22	–	TO BACK DOOR LH HARNESS
23	–	TO BACK DOOR LH HARNESS
24	–	TO BACK DOOR LH HARNESS

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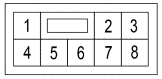
INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	D557
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08FW-CS
Connector Color	WHITE

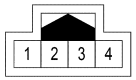
H.S.



Terminal No.	Color of Wire	Signal Name
1	B	LATCH MTR OPEN
2	W	LATCH MTR CLOSE
3	–	–
4	R	OPEN SW
5	L	CLOSE SW
6	SB	HALF LATCH SW
7	G	BACK DOOR SW
8	B	GROUND

Connector No.	D559
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	TH04MW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	G	BACK DOOR OPEN SW
2	B	GROUND
3	B	GROUND
4	W	BACK DOOR REQUEST SW

Connector No.	E1
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK0FBR
Connector Color	BROWN

H.S.

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

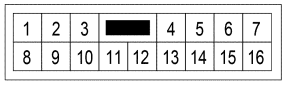
Connector No.	E3
Connector Name	ANTI THEFT DIODE
Connector Type	24335_C9902
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	HORN SW
2	Y	BATTERY

Connector No.	E5
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

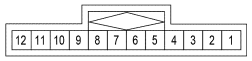
H.S.



Terminal No.	Color of Wire	Signal Name
1	Y	TO FRONT END MODULE HARNESS
2	SB	TO FRONT END MODULE HARNESS
3	BR	TO FRONT END MODULE HARNESS
4	B	TO FRONT END MODULE HARNESS
5	B	TO FRONT END MODULE HARNESS
6	P	TO FRONT END MODULE HARNESS
7	W/G	TO FRONT END MODULE HARNESS
8	G	TO FRONT END MODULE HARNESS
9	L	TO FRONT END MODULE HARNESS
10	G	TO FRONT END MODULE HARNESS
11	R	TO FRONT END MODULE HARNESS
12	P	TO FRONT END MODULE HARNESS
13	SHIELD	TO FRONT END MODULE HARNESS
14	SHIELD	TO FRONT END MODULE HARNESS
15	P	TO FRONT END MODULE HARNESS
16	B	TO FRONT END MODULE HARNESS

Connector No.	E14
Connector Name	JOINT CONNECTOR-E05
Connector Type	A12FB
Connector Color	BLACK

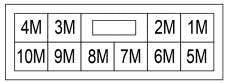
H.S.



Terminal No.	Color of Wire	Signal Name
1	W	CLUTCH I/L SW
2	W	CLUTCH I/L SW
3	W	CLUTCH I/L SW
4	LG	BATTERY
5	LG	BATTERY
6	LG	BATTERY
7	Y	BATTERY
8	Y	BATTERY
9	Y	BATTERY
10	GR	GND
11	SHIELD	SHIELD
12	–	–

Connector No.	E28
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1M	R	IGNITION
2M	–	–
3M	–	–
4M	–	–
5M	Y	BATTERY
6M	L	TAIL LH
7M	P	BRAKE PEDAL POSITION SWITCH
8M	R	BRAKE PEDAL POSITION SWITCH
9M	–	–
10M	–	–

Connector No.	E38
Connector Name	STOP LAMP SWITCH
Connector Type	M04FW-LC
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y	BATT
2	P	BRAKE PEDAL POSITION SWITCH
3	Y	BATT
4	G	STP

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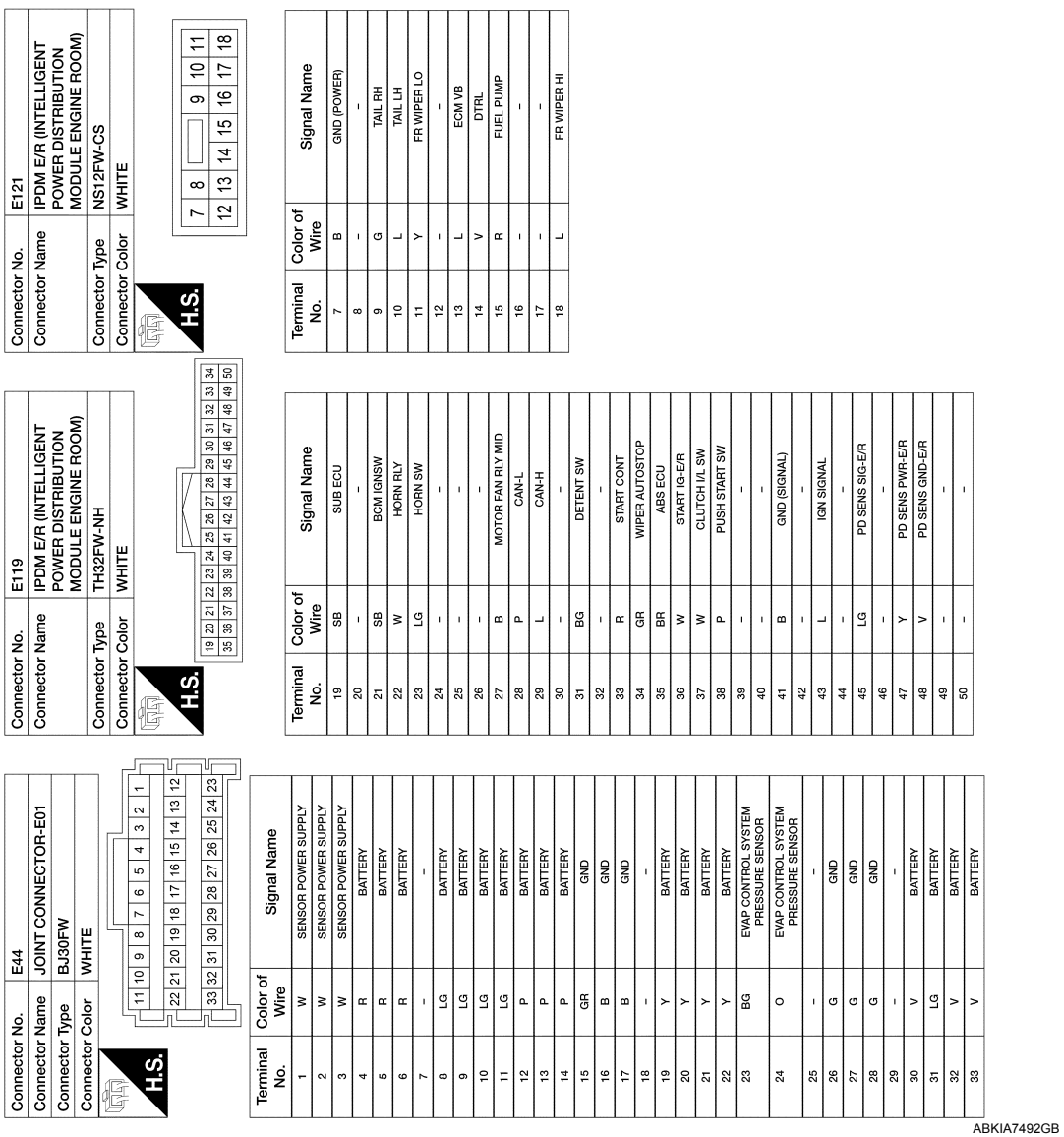
INTELLIGENT KEY SYSTEM CONNECTORS



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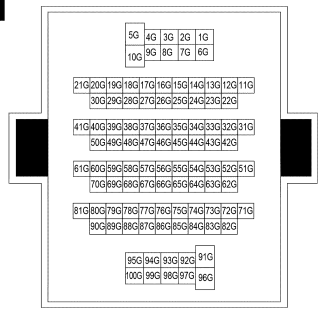
INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE

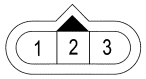
H.S.



Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	W	TO MAIN HARNESS
3G	P	TO MAIN HARNESS
4G	R	TO MAIN HARNESS
5G	P	TO MAIN HARNESS
6G	W	TO MAIN HARNESS
7G	SHIELD	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	LG	TO MAIN HARNESS
10G	P	TO MAIN HARNESS
11G	G	TO MAIN HARNESS
12G	P	TO MAIN HARNESS
13G	W	TO MAIN HARNESS
14G	BG	TO MAIN HARNESS
15G	W	TO MAIN HARNESS
16G	R	TO MAIN HARNESS
17G	B	TO MAIN HARNESS
18G	SHIELD	TO MAIN HARNESS
19G	W	TO MAIN HARNESS
20G	G	TO MAIN HARNESS
21G	P	TO MAIN HARNESS
22G	B	TO MAIN HARNESS
23G	SHIELD	TO MAIN HARNESS
24G	R	TO MAIN HARNESS
25G	W	TO MAIN HARNESS
26G	SHIELD	TO MAIN HARNESS
27G	W	TO MAIN HARNESS
28G	R	TO MAIN HARNESS
29G	B	TO MAIN HARNESS
30G	G	TO MAIN HARNESS
31G	L	TO MAIN HARNESS
32G	LG	TO MAIN HARNESS
33G	LG	TO MAIN HARNESS
34G	W	TO MAIN HARNESS
35G	P	TO MAIN HARNESS
36G	L	TO MAIN HARNESS
37G	BG	TO MAIN HARNESS
38G	W	TO MAIN HARNESS
39G	W	TO MAIN HARNESS
40G	Y	TO MAIN HARNESS
41G	BG	TO MAIN HARNESS
42G	P	TO MAIN HARNESS
43G	R	TO MAIN HARNESS
44G	W	TO MAIN HARNESS
45G	Y	TO MAIN HARNESS
46G	SB	TO MAIN HARNESS
47G	V	TO MAIN HARNESS
48G	BR	TO MAIN HARNESS
49G	W	TO MAIN HARNESS
50G	G	TO MAIN HARNESS
51G	B/W	TO MAIN HARNESS
52G	BR	TO MAIN HARNESS
53G	L	TO MAIN HARNESS
54G	P	TO MAIN HARNESS
55G	BR	TO MAIN HARNESS
56G	R	TO MAIN HARNESS
57G	P	TO MAIN HARNESS
58G	BG	TO MAIN HARNESS
59G	W	TO MAIN HARNESS
60G	B	TO MAIN HARNESS
61G	SHIELD	TO MAIN HARNESS
62G	P	TO MAIN HARNESS
63G	L	TO MAIN HARNESS
64G	R	TO MAIN HARNESS
65G	G/R	TO MAIN HARNESS
66G	R	TO MAIN HARNESS
67G	BG	TO MAIN HARNESS
68G	LG/R	TO MAIN HARNESS
69G	W	TO MAIN HARNESS
70G	G	TO MAIN HARNESS
71G	GR	TO MAIN HARNESS
72G	–	TO MAIN HARNESS
73G	–	TO MAIN HARNESS
74G	–	TO MAIN HARNESS
75G	G	TO MAIN HARNESS
76G	Y	TO MAIN HARNESS
77G	BR	TO MAIN HARNESS
78G	–	TO MAIN HARNESS
79G	P	TO MAIN HARNESS
80G	G	TO MAIN HARNESS
81G	R	TO MAIN HARNESS
82G	–	TO MAIN HARNESS
83G	–	TO MAIN HARNESS
84G	–	TO MAIN HARNESS
85G	–	TO MAIN HARNESS
86G	–	TO MAIN HARNESS
87G	–	TO MAIN HARNESS
88G	–	TO MAIN HARNESS
89G	R	TO MAIN HARNESS
90G	L	TO MAIN HARNESS
91G	L	TO MAIN HARNESS
92G	–	TO MAIN HARNESS
93G	–	TO MAIN HARNESS
94G	Y	TO MAIN HARNESS
95G	W	TO MAIN HARNESS
96G	–	TO MAIN HARNESS
97G	–	TO MAIN HARNESS
98G	–	TO MAIN HARNESS
99G	–	TO MAIN HARNESS
100G	SHIELD	TO MAIN HARNESS

Connector No.	E205
Connector Name	HOOD SWITCH
Connector Type	RK03MBR
Connector Color	BROWN

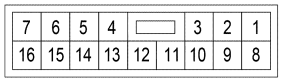
H.S.



Terminal No.	Color of Wire	Signal Name
1	LG	HOOD SW 2
2	R	HOOD SW
3	B	GROUND

Connector No.	E207
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	P	TO ENGINE ROOM HARNESS
2	P	TO ENGINE ROOM HARNESS
3	R	TO ENGINE ROOM HARNESS
4	B	TO ENGINE ROOM HARNESS
5	G	TO ENGINE ROOM HARNESS
6	–	TO ENGINE ROOM HARNESS
7	–	TO ENGINE ROOM HARNESS
8	G	TO ENGINE ROOM HARNESS
9	R	TO ENGINE ROOM HARNESS
10	G	TO ENGINE ROOM HARNESS
11	P	TO ENGINE ROOM HARNESS
12	R	TO ENGINE ROOM HARNESS
13	SHIELD	TO ENGINE ROOM HARNESS
14	SHIELD	TO ENGINE ROOM HARNESS
15	–	TO ENGINE ROOM HARNESS
16	–	TO ENGINE ROOM HARNESS

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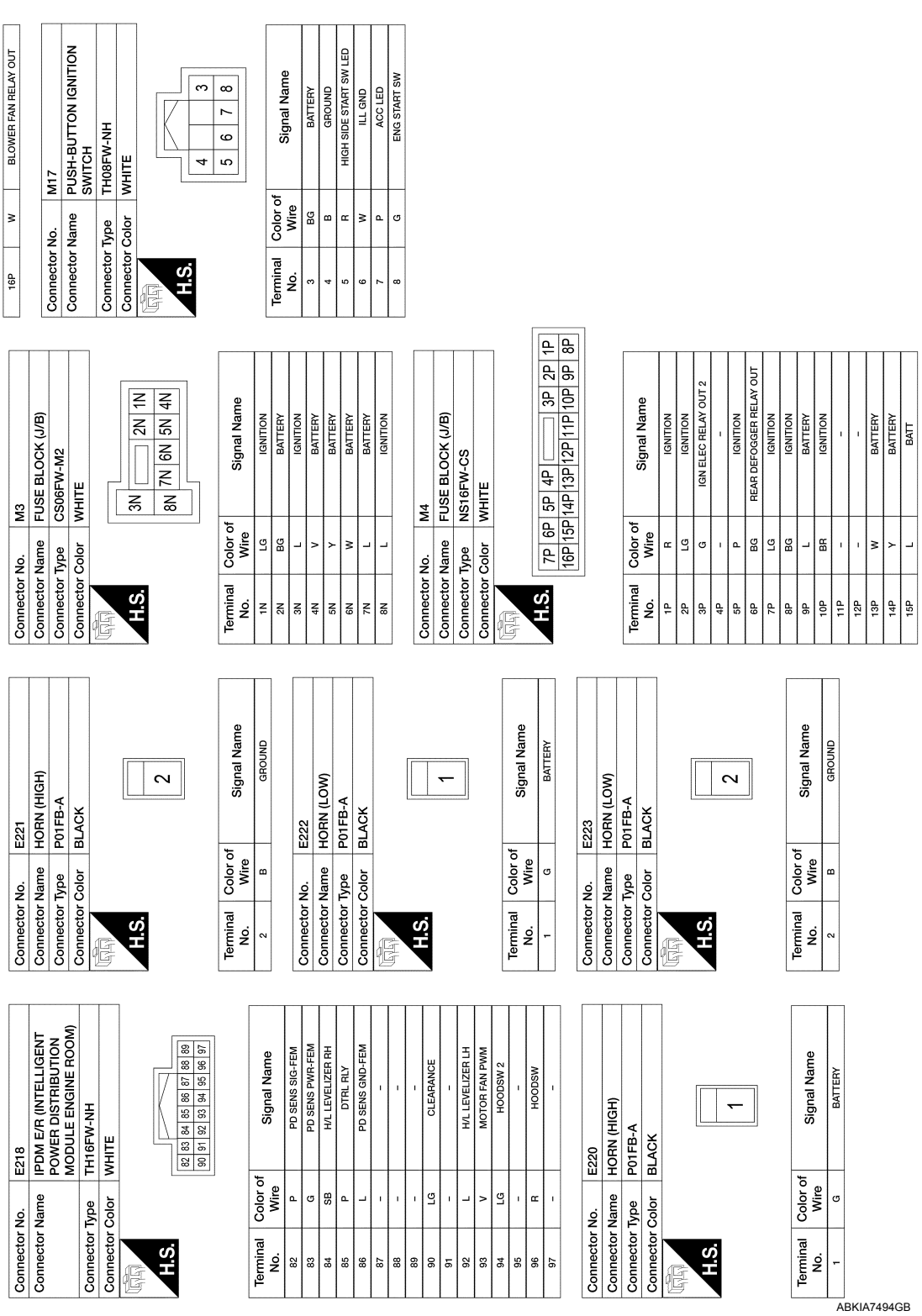
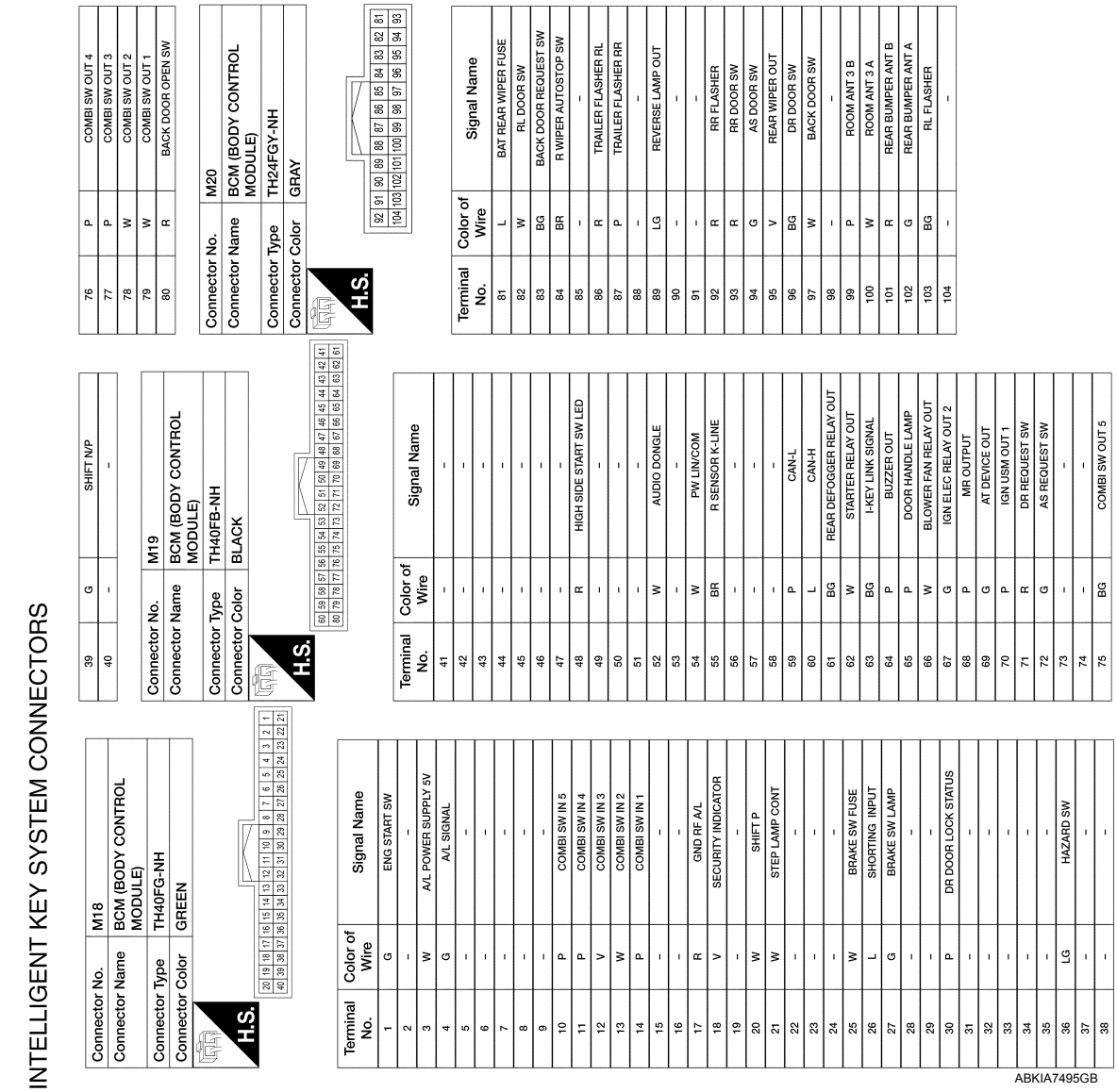
INTELLIGENT KEY SYSTEM CONNECTORS



INTELLIGENT KEY SYSTEM CONNECTORS



Terminal No.	Color of Wire	Signal Name
1	G	ENG START SW
2	–	–
3	W	A/L POWER SUPPLY 5V
4	G	A/L SIGNAL
5	–	–
6	–	–
7	–	–
8	–	–
9	–	–
10	P	COMBI SW IN 5
11	P	COMBI SW IN 4
12	V	COMBI SW IN 3
13	W	COMBI SW IN 2
14	P	COMBI SW IN 1
15	–	–
16	–	–
17	R	GND RF A/L
18	V	SECURITY INDICATOR
19	–	–
20	W	SHIFT P
21	W	STEP LAMP CONT
22	–	–
23	–	–
24	–	–
25	W	BRAKE SW FUSE
26	L	SHORTING INPUT
27	G	BRAKE SW LAMP
28	–	–
29	–	–
30	P	DR DOOR LOCK STATUS
31	–	–
32	–	–
33	–	–
34	–	–
35	–	–
36	LG	HAZARD SW
37	–	–
38	–	–
39	G	SHIFT N/P
40	–	–

Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	–	–
47	–	–
48	R	HIGH SIDE START SW LED
49	–	–
50	–	–
51	–	–
52	W	AUDIO DONGLE
53	–	–
54	W	PW LIN/COM
55	BR	R SENSOR K-LINE
56	–	–
57	–	–
58	–	–
59	P	CAN-L
60	L	CAN-H
61	BG	REAR DEFOGGER RELAY OUT
62	W	STARTER RELAY OUT
63	BG	I-KEY LINK SIGNAL
64	P	BUZZER OUT
65	P	DOOR HANDLE LAMP
66	W	BLOWER FAN RELAY OUT
67	G	IGN ELEC RELAY OUT 2
68	P	MR OUTPUT
69	G	AT DEVICE OUT
70	P	IGN USM OUT 1
71	R	DR REQUEST SW
72	G	AS REQUEST SW
73	–	–
74	–	–
75	BG	COMBI SW OUT 5
76	P	COMBI SW OUT 4
77	P	COMBI SW OUT 3
78	W	COMBI SW OUT 2
79	W	COMBI SW OUT 1
80	R	BACK DOOR OPEN SW

Terminal No.	Color of Wire	Signal Name
81	L	BAT REAR WIPER FUSE
82	W	RL DOOR SW
83	BG	BACK DOOR REQUEST SW
84	BR	R WIPER AUTOSTOP SW
85	–	–
86	R	TRAILER FLASHER RL
87	P	TRAILER FLASHER RR
88	–	–
89	LG	REVERSE LAMP OUT
90	–	–
91	–	–
92	R	RR FLASHER
93	R	RR DOOR SW
94	G	AS DOOR SW
95	V	REAR WIPER OUT
96	BG	DR DOOR SW
97	W	BACK DOOR SW
98	–	–
99	P	ROOM ANT 3 B
100	W	ROOM ANT 3 A
101	R	REAR BUMPER ANT B
102	G	REAR BUMPER ANT A
103	BG	RL FLASHER
104	–	–

INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M24
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	GND1
2	B	GND2
3	P	STRG SW INPUT 1
4	BG	STRG SW INPUT 2
5	P	ACC
6	V	SECURITY
7	R	AIR BAG
8	G	AS BELT
9	Y	DR BUCKLE SW
10	–	–
11	BG	ALTERNATOR (CHARGE)
12	G	PKB
13	–	–
14	G	STRG SW OUTPUT 1
15	W	STRG SW OUTPUT 2
16	B	STRG SW OUTPUT GND
17	–	–
18	–	–
19	–	–
20	–	–
21	BG	IGN
22	W	BAT
23	B	ILLUMI CONT OUT
24	R	STRG SW GND
25	G	BRAKE OIL SW
26	R	FUEL SENSOR GND
27	W	FUEL SENSOR
28	–	–
29	–	–
30	–	–
31	–	–
32	–	–
33	BR	SPEED 2 P/R
34	BG	SPEED 8 P/R
35	–	–
36	–	–
37	–	–
38	P	CAN-L

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.

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

39	L	CAN-H
40	–	–

Terminal No.	Color of Wire	Signal Name
1G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
1G	P	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
2G	W	TO ENGINE ROOM HARNESS
3G	P	TO ENGINE ROOM HARNESS
4G	G	TO ENGINE ROOM HARNESS
5G	P	TO ENGINE ROOM HARNESS
6G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6G	R	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7G	SHIELD	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	BG	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R	TO ENGINE ROOM HARNESS
12G	G	TO ENGINE ROOM HARNESS
13G	G	TO ENGINE ROOM HARNESS
14G	V	TO ENGINE ROOM HARNESS
15G	W	TO ENGINE ROOM HARNESS
16G	R	TO ENGINE ROOM HARNESS
17G	B	TO ENGINE ROOM HARNESS
18G	SHIELD	TO ENGINE ROOM HARNESS
19G	SB	TO ENGINE ROOM HARNESS
20G	LG	TO ENGINE ROOM HARNESS
21G	R	TO ENGINE ROOM HARNESS
22G	B	TO ENGINE ROOM HARNESS
23G	SHIELD	TO ENGINE ROOM HARNESS
24G	W	TO ENGINE ROOM HARNESS
25G	R	TO ENGINE ROOM HARNESS
26G	SHIELD	TO ENGINE ROOM HARNESS
27G	B	TO ENGINE ROOM HARNESS
28G	W	TO ENGINE ROOM HARNESS
29G	G	TO ENGINE ROOM HARNESS
30G	R	TO ENGINE ROOM HARNESS
31G	L	TO ENGINE ROOM HARNESS
32G	G	TO ENGINE ROOM HARNESS
33G	G	TO ENGINE ROOM HARNESS
34G	G	TO ENGINE ROOM HARNESS
35G	P	TO ENGINE ROOM HARNESS
36G	L	TO ENGINE ROOM HARNESS
37G	L	TO ENGINE ROOM HARNESS
38G	W	TO ENGINE ROOM HARNESS
39G	R	TO ENGINE ROOM HARNESS
40G	Y	TO ENGINE ROOM HARNESS
41G	L	TO ENGINE ROOM HARNESS
42G	P	TO ENGINE ROOM HARNESS
43G	W	TO ENGINE ROOM HARNESS
44G	G	TO ENGINE ROOM HARNESS
45G	R	TO ENGINE ROOM HARNESS
46G	Y	TO ENGINE ROOM HARNESS
47G	Y	TO ENGINE ROOM HARNESS
48G	LG	TO ENGINE ROOM HARNESS
49G	P	TO ENGINE ROOM HARNESS
50G	L	TO ENGINE ROOM HARNESS
51G	B/W	TO ENGINE ROOM HARNESS
52G	BR	TO ENGINE ROOM HARNESS
53G	L	TO ENGINE ROOM HARNESS
54G	BG	TO ENGINE ROOM HARNESS
55G	G	TO ENGINE ROOM HARNESS
56G	P	TO ENGINE ROOM HARNESS
57G	P	TO ENGINE ROOM HARNESS
58G	L	TO ENGINE ROOM HARNESS
59G	B	TO ENGINE ROOM HARNESS
60G	W	TO ENGINE ROOM HARNESS
61G	SHIELD	TO ENGINE ROOM HARNESS
62G	G	TO ENGINE ROOM HARNESS
63G	P	TO ENGINE ROOM HARNESS
64G	W	TO ENGINE ROOM HARNESS
65G	G/R	TO ENGINE ROOM HARNESS
66G	R	TO ENGINE ROOM HARNESS
67G	W	TO ENGINE ROOM HARNESS
68G	LG/R	TO ENGINE ROOM HARNESS
69G	P	TO ENGINE ROOM HARNESS
70G	BG	TO ENGINE ROOM HARNESS
71G	GR	TO ENGINE ROOM HARNESS
72G	–	TO ENGINE ROOM HARNESS
73G	–	TO ENGINE ROOM HARNESS
74G	–	TO ENGINE ROOM HARNESS
75G	G	TO ENGINE ROOM HARNESS
76G	Y	TO ENGINE ROOM HARNESS
77G	BR	TO ENGINE ROOM HARNESS
78G	–	TO ENGINE ROOM HARNESS
79G	R	TO ENGINE ROOM HARNESS
80G	W	TO ENGINE ROOM HARNESS
81G	G	TO ENGINE ROOM HARNESS
82G	P	TO ENGINE ROOM HARNESS
83G	P	TO ENGINE ROOM HARNESS
84G	P	TO ENGINE ROOM HARNESS
85G	P	TO ENGINE ROOM HARNESS
86G	P	TO ENGINE ROOM HARNESS
87G	P	TO ENGINE ROOM HARNESS
88G	P	TO ENGINE ROOM HARNESS
89G	R	TO ENGINE ROOM HARNESS
90G	P	TO ENGINE ROOM HARNESS
91G	L	TO ENGINE ROOM HARNESS
92G	P	TO ENGINE ROOM HARNESS
93G	P	TO ENGINE ROOM HARNESS
94G	O	TO ENGINE ROOM HARNESS
95G	B	TO ENGINE ROOM HARNESS
96G	P	TO ENGINE ROOM HARNESS
97G	P	TO ENGINE ROOM HARNESS
98G	P	TO ENGINE ROOM HARNESS
99G	P	TO ENGINE ROOM HARNESS
100G	SHIELD	TO ENGINE ROOM HARNESS

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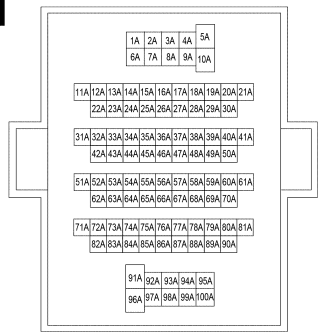
INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY

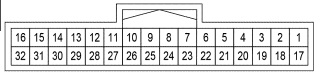
H.S.



Terminal No.	Color of Wire	Signal Name
1A	GR	TO BODY HARNESS
2A	BR	TO BODY HARNESS
3A	Y	TO BODY HARNESS
4A	V	TO BODY HARNESS
5A	L/B	TO BODY HARNESS
6A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	G	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	Y	TO BODY HARNESS
8A	W	TO BODY HARNESS
9A	L	TO BODY HARNESS
10A	R	TO BODY HARNESS
11A	R	TO BODY HARNESS
12A	BG	TO BODY HARNESS
13A	O	TO BODY HARNESS
14A	LG	TO BODY HARNESS
15A	R	TO BODY HARNESS
16A	G	TO BODY HARNESS
17A	B	TO BODY HARNESS
18A	B	TO BODY HARNESS
19A	SHIELD	TO BODY HARNESS
20A	B	TO BODY HARNESS
21A	SHIELD	TO BODY HARNESS
22A	–	TO BODY HARNESS
23A	W	TO BODY HARNESS
24A	B	TO BODY HARNESS
25A	SHIELD	TO BODY HARNESS
26A	B	TO BODY HARNESS
27A	B	TO BODY HARNESS
28A	SHIELD	TO BODY HARNESS
29A	R	TO BODY HARNESS
30A	B	TO BODY HARNESS
31A	R	TO BODY HARNESS
32A	Y/R	TO BODY HARNESS
33A	W	TO BODY HARNESS
34A	B	TO BODY HARNESS
35A	SHIELD	TO BODY HARNESS
36A	L/Y	TO BODY HARNESS
37A	LG	TO BODY HARNESS
38A	V	TO BODY HARNESS
39A	SB	TO BODY HARNESS
40A	BR	TO BODY HARNESS
41A	Y	TO BODY HARNESS
42A	G	TO BODY HARNESS
43A	–	TO BODY HARNESS
44A	W	TO BODY HARNESS
45A	R	TO BODY HARNESS
46A	BG	TO BODY HARNESS
47A	LG	TO BODY HARNESS
48A	R	TO BODY HARNESS
49A	P	TO BODY HARNESS
50A	W	TO BODY HARNESS
51A	L	TO BODY HARNESS
52A	P	TO BODY HARNESS
53A	G	TO BODY HARNESS
54A	W	TO BODY HARNESS
55A	BG	TO BODY HARNESS
56A	BR	TO BODY HARNESS
57A	P	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
57A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
58A	G	TO BODY HARNESS
59A	SB	TO BODY HARNESS
60A	L	TO BODY HARNESS
61A	G	TO BODY HARNESS
62A	BR	TO BODY HARNESS
63A	BR	TO BODY HARNESS
64A	Y	TO BODY HARNESS
65A	W	TO BODY HARNESS
66A	BG	TO BODY HARNESS
67A	Y	TO BODY HARNESS
68A	LG	TO BODY HARNESS
69A	R	TO BODY HARNESS
70A	P	TO BODY HARNESS
71A	BR	TO BODY HARNESS
72A	SB	TO BODY HARNESS
73A	BG	TO BODY HARNESS
74A	BR	TO BODY HARNESS
75A	LG	TO BODY HARNESS
76A	W	TO BODY HARNESS
77A	L	TO BODY HARNESS
78A	V	TO BODY HARNESS
79A	LG	TO BODY HARNESS
80A	Y	TO BODY HARNESS
81A	L	TO BODY HARNESS
82A	BG	TO BODY HARNESS
83A	Y	TO BODY HARNESS
84A	LG	TO BODY HARNESS
85A	SHIELD	TO BODY HARNESS
86A	Y	TO BODY HARNESS
87A	LG	TO BODY HARNESS
88A	BR	TO BODY HARNESS
89A	L	TO BODY HARNESS
90A	P	TO BODY HARNESS
91A	L	TO BODY HARNESS
92A	L	TO BODY HARNESS
93A	B	TO BODY HARNESS
94A	W	TO BODY HARNESS
95A	W	TO BODY HARNESS
96A	–	TO BODY HARNESS
97A	SB	TO BODY HARNESS
98A	Y	TO BODY HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
98A	L	TO BODY HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
99A	–	TO BODY HARNESS
100A	–	TO BODY HARNESS

Connector No.	M65
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO CONSOLE SUB HARNESS
2	G	TO CONSOLE SUB HARNESS
3	BR	TO CONSOLE SUB HARNESS
4	BG	TO CONSOLE SUB HARNESS
5	W	TO CONSOLE SUB HARNESS
6	P	TO CONSOLE SUB HARNESS
7	W	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	LG	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	R	TO CONSOLE SUB HARNESS - (WITH CLIMATE CONTROLLED SEAT)
8	L	TO CONSOLE SUB HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
9	V	TO CONSOLE SUB HARNESS
10	BG	TO CONSOLE SUB HARNESS
11	P	TO CONSOLE SUB HARNESS
12	G	TO CONSOLE SUB HARNESS
13	SHIELD	TO CONSOLE SUB HARNESS
14	B	TO CONSOLE SUB HARNESS
15	R	TO CONSOLE SUB HARNESS
16	W	TO CONSOLE SUB HARNESS
17	SB	TO CONSOLE SUB HARNESS
18	P	TO CONSOLE SUB HARNESS
19	G	TO CONSOLE SUB HARNESS
20	BG	TO CONSOLE SUB HARNESS
21	R	TO CONSOLE SUB HARNESS
22	W	TO CONSOLE SUB HARNESS
23	R	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS
25	G	TO CONSOLE SUB HARNESS
26	W	TO CONSOLE SUB HARNESS
27	LG	TO CONSOLE SUB HARNESS
28	B	TO CONSOLE SUB HARNESS
29	BR	TO CONSOLE SUB HARNESS
30	SHIELD	TO CONSOLE SUB HARNESS
31	B	TO CONSOLE SUB HARNESS
32	W	TO CONSOLE SUB HARNESS

ABKIA7539GB

INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1R	R	TAIL LH
2R	LG	IGNITION
3R	G	BATTERY
4R	–	–
5R	Y	BATTERY
6R	Y	IGNITION
7R	–	–
8R	–	–
9R	G	BRAKE
10R	W	BATTERY
11R	–	–
12R	–	–
13R	GR	GROUND
14R	–	–
15R	–	–
16R	BG	IGNITION

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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
1	W	TO BODY HARNESS - (WITHOUT NAVI)
1	R	TO BODY HARNESS - (WITH NAVI)
2	B	TO BODY HARNESS - (WITHOUT NAVI)
2	W	TO BODY HARNESS - (WITH NAVI)
3	R	TO BODY HARNESS - (WITHOUT NAVI)
3	B	TO BODY HARNESS - (WITH NAVI)
4	SHIELD	TO BODY HARNESS
5	B	TO BODY HARNESS
6	W	TO BODY HARNESS
7	SHIELD	TO BODY HARNESS
8	B	TO BODY HARNESS
9	SB	TO BODY HARNESS
10	BG	TO BODY HARNESS
11	R	TO BODY HARNESS
12	W	TO BODY HARNESS
13	–	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	L	TO BODY HARNESS
17	P	TO BODY HARNESS - (WITHOUT NAVI)
17	Y	TO BODY HARNESS - (WITH NAVI)
18	Y	TO BODY HARNESS - (WITHOUT NAVI)
18	P	TO BODY HARNESS - (WITH NAVI)
19	W	TO BODY HARNESS - (WITHOUT NAVI)
19	B	TO BODY HARNESS - (WITH NAVI)
20	B	TO BODY HARNESS - (WITHOUT NAVI)
20	W	TO BODY HARNESS - (WITH NAVI)
21	R	TO BODY HARNESS - (WITHOUT NAVI)
21	SHIELD	TO BODY HARNESS - (WITH NAVI)
22	G	TO BODY HARNESS - (WITHOUT NAVI)
22	W	TO BODY HARNESS - (WITH NAVI)
23	SHIELD	TO BODY HARNESS - (WITHOUT NAVI)
23	R	TO BODY HARNESS - (WITH NAVI)
24	SHIELD	TO BODY HARNESS
25	B	TO BODY HARNESS
26	G	TO BODY HARNESS
27	R	TO BODY HARNESS - (WITHOUT NAVI)
27	B	TO BODY HARNESS - (WITH NAVI)
28	B	TO BODY HARNESS - (WITHOUT NAVI)
28	R	TO BODY HARNESS - (WITH NAVI)
29	G	TO BODY HARNESS - (WITH NAVI)
29	W	TO BODY HARNESS - (WITHOUT NAVI)
30	SHIELD	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

Connector No.	M78
Connector Name	CVT SHIFT SELECTOR
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	R	ILL
2	GR	ILL CONT
3	G	S/LOCK SOL
4	GR	DETENT SHIFT SW
5	G	AT DEVICE
6	W	SHIFT P
7	SB	M RANGE
8	W	M SHIFT DN
9	BG	M SHIFT UP
10	P	NOT M RANGE
11	B	MODE SW
12	–	–
13	–	–
14	–	–
15	–	–
16	–	–

Connector No.	M80
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK

H.S.

116	115	114	113	112	111	110	109	108	107	106	105												
128	127	126	125	124	123	122	121	120	119	118	117												

Terminal No.	Color of Wire	Signal Name
105	LG	FR FLASHER
106	–	–
107	W	LOW SIDE START SW LED
108	G	SHIFT LOCK SOLENOID OUT
109	R	REVERSE SIGNAL
110	–	–
111	P	ACC LED
112	–	–
113	L	ACC RELAY OUT
114	W	AS DOOR ANT A
115	BG	AS DOOR ANT B
116	W	ROOM ANT 2 A
117	SB	FL FLASHER
118	–	–
119	R	RF NIMOCO
120	–	–
121	G	DR DOOR ANT B
122	P	DR DOOR ANT A
123	–	–
124	–	–
125	–	–
126	P	IMMO START BUTTON ANT B
127	BG	IMMO START BUTTON ANT A
128	R	ROOM ANT 2 B

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
129	SB	BATTERY SAVER OUT
130	LG	DOOR UNLOCK AS
131	W	BAT BCM FUSE
132	BR	DOOR LOCK RR/RL
133	Y	DOOR UNLOCK RR/RL
134	B	GND 2
135	L	DOOR LOCK DR/AS/FL
136	LG	ROOM LAMP CONT
137	V	DOOR UNLOCK DR/FL
138	V	BAT REAR DOOR
139	W	BAT POWER F/L
140	BR	P/W POWER SUPPLY IGN
141	Y	P/W POWER SUPPLY BAT
142	Y	BAT FRONT DOOR
143	B	GND 1

ABKIA7540GB

INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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
1	B	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	SHIELD	TO BODY HARNESS RH
4	LG	TO BODY HARNESS RH
5	P	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
5	Y	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
6	W	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
6	B	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
7	R	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
7	W	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
8	B	TO BODY HARNESS RH - (WITHOUT REAR ENTERTAINMENT SYSTEM)
8	R	TO BODY HARNESS RH - (WITH REAR ENTERTAINMENT SYSTEM)
9	SHIELD	TO BODY HARNESS RH
10	G	TO BODY HARNESS RH
11	L	TO BODY HARNESS RH
12	G	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	P	TO BODY HARNESS RH
15	O	TO BODY HARNESS RH
16	SB	TO BODY HARNESS RH
17	L	TO BODY HARNESS RH
18	P	TO BODY HARNESS RH
19	R	TO BODY HARNESS RH
20	–	TO BODY HARNESS RH
21	G	TO BODY HARNESS RH
22	R	TO BODY HARNESS RH
23	G	TO BODY HARNESS RH
24	R	TO BODY HARNESS RH - (WITH CLIMATE CONTROLLED SEAT)
24	V	TO BODY HARNESS RH - (WITHOUT CLIMATE CONTROLLED SEAT)
25	W	TO BODY HARNESS RH
26	W	TO BODY HARNESS RH
27	BG	TO BODY HARNESS RH
28	V	TO BODY HARNESS RH
29	SB	TO BODY HARNESS RH
30	L	TO BODY HARNESS RH
31	W	TO BODY HARNESS RH
32	–	TO BODY HARNESS RH

Connector No.	M86
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	AAC04FB
Connector Color	BLACK

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
1	BG	VAT
2	R	SIGNAL
3	GR	GND
4	–	–

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.

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	W	TO FRONT DOOR RH HARNESS
2	SHIELD	TO FRONT DOOR RH HARNESS
3	G	TO FRONT DOOR RH HARNESS
4	R	TO FRONT DOOR RH HARNESS
5	B	TO FRONT DOOR RH HARNESS
6	G	TO FRONT DOOR RH HARNESS
7	Y	TO FRONT DOOR RH HARNESS
8	W	TO FRONT DOOR RH HARNESS
9	BG	TO FRONT DOOR RH HARNESS
10	P	TO FRONT DOOR RH HARNESS
11	LG	TO FRONT DOOR RH HARNESS
12	B	TO FRONT DOOR RH HARNESS
13	W	TO FRONT DOOR RH HARNESS
14	Y/R	TO FRONT DOOR RH HARNESS
15	GR	TO FRONT DOOR RH HARNESS
16	B/W	TO FRONT DOOR RH HARNESS
17	BG	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
17	G	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
18	W	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	BG	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	G	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
19	P	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
20	G	TO FRONT DOOR RH HARNESS
21	W	TO FRONT DOOR RH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
21	R	TO FRONT DOOR RH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
22	SB	TO FRONT DOOR RH HARNESS
23	P	TO FRONT DOOR RH HARNESS
24	G	TO FRONT DOOR RH HARNESS
25	BG	TO FRONT DOOR RH HARNESS
26	W	TO FRONT DOOR RH HARNESS
27	–	TO FRONT DOOR RH HARNESS
28	–	TO FRONT DOOR RH HARNESS
29	W	TO FRONT DOOR RH HARNESS
30	SB	TO FRONT DOOR RH HARNESS
31	W	TO FRONT DOOR RH HARNESS
32	–	TO FRONT DOOR RH HARNESS

Connector No.	M158
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS
Connector Color	WHITE

H.S.

1	2	3	4
5	6	7	8	9	10

Terminal No.	Color of Wire	Signal Name
1	W	TO FRONT DOOR RH HARNESS
2	B	TO FRONT DOOR RH HARNESS
3	SHIELD	TO FRONT DOOR RH HARNESS
4	BR	TO FRONT DOOR RH HARNESS
5	Y	TO FRONT DOOR RH HARNESS
6	L	TO FRONT DOOR RH HARNESS
7	LG	TO FRONT DOOR RH HARNESS
8	GR	TO FRONT DOOR RH HARNESS
9	BR	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
9	G	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)
10	Y	TO FRONT DOOR RH HARNESS - (WITH BASE AUDIO SYSTEM)
10	W	TO FRONT DOOR RH HARNESS - (WITH BOSE AUDIO SYSTEM)

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INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M167
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	B	TO FRONT DOOR LH HARNESS
2	V	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	V	TO FRONT DOOR LH HARNESS
5	SB	TO FRONT DOOR LH HARNESS
6	BR	TO FRONT DOOR LH HARNESS
7	Y	TO FRONT DOOR LH HARNESS
8	W	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM)
8	V	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
9	P	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
9	G	TO FRONT DOOR LH HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
9	SB	TO FRONT DOOR LH HARNESS - (WITH BASE AUDIO SYSTEM)
10	L	TO FRONT DOOR LH HARNESS
11	BR	TO FRONT DOOR LH HARNESS
12	Y	TO FRONT DOOR LH HARNESS
13	LG	TO FRONT DOOR LH HARNESS
14	SHIELD	TO FRONT DOOR LH HARNESS
15	B	TO FRONT DOOR LH HARNESS
16	W	TO FRONT DOOR LH HARNESS

Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	SB	TO FRONT DOOR LH HARNESS
2	R	TO FRONT DOOR LH HARNESS
3	G/B	TO FRONT DOOR LH HARNESS
4	P	TO FRONT DOOR LH HARNESS
5	V	TO FRONT DOOR LH HARNESS
6	R	TO FRONT DOOR LH HARNESS
7	G	TO FRONT DOOR LH HARNESS
8	P	TO FRONT DOOR LH HARNESS
9	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
9	R	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
10	R	TO FRONT DOOR LH HARNESS
11	G	TO FRONT DOOR LH HARNESS
12	P	TO FRONT DOOR LH HARNESS
13	P	TO FRONT DOOR LH HARNESS
14	BG	TO FRONT DOOR LH HARNESS
15	W	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
15	G	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
16	G	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
16	W	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
17	G	TO FRONT DOOR LH HARNESS
18	W	TO FRONT DOOR LH HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
18	BG	TO FRONT DOOR LH HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
19	W	TO FRONT DOOR LH HARNESS
20	SB	TO FRONT DOOR LH HARNESS
21	P	TO FRONT DOOR LH HARNESS
22	W	TO FRONT DOOR LH HARNESS
23	G	TO FRONT DOOR LH HARNESS
24	SB	TO FRONT DOOR LH HARNESS
25	R	TO FRONT DOOR LH HARNESS
26	B	TO FRONT DOOR LH HARNESS
27	-	TO FRONT DOOR LH HARNESS
28	B	TO FRONT DOOR LH HARNESS
29	SHIELD	TO FRONT DOOR LH HARNESS
30	R	TO FRONT DOOR LH HARNESS
31	G	TO FRONT DOOR LH HARNESS
32	W	TO FRONT DOOR LH HARNESS
33	BG	TO FRONT DOOR LH HARNESS
34	Y	TO FRONT DOOR LH HARNESS
35	R	TO FRONT DOOR LH HARNESS
36	BG	TO FRONT DOOR LH HARNESS
37	W	TO FRONT DOOR LH HARNESS
38	P	TO FRONT DOOR LH HARNESS
39	W	TO FRONT DOOR LH HARNESS
40	P	TO FRONT DOOR LH HARNESS

Connector No.	M181
Connector Name	JOINT CONNECTOR-M36
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	W	BATTERY
2	W	BATTERY
3	W	BATTERY
4	W	BATTERY

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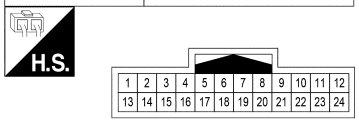
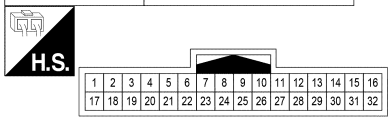
INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M202
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE



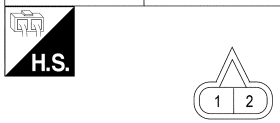
Terminal No.	Color of Wire	Signal Name
1	W	TO CONSOLE SWITCH SUB HARNESS
2	LG	TO CONSOLE SWITCH SUB HARNESS
3	W	TO CONSOLE SWITCH SUB HARNESS
4	G	TO CONSOLE SWITCH SUB HARNESS
5	–	TO CONSOLE SWITCH SUB HARNESS
6	SHIELD	TO CONSOLE SWITCH SUB HARNESS
7	B	TO CONSOLE SWITCH SUB HARNESS
8	W	TO CONSOLE SWITCH SUB HARNESS
9	SB	TO CONSOLE SWITCH SUB HARNESS
10	W	TO CONSOLE SWITCH SUB HARNESS
11	B	TO CONSOLE SWITCH SUB HARNESS
12	SHIELD	TO CONSOLE SWITCH SUB HARNESS
13	B	TO CONSOLE SWITCH SUB HARNESS
14	LG	TO CONSOLE SWITCH SUB HARNESS
15	W	TO CONSOLE SWITCH SUB HARNESS
16	G	TO CONSOLE SWITCH SUB HARNESS
17	R	TO CONSOLE SWITCH SUB HARNESS
18	B	TO CONSOLE SWITCH SUB HARNESS
19	W	TO CONSOLE SWITCH SUB HARNESS
20	B	TO CONSOLE SWITCH SUB HARNESS
21	B	TO CONSOLE SWITCH SUB HARNESS
22	R	TO CONSOLE SWITCH SUB HARNESS
23	B	TO CONSOLE SWITCH SUB HARNESS
24	B	TO CONSOLE SWITCH SUB HARNESS
25	SHIELD	TO CONSOLE SWITCH SUB HARNESS
26	B	TO CONSOLE SWITCH SUB HARNESS
27	R	TO CONSOLE SWITCH SUB HARNESS
28	W	TO CONSOLE SWITCH SUB HARNESS
29	L	TO CONSOLE SWITCH SUB HARNESS
30	G	TO CONSOLE SWITCH SUB HARNESS
31	R	TO CONSOLE SWITCH SUB HARNESS
32	SHIELD	TO CONSOLE SWITCH SUB HARNESS
33	W	TO CONSOLE SWITCH SUB HARNESS
34	B	TO CONSOLE SWITCH SUB HARNESS
35	L	TO CONSOLE SWITCH SUB HARNESS
36	G	TO CONSOLE SWITCH SUB HARNESS
37	R	TO CONSOLE SWITCH SUB HARNESS
38	SHIELD	TO CONSOLE SWITCH SUB HARNESS
39	W	TO CONSOLE SWITCH SUB HARNESS
40	B	TO CONSOLE SWITCH SUB HARNESS

Connector No.	M217
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	BG	TO MAIN HARNESS
2	BG	TO MAIN HARNESS
3	Y	TO MAIN HARNESS
4	BR	TO MAIN HARNESS
5	SB	TO MAIN HARNESS
6	P	TO MAIN HARNESS
7	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7	W	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
8	L	TO MAIN HARNESS
9	G	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
9	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
10	V	TO MAIN HARNESS
11	P	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	SHIELD	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	W	TO MAIN HARNESS
16	R	TO MAIN HARNESS
17	W	TO MAIN HARNESS
18	L	TO MAIN HARNESS
19	G	TO MAIN HARNESS
20	Y	TO MAIN HARNESS
21	B	TO MAIN HARNESS
22	W	TO MAIN HARNESS
23	R	TO MAIN HARNESS
24	B	TO MAIN HARNESS
25	G	TO MAIN HARNESS
26	W	TO MAIN HARNESS
27	LG	TO MAIN HARNESS
28	B	TO MAIN HARNESS
29	BR	TO MAIN HARNESS
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	W	TO MAIN HARNESS

Connector No.	M255
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY
Connector Color	GRAY



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

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INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M257
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

39	W	TO CONSOLE SUB HARNESS
40	B	TO CONSOLE SUB HARNESS

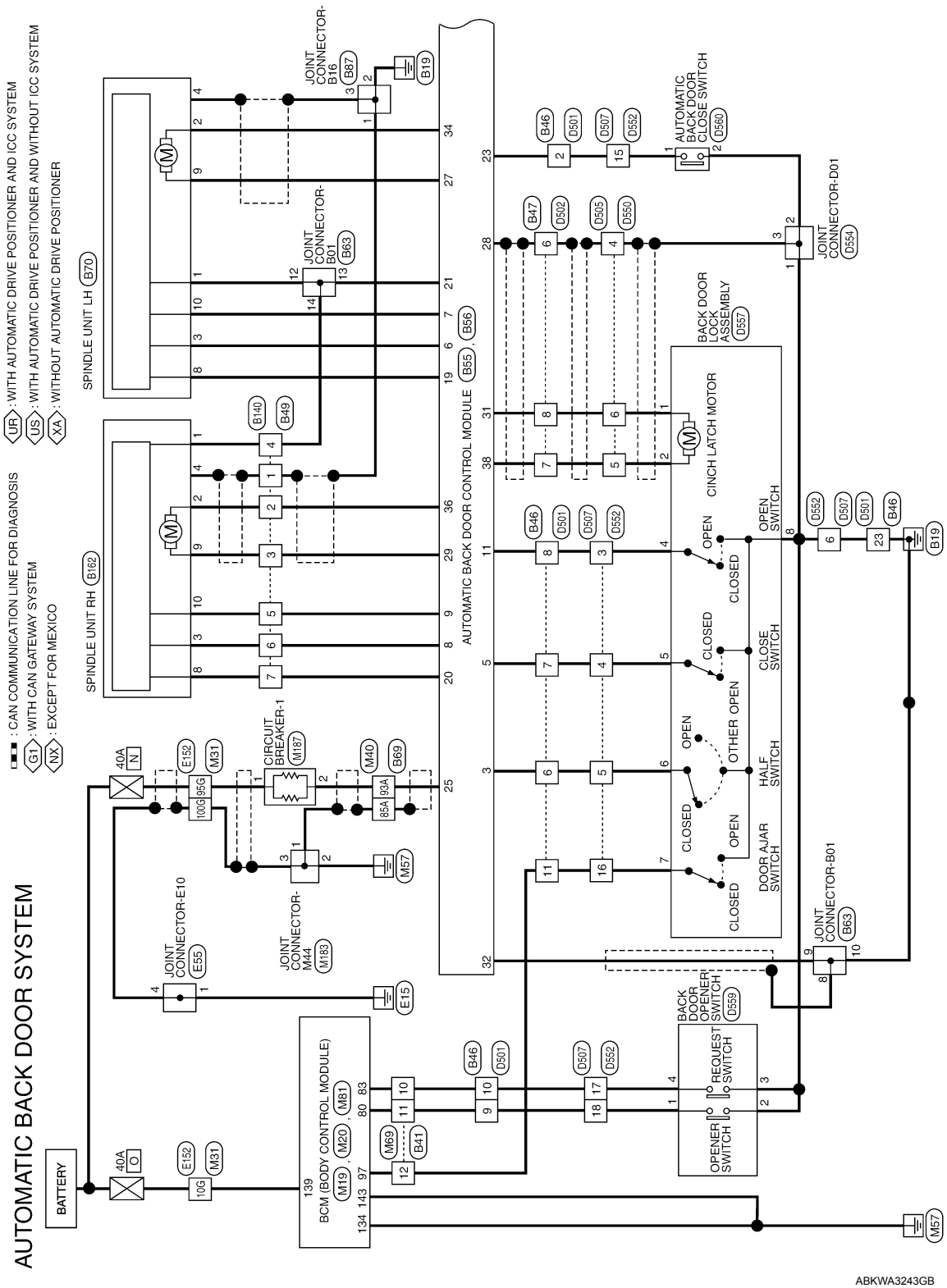
Terminal No.	Color of Wire	Signal Name
1	W	TO CONSOLE SUB HARNESS
2	LG	TO CONSOLE SUB HARNESS
3	W	TO CONSOLE SUB HARNESS
4	G	TO CONSOLE SUB HARNESS
5	–	TO CONSOLE SUB HARNESS
6	SHIELD	TO CONSOLE SUB HARNESS
7	B	TO CONSOLE SUB HARNESS
8	W	TO CONSOLE SUB HARNESS
9	BG	TO CONSOLE SUB HARNESS
10	W	TO CONSOLE SUB HARNESS
11	B	TO CONSOLE SUB HARNESS
12	SHIELD	TO CONSOLE SUB HARNESS
13	B	TO CONSOLE SUB HARNESS
14	LG	TO CONSOLE SUB HARNESS
15	W	TO CONSOLE SUB HARNESS
16	G	TO CONSOLE SUB HARNESS
17	R	TO CONSOLE SUB HARNESS
18	B	TO CONSOLE SUB HARNESS
19	W	TO CONSOLE SUB HARNESS
20	B	TO CONSOLE SUB HARNESS
21	B	TO CONSOLE SUB HARNESS
22	R	TO CONSOLE SUB HARNESS
23	B	TO CONSOLE SUB HARNESS
24	B	TO CONSOLE SUB HARNESS
25	SHIELD	TO CONSOLE SUB HARNESS
26	R	TO CONSOLE SUB HARNESS
27	B	TO CONSOLE SUB HARNESS
28	W	TO CONSOLE SUB HARNESS
29	L	TO CONSOLE SUB HARNESS
30	G	TO CONSOLE SUB HARNESS
31	R	TO CONSOLE SUB HARNESS
32	SHIELD	TO CONSOLE SUB HARNESS
33	W	TO CONSOLE SUB HARNESS
34	B	TO CONSOLE SUB HARNESS
35	P	TO CONSOLE SUB HARNESS
36	G	TO CONSOLE SUB HARNESS
37	R	TO CONSOLE SUB HARNESS
38	SHIELD	TO CONSOLE SUB HARNESS

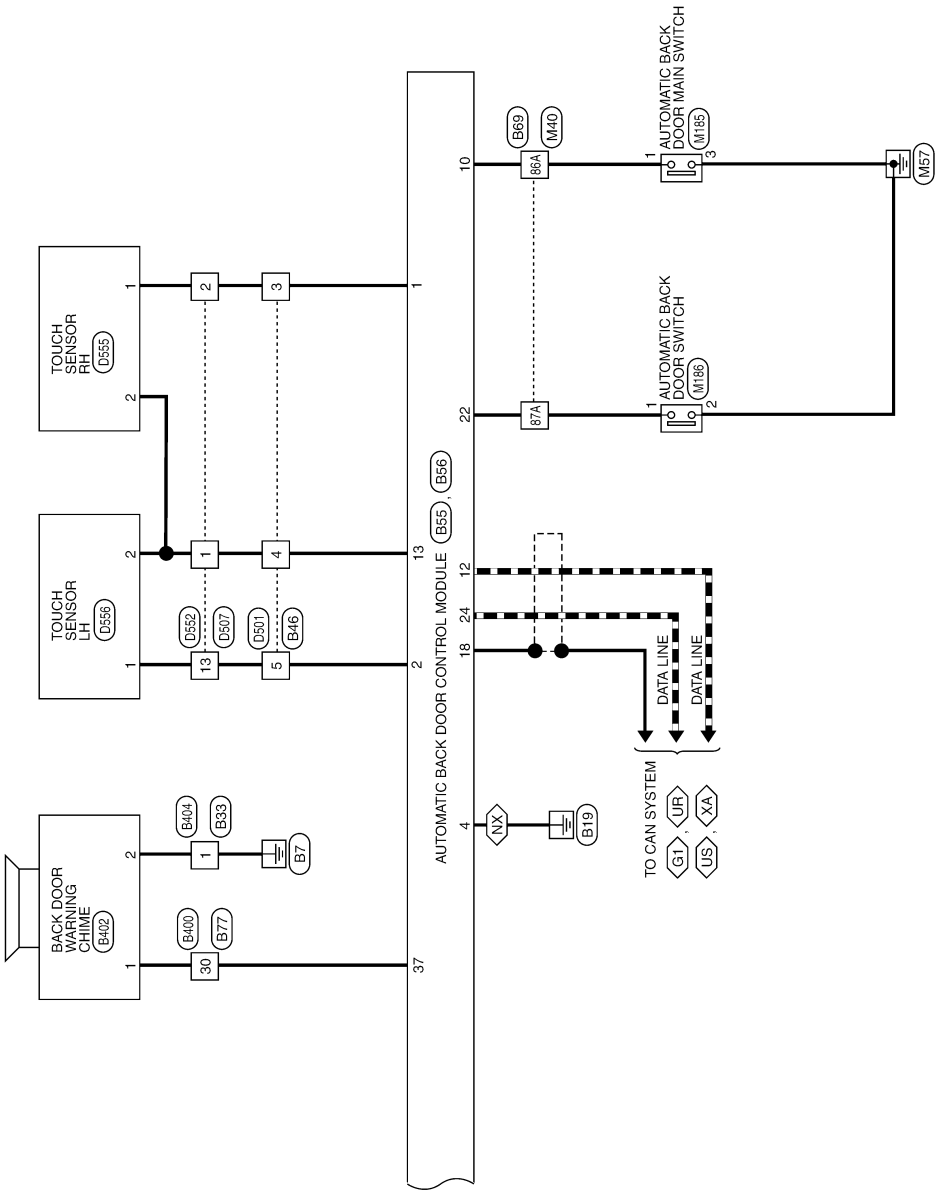
ABKIA7544GB

AUTOMATIC BACK DOOR SYSTEM

Wiring Diagram

INFOID:0000000012851910




AUTOMATIC BACK DOOR MAIN SWITCH
AUTOMATIC BACK DOOR SWITCH
TOUCH SENSOR RH
TOUCH SENSOR LH
BACK DOOR WARNING CHIME
AUTOMATIC BACK DOOR CONTROL MODULE
DATA LINE
DATA LINE
TO CAN SYSTEM
ABKWA3244GB

AUTOMATIC BACK DOOR SYSTEM CONNECTORS

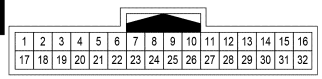
Connector No.	B33
Connector Name	WIRE TO WIRE
Connector Type	M02MB-P-LC
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO BODY NO. 3 HARNESS
2	W	TO BODY NO. 3 HARNESS

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO MAIN HARNESS - (WITHOUT NAVI)
1	R	TO MAIN HARNESS - (WITH NAVI)
2	R	TO MAIN HARNESS - (WITHOUT NAVI)
2	W	TO MAIN HARNESS - (WITH NAVI)
3	B	TO MAIN HARNESS
4	SHIELD	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	W	TO MAIN HARNESS
7	SHIELD	TO MAIN HARNESS
8	B	TO MAIN HARNESS
9	V	TO MAIN HARNESS
10	R	TO MAIN HARNESS
11	W	TO MAIN HARNESS
12	G	TO MAIN HARNESS
13	–	TO MAIN HARNESS
14	–	TO MAIN HARNESS
15	–	TO MAIN HARNESS
16	–	TO MAIN HARNESS
17	BG	TO MAIN HARNESS - (WITHOUT NAVI)
17	V	TO MAIN HARNESS - (WITH NAVI)
18	SB	TO MAIN HARNESS - (WITHOUT NAVI)
18	W	TO MAIN HARNESS - (WITH NAVI)
19	W	TO MAIN HARNESS - (WITHOUT NAVI)
19	B	TO MAIN HARNESS - (WITH NAVI)
20	B	TO MAIN HARNESS - (WITHOUT NAVI)
20	W	TO MAIN HARNESS - (WITH NAVI)
21	R	TO MAIN HARNESS - (WITHOUT NAVI)
21	SHIELD	TO MAIN HARNESS - (WITH NAVI)
22	G	TO MAIN HARNESS - (WITHOUT NAVI)
22	W	TO MAIN HARNESS - (WITH NAVI)
23	SHIELD	TO MAIN HARNESS - (WITHOUT NAVI)
23	R	TO MAIN HARNESS - (WITH NAVI)
24	SHIELD	TO MAIN HARNESS
25	B	TO MAIN HARNESS
26	G	TO MAIN HARNESS
27	W	TO MAIN HARNESS - (WITH NAVI)
27	R	TO MAIN HARNESS - (WITHOUT NAVI)
28	R	TO MAIN HARNESS - (WITH NAVI)
28	B	TO MAIN HARNESS - (WITHOUT NAVI)
29	G	TO MAIN HARNESS - (WITH NAVI)
29	W	TO MAIN HARNESS - (WITHOUT NAVI)
30	SHIELD	TO MAIN HARNESS
31	B	TO MAIN HARNESS
32	–	TO MAIN HARNESS

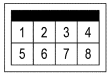
Connector No.	B46
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	TO BACK DOOR LH HARNESS
2	Y	TO BACK DOOR LH HARNESS
3	BR	TO BACK DOOR LH HARNESS
4	SB	TO BACK DOOR LH HARNESS
5	LG	TO BACK DOOR LH HARNESS
6	L	TO BACK DOOR LH HARNESS
7	LG	TO BACK DOOR LH HARNESS
8	BR	TO BACK DOOR LH HARNESS
9	W	TO BACK DOOR LH HARNESS
10	R	TO BACK DOOR LH HARNESS
11	G	TO BACK DOOR LH HARNESS
12	W	TO BACK DOOR LH HARNESS
13	W	TO BACK DOOR LH HARNESS - (WITH NAVI)
13	R	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
14	R	TO BACK DOOR LH HARNESS - (WITH NAVI)
14	B	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
15	G	TO BACK DOOR LH HARNESS - (WITH NAVI)
15	W	TO BACK DOOR LH HARNESS - (WITHOUT NAVI)
16	SHIELD	TO BACK DOOR LH HARNESS
17	B	TO BACK DOOR LH HARNESS
18	–	TO BACK DOOR LH HARNESS
19	W	TO BACK DOOR LH HARNESS
20	W	TO BACK DOOR LH HARNESS
21	G	TO BACK DOOR LH HARNESS
22	BR	TO BACK DOOR LH HARNESS
23	GR	TO BACK DOOR LH HARNESS
24	G	TO BACK DOOR LH HARNESS

Connector No.	B47
Connector Name	WIRE TO WIRE
Connector Type	M08MW-GY-LC
Connector Color	GRAY

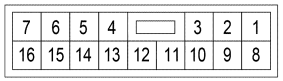
H.S.



Terminal No.	Color of Wire	Signal Name
1	W	TO BACK DOOR LH HARNESS
2	B	TO BACK DOOR LH HARNESS
3	BG	TO BACK DOOR LH HARNESS
4	B	TO BACK DOOR LH HARNESS
5	G	TO BACK DOOR LH HARNESS
6	SHIELD	TO BACK DOOR LH HARNESS
7	W	TO BACK DOOR LH HARNESS
8	B	TO BACK DOOR LH HARNESS

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO BODY HARNESS RH
2	W	TO BODY HARNESS RH
3	B	TO BODY HARNESS RH
4	LG	TO BODY HARNESS RH
5	L	TO BODY HARNESS RH
6	BR	TO BODY HARNESS RH
7	Y	TO BODY HARNESS RH
8	–	TO BODY HARNESS RH
9	G	TO BODY HARNESS RH
10	W	TO BODY HARNESS RH
11	P	TO BODY HARNESS RH
12	R	TO BODY HARNESS RH
13	G	TO BODY HARNESS RH
14	R	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
14	R	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
15	B	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
15	B	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
16	W	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
16	W	TO BODY HARNESS RH - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)

ABKIA7478GB

AUTOMATIC BACK DOOR SYSTEM CONNECTORS

Connector No.	B55
Connector Name	AUTOMATIC BACK DOOR CONTROL MODULE
Connector Type	AAC24FB
Connector Color	BLACK

H.S.

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
1	BR	TOUCH SENS RH
2	LG	TOUCH SENS LH
3	L	HALF-LATCH-SW
4	GR	LOGIC
5	LG	CLOSE SW
6	V	A SIGN LH
7	Y	B SIGN LH
8	BR	A SIGN RH
9	L	B SIGN RH
10	LG	MAIN SW
11	BR	OPEN SW
12	W	CAN-L
13	SB	TOUCH SENS GND
14	–	–
15	–	–
16	–	–
17	–	–
18	SHIELD	CAN SHIELD
19	SB	POWER LH
20	Y	POWER RH
21	LG	GND HALL
22	SB	DRIVER SW
23	Y	INSIDE CLOSE SW
24	B	CAN-H

Connector No.	B56
Connector Name	AUTOMATIC BACK DOOR CONTROL MODULE
Connector Type	YEA10FGY-YHA4
Connector Color	GRAY

H.S.

25	26	27	28	29	30	31
32	33	34	35	36	37	38

Terminal No.	Color of Wire	Signal Name
25	B	+B
26	–	–
27	B	LH MTR OPEN
28	SHIELD	NOISE SHIELD LATCH
29	B	RH MTR OPEN
30	–	–
31	B	LATCH MTR OPEN
32	B	GND
33	–	–
34	W	LH MTR CLOSE
35	–	–
36	W	RH MTR CLOSE
37	LG	BUZZER
38	W	LATCH MTR CLOSE

Connector No.	B63
Connector Name	JOINT CONNECTOR-B01
Connector Type	BJ30FW
Connector Color	WHITE

H.S.

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

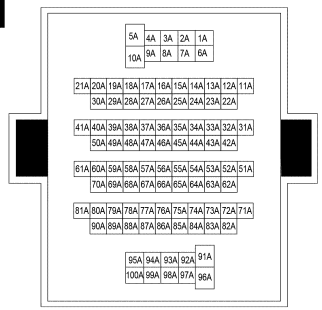
Terminal No.	Color of Wire	Signal Name
1	L	ITS CAN-H
2	L	ITS CAN-H
3	L	ITS CAN-H
4	Y	ITS CAN-L
5	Y	ITS CAN-L
6	Y	ITS CAN-L
7	–	–
8	SHIELD	GND
9	B	GND
10	B	GND
11	B	GND
12	LG	ILLUMI CONT OUT
13	LG	ILLUMI CONT OUT
14	LG	ILLUMI CONT OUT
15	–	–
16	W	ALERT SIGNAL
17	W	ALERT SIGNAL
18	–	–
19	B	GND
20	B	GND
21	SHIELD	SHIELD
22	B	GND
23	–	–
24	–	–
25	SHIELD	SHIELD
26	B	GND
27	B	GND
28	B	GND
29	W	TAIL
30	W	TAIL
31	W	TAIL
32	W	TAIL
33	W	TAIL

ABKIA7479GB

AUTOMATIC BACK DOOR SYSTEM CONNECTORS

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4
Connector Color	GRAY

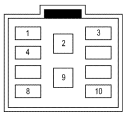
H.S.



Terminal No.	Color of Wire	Signal Name
1A	–	TO MAIN HARNESS
2A	Y	TO MAIN HARNESS
3A	Y	TO MAIN HARNESS
4A	G	TO MAIN HARNESS
5A	–	TO MAIN HARNESS
6A	LG	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	R	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	BR	TO MAIN HARNESS
8A	G	TO MAIN HARNESS
9A	P	TO MAIN HARNESS
10A	–	TO MAIN HARNESS
11A	W	TO MAIN HARNESS
12A	G	TO MAIN HARNESS
13A	–	TO MAIN HARNESS
14A	R	TO MAIN HARNESS
15A	G	TO MAIN HARNESS
16A	W	TO MAIN HARNESS
17A	B	TO MAIN HARNESS
18A	B	TO MAIN HARNESS
19A	SHIELD	TO MAIN HARNESS
20A	W	TO MAIN HARNESS
21A	SHIELD	TO MAIN HARNESS
22A	–	TO MAIN HARNESS
23A	W	TO MAIN HARNESS
24A	B	TO MAIN HARNESS
25A	SHIELD	TO MAIN HARNESS
26A	B	TO MAIN HARNESS
27A	B	TO MAIN HARNESS
28A	SHIELD	TO MAIN HARNESS
29A	R	TO MAIN HARNESS
30A	B	TO MAIN HARNESS
31A	BR	TO MAIN HARNESS
32A	–	TO MAIN HARNESS
33A	W	TO MAIN HARNESS
34A	B	TO MAIN HARNESS
35A	SHIELD	TO MAIN HARNESS
36A	–	TO MAIN HARNESS
37A	LG	TO MAIN HARNESS
38A	V	TO MAIN HARNESS
39A	SB	TO MAIN HARNESS
40A	BR	TO MAIN HARNESS
41A	Y	TO MAIN HARNESS
42A	–	TO MAIN HARNESS
43A	–	TO MAIN HARNESS
44A	V	TO MAIN HARNESS
45A	G	TO MAIN HARNESS
46A	V	TO MAIN HARNESS
47A	L	TO MAIN HARNESS
48A	SB	TO MAIN HARNESS
49A	G	TO MAIN HARNESS
50A	W	TO MAIN HARNESS
51A	–	TO MAIN HARNESS
52A	–	TO MAIN HARNESS
53A	R	TO MAIN HARNESS
54A	SB	TO MAIN HARNESS
55A	LG	TO MAIN HARNESS
56A	Y	TO MAIN HARNESS
57A	SB	TO MAIN HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
57A	V	TO MAIN HARNESS - (WITH CLIMATE CONTROLLED SEAT)
58A	BR	TO MAIN HARNESS
59A	BR	TO MAIN HARNESS
60A	L	TO MAIN HARNESS
61A	Y	TO MAIN HARNESS
62A	–	TO MAIN HARNESS
63A	P	TO MAIN HARNESS
64A	R	TO MAIN HARNESS
65A	SB	TO MAIN HARNESS
66A	L	TO MAIN HARNESS
67A	LG	TO MAIN HARNESS
68A	P	TO MAIN HARNESS
69A	W	TO MAIN HARNESS
70A	G	TO MAIN HARNESS
71A	BR	TO MAIN HARNESS
72A	–	TO MAIN HARNESS
73A	Y	TO MAIN HARNESS
74A	P	TO MAIN HARNESS
75A	V	TO MAIN HARNESS
76A	R	TO MAIN HARNESS
77A	Y	TO MAIN HARNESS
78A	LG	TO MAIN HARNESS
79A	BR	TO MAIN HARNESS
80A	Y	TO MAIN HARNESS
81A	L	TO MAIN HARNESS
82A	BG	TO MAIN HARNESS
83A	Y	TO MAIN HARNESS
84A	LG	TO MAIN HARNESS
85A	SHIELD	TO MAIN HARNESS
86A	LG	TO MAIN HARNESS
87A	SB	TO MAIN HARNESS
88A	BG	TO MAIN HARNESS
89A	L	TO MAIN HARNESS
90A	P	TO MAIN HARNESS
91A	L	TO MAIN HARNESS
92A	LG	TO MAIN HARNESS
93A	B	TO MAIN HARNESS
94A	–	TO MAIN HARNESS
95A	–	TO MAIN HARNESS
96A	–	TO MAIN HARNESS
97A	BR	TO MAIN HARNESS
98A	L	TO MAIN HARNESS
99A	–	TO MAIN HARNESS
100A	–	TO MAIN HARNESS

Connector No.	B70
Connector Name	SPINDLE UNIT LH
Connector Type	ADB08MB-AHD2
Connector Color	BLACK

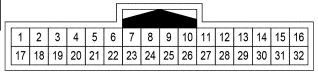
H.S.



Terminal No.	Color of Wire	Signal Name
1	LG	GND HALL
2	W	LH MTR CLOSE
3	V	A SIGN LH
4	SHIELD	GND
8	SB	POWER LH
9	B	LH MTR OPEN
10	Y	B SIGN LH

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	–	TO BODY NO. 3 HARNESS
2	–	TO BODY NO. 3 HARNESS
3	–	TO BODY NO. 3 HARNESS
4	G	TO BODY NO. 3 HARNESS
5	W	TO BODY NO. 3 HARNESS
6	R	TO BODY NO. 3 HARNESS
7	W	TO BODY NO. 3 HARNESS
8	B	TO BODY NO. 3 HARNESS
9	W	TO BODY NO. 3 HARNESS
10	G	TO BODY NO. 3 HARNESS
11	–	TO BODY NO. 3 HARNESS
12	L	TO BODY NO. 3 HARNESS
13	Y	TO BODY NO. 3 HARNESS
14	–	TO BODY NO. 3 HARNESS
15	G	TO BODY NO. 3 HARNESS
16	–	TO BODY NO. 3 HARNESS
17	B	TO BODY NO. 3 HARNESS
18	B	TO BODY NO. 3 HARNESS
19	SHIELD	TO BODY NO. 3 HARNESS
20	R	TO BODY NO. 3 HARNESS
21	B	TO BODY NO. 3 HARNESS
22	W	TO BODY NO. 3 HARNESS
23	SHIELD	TO BODY NO. 3 HARNESS
24	W	TO BODY NO. 3 HARNESS
25	B	TO BODY NO. 3 HARNESS
26	SHIELD	TO BODY NO. 3 HARNESS
27	B	TO BODY NO. 3 HARNESS
28	B	TO BODY NO. 3 HARNESS
29	SHIELD	TO BODY NO. 3 HARNESS
30	LG	TO BODY NO. 3 HARNESS
31	W	TO BODY NO. 3 HARNESS
32	–	TO BODY NO. 3 HARNESS

ABKIA7480GB

AUTOMATIC BACK DOOR SYSTEM CONNECTORS

Connector No.	B87
Connector Name	JOINT CONNECTOR-B16
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	GND
2	GR	GND
3	SHIELD	GND
4	–	–

Connector No.	B140
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	SHIELD	TO BODY HARNESS
2	W	TO BODY HARNESS
3	B	TO BODY HARNESS
4	L	TO BODY HARNESS
5	BR	TO BODY HARNESS
6	Y	TO BODY HARNESS
7	LG	TO BODY HARNESS
8	–	TO BODY HARNESS
9	G	TO BODY HARNESS
10	W	TO BODY HARNESS
11	P	TO BODY HARNESS
12	R	TO BODY HARNESS
13	G	TO BODY HARNESS
14	R	TO BODY HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
14	R	TO BODY HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
15	B	TO BODY HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
15	B	TO BODY HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)
16	W	TO BODY HARNESS - (WITH BOSE AUDIO SYSTEM WITHOUT SURROUND SOUND SYSTEM)
16	W	TO BODY HARNESS - (WITH BOSE AUDIO SYSTEM AND SURROUND SOUND SYSTEM)

Connector No.	B162
Connector Name	SPINDLE UNIT RH
Connector Type	ADB08MB-AHD2
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	L	GND HALL
2	W	RH MTR CLOSE
3	Y	A SIGN RH
4	SHIELD	GND
8	LG	POWER RH
9	B	RH MTR OPEN
10	BR	B SIGN RH

Connector No.	B400
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	TO BODY HARNESS
2	–	TO BODY HARNESS
3	–	TO BODY HARNESS
4	G	TO BODY HARNESS
5	W	TO BODY HARNESS
6	R	TO BODY HARNESS
7	W	TO BODY HARNESS
8	B	TO BODY HARNESS
9	W	TO BODY HARNESS
10	G	TO BODY HARNESS
11	–	TO BODY HARNESS
12	L	TO BODY HARNESS
13	Y	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	B	TO BODY HARNESS
17	B	TO BODY HARNESS
18	B	TO BODY HARNESS
19	SHIELD	TO BODY HARNESS
20	R	TO BODY HARNESS
21	B	TO BODY HARNESS
22	W	TO BODY HARNESS
23	SHIELD	TO BODY HARNESS
24	W	TO BODY HARNESS
25	B	TO BODY HARNESS
26	SHIELD	TO BODY HARNESS
27	B	TO BODY HARNESS
28	B	TO BODY HARNESS
29	SHIELD	TO BODY HARNESS
30	LG	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

Connector No.	B402
Connector Name	BACK DOOR WARNING CHIME
Connector Type	RK02FBR-DGY
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	LG	BUZZER
2	B	GROUND

Connector No.	B404
Connector Name	WIRE TO WIRE
Connector Type	M02FB-P-LC
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	TO BODY HARNESS
2	W	TO BODY HARNESS

ABKIA7481GB

AUTOMATIC BACK DOOR SYSTEM CONNECTORS

Connector No.	D501
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

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

Connector No.	D502
Connector Name	WIRE TO WIRE
Connector Type	M08FW-GY-LC
Connector Color	GRAY

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	R	TO BODY HARNESS
2	B	TO BODY HARNESS
3	LG	TO BODY HARNESS
4	B	TO BODY HARNESS
5	R	TO BODY HARNESS
6	SHIELD	TO BODY HARNESS
7	BR/B	TO BODY HARNESS
8	R/G	TO BODY HARNESS

Connector No.	D505
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC
Connector Color	WHITE

H.S.

3	2	1
6	5	4

Terminal No.	Color of Wire	Signal Name
1	B	TO BACK DOOR RH HARNESS
2	LG	TO BACK DOOR RH HARNESS
3	W	TO BACK DOOR RH HARNESS
4	SHIELD	TO BACK DOOR RH HARNESS
5	BR/B	TO BACK DOOR RH HARNESS
6	R/G	TO BACK DOOR RH HARNESS

Connector No.	D507
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	LG	TO BACK DOOR RH HARNESS
2	V	TO BACK DOOR RH HARNESS
3	R	TO BACK DOOR RH HARNESS
4	L	TO BACK DOOR RH HARNESS
5	SB	TO BACK DOOR RH HARNESS
6	Y	TO BACK DOOR RH HARNESS
7	Y	TO BACK DOOR RH HARNESS
8	LG	TO BACK DOOR RH HARNESS
9	G	TO BACK DOOR RH HARNESS
10	–	TO BACK DOOR RH HARNESS
11	–	TO BACK DOOR RH HARNESS
12	–	TO BACK DOOR RH HARNESS
13	G	TO BACK DOOR RH HARNESS
14	BR	TO BACK DOOR RH HARNESS
15	BG	TO BACK DOOR RH HARNESS
16	P	TO BACK DOOR RH HARNESS
17	W	TO BACK DOOR RH HARNESS
18	G	TO BACK DOOR RH HARNESS
19	W	TO BACK DOOR RH HARNESS
20	W	TO BACK DOOR RH HARNESS
21	–	TO BACK DOOR RH HARNESS
22	–	TO BACK DOOR RH HARNESS
23	–	TO BACK DOOR RH HARNESS
24	–	TO BACK DOOR RH HARNESS

Connector No.	D550
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC
Connector Color	WHITE

H.S.

1	2	3
4	5	6

Terminal No.	Color of Wire	Signal Name
1	B	TO BACK DOOR LH HARNESS
2	LG	TO BACK DOOR LH HARNESS
3	W	TO BACK DOOR LH HARNESS
4	SHIELD	TO BACK DOOR LH HARNESS
5	W	TO BACK DOOR LH HARNESS
6	B	TO BACK DOOR LH HARNESS

ABKIA7482GB

AUTOMATIC BACK DOOR SYSTEM CONNECTORS

Connector No.	D552
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	LG	TO BACK DOOR LH HARNESS
2	V	TO BACK DOOR LH HARNESS
3	R	TO BACK DOOR LH HARNESS
4	L	TO BACK DOOR LH HARNESS
5	SB	TO BACK DOOR LH HARNESS
6	B	TO BACK DOOR LH HARNESS
7	BR	TO BACK DOOR LH HARNESS
8	LG	TO BACK DOOR LH HARNESS
9	G	TO BACK DOOR LH HARNESS
10	–	TO BACK DOOR LH HARNESS
11	–	TO BACK DOOR LH HARNESS
12	–	TO BACK DOOR LH HARNESS
13	G	TO BACK DOOR LH HARNESS
14	P	TO BACK DOOR LH HARNESS
15	R	TO BACK DOOR LH HARNESS
16	G	TO BACK DOOR LH HARNESS
17	W	TO BACK DOOR LH HARNESS
18	G	TO BACK DOOR LH HARNESS
19	W	TO BACK DOOR LH HARNESS
20	W	TO BACK DOOR LH HARNESS
21	–	TO BACK DOOR LH HARNESS
22	–	TO BACK DOOR LH HARNESS
23	–	TO BACK DOOR LH HARNESS
24	–	TO BACK DOOR LH HARNESS

Connector No.	D554
Connector Name	JOINT CONNECTOR-D01
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	B	GND
2	B	GND
3	SHIELD	GND
4	–	–

Connector No.	D555
Connector Name	TOUCH SENSOR RH
Connector Type	TK02MGY
Connector Color	GRAY

H.S.

1	2

Terminal No.	Color of Wire	Signal Name
1	V	TOUCH SENS RH
2	LG	GROUND

Connector No.	D556
Connector Name	TOUCH SENSOR LH
Connector Type	TK02MW
Connector Color	WHITE

H.S.

1	2

Terminal No.	Color of Wire	Signal Name
1	G	TOUCH SENS LH

2	LG	GROUND

Connector No.	D557
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

1	2	3
4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
1	B	LATCH MTR OPEN
2	W	LATCH MTR CLOSE
3	–	–
4	R	OPEN SW
5	L	CLOSE SW
6	SB	HALF LATCH SW
7	G	BACK DOOR SW
8	B	GROUND

Connector No.	D559
Connector Name	BACK DOOR OPENER SWITCH
Connector Type	TH04MW-NH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
1	G	BACK DOOR OPEN SW
2	B	GROUND
3	B	GROUND
4	W	BACK DOOR REQUEST SW

Connector No.	D560
Connector Name	AUTOMATIC BACK DOOR CLOSE SWITCH
Connector Type	TH08FB-NH
Connector Color	BLACK

H.S.

4	3
2	1

Terminal No.	Color of Wire	Signal Name
1	R	INSIDE CLOSE SW
2	B	GROUND
3	P	BATTERY SAVER OUT
4	BR	BACK DOOR SW

Connector No.	E55
Connector Name	JOINT CONNECTOR-E10
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

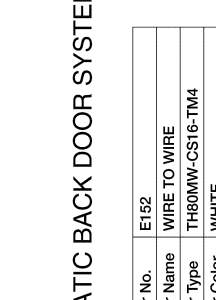
Terminal No.	Color of Wire	Signal Name
1	B	GND
2	SHIELD	GND
3	SHIELD	GND
4	SHIELD	GND

ABKIA7483GB

AUTOMATIC BACK DOOR SYSTEM CONNECTORS

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1G	G	TO MAIN HARNESS
2G	W	TO MAIN HARNESS
3G	P	TO MAIN HARNESS
4G	R	TO MAIN HARNESS
5G	P	TO MAIN HARNESS
6G	W	TO MAIN HARNESS
7G	SHIELD	TO MAIN HARNESS
8G	G	TO MAIN HARNESS
9G	LG	TO MAIN HARNESS
10G	P	TO MAIN HARNESS
11G	G	TO MAIN HARNESS
12G	P	TO MAIN HARNESS
13G	W	TO MAIN HARNESS
14G	BG	TO MAIN HARNESS
15G	W	TO MAIN HARNESS
16G	R	TO MAIN HARNESS
17G	B	TO MAIN HARNESS
18G	SHIELD	TO MAIN HARNESS
19G	W	TO MAIN HARNESS
20G	G	TO MAIN HARNESS
21G	P	TO MAIN HARNESS
22G	B	TO MAIN HARNESS
23G	SHIELD	TO MAIN HARNESS
24G	R	TO MAIN HARNESS
25G	W	TO MAIN HARNESS
26G	SHIELD	TO MAIN HARNESS
27G	W	TO MAIN HARNESS
28G	R	TO MAIN HARNESS
29G	B	TO MAIN HARNESS
30G	G	TO MAIN HARNESS
31G	L	TO MAIN HARNESS
32G	LG	TO MAIN HARNESS
33G	LG	TO MAIN HARNESS
34G	W	TO MAIN HARNESS
35G	P	TO MAIN HARNESS
36G	L	TO MAIN HARNESS
37G	BG	TO MAIN HARNESS
38G	W	TO MAIN HARNESS
39G	W	TO MAIN HARNESS
40G	Y	TO MAIN HARNESS
41G	BG	TO MAIN HARNESS
42G	P	TO MAIN HARNESS
43G	R	TO MAIN HARNESS
44G	W	TO MAIN HARNESS
45G	Y	TO MAIN HARNESS
46G	SB	TO MAIN HARNESS
47G	V	TO MAIN HARNESS
48G	BR	TO MAIN HARNESS
49G	W	TO MAIN HARNESS
50G	G	TO MAIN HARNESS
51G	B/W	TO MAIN HARNESS
52G	BR	TO MAIN HARNESS
53G	L	TO MAIN HARNESS
54G	P	TO MAIN HARNESS
55G	BR	TO MAIN HARNESS
56G	R	TO MAIN HARNESS
57G	P	TO MAIN HARNESS
58G	BG	TO MAIN HARNESS
59G	W	TO MAIN HARNESS
60G	B	TO MAIN HARNESS
61G	SHIELD	TO MAIN HARNESS
62G	P	TO MAIN HARNESS
63G	L	TO MAIN HARNESS
64G	R	TO MAIN HARNESS
65G	G/R	TO MAIN HARNESS
66G	R	TO MAIN HARNESS
67G	BG	TO MAIN HARNESS
68G	LG/R	TO MAIN HARNESS
69G	W	TO MAIN HARNESS
70G	G	TO MAIN HARNESS
71G	GR	TO MAIN HARNESS
72G	–	TO MAIN HARNESS
73G	–	TO MAIN HARNESS
74G	–	TO MAIN HARNESS
75G	G	TO MAIN HARNESS
76G	Y	TO MAIN HARNESS
77G	BR	TO MAIN HARNESS
78G	–	TO MAIN HARNESS
79G	P	TO MAIN HARNESS
80G	G	TO MAIN HARNESS
81G	R	TO MAIN HARNESS
82G	–	TO MAIN HARNESS
83G	–	TO MAIN HARNESS
84G	–	TO MAIN HARNESS
85G	–	TO MAIN HARNESS
86G	–	TO MAIN HARNESS
87G	–	TO MAIN HARNESS
88G	–	TO MAIN HARNESS
89G	R	TO MAIN HARNESS
90G	L	TO MAIN HARNESS
91G	L	TO MAIN HARNESS
92G	–	TO MAIN HARNESS
93G	–	TO MAIN HARNESS
94G	Y	TO MAIN HARNESS
95G	W	TO MAIN HARNESS
96G	–	TO MAIN HARNESS
97G	–	TO MAIN HARNESS
98G	–	TO MAIN HARNESS
99G	–	TO MAIN HARNESS
100G	SHIELD	TO MAIN HARNESS

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH
Connector Color	BLACK

H.S.

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

Terminal No.	Color of Wire	Signal Name
41	–	–
42	–	–
43	–	–
44	–	–
45	–	–
46	–	–
47	–	–
48	R	HIGH SIDE START SW LED
49	–	–
50	–	–
51	–	–
52	W	AUDIO DONGLE
53	–	–
54	W	PW LIN/COM
55	BR	R SENSOR K-LINE
56	–	–
57	–	–
58	–	–
59	P	CAN-L
60	L	CAN-H
61	BG	REAR DEFOGGER RELAY OUT
62	W	STARTER RELAY OUT
63	BG	I-KEY LINK SIGNAL
64	P	BUZZER OUT
65	P	DOOR HANDLE LAMP
66	W	BLOWER FAN RELAY OUT
67	G	IGN ELEC RELAY OUT 2
68	P	MR OUTPUT
69	G	AT DEVICE OUT
70	P	IGN USM OUT 1
71	R	DR REQUEST SW
72	G	AS REQUEST SW
73	–	–
74	–	–
75	B/G	COMBI SW OUT 5
76	P	COMBI SW OUT 4
77	P	COMBI SW OUT 3
78	W	COMBI SW OUT 2
79	W	COMBI SW OUT 1
80	R	BACK DOOR OPEN SW

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AUTOMATIC BACK DOOR SYSTEM CONNECTORS

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FGY-NH
Connector Color	GRAY

H.S.

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
81	L	BAT REAR WIPER FUSE
82	W	RL DOOR SW
83	BG	BACK DOOR REQUEST SW
84	BR	R WIPER AUTOSTOP SW
85	–	–
86	R	TRAILER FLASHER RL
87	P	TRAILER FLASHER RR
88	–	–
89	LG	REVERSE LAMP OUT
90	–	–
91	–	–
92	R	RR FLASHER
93	R	RR DOOR SW
94	G	AS DOOR SW
95	V	REAR WIPER OUT
96	BG	DR DOOR SW
97	W	BACK DOOR SW
98	–	–
99	P	ROOM ANT 3 B
100	W	ROOM ANT 3 A
101	R	REAR BUMPER ANT B
102	G	REAR BUMPER ANT A
103	BG	RL FLASHER
104	–	–

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
1G	P	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
2G	W	TO ENGINE ROOM HARNESS
3G	P	TO ENGINE ROOM HARNESS
4G	G	TO ENGINE ROOM HARNESS
5G	P	TO ENGINE ROOM HARNESS
6G	SB	TO ENGINE ROOM HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6G	R	TO ENGINE ROOM HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7G	SHIELD	TO ENGINE ROOM HARNESS
8G	G	TO ENGINE ROOM HARNESS
9G	BG	TO ENGINE ROOM HARNESS
10G	W	TO ENGINE ROOM HARNESS
11G	R	TO ENGINE ROOM HARNESS
12G	G	TO ENGINE ROOM HARNESS
13G	G	TO ENGINE ROOM HARNESS
14G	V	TO ENGINE ROOM HARNESS
15G	W	TO ENGINE ROOM HARNESS
16G	R	TO ENGINE ROOM HARNESS
17G	B	TO ENGINE ROOM HARNESS
18G	SHIELD	TO ENGINE ROOM HARNESS
19G	SB	TO ENGINE ROOM HARNESS
20G	LG	TO ENGINE ROOM HARNESS
21G	R	TO ENGINE ROOM HARNESS
22G	B	TO ENGINE ROOM HARNESS
23G	SHIELD	TO ENGINE ROOM HARNESS
24G	W	TO ENGINE ROOM HARNESS
25G	R	TO ENGINE ROOM HARNESS
26G	SHIELD	TO ENGINE ROOM HARNESS
27G	B	TO ENGINE ROOM HARNESS
28G	W	TO ENGINE ROOM HARNESS
29G	G	TO ENGINE ROOM HARNESS
30G	R	TO ENGINE ROOM HARNESS
31G	L	TO ENGINE ROOM HARNESS
32G	G	TO ENGINE ROOM HARNESS
33G	G	TO ENGINE ROOM HARNESS
34G	G	TO ENGINE ROOM HARNESS
35G	P	TO ENGINE ROOM HARNESS
36G	L	TO ENGINE ROOM HARNESS
37G	L	TO ENGINE ROOM HARNESS
38G	W	TO ENGINE ROOM HARNESS
39G	R	TO ENGINE ROOM HARNESS
40G	Y	TO ENGINE ROOM HARNESS
41G	L	TO ENGINE ROOM HARNESS
42G	P	TO ENGINE ROOM HARNESS
43G	W	TO ENGINE ROOM HARNESS
44G	G	TO ENGINE ROOM HARNESS
45G	R	TO ENGINE ROOM HARNESS
46G	Y	TO ENGINE ROOM HARNESS
47G	Y	TO ENGINE ROOM HARNESS
48G	LG	TO ENGINE ROOM HARNESS
49G	P	TO ENGINE ROOM HARNESS
50G	L	TO ENGINE ROOM HARNESS
51G	B/W	TO ENGINE ROOM HARNESS
52G	BR	TO ENGINE ROOM HARNESS
53G	L	TO ENGINE ROOM HARNESS
54G	BG	TO ENGINE ROOM HARNESS
55G	G	TO ENGINE ROOM HARNESS
56G	P	TO ENGINE ROOM HARNESS
57G	P	TO ENGINE ROOM HARNESS
58G	L	TO ENGINE ROOM HARNESS
59G	B	TO ENGINE ROOM HARNESS
60G	W	TO ENGINE ROOM HARNESS
61G	SHIELD	TO ENGINE ROOM HARNESS
62G	G	TO ENGINE ROOM HARNESS
63G	P	TO ENGINE ROOM HARNESS
64G	W	TO ENGINE ROOM HARNESS
65G	G/R	TO ENGINE ROOM HARNESS
66G	R	TO ENGINE ROOM HARNESS
67G	W	TO ENGINE ROOM HARNESS
68G	LG/R	TO ENGINE ROOM HARNESS
69G	P	TO ENGINE ROOM HARNESS
70G	BG	TO ENGINE ROOM HARNESS
71G	GR	TO ENGINE ROOM HARNESS
72G	–	TO ENGINE ROOM HARNESS
73G	–	TO ENGINE ROOM HARNESS
74G	–	TO ENGINE ROOM HARNESS
75G	G	TO ENGINE ROOM HARNESS
76G	Y	TO ENGINE ROOM HARNESS
77G	BR	TO ENGINE ROOM HARNESS
78G	–	TO ENGINE ROOM HARNESS
79G	R	TO ENGINE ROOM HARNESS
80G	W	TO ENGINE ROOM HARNESS
81G	G	TO ENGINE ROOM HARNESS
82G	P	TO ENGINE ROOM HARNESS
83G	P	TO ENGINE ROOM HARNESS
84G	P	TO ENGINE ROOM HARNESS
85G	P	TO ENGINE ROOM HARNESS
86G	P	TO ENGINE ROOM HARNESS
87G	P	TO ENGINE ROOM HARNESS
88G	P	TO ENGINE ROOM HARNESS
89G	R	TO ENGINE ROOM HARNESS
90G	P	TO ENGINE ROOM HARNESS
91G	L	TO ENGINE ROOM HARNESS
92G	P	TO ENGINE ROOM HARNESS
93G	P	TO ENGINE ROOM HARNESS
94G	O	TO ENGINE ROOM HARNESS
95G	B	TO ENGINE ROOM HARNESS
96G	P	TO ENGINE ROOM HARNESS
97G	P	TO ENGINE ROOM HARNESS
98G	P	TO ENGINE ROOM HARNESS
99G	P	TO ENGINE ROOM HARNESS
100G	SHIELD	TO ENGINE ROOM HARNESS

ABKIA7535GB

AUTOMATIC BACK DOOR SYSTEM CONNECTORS

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1A	GR	TO BODY HARNESS
2A	BR	TO BODY HARNESS
3A	Y	TO BODY HARNESS
4A	V	TO BODY HARNESS
5A	L/B	TO BODY HARNESS
6A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
6A	G	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
7A	Y	TO BODY HARNESS
8A	W	TO BODY HARNESS
9A	L	TO BODY HARNESS
10A	R	TO BODY HARNESS
11A	R	TO BODY HARNESS
12A	BG	TO BODY HARNESS
13A	O	TO BODY HARNESS
14A	LG	TO BODY HARNESS
15A	R	TO BODY HARNESS
16A	G	TO BODY HARNESS
17A	B	TO BODY HARNESS
18A	B	TO BODY HARNESS
19A	SHIELD	TO BODY HARNESS
20A	B	TO BODY HARNESS
21A	SHIELD	TO BODY HARNESS
22A	–	TO BODY HARNESS
23A	W	TO BODY HARNESS
24A	B	TO BODY HARNESS
25A	SHIELD	TO BODY HARNESS
26A	B	TO BODY HARNESS
27A	B	TO BODY HARNESS
28A	SHIELD	TO BODY HARNESS
29A	R	TO BODY HARNESS
30A	B	TO BODY HARNESS
31A	R	TO BODY HARNESS
32A	Y/R	TO BODY HARNESS
33A	W	TO BODY HARNESS
34A	B	TO BODY HARNESS
35A	SHIELD	TO BODY HARNESS
36A	L/Y	TO BODY HARNESS
37A	LG	TO BODY HARNESS
38A	V	TO BODY HARNESS
39A	SB	TO BODY HARNESS
40A	BR	TO BODY HARNESS
41A	Y	TO BODY HARNESS
42A	G	TO BODY HARNESS
43A	–	TO BODY HARNESS
44A	W	TO BODY HARNESS
45A	R	TO BODY HARNESS
46A	BG	TO BODY HARNESS
47A	LG	TO BODY HARNESS
48A	R	TO BODY HARNESS
49A	P	TO BODY HARNESS
50A	W	TO BODY HARNESS
51A	L	TO BODY HARNESS
52A	P	TO BODY HARNESS
53A	G	TO BODY HARNESS
54A	W	TO BODY HARNESS
55A	BG	TO BODY HARNESS
56A	BR	TO BODY HARNESS
57A	P	TO BODY HARNESS - (WITH CLIMATE CONTROLLED SEAT)
57A	L	TO BODY HARNESS - (WITHOUT CLIMATE CONTROLLED SEAT)
58A	G	TO BODY HARNESS
59A	SB	TO BODY HARNESS
60A	L	TO BODY HARNESS
61A	G	TO BODY HARNESS
62A	BR	TO BODY HARNESS
63A	BR	TO BODY HARNESS
64A	Y	TO BODY HARNESS
65A	W	TO BODY HARNESS
66A	BG	TO BODY HARNESS
67A	Y	TO BODY HARNESS
68A	LG	TO BODY HARNESS
69A	R	TO BODY HARNESS
70A	P	TO BODY HARNESS
71A	BR	TO BODY HARNESS
72A	SB	TO BODY HARNESS
73A	BG	TO BODY HARNESS
74A	BR	TO BODY HARNESS
75A	LG	TO BODY HARNESS
76A	W	TO BODY HARNESS
77A	L	TO BODY HARNESS
78A	V	TO BODY HARNESS
79A	LG	TO BODY HARNESS
80A	Y	TO BODY HARNESS
81A	L	TO BODY HARNESS
82A	BG	TO BODY HARNESS
83A	Y	TO BODY HARNESS
84A	LG	TO BODY HARNESS
85A	SHIELD	TO BODY HARNESS
86A	Y	TO BODY HARNESS
87A	LG	TO BODY HARNESS
88A	BR	TO BODY HARNESS
89A	L	TO BODY HARNESS
90A	P	TO BODY HARNESS
91A	L	TO BODY HARNESS
92A	L	TO BODY HARNESS
93A	B	TO BODY HARNESS
94A	W	TO BODY HARNESS
95A	W	TO BODY HARNESS
96A	–	TO BODY HARNESS
97A	SB	TO BODY HARNESS
98A	Y	TO BODY HARNESS - (WITHOUT AUTOMATIC DRIVE POSITIONER)
98A	L	TO BODY HARNESS - (WITH AUTOMATIC DRIVE POSITIONER)
99A	–	TO BODY HARNESS
100A	–	TO BODY HARNESS
5	B	TO BODY HARNESS
6	W	TO BODY HARNESS
7	SHIELD	TO BODY HARNESS
8	B	TO BODY HARNESS
9	SB	TO BODY HARNESS
10	BG	TO BODY HARNESS
11	R	TO BODY HARNESS
12	W	TO BODY HARNESS
13	–	TO BODY HARNESS
14	–	TO BODY HARNESS
15	G	TO BODY HARNESS
16	L	TO BODY HARNESS
17	P	TO BODY HARNESS - (WITHOUT NAVI)
17	Y	TO BODY HARNESS - (WITH NAVI)
18	Y	TO BODY HARNESS - (WITHOUT NAVI)
18	P	TO BODY HARNESS - (WITH NAVI)
19	W	TO BODY HARNESS - (WITHOUT NAVI)
19	B	TO BODY HARNESS - (WITH NAVI)
20	B	TO BODY HARNESS - (WITHOUT NAVI)
20	W	TO BODY HARNESS - (WITH NAVI)
21	R	TO BODY HARNESS - (WITHOUT NAVI)
21	SHIELD	TO BODY HARNESS - (WITH NAVI)
22	G	TO BODY HARNESS - (WITHOUT NAVI)
22	W	TO BODY HARNESS - (WITH NAVI)
23	SHIELD	TO BODY HARNESS - (WITHOUT NAVI)
23	R	TO BODY HARNESS - (WITH NAVI)
24	SHIELD	TO BODY HARNESS
25	B	TO BODY HARNESS
26	G	TO BODY HARNESS
27	R	TO BODY HARNESS - (WITHOUT NAVI)
27	B	TO BODY HARNESS - (WITH NAVI)
28	B	TO BODY HARNESS - (WITHOUT NAVI)
28	R	TO BODY HARNESS - (WITH NAVI)
29	G	TO BODY HARNESS - (WITH NAVI)
29	W	TO BODY HARNESS - (WITHOUT NAVI)
30	SHIELD	TO BODY HARNESS
31	W	TO BODY HARNESS
32	–	TO BODY HARNESS

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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
1	W	TO BODY HARNESS - (WITHOUT NAVI)
1	R	TO BODY HARNESS - (WITH NAVI)
2	B	TO BODY HARNESS - (WITHOUT NAVI)
2	W	TO BODY HARNESS - (WITH NAVI)
3	R	TO BODY HARNESS - (WITHOUT NAVI)
3	B	TO BODY HARNESS - (WITH NAVI)
4	SHIELD	TO BODY HARNESS

ABKIA7536GB

AUTOMATIC BACK DOOR SYSTEM CONNECTORS

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
129	SB	BATTERY SAVER OUT
130	LG	DOOR UNLOCK AS
131	W	BAT BCM FUSE
132	BR	DOOR LOCK RR/RL
133	Y	DOOR UNLOCK RR/RL
134	B	GND 2
135	L	DOOR LOCK DR/AS/FL
136	LG	ROOM LAMP CONT
137	V	DOOR UNLOCK DR/FL
138	V	BAT REAR DOOR
139	W	BAT POWER F/L
140	BR	P/W POWER SUPPLY IGN
141	Y	P/W POWER SUPPLY BAT
142	Y	BAT FRONT DOOR
143	B	GND 1

Connector No.	M185
Connector Name	AUTOMATIC BACK DOOR MAIN SWITCH
Connector Type	TH10FW-NH
Connector Color	WHITE

H.S.

2	4	3
1		

Terminal No.	Color of Wire	Signal Name
1	Y	MAIN SW
2	B	ILL GND
3	GR	GROUND
4	R	ILL PWR SUPPLY

Connector No.	M186
Connector Name	AUTOMATIC BACK DOOR SWITCH
Connector Type	TH08FB-NH
Connector Color	BLACK

H.S.

4	3
2	1

Terminal No.	Color of Wire	Signal Name
1	LG	DRIVER SW
2	B	GROUND
3	R	ILL PWR SUPPLY
4	B	ILL GND

Connector No.	M187
Connector Name	CIRCUIT BREAKER-1
Connector Type	M02FW-P-LC
Connector Color	WHITE

H.S.

1
2

Terminal No.	Color of Wire	Signal Name
1	B	BATTERY
2	B	BAT (PTC)

Connector No.	M183
Connector Name	JOINT CONNECTOR-M44
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	SHIELD	GND
2	B	GND
3	SHIELD	GND
4	–	–

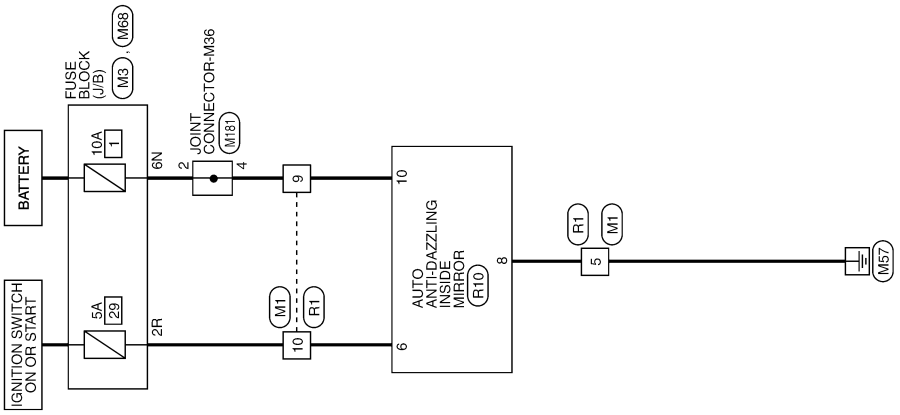
ABKIA7537GB

HOMELINK UNIVERSAL TRANSCEIVER

Wiring Diagram

INFOID:0000000012851911

HOMELINK UNIVERSAL TRANSCEIVER



ABKWA3245GB

HOMELINK UNIVERSAL TRANSCEIVER CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE

H.S.

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
1	SB	TO ROOM LAMP HARNESS
2	LG	TO ROOM LAMP HARNESS
3	R	TO ROOM LAMP HARNESS
4	–	TO ROOM LAMP HARNESS
5	GR	TO ROOM LAMP HARNESS
6	LG	TO ROOM LAMP HARNESS
7	L	TO ROOM LAMP HARNESS
8	Y	TO ROOM LAMP HARNESS
9	W	TO ROOM LAMP HARNESS
10	LG	TO ROOM LAMP HARNESS
11	BR	TO ROOM LAMP HARNESS
12	R/G	TO ROOM LAMP HARNESS
13	W	TO ROOM LAMP HARNESS
14	B	TO ROOM LAMP HARNESS
15	SHIELD	TO ROOM LAMP HARNESS
16	R	TO ROOM LAMP HARNESS
17	W	TO ROOM LAMP HARNESS
18	–	TO ROOM LAMP HARNESS
19	G	TO ROOM LAMP HARNESS
20	BR	TO ROOM LAMP HARNESS
21	LG	TO ROOM LAMP HARNESS
22	Y	TO ROOM LAMP HARNESS
23	P	TO ROOM LAMP HARNESS
24	B	TO ROOM LAMP HARNESS

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1N	LG	IGNITION
2N	BG	BATTERY
3N	L	IGNITION
4N	V	BATTERY
5N	Y	BATTERY
6N	W	BATTERY
7N	L	BATTERY
8N	L	IGNITION

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1R	R	TAIL LH
2R	LG	IGNITION
3R	G	BATTERY
4R	–	–
5R	Y	BATTERY
6R	Y	IGNITION
7R	–	–
8R	–	–
9R	G	BRAKE
10R	W	BATTERY
11R	–	–
12R	–	–
13R	GR	GROUND
14R	–	–
15R	–	–

16R	BG	IGNITION

Connector No.	M181
Connector Name	JOINT CONNECTOR-M36
Connector Type	TK04FW-J
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	W	BATTERY
2	W	BATTERY
3	W	BATTERY
4	W	BATTERY

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	G	TO MAIN HARNESS
2	R	TO MAIN HARNESS
3	W	TO MAIN HARNESS
4	Y/R	TO MAIN HARNESS
5	B	TO MAIN HARNESS
6	LG	TO MAIN HARNESS
7	BR	TO MAIN HARNESS
8	Y	TO MAIN HARNESS
9	G	TO MAIN HARNESS
10	W	TO MAIN HARNESS
11	SB	TO MAIN HARNESS
12	R/G	TO MAIN HARNESS
13	W	TO MAIN HARNESS
14	B	TO MAIN HARNESS
15	SHIELD	TO MAIN HARNESS
16	P	TO MAIN HARNESS
17	BG	TO MAIN HARNESS

18	–	TO MAIN HARNESS
19	V	TO MAIN HARNESS
20	W	TO MAIN HARNESS
21	SB	TO MAIN HARNESS
22	L	TO MAIN HARNESS
23	W	TO MAIN HARNESS
24	B	TO MAIN HARNESS

Connector No.	R10
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH10FB-NH
Connector Color	BLACK

H.S.

5	4	3	2	1
10	9	8	7	6

Terminal No.	Color of Wire	Signal Name
1	–	–
2	–	–
3	–	–
4	–	–
5	–	–
6	W	IGNITION
7	–	–
8	B	GND
9	–	–
10	G	BATTERY

ABKIA7485GB

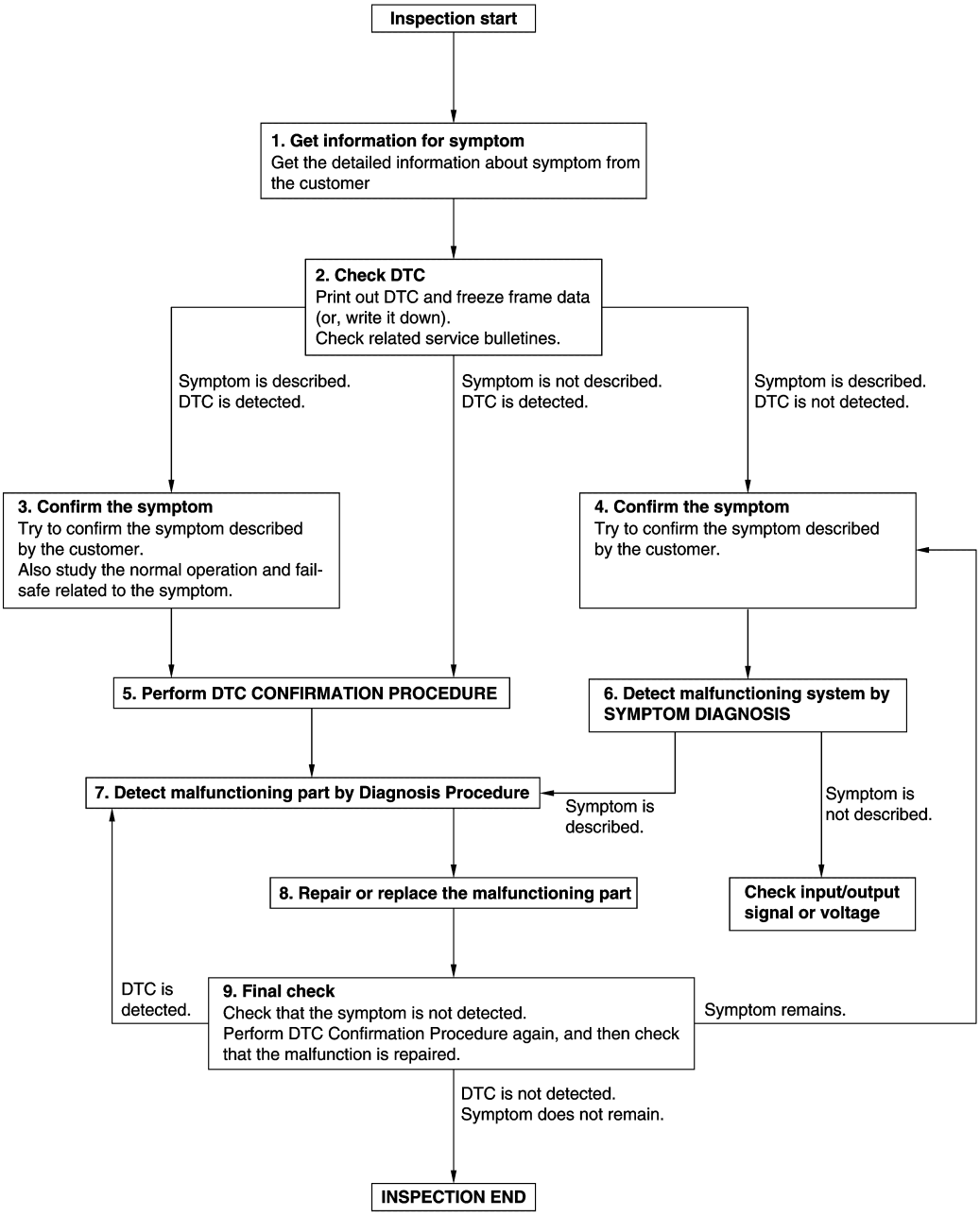
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000012851912

OVERALL SEQUENCE



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DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.

- Record DTC and freeze frame data. (Print them out using CONSULT.)
- Erase DTC.
- Study the relationship between the cause detected by DTC and the symptom described by the customer.

3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected.>>GO TO 3.
Symptom is described, DTC is not detected.>>GO TO 4.
Symptom is not described, DTC is detected.>>GO TO 5.

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.
Also study the normal operation and fail-safe related to the symptom.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle and check self diagnostic results in real time.
If two or more DTCs are detected, refer to BCS-50, "DTC Inspection Priority Chart" (BCM) and determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

YES >> GO TO 7.
NO >> Check according to GI-50, "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

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.
NO >> Check according to GI-50, "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.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

Description

INFOID:0000000012851913

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:0000000012851914

1.INITIALIZATION

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

NOTE:

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

>> Inspection End.

ADDITIONAL SERVICE WHEN REPLACING BCM

Description

INFOID:0000000012851915

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

Work Procedure

INFOID:0000000012851916

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

ADDITIONAL SERVICE WHEN REPLACING AUTOMATIC BACK DOOR CONTROL UNIT

Description

INFOID:0000000012851917

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

NOTE:

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

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

Work Procedure

INFOID:0000000012851918

1.INITIALIZATION

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

NOTE:

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

>> Inspection End.

CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

Description

INFOID:0000000012851919

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

NOTE:
If the back door reverses and closes while opening with an automatic/power open operation, it is an indication that re-calibration is needed.

Work Procedure

INFOID:0000000012851920

1.STEP 1

Fully close the back door manually.

>> GO TO 2.

2.STEP 2

1. Select “AUTO BACK DOOR ” using CONSULT.
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 lamp blinks and automatic back door warning buzzer sounds normally.

Does hazard warning lamp 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.

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000012851921

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-49, "CAN COMMUNICATION SYSTEM : CAN Communication Signal Chart".

DTC Logic

INFOID:0000000012851922

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000012851923

1.PERFORM SELF DIAGNOSTIC

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check “Self Diagnostic Result”.

Is “CAN COMM CIRCUIT” displayed?

YES >> Refer to LAN-28, "Trouble Diagnosis Flow Chart".
NO >> Refer to GI-50, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:0000000012851924

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000012851925

1.REPLACE AUTOMATIC BACK DOOR CONTROL MODULE

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

>> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".

B2401 IGNITION POWER SUPPLY CIRCUIT

DTC Logic

INFOID:0000000012851926

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check Self Diagnostic Result mode of AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.

Is DTC detected?

YES >> Refer to DLK-121, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012851927

1.CHECK BCM OUTPUT SIGNAL

1. Select IPDM E/R using CONSULT.
2. Select IGN RLY1-REQ in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
IGN RLY1-REQ	Ignition switch	ON	On
		OFF	Off

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

B2409 HALF LATCH SWITCH

DTC Logic

INFOID:0000000012851928

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check Self Diagnostic Result mode of AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.

Is DTC detected?

YES >> Refer to DLK-122, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012851929

Regarding Wiring Diagram information, refer to DLK-98, "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 malfunction parts.

3.CHECK HALF LATCH SWITCH MONITOR ITEM

1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
2. Select HALF LATCH SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	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	3	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	3		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "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 back door lock assembly ground circuit.

7.CHECK HALF LATCH SWITCH

Refer to DLK-124, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.
NO >> Replace back door lock assembly. Refer to DLK-276, "DOOR LOCK : Removal and Installation".

8.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012851930

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			Half latch	Yes
			Fully closed/Open	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-276, "DOOR LOCK : Removal and Installation".

B2416 TOUCH SENSOR RH

DTC Logic

INFOID:0000000012851931

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check Self-Diagnostic Result mode of AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.

Is DTC detected?

YES >> Refer to DLK-125, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012851932

Regarding Wiring Diagram information, refer to DLK-98, "Wiring Diagram".

1.CHECK INSTALLATION OF TOUCH SENSOR RH

Check that touch sensor RH is installed normally.
Refer to DLK-277, "TOUCH SENSOR : Removal and Installation".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to DLK-277, "TOUCH SENSOR : Removal and Installation".

2.CHECK TOUCH SENSOR MONITOR ITEM

1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
2. Select TOUCH SEN RH in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

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

3.CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
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	13	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	1	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	1		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

5. CHECK TOUCH SENSOR RH GROND CIRCUIT 1

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	13	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	13		No

Is the inspection result normal?

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

6. CHECK TOUCH SENSOR RH GROND CIRCUIT 2

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

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

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace automatic back door control module. Refer to DLK-289, "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-277, "TOUCH SENSOR : Removal and Installation".

8.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012851933

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-277, "TOUCH SENSOR : Removal and Installation".

B2417 TOUCH SENSOR LH

DTC Logic

INFOID:0000000012851934

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2417	TOUCH SEN L OPEN	Automatic back door control module detects a malfunction of touch sensor LH during automatic operation of back door.	• Improper installation of touch sensor • Touch sensor LH • Harness or connectors • Automatic back door control module

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check Self-Diagnostic Result mode of AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.

Is DTC detected?

YES >> Refer to DLK-128, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012851935

Regarding Wiring Diagram information, refer to DLK-98, "Wiring Diagram".

1.CHECK INSTALLATION OF TOUCH SENSOR LH

Check that touch sensor LH is installed normally.
Refer to DLK-277, "TOUCH SENSOR : Removal and Installation".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to DLK-277, "TOUCH SENSOR : Removal and Installation".

2.CHECK TOUCH SENSOR MONITOR ITEM

1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
2. Select TOUCH SEN LH in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

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

3.CHECK TOUCH SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
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	1	B55	13	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	2	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	2		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

5. CHECK TOUCH SENSOR LH GROND CIRCUIT 1

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	13	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	13		No

Is the inspection result normal?

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

6. CHECK TOUCH SENSOR LH GROND CIRCUIT 2

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

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

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".

7.CHECK TOUCH SENSOR LH

Refer to DLK-130, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.
NO >> Replace touch sensor LH. Refer to DLK-277, "TOUCH SENSOR : Removal and Installation"

8.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012851936

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-277, "TOUCH SENSOR : Removal and Installation".

B2419 OPEN SWITCH

DTC Logic

INFOID:0000000012851937

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check Self-Diagnostic Result mode of AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.

Is DTC detected?

YES >> Refer to DLK-131, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012851938

Regarding Wiring Diagram information, refer to DLK-98, "Wiring Diagram".

1.CHECK FOR FOREIGN MATERIALS IN BACK DOOR LOCK ASSEMBLY

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

Is the inspection result normal?

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

2.CHECK BACK DOOR OPEN/CLOSE OPERATION

Manually check open and close operation of back door.

Is the inspection result normal?

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

3.CHECK OPEN SWITCH SIGNAL

1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
2. Select OPEN SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
OPEN SW	Back door	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	11	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	11		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "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-133, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.
NO >> Replace back door lock assembly. Refer to DLK-276, "DOOR LOCK : Removal and Installation".

8.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012851939

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			Half latch	Yes
			Fully closed/Open	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-276, "DOOR LOCK : Removal and Installation".

B2420 CLOSE SWITCH

DTC Logic

INFOID:0000000012851940

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check Self-Diagnostic Result mode of AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.

Is DTC detected?

YES >> Refer to DLK-134, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012851941

Regarding Wiring Diagram information, refer to DLK-98, "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 AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
2. Select CLOSE SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

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	5	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	5		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "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-135, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 8.
NO >> Replace back door lock assembly. Refer to DLK-276, "DOOR LOCK : Removal and Installation".

8. CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012851942

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			Half latch	Yes
			Fully closed/Open	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-276, "DOOR LOCK : Removal and Installation".

B2422 BACK DOOR STATE

DTC Logic

INFOID:0000000012851943

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check “Self Diagnostic Result” mode of “AUTOMATIC BACK DOOR CONTROL MODULE” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-137, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012851944

Regarding Wiring Diagram information, refer to DLK-98, "Wiring Diagram".

1.CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

1. Perform initialization setting of automatic back door position information.
   Refer to DLK-117, "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-262, "BACK DOOR ASSEMBLY : Adjustment".
2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts and pinched foreign materials.

Is the inspection result normal?

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

3.CHECK ENCODER SIGNAL

1. Select “AUTOMATIC BACK DOOR CONTROL MODULE” using CONSULT.
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-289, "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	8	Ground	Battery voltage
RH	B162			

Is the inspection result normal?

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

5.CHECK ENCODER CIRCUIT 1

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	19	LH	B70	8	Yes
	20	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	19		No
	20		

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "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.

Automatic back door control module		Spindle unit			Continuity
Connector	Terminal	Connector		Terminal	
B55	6	LH	B70	3	Yes
	7			10	
	8	RH	B162	3	
	9			10	

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B55	6	Ground	No
	7		
	8		
	9		

Is the inspection result normal?

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

7.CHECK ENCODER CIRCUIT 3

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

Automatic back 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-289, "Removal and Installation".

8.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace the malfunctioning parts.

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

DTC Logic

INFOID:0000000012851945

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check “Self-Diagnostic Result” mode of “AUTOMATIC BACK DOOR CONTROL MODULE” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-140, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012851946

Regarding Wiring Diagram information, refer to DLK-98, "Wiring Diagram".

1.ERASE DTC

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

Is DTC detected?

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

2.CHECK SPINDLE MOTOR CIRCUIT

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.

Automatic back door control module		Spindle unit			Continuity
Connector	Terminal	Connector		Terminal	
B56	27	LH	B70	9	Yes
	34			2	
	29	RH	B162	9	
	36			2	

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

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

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

B2426 ENCODER

DTC Logic

INFOID:0000000012851947

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check “Self-Diagnostic Result” mode of “AUTOMATIC BACK DOOR CONTROL MODULE” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-142, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012851948

Regarding Wiring Diagram information, refer to DLK-98, "Wiring Diagram".

1.CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

1. Perform initialization setting of automatic back door position information.
   Refer to DLK-117, "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-262, "BACK DOOR ASSEMBLY : Adjustment".
2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

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

3.CHECK ENCODER SIGNAL

1. Select “AUTOMATIC BACK DOOR CONTROL MODULE” using CONSULT.
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 (auto or manual)	HI ⇔ LO
		When stopped	HI or LO
SPINDLE LH ENCODER B		Moving (auto or manual)	HI ⇔ LO
		When stopped	HI or LO

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> GO TO 4.

4. CHECK ENCODER POWER SUPPLY

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

(+)		(–)	Voltage (Approx.)
Spindle unit LH			
Connector	Terminal		
B70	8	Ground	Battery voltage

Is the inspection result normal?

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

5. CHECK ENCODER POWER SUPPLY CIRCUIT

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

Automatic back door control module		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B55	19	B70	8	Yes

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

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

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

6. CHECK ENCODER SIGNAL CIRCUITS

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

Automatic back door control module		Spindle unit LH		Continuity
Connector	Terminal	Connector	Terminal	
B55	6	B70	3	Yes
	7		10	

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

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

Is the inspection result normal?

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

7.CHECK ENCODER GROUND CIRCUIT

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 >> Replace spindle unit LH. Refer to DLK-264, "SPINDLE UNIT : Removal and Installation".
NO >> Repair or replace harness.

B2427 ENCODER

DTC Logic

INFOID:0000000012851949

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check “Self-Diagnostic Result” mode of “AUTOMATIC BACK DOOR CONTROL MODULE” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-145, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012851950

Regarding Wiring Diagram information, refer to DLK-98, "Wiring Diagram".

1.CALIBRATION OF AUTOMATIC BACK DOOR POSITION INFORMATION

1. Perform initialization setting of automatic back door position information.
   Refer to DLK-117, "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-262, "BACK DOOR ASSEMBLY : Adjustment".
2. Check back door assembly mechanism deformation, looseness, rattle, interference with other parts, and pinched foreign materials.

Is the inspection result normal?

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

3.CHECK ENCODER SIGNAL

1. Select “AUTOMATIC BACK DOOR CONTROL MODULE” using CONSULT.
2. Select “SPINDLE RH ENCODER A” and “SPINDLE RH ENCODER B” in “DATA MONITOR” mode.
3. Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> GO TO 4.

4. CHECK ENCODER POWER SUPPLY

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

(+)		(–)	Voltage (Approx.)
Spindle unit RH			
Connector	Terminal		
B162	8	Ground	Battery voltage

Is the inspection result normal?

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

5. CHECK ENCODER POWER SUPPLY CIRCUIT

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

Automatic back door control module		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B55	20	B162	8	Yes

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

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

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

6. CHECK ENCODER SIGNAL CIRCUITS

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

Automatic back door control module		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B55	8	B162	3	Yes
	9		10	

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

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

Is the inspection result normal?

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

7. CHECK ENCODER GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> Replace spindle unit RH. Refer to DLK-264, "SPINDLE UNIT : Removal and Installation".
NO >> Repair or replace harness.

B2428 AUTOMATIC BACK DOOR CONTROL UNIT

DTC Logic

INFOID:0000000012851951

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000012851952

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-289, "Removal and Installation".

B242A CLOSURE CONDITION

DTC Logic

INFOID:0000000012851953

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Refer to DLK-149, "Diagnosis Procedure".
NO >> Inspection End.

Diagnosis Procedure

INFOID:0000000012851954

Regarding Wiring Diagram information, refer to DLK-98, "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

1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
2. Select HALF LATCH SW, OPEN SW and CLOSE SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

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.

(+)		(–)	Voltage (Approx.)
Back door lock assembly			
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	3	D557	6	Yes
	5		5	
	11		4	

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

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

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
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 back door lock assembly ground circuit.

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-276, "DOOR LOCK : Removal and Installation".

8.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012851955

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			Half latch	Yes
			Fully closed/Open	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-276, "DOOR LOCK : Removal and Installation".

B261B REMOTE ENGINE START

DTC Logic

INFOID:0000000012851956

DTC DETECTION LOGIC

NOTE:

- If DTC B261B is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to DLK-119, "DTC Logic".
- If DTC B261B is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to DLK-120, "DTC Logic".

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B261B	BCM	The BCM has requested ignition OFF but ECM keeps the engine running for more than 10 seconds after the OFF request was made.	• ECM

Diagnosis Procedure

INFOID:0000000012851957

1. CHECK ECM IGNITION, POWER AND GROUND CIRCUITS

Check ECM ignition power and ground circuits. Refer to EC-722, "Diagnosis Procedure" (except for Mexico) or EC-190, "Diagnosis Procedure" for Mexico.

Is the inspection result normal?

YES >> Replace ECM. Refer to EC-565, "Removal and Installation" (except for Mexico) or EC-956, "Removal and Installation" (for Mexico). GO TO 2.

NO >> Repair or replace harness or connectors.

2. INSPECTION

1. Turn ignition switch ON.
2. Select "Self-diagnostic result" mode with CONSULT.
3. Touch "ERASE".
4. Perform vehicle remote start operation.

Does DTC B261B return?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".

NO >> Inspection End..

B2622 INSIDE ANTENNA

DTC Logic

INFOID:0000000012851960

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA	An excessive high or low voltage from inside antenna (console) is sent to BCM.	• Inside key antenna (console) • Harness or connector [Inside key antenna (console) circuit is open or shorted]

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

YES >> Refer to DLK-153, "Diagnosis Procedure".
NO >> Inside key antenna (console) is OK.

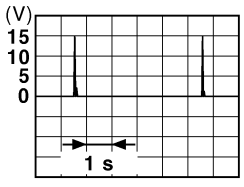
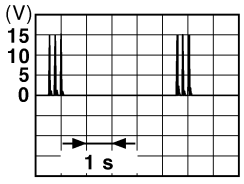
Diagnosis Procedure

INFOID:0000000012851961

Regarding Wiring Diagram information, refer to DLK-77, "Wiring Diagram".

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM Connector	(+) BCM Terminal	(–)	Condition	Signal (Reference value)
M80	116, 128	Ground	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
			When Intelligent Key is not in the antenna detection area	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> GO TO 2.

2.CHECK INSIDE KEY ANTENNA CIRCUIT

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

BCM		Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	
M80	116	M255	1	Yes
	128		2	

3. Check continuity between BCM harness connector and ground.

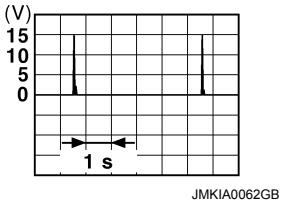
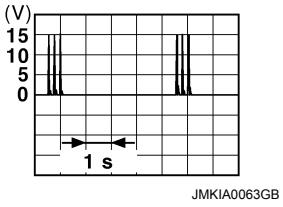
BCM		Ground	Continuity
Connector	Terminal		
M80	116		No
	128		

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.

(+) BCM Connector	(+) BCM Terminal	(–)	Condition	Signal (Reference value)
M80	116, 128	Ground	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
			When Intelligent Key is not in the antenna detection area	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to DLK-283, "CONSOLE : Removal and Installation".
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

B2623 INSIDE ANTENNA

DTC Logic

INFOID:0000000012851962

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2623	INSIDE ANTENNA	An excessive high or low voltage from inside antenna (luggage room) is sent to BCM.	• Inside key antenna (luggage room) • Harness or connector [Inside key antenna (luggage room) circuit is open or shorted]

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

YES >> Refer to DLK-155, "Diagnosis Procedure".
NO >> Inside key antenna (luggage room) is OK.

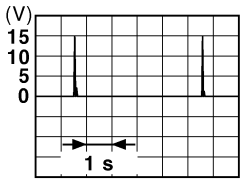
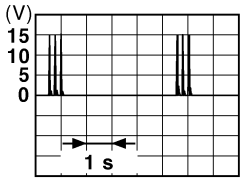
Diagnosis Procedure

INFOID:0000000012851963

Regarding Wiring Diagram information, refer to DLK-77, "Wiring Diagram".

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM Connector	(+) BCM Terminal	(–)	Condition	Signal (Reference value)
M20	100, 99	Ground	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
			When Intelligent Key is not in the antenna detection area	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> GO TO 2.

2.CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and inside key antenna (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.

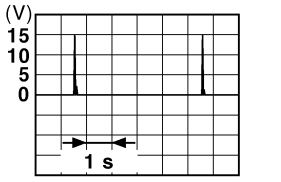
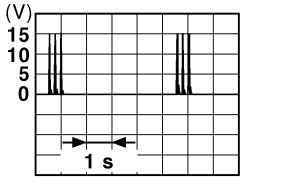
BCM		Ground	Continuity
Connector	Terminal		
M20	100		No
	99		

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.

(+) BCM		(–)	Condition	Signal (Reference value)
Connector	Terminal			
M20	100, 99	Ground	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
			When Intelligent Key is not in the antenna detection area	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (luggage room). Refer to DLK-283, "LUGGAGE ROOM : Removal and Installation".
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

B26FD SHIFT LOCK SOLENOID

DTC Logic

INFOID:0000000012851964

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B26FD	SHIFT LOCK SOLENOID	BCM shift lock solenoid output control is OFF but shift lock solenoid output feedback is ON and these conditions are continuous for 1 second.	• Shift lock solenoid • Harness or connector • Shift lock solenoid circuit is open or shorted

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Refer to DLK-157, "Diagnosis Procedure".
NO >> Shift lock solenoid is OK.

Diagnosis Procedure

INFOID:0000000012851965

Regarding Wiring Diagram information, refer to DLK-77, "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 E38 terminal 1 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. Refer to TM-187, "Component Inspection (Stop Lamp Switch)" (RE0F10E) or TM-414, "Component Inspection (Stop Lamp Switch)" (RE0F10J).

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace stop lamp switch. Refer to BR-20, "Exploded View".

3.CHECK GROUND CIRCUIT (BCM)

1. Disconnect BCM connector M81.
2. 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 >> GO TO 4.
NO >> Repair or replace damaged parts.

4. CHECK HARNESS BETWEEN BCM AND STOP LAMP SWITCH FOR OPEN

1. Disconnect BCM connector M18.
2. Check continuity between BCM connector M18 terminal 27 and stop lamp switch connector E38 terminal 2.

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 connector M18 terminal 27 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 connector M78 and BCM connector M80.
2. Check continuity between BCM connector M80 terminal 108 and CVT shift selector connector M78 terminal 3.

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 connector M80 terminal 108 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M80	108		No

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 connector M78 terminal 4 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-197, "Exploded View" (RE0F10E) or TM-424, "Exploded View" (RE0F10J).

NO >> Repair or replace damaged parts.

B26FE HOOD SWITCH

DTC Logic

INFOID:0000000012851966

DTC DETECTION LOGIC

NOTE:

- If DTC B26FE is displayed with DTC U1000, first perform the trouble diagnosis for DTC U1000. Refer to DLK-119, "DTC Logic".
- If DTC B26FE is displayed with DTC U1010, first perform the trouble diagnosis for DTC U1010. Refer to DLK-120, "DTC Logic".

DTC	CONSULT display description	DTC detecting condition	Possible cause
B26FE	HOOD SWITCH	BCM detects that the hood switch input is malfunctioning for 3 seconds.	• Hood switch • Harness or connector [hood switch circuit is open or shorted]

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Refer to DLK-160, "Diagnosis Procedure".
NO >> Hood switch is OK.

Diagnosis Procedure

INFOID:0000000012851967

Regarding Wiring Diagram information, refer to DLK-77, "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-31, "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-161, "Component Inspection" .

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace hood switch. Refer to DLK-266, "HOOD LOCK : Removal and Installation".

5.CHECK BCM CONFIGURATION

Refer to BCS-64, "CONFIGURATION (BCM) : Configuration List".

>> Inspection End.

Component Inspection

INFOID:0000000012851968

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
1	3	Hood switch	Release	No
2	3	Hood switch	Press	No
2	3	Hood switch	Release	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace hood switch. Refer to DLK-266, "HOOD LOCK : Removal and Installation".

B26FF REMOTE KEYLESS ENTRY RECEIVER

DTC Logic

INFOID:0000000012851969

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B26FF	INTELLIGENT TUNER COMMUNICATION FAIL	Inactive communication between BCM and remote keyless entry receiver.	• Harness or connector • Remote keyless entry receiver • BCM

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self-Diagnostic Result” mode of “BCM” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-162, "Diagnosis Procedure".
NO >> Inspection End.

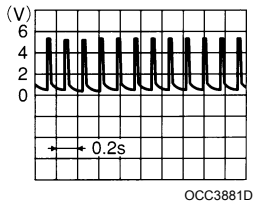
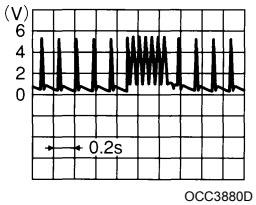
Diagnosis Procedure

INFOID:0000000012851970

Regarding Wiring Diagram information, refer to DLK-77, "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 Connector	(+) BCM Terminal	(–)	Condition	Signal (Reference value)
M80	119	Ground	Standby state	 OCC3881D
			Press the Intelligent Key lock or unlock button	 OCC3880D

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> GO TO 2.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

1. 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

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-287, "Removal and Installation".
NO >> Repair or replace harness.

POWER SUPPLY AND GROUND CIRCUIT
AUTOMATIC BACK DOOR CONTROL UNIT
AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:0000000012851971

Regarding Wiring Diagram information, refer to DLK-98, "Wiring Diagram".

1.CHECK FUSIBLE LINK

Check that the following fusible link is not open.

Fusible link No.	Signal name
N (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
Automatic back door control module			
Connector	Terminal		
B56	25	Ground	Battery voltage

Is the inspection result normal?

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

3.CHECK GROUND CIRCUIT

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B56	32		Yes
	28		
B55	4 (Except For Mexico)		

Does continuity exist?

YES >> Inspection End.
NO >> Repair or replace harness.

BCM
BCM : Diagnosis Procedure

INFOID:0000000013578600

Regarding Wiring Diagram information, refer to BCS-54, "Wiring Diagram".

1. CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
139	Fusible link battery power	O (40A)
131	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)

Component Function Check

INFOID:0000000012851973

1.CHECK OUTSIDE KEY ANTENNA (PASSENGER SIDE)

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

Does the door unlock?

YES >> Inspection End.
NO >> Refer to DLK-166, "Diagnosis Procedure".

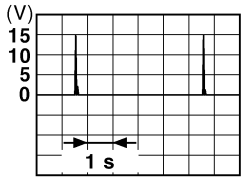
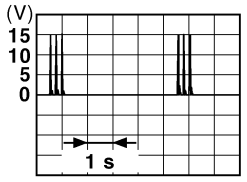
Diagnosis Procedure

INFOID:0000000012851974

Regarding Wiring Diagram information, refer to DLK-77, "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 Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M80	114, 115	Ground	When the passenger 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)	 JMKIA0062GB
				When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

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

BCM		Outside key antenna (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M80	114	D118	1	Yes
	115		2	

3. Check continuity between BCM harness connector and ground.

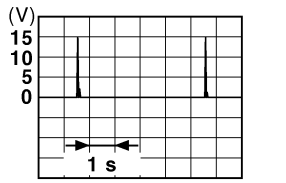
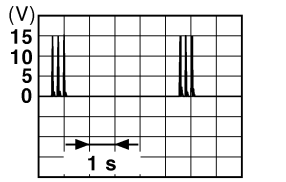
BCM		Ground	Continuity
Connector	Terminal		
M80	114		No
	115		

Is the inspection result normal?

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

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna (passenger side). (New antenna or other antenna)
2. Connect BCM connector and outside key antenna (passenger side) 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 passenger 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)	 JMKIA0062GB
				When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace outside key antenna (passenger side). Refer to DLK-284, "PASSENGER SIDE : Removal and Installation".
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

OUTSIDE KEY ANTENNA (DRIVER SIDE)

Component Function Check

INFOID:0000000012851975

1.CHECK OUTSIDE KEY ANTENNA (DRIVER SIDE)

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

Does the door unlock?

YES >> Inspection End.
NO >> Refer to DLK-168, "Diagnosis Procedure".

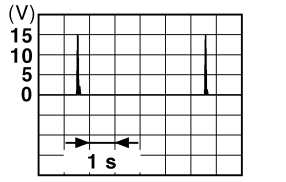
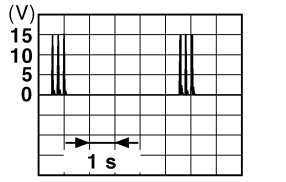
Diagnosis Procedure

INFOID:0000000012851976

Regarding Wiring Diagram information, refer to DLK-77, "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 Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M80	121, 122	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)	 JMKIA0062GB
				When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

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

BCM		Outside key antenna (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M80	122	D5	1	Yes
	121		2	

3. Check continuity between BCM harness connector and ground.

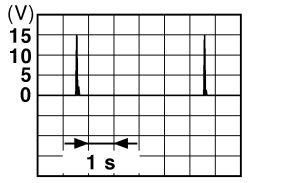
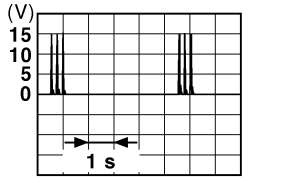
BCM		Ground	Continuity
Connector	Terminal		
M80	122		Not existed
	121		

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

(+) BCM Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M80	121, 122	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)	 JMKIA0062GB
				When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace outside key antenna (driver side). Refer to DLK-284, "DRIVER SIDE : Removal and Installation".
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

OUTSIDE KEY ANTENNA (REAR BUMPER)

Component Function Check

INFOID:0000000012851977

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-170, "Diagnosis Procedure".

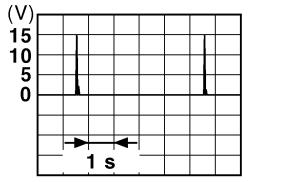
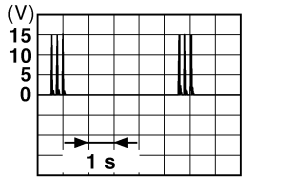
Diagnosis Procedure

INFOID:0000000012851978

Regarding Wiring Diagram information, refer to DLK-77, "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 Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M20	101, 102	Ground	When the back 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)	 JMKIA0062GB
				When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and outside key antenna (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	B403	1	Yes
	101		2	

3. Check continuity between BCM harness connector and ground.

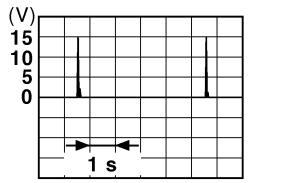
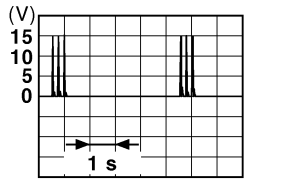
BCM		Ground	Continuity
Connector	Terminal		
M20	102		No
	101		

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 Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M20	101, 102	Ground	When the back 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)	 JMKIA0062GB
				When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace outside key antenna (rear bumper). Refer to DLK-284, "REAR BUMPER : Removal and Installation".
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

DOOR SWITCH

Component Function Check

INFOID:0000000012851979

1.CHECK FUNCTION

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

Monitor item	Condition		Status
DOOR SW-DR	Driver side door	Open	On
		Closed	Off
DOOR SW-AS	Passenger side door	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-172, "Diagnosis Procedure".

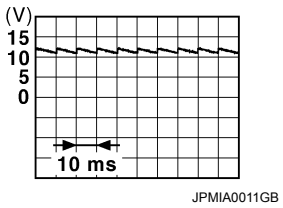
Diagnosis Procedure

INFOID:0000000012851980

Regarding Wiring Diagram information, refer to DLK-77, "Wiring Diagram".

1.CHECK DOOR SWITCH INPUT SIGNAL

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

(+)			(–)	Signal (Reference value)
Door switch				
Connector		Terminal		
Driver side	B8	3	Ground	 JPMIA0011GB 11.8 V
Passenger side	B108			
Rear LH	B18			
Rear RH	B116			

Is the inspection result normal?

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

2.CHECK DOOR SWITCH CIRCUIT

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

Door switch			BCM		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B8	3	M20	96	Yes
Passenger side	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		
Driver side	B8	3		No
Passenger side	B108			
Rear LH	B18			
Rear RH	B116			

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK DOOR SWITCH

Refer to DLK-173, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace malfunctioning door switch. Refer to DLK-281, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012851981

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 malfunction door switch. Refer to DLK-281, "Removal and Installation".

BACK DOOR SWITCH

Component Function Check

INFOID:0000000012851982

1.CHECK FUNCTION

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

Monitor item	Condition		Status
DOOR SW-BK	Back door	Open	On
		Closed	Off

Is the inspection result normal?

YES >> Door switch is OK.
NO >> Refer to DLK-174, "Diagnosis Procedure".

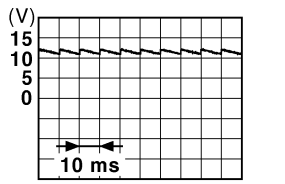
Diagnosis Procedure

INFOID:0000000012851983

Regarding Wiring Diagram information, refer to DLK-98, "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.

(+)		(–)	Signal (Reference value)
Back door lock assembly			
Connector	Terminal		
D557	7	Ground	 JPMIA0011GB 11.8 V

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 lock assembly		Ground	Continuity
Connector	Terminal		
D557	7		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "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-175, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace back door lock assembly. Refer to DLK-276, "DOOR LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012851984

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	Back door switch	Pressed	Yes
			Released	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace back door lock assembly. Refer to DLK-276, "DOOR LOCK : Removal and Installation".

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000012851985

1.CHECK FUNCTION

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

Monitor item	Condition		Status
CDL LOCK SW	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-176, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000012851986

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-81, "Removal and Installation".
NO >> Refer to PWC-68, "Diagnosis Procedure".

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:0000000012851987

1.CHECK FUNCTION

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

Monitor item	Condition		Status
CDL LOCK SW	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 PWC-42, "FRONT POWER WINDOW SWITCH (PASSENGER SIDE) : Diagnosis Procedure" .

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000012851988

1.CHECK POWER WINDOW SWITCH

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

Does power window operate?

YES >> Replace front power window switch (passenger side). Refer to PWC-82, "Removal and Installation".

NO >> Refer to PWC-68, "Diagnosis Procedure".

DOOR LOCK ACTUATOR
DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000012851989

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Door lock actuator is OK.
NO >> Refer to DLK-178, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000012851990

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

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> Replace front door lock assembly LH. Refer to DLK-269, "DOOR LOCK : Removal and Installation".
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM, all door lock actuators and fuel lid door lock actuator 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	
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.

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	12 V
	137			Unlock	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator and fuel lid door lock actuator.
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:0000000012851991

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Door lock actuator is OK.
NO >> Refer to DLK-179, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000012851992

Regarding Wiring Diagram information, refer to DLK-60, "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	12 V
	2			Lock	

Is the inspection result normal?

YES >> Replace front door lock actuator RH. Refer to DLK-269, "DOOR LOCK : Removal and Installation".
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock actuator RH		Continuity
Connector	Terminal	Connector	Terminal	
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	12 V
	135			Lock	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator and fuel lid door lock actuator.
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

REAR LH

REAR LH : Component Function Check

INFOID:0000000012851993

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Door lock actuator is OK.
NO >> Refer to DLK-180, "REAR LH : Diagnosis Procedure".

REAR LH : Diagnosis Procedure

INFOID:0000000012851994

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

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> Replace rear door lock actuator LH. Refer to DLK-273, "DOOR LOCK : Removal and Installation".
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM, all door lock actuators and fuel lid door lock actuator connector.
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.

(+) BCM		(–)	Condition		Voltage (Approx.)
Connector	Terminal				
M81	133	Ground	Door lock and unlock switch	Unlock	12 V
	132			Lock	

Is the inspection result normal?

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

REAR RH

REAR RH : Component Function Check

INFOID:0000000012851995

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Door lock actuator is OK.
NO >> Refer to DLK-181, "REAR RH : Diagnosis Procedure".

REAR RH : Diagnosis Procedure

INFOID:0000000012851996

Regarding Wiring Diagram information, refer to DLK-60, "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	12 V
	2			Lock	

Is the inspection result normal?

YES >> Replace rear door lock actuator RH. Refer to DLK-273, "DOOR LOCK : Removal and Installation".
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM, all door lock actuators and fuel lid lock actuator connector.
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	12 V
	132			Lock	

Is the inspection result normal?

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

FUEL LID LOCK ACTUATOR

Component Function Check

INFOID:0000000012851997

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Fuel lid door lock actuator is OK.
NO >> Refer to DLK-183, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012851998

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

1.CHECK FUEL LID DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (Approx.)
Fuel lid door lock actuator					
Connector	Terminal				
B20	1	Ground	Door lock and unlock switch	Unlock	12 V
	2			Lock	

Is the inspection result normal?

YES >> Replace fuel lid door lock actuator. Refer to DLK-278, "Removal and Installation".
NO >> GO TO 2.

2.CHECK FUEL LID DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM, all door lock actuators connector.
2. Check continuity between BCM harness connector and fuel lid door lock actuator harness connector.

BCM		Fuel lid door lock actuator		Continuity
Connector	Terminal	Connector	Terminal	
M81	135	B20	2	Yes
	137		1	

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.

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	135	Ground	Door lock and unlock switch	Lock	12 V
	137			Unlock	

Is the inspection result normal?

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

UNLOCK SENSOR

Component Function Check

INFOID:0000000012851999

1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select UNLK SEN-DR in DATA MONITORmode.
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-185, "Diagnosis Procedure".

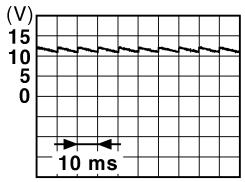
Diagnosis Procedure

INFOID:0000000012852000

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

JPMIA0011GB

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.

BCM		Ground	Continuity
Connector	Terminal		
M18	30		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK UNLOCK SENSOR GROUND CIRCUIT

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

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

Is the inspection result normal?

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

4.CHECK UNLOCK SENSOR

Refer to DLK-186, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace front door lock assembly LH. Refer to DLK-269, "DOOR LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012852001

1.CHECK UNLOCK SENSOR

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

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace front door lock assembly LH. Refer to DLK-269, "DOOR LOCK : Removal and Installation".

DOOR KEY CYLINDER SWITCH

Component Function Check

INFOID:0000000012852002

1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select KEY CYL LK-SW, KEY CYL UN-SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
KEY CYL LK-SW	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-187, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012852003

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

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

(+)		(–)	Voltage (Approx.)
Front door lock assembly LH			
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	
D56	15	D14	6	Yes
	16		5	

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

Main power window and door lock/unlock switch		Ground	Continuity
Connector	Terminal		
D56	15		No
	16		

Is the inspection result normal?

YES >> Replace main power window and door lock/unlock switch. Refer to PWC-81, "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-188, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly LH. Refer to DLK-269, "DOOR LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012852004

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-269, "DOOR LOCK : Removal and Installation".

REMOTE KEYLESS ENTRY RECEIVER

Component Function Check

INFOID:0000000012852005

1.CHECK FUNCTION

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “RKE OPE COUN1” in “DATA MONITOR” mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition
RKE OPE COUN1	Checks whether value changes when operating Intelligent Key

Is the inspection result normal?

YES >> Remote keyless entry receiver is OK.
NO >> Refer to DLK-189, "Diagnosis Procedure".

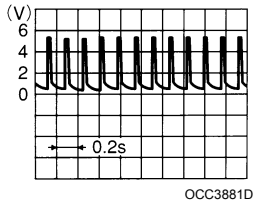
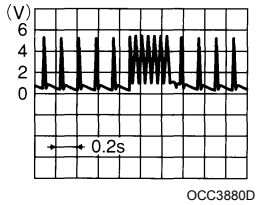
Diagnosis Procedure

INFOID:0000000012852006

Regarding Wiring Diagram information, refer to DLK-77, "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 Connector	(+) BCM Terminal	(–)	Condition	Signal (Reference value)
M80	119	Ground	Standby state	 OCC3881D
			Press the Intelligent Key lock or unlock button	 OCC3880D

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> GO TO 2.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

1. 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

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-287, "Removal and Installation".
NO >> Repair or replace harness.

DOOR REQUEST SWITCH

Component Function Check

INFOID:0000000012852007

1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select REQ SW-DR, REQ SW-AS in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
REQ SW -DR	Driver side door request switch	Pressed	ON
		Released	OFF
REQ SW -AS	Passenger side door request switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

YES >> Front door request switch is OK.
NO >> Refer to DLK-191, "Diagnosis Procedure".

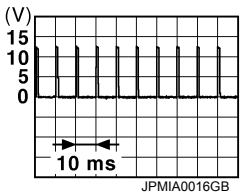
Diagnosis Procedure

INFOID:0000000012852008

Regarding Wiring Diagram information, refer to DLK-77, "Wiring Diagram".

1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

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

(+)			(–)	Signal (Reference value)
Front door request switch				
Connector		Terminal		
Driver side	D15	1	Ground	
Passenger side	D115			

JPMIA0016GB

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	
Driver side	D15	1	M19	71	Yes
Passenger side	D115			72	

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

Front door request switch			Ground	Continuity
Connector		Terminal		
Driver side	D15	1		No
Passenger side	D115			

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

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

Front door request switch			Ground	Continuity
Connector		Terminal		
Driver side	D15	2		Yes
Passenger side	D115			

Is the inspection result normal?

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

4.CHECK DOOR REQUEST SWITCH

Refer to DLK-192, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace malfunctioning front door request switch. Refer to DLK-282, "DRIVER SIDE : Removal and Installation" or DLK-282, "PASSENGER SIDE : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012852009

1.CHECK DOOR REQUEST SWITCH

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

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace malfunctioning front door request switch. Refer to DLK-282, "DRIVER SIDE : Removal and Installation" or DLK-282, "PASSENGER SIDE : Removal and Installation".

BACK DOOR REQUEST SWITCH

Component Function Check

INFOID:0000000012852010

1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select REQ SW-BD/TR in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
REQ SW-BD/TR	Back door request switch	Pressed	On
		Released	Off

Is the inspection result normal?

YES >> Back door request switch is OK.
NO >> Refer to DLK-193, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012852011

Regarding Wiring Diagram information, refer to DLK-98, "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	12 V

Is the inspection result normal?

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

2.CHECK BACK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect BCM connector.
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-79, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK BACK DOOR REQUEST SWITCH GROUND CIRCUIT

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

Back door 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-194, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace back door opener switch. Refer to DLK-282, "BACK DOOR : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012852012

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-282, "BACK DOOR : Removal and Installation".

BACK DOOR OPENER SWITCH

Component Function Check

INFOID:0000000012852013

1.CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Back door opener switch is OK.
NO >> Refer to DLK-195, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012852014

Regarding Wiring Diagram information, refer to DLK-98, "Wiring Diagram".

1.CHECK BACK DOOR OPEN 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	1	Ground	Battery voltage

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.

BCM		Ground	Continuity
Connector	Terminal		
M19	80		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "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-196, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace back door opener switch. Refer to DLK-282, "BACK DOOR : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012852015

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-282, "BACK DOOR : Removal and Installation".

INTELLIGENT KEY WARNING BUZZER

Component Function Check

INFOID:0000000012852016

1.CHECK FUNCTION

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
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-197, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012852017

Regarding Wiring Diagram information, refer to DLK-77, "Wiring Diagram".

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10 A fuse [No. 25, located in fuse block (J/B)].

Is the inspection result normal?

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

2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

1. Disconnect Intelligent Key warning buzzer connector.
2. Check voltage between Intelligent Key warning buzzer harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key warning buzzer			
Connector	Terminal		
E1	1	Ground	Battery voltage

Is the inspection result normal?

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

3.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 4.
NO >> Repair or replace harness.

4.CHECK INTELLIGENT KEY WARNING BUZZER

Refer to DLK-198, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".
NO >> Replace Intelligent Key warning buzzer. Refer to DLK-285, "Removal and Installation".

Component Inspection

INFOID:0000000012852018

1. CHECK INTELLIGENT KEY WARNING BUZZER

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

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace Intelligent Key warning buzzer. Refer to DLK-285, "Removal and Installation".

INTELLIGENT KEY

Component Function Check

INFOID:0000000012852019

NOTE:
The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.
- Check Intelligent Key relative signal strength.
- Confirm vehicle Intelligent Key antenna signal strength.

1.CHECK FUNCTION

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “RKE OPE COUN1” in “DATA MONITOR” mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition
RKE OPE COUN1	Check that the numerical value is changing while operating on the Intelligent Key.

Is the inspection result normal?

YES >> Intelligent Key is OK.
NO >> Refer to DLK-199, "Diagnosis Procedure".

Diagnosis Procedure

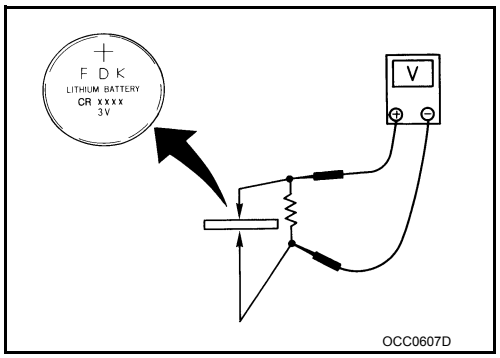
INFOID:0000000012852020

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-288, "Removal and Installation".

Standard : Approx. 2.5 - 3.0V



Is the measurement value within the specification?

YES >> Replace Intelligent Key.
NO >> Replace Intelligent Key battery.

METER BUZZER CIRCUIT

Description

INFOID:0000000012852021

- 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:0000000012852022

1. CHECK OPERATION OF METER BUZZER

1. Select BUZZER of BCM on CONSULT.
2. Perform LIGHT WARN ALM or SEAT BELT WARN TEST of ACTIVE TEST.

Does meter buzzer activate?

YES >> Inspection End.
NO >> Refer to DLK-200, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012852023

1.CHECK COMBINATION METER INPUT SIGNAL

Select the Data Monitor for the “METER/M&A and check the BUZZER monitor value.

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

Is the inspection result normal?

YES >> Replace combination meter. Refer to MWI-94, "Removal and Installation".
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

KEY WARNING LAMP

Component Function Check

INFOID:0000000012852024

1.CHECK FUNCTION

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “INDICATOR” in “ACTIVE TEST” mode.
3. Touch “KEY IND” or “KEY ON” to check that it works normally.

Is the inspection result normal?

YES >> Key warning lamp is OK.
NO >> Refer to DLK-201, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012852025

1.CHECK KEY WARNING LAMP

Refer to MWI-17, "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-50, "Intermittent Incident".

>> Inspection End.

HAZARD FUNCTION

Component Function Check

INFOID:0000000012852026

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.
NO >> Refer to DLK-202, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012852027

1.CHECK HAZARD SWITCH CIRCUIT

Refer to EXL-132, "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-50, "Intermittent Incident".

>> Inspection End.

AUTOMATIC BACK DOOR CLOSE SWITCH

Component Function Check

INFOID:0000000012852028

1.CHECK FUNCTION

1. Select “AUTOMATIC BACK DOOR CONTROL MODULE” using CONSULT.
2. Select “BK DOOR CL SW” in “DATA MONITOR” mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
BK DOOR CL SW	Automatic back door close switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

YES >> Automatic back door close switch is OK.
NO >> Refer to DLK-203, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012852029

Regarding Wiring Diagram information, refer to DLK-98, "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	1	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH CIRCUIT

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	23	D560	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	23		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH GROUND CIRCUIT

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

Automatic back door close switch		Ground	Continuity
Connector	Terminal		
D560	2		Yes

Is the inspection result normal?

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

4.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Refer to DLK-204, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace automatic back door close switch. Refer to DLK-292, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012852030

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				
1	2	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-292, "Removal and Installation".

AUTOMATIC BACK DOOR MAIN SWITCH

Component Function Check

INFOID:0000000012852031

1.CHECK FUNCTION

1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
2. Select MAIN SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
MAIN SW	Automatic 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-205, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012852032

Regarding Wiring Diagram information, refer to DLK-98, "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.

(+)		(–)	Voltage (Approx.)
Automatic back door main switch			
Connector	Terminal		
M185	1	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK AUTOMATIC BACK DOOR MAIN SWITCH CIRCUIT

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	10	M185	1	Yes

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

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

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

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	3		Yes

Is the inspection result normal?

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

4.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Refer to DLK-206, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace automatic back door main switch. Refer to DLK-290, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012852033

1.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

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

Automatic back door main switch		Condition		Continuity
Terminal				
1	3	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-290, "Removal and Installation".

AUTOMATIC BACK DOOR SWITCH

Component Function Check

INFOID:0000000012852034

1.CHECK FUNCTION

1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
2. Select AUTO BD SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
AUTO BD SW	Automatic back door switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

YES >> Automatic back door switch is OK.
NO >> Refer to DLK-207, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012852035

Regarding Wiring Diagram information, refer to DLK-98, "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.

(+)		(–)	Voltage (Approx.)
Automatic back door switch			
Connector	Terminal		
M186	1	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	22	M186	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	22		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR SWITCH GROUND CIRCUIT

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

Automatic back door switch		Ground	Continuity
Connector	Terminal		
M186	2		Yes

Is the inspection result normal?

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

4.CHECK AUTOMATIC BACK DOOR SWITCH

Refer to DLK-208, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace automatic back door switch. Refer to DLK-291, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012852036

1.CHECK AUTOMATIC BACK DOOR SWITCH

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

Automatic back door switch		Condition		Continuity
Terminal				
1	2	Automatic back door switch	Pressed	Yes
			Released	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace automatic back door switch. Refer to DLK-291, "Removal and Installation".

HALF LATCH SWITCH

Component Function Check

INFOID:0000000012852037

1.CHECK FUNCTION

1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
2. Select HALF LATCH SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	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-209, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012852038

Regarding Wiring Diagram information, refer to DLK-98, "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	3	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	3		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK HALF LATCH SWITCH GROUND CIRCUIT

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

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D557	8		Yes

Is the inspection result normal?

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

4.CHECK HALF LATCH SWITCH

Refer to DLK-210, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace back door lock assembly. Refer to DLK-276, "DOOR LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012852039

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	Half latch	Yes
			Fully closed/Open	No

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace back door lock assembly. Refer to DLK-276, "DOOR LOCK : Removal and Installation".

TOUCH SENSOR

RH

RH : Component Function Check

INFOID:0000000012852040

1.CHECK FUNCTION

1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
2. Select TOUCH SEN RH in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

YES >> Touch sensor RH is OK.
NO >> Refer to DLK-211, "RH : Diagnosis Procedure".

RH : Diagnosis Procedure

INFOID:0000000012852041

Regarding Wiring Diagram information, refer to DLK-98, "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	13	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	1	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	1		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK TOUCH SENSOR RH GROND CIRCUIT 1

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	13	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	13		No

Is the inspection result normal?

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

4.CHECK TOUCH SENSOR RH GROND CIRCUIT 2

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

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

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR RH

Refer to DLK-212, "RH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace touch sensor RH. Refer to DLK-277, "TOUCH SENSOR : Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

RH : Component Inspection

INFOID:0000000012852042

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-277, "TOUCH SENSOR : Removal and Installation".

LH

LH : Component Function Check

INFOID:0000000012852043

1.CHECK FUNCTION

1. Select AUTOMATIC BACK DOOR CONTROL MODULE using CONSULT.
2. Select TOUCH SEN LH in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TOUCH SEN LH	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-213, "LH : Diagnosis Procedure".

LH : Diagnosis Procedure

INFOID:0000000012852044

Regarding Wiring Diagram information, refer to DLK-98, "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	1	B55	13	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.

Automatic back door control module		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B55	2	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	2		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK TOUCH SENSOR LH GROND CIRCUIT 1

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	13	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	13		No

Is the inspection result normal?

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

4.CHECK TOUCH SENSOR LH GROND CIRCUIT 2

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

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

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR LH

Refer to DLK-215, "LH : Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace touch sensor LH. Refer to DLK-277, "TOUCH SENSOR : Removal and Installation".

6.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

LH : Component Inspection

INFOID:0000000012852045

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-277, "TOUCH SENSOR : Removal and Installation".

SPINDLE MOTOR

RH

RH : Diagnosis Procedure

INFOID:0000000012852046

Regarding Wiring Diagram information, refer to DLK-98, "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.

(+)		(–)	Condition		Voltage (Approx.)
Spindle unit RH					
Connector	Terminal				
B162	9	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-264, "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 RH harness connector.

Automatic back door control module		Spindle unit RH		Continuity
Connector	Terminal	Connector	Terminal	
B56	29	B162	9	Yes
	36		2	

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B56	29		No
	36		

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

LH

LH : Diagnosis Procedure

INFOID:0000000012852047

Regarding Wiring Diagram information, refer to DLK-98, "Wiring Diagram".

1.CHECK SPINDLE MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.

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	9	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-264, "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	27	B70	9	Yes
	34		2	

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B56	27		No
	34		

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

BACK DOOR CLOSURE MOTOR

Diagnosis Procedure

INFOID:0000000012852048

Regarding Wiring Diagram information, refer to DLK-98, "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.

(+)		(–)	Condition		Voltage (Approx.)
Back door lock assembly					
Connector	Terminal				
D557	1	Ground	Back door	Open operation	Battery voltage
				Other than above	0 V
	2			Close operation	Battery voltage
				Other than above	0 V

Is the inspection result normal?

YES >> Replace back door lock assembly. Refer to DLK-276, "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	31	D557	1	Yes
	38		2	

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B56	31		No
	38		

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

AUTOMATIC BACK DOOR WARNING BUZZER

Diagnosis Procedure

INFOID:0000000012852049

Regarding Wiring Diagram information, refer to DLK-98, "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		
B402	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	37	B402	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	37		No

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "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		
B402	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-220, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace back door warning chime. Refer to DLK-286, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012852050

1.CHECK BACK DOOR WARNING CHIME

1. Turn ignition switch OFF.
2. Disconnect back door warning chime connector.
3. Check battery power supply directly to back door warning chime terminals and check the operation.

Back door warning chime		Operation
Terminal		
(+)	(-)	
1	2	Chime sounds

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace back door warning chime. Refer to DLK-286, "Removal and Installation".

GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000012852051

Regarding Wiring Diagram information, refer to DLK-98, "Wiring Diagram".

1.CHECK GROUND CIRCUIT

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

Automatic back door control module		Ground	Continuity
Connector	Terminal		
B56	32		Yes
	28		
B55	4 (Except For Mexico)		

Is the inspection result normal?

YES >> Replace automatic back door control module. Refer to DLK-289, "Removal and Installation".
NO >> Repair or replace harness.

HOOD SWITCH

Component Function Check

INFOID:0000000012852052

1.CHECK FUNCTION

1. Select HOOD SW in Data Monitor mode of IPDM E/R using CONSULT.
2. Check HOOD SW indication under the following condition.

Monitor item	Condition		Indication
HOOD SW	Hood	Open	ON
		Close	OFF

Is the indication normal?

YES >> Hood switch is OK.
NO >> Go to DLK-222, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012852053

Regarding Wiring Diagram information, refer to DLK-77, "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	12
	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-31, "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-223, "Component Inspection" .

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace hood switch. Refer to DLK-266, "HOOD LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

Component Inspection

INFOID:0000000012852054

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	3		Press	No
			Release	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Replace hood switch. Refer to DLK-266, "HOOD LOCK : Removal and Installation".

INTEGRATED HOMELINK TRANSMITTER

Component Function Check

INFOID:0000000012852055

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Receiver or hand-held transmitter is malfunctioning.

2.CHECK ILLUMINATE

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-224, "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-33, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000012852056

Regarding Wiring Diagram information, refer to DLK-110, "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.)
R10	10	Ground	Ignition switch position: OFF	Battery voltage
			Ignition switch position: ON	
	6		Ignition switch position: OFF	0
			Ignition switch position: ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check the following items.
- 5A fuse [No. 29 located in the fuse block (J/B)]
- 10A fuse [No. 1 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.

Auto anti-dazzling inside mirror (Homelink® universal transceiver) connector	Terminal	Ground	Continuity
R10	8		Yes

Is the inspection result normal?

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

3.CHECK INTERMITTENT INCIDENT

Refer to GI-50, "Intermittent Incident".

>> Inspection End.

SYMPTOM DIAGNOSIS

INTELLIGENT KEY SYSTEM SYMPTOMS

Diagnosis Procedure

INFOID:0000000013542010

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

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

No.	Door lock operation (remote keyless entry)	Door lock operation (request switch) or back door open operation (opener switch of back door panel)	Engine started with push-button ignition switch operation (registered Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)	Symptom
1	OK	OK	No start	No start	SEC-142
2	OK	NG	OK	OK	DLK-227
3	OK	NG	No crank, No start	OK	DLK-229
4	NG	NG	No crank, No start	OK	DLK-231
5	NG	NG	No start	No start	DLK-232
6	OK	OK	No crank, No start	OK	SEC-143
7	NG	OK	OK	OK	DLK-234
8	NG	NG	OK	OK	DLK-235
9	Poor range	OK	OK	OK	DLK-236

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

No.	Door lock operation (remote keyless entry)	Door lock operation (request switch) or back door open operation (opener switch of back door panel)	Engine started with push-button ignition switch operation (Intelligent Key is within the detection area of inside key antenna)	Engine started with push-button ignition switch operation (registered Intelligent Key placed next to push-button ignition switch)	Symptom
1	NG	OK	OK	OK	DLK-238
2	NG	NG	No crank, No start	OK	DLK-239
3	NG	NG	No crank, No start	No crank, No start	DLK-241
4	OK	OK	No crank, No start	No crank, No start	SEC-145
5	OK	NG	No crank, No start	OK	SEC-146
6	Poor range	OK	OK	OK	DLK-243

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

Description

INFOID:0000000013542011

All doors do not lock/unlock using front door request switch or back door does not open using back door opener request switch.

NOTE:

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

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

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

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

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

DIAGNOSIS PROCEDURE

Refer to DLK-227, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000013542012

1.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to DLK-226, "Diagnosis Procedure".

>> GO TO 2.

2.PERFORM SELF-DIAGNOSIS RESULT

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

Is DTC detected?

YES >> Perform the trouble diagnosis for detected DTC.

NO >> GO TO 3.

3.CHECK OUTSIDE KEY ANTENNA

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 5.

4.CHECK INTELLIGENT KEY OUTPUT SIGNAL

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

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace the malfunctioning outside key antenna. Refer to DLK-284, "DRIVER SIDE : Removal and Installation" (Drive side), DLK-284, "PASSENGER SIDE : Removal and Installation" (Passenger side) and DLK-284, "REAR BUMPER : Removal and Installation" (Rear bumper).

5.CHECK DOOR REQUEST SWTICH

Check each door request switch.

- Front door: Refer to DLK-191, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts. Refer to DLK-270, "OUTSIDE HANDLE : Removal and Installation".

6. REPLACE BCM

1. Replace BCM. Refer to BCS-79, "Removal and Installation".
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.
NO >> Check intermittent incident. Refer to GI-50, "Intermittent Incident".

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

Description

INFOID:0000000013542013

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

NOTE:

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

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

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

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

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

DIAGNOSIS PROCEDURE

Refer to DLK-229, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000013542014

1.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to DLK-226, "Diagnosis Procedure".

>> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA AND INSIDE KEY ANTENNA

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REGISTER INTELLIGENT KEY

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

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 4.

4.REPLACE INTELLIGENT KEY

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

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

5.REPLACE BCM

1. Replace BCM. Refer to BCS-79, "Removal and Installation".
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.
NO >> Check intermittent incident. Refer to GI-50, "Intermittent Incident".

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

Description

INFOID:0000000013542015

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

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

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

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

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

DIAGNOSIS PROCEDURE

Refer to DLK-231, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000013542016

1.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.
Refer to DLK-226, "Diagnosis Procedure".

>> GO TO 2.

2.PERFORM SELF-DIAGNOSIS RESULT

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

Is DTC “B26FF” detected?

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

3.CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.
Refer to DLK-199, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts. Refer to DLK-288, "Removal and Installation".

4.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.
Refer to DLK-189, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts. Refer to DLK-287, "Removal and Installation".

5.REPLACE BCM

1. Replace BCM. Refer to BCS-79, "Removal and Installation".
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.
NO >> Check intermittent incident. Refer to GI-50, "Intermittent Incident".

INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ALL KEYS)

Description

INFOID:0000000013542017

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

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

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

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

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

DIAGNOSIS PROCEDURE

Refer to DLK-232, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000013542018

1.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to DLK-226, "Diagnosis Procedure".

>> GO TO 2.

2.CHECK INTELLIGENT KEY-1

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

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

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

YES >> GO TO 3.

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

3.CHECK INTELLIGENT KEY-2

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace Intelligent Key.

4.REGISTER INTELLIGENT KEY

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

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

5.REPLACE INTELLIGENT KEY

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

Is the inspection result normal?

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

6. REPLACE BCM

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

Is the inspection result normal?

YES >> Inspection End
NO >> Check intermittent incident. Refer to GI-50, "Intermittent Incident".

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description

INFOID:0000000013542019

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

NOTE:

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

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

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

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

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

DIAGNOSIS PROCEDURE

Refer to DLK-234, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000013542020

1.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to DLK-226, "Diagnosis Procedure".

>> GO TO 2.

2.CHECK INTELLIGENT KEY OUTPUT SIGNAL

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

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-79, "Removal and Installation".

NO >> Replace Intelligent Key.

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

Description

INFOID:0000000013542021

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

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

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

DIAGNOSIS PROCEDURE

Refer to DLK-235, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000013542022

1.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to DLK-226, "Diagnosis Procedure".

>> GO TO 2.

2.CHECK POWER DOOR LOCK OPERATION

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

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

YES >> GO TO 3.

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

3.REPLACE BCM

1. Replace BCM. Refer to BCS-79, "Removal and Installation".
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-50, "Intermittent Incident".

INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ALL KEYS)

Description

INFOID:0000000013542023

Intelligent Key button operation has poor range.

SYMPTOM TABLE (BOTH INTELLIGENT KEYS HAVE THE SAME SYMPTOMS)

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

DIAGNOSIS PROCEDURE

Refer to DLK-236, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000013542024

1.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.
Refer to DLK-226, "Diagnosis Procedure".

>> GO TO 2.

2.CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning operates.

Is the Intelligent Key low battery warning operated?

YES >> GO TO 3.
NO >> Replace Intelligent Key battery. Refer to DLK-288, "Removal and Installation".

3.CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.
Refer to DLK-199, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace Intelligent Key battery. Refer to DLK-288, "Removal and Installation".

4.PERFORM SELF-DIAGNOSIS RESULT-1

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

Is DTC “B26FF” detected?

YES >> Perform the trouble diagnosis for detected DTC.
NO >> GO TO 5.

5.REMOTE AFTERMARKET DEVICE

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

Is the inspection result normal?

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

6.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.
Refer to DLK-189, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7. REPLACE BCM

1. Replace BCM. Refer to BCS-79, "Removal and Installation".
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.
NO >> Check intermittent incident. Refer to GI-50, "Intermittent Incident".

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

Description

INFOID:0000000013542025

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

NOTE:

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

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

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

DIAGNOSIS PROCEDURE

Refer to DLK-238, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000013542026

1.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.

Refer to DLK-226, "Diagnosis Procedure".

>> GO TO 2.

2.CHECK INTELLIGENT KEY OUTPUT SIGNAL

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace Intelligent Key.

3.REGISTER INTELLIGENT KEY

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

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 4.

4.REPLACE INTELLIGENT KEY

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

Is the inspection result normal?

YES >> Inspection End.

NO >> GO TO 5.

5.REPLACE BCM

1. Replace BCM. Refer to BCS-79, "Removal and Installation".
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.

NO >> Check intermittent incident. Refer to GI-50, "Intermittent Incident".

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

Description

INFOID:0000000013542027

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

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

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

DIAGNOSIS PROCEDURE

Refer to DLK-239, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000013542028

1.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.
Refer to DLK-226, "Diagnosis Procedure".

>> GO TO 2.

2.CHECK INTELLIGENT KEY

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace Intelligent Key.

3.CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace Intelligent Key battery. Refer to DLK-288, "Removal and Installation".

4.REGISTER INTELLIGENT KEY

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

Is the inspection result normal?

YES >> Inspection End.
NO >> GO TO 5.

5.REPLACE INTELLIGENT KEY

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

Is the inspection result normal?

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

6. REPLACE BCM

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

Is the inspection result normal?

YES >> Inspection End.
NO >> Check intermittent incident. Refer to GI-50, "Intermittent Incident".

INTELLIGENT KEY SYSTEM ALL FUNCTIONS CANNOT OPERATE (ONE KEY)

Description

INFOID:0000000013542029

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

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

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

DIAGNOSIS PROCEDURE

Refer to DLK-241, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000013542030

1.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.
Refer to DLK-226, "Diagnosis Procedure".

>> GO TO 2.

2.CHECK INTELLIGENT KEY-1

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

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

YES >> GO TO 3.
NO >> Check Intelligent Key button operation using a registered Intelligent Key that belongs to the vehicle.

3.CHECK INTELLIGENT KEY-2

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

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace Intelligent Key.

4.REGISTER INTELLIGENT KEY

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

Is the inspection result normal?

YES >> Inspection End.
NO >> GO TO 5.

5.REPLACE INTELLIGENT KEY

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

Is the inspection result normal?

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

6.REPLACE BCM

1. Replace BCM. Refer to BCS-79, "Removal and Installation".
2. Check operation after replacement.

Is the inspection result normal?

YES >> Inspection End.
NO >> Check intermittent incident. Refer to GI-50, "Intermittent Incident".

INTELLIGENT KEY BUTTON OPERATION HAS POOR RANGE (ONE KEY)

Description

INFOID:0000000013542031

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

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

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

DIAGNOSIS PROCEDURE

Refer to DLK-243, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000013542032

1.CHECK INTELLIGENT KEY SYSTEM SYMPTOM TABLE

Check Intelligent Key system symptom table.
Refer to DLK-226, "Diagnosis Procedure".

>> GO TO 2.

2.CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning operates.

Is the Intelligent Key low battery warning operated?

YES >> Replace Intelligent Key battery. Refer to DLK-288, "Removal and Installation".
NO >> GO TO 3.

3.CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.

Is the inspection result normal?

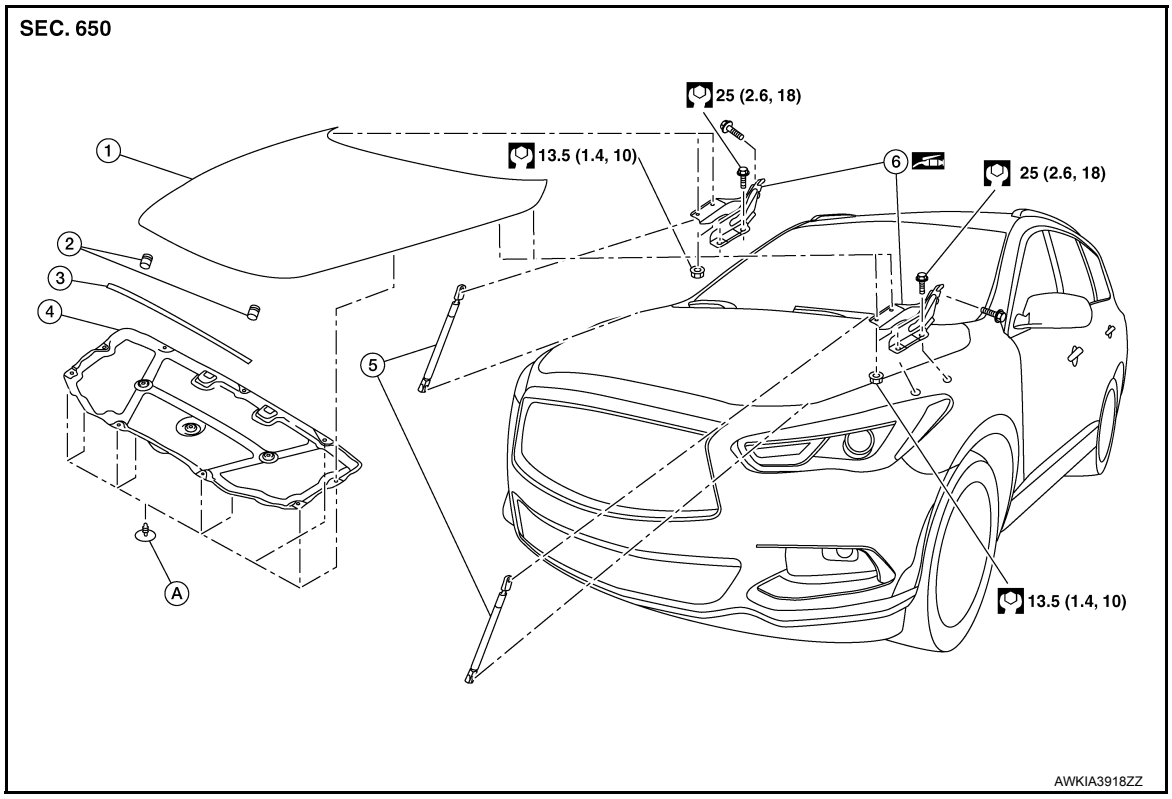
YES >> Replace Intelligent Key and register new Intelligent Key.
NO >> Replace Intelligent Key battery. Refer to DLK-288, "Removal and Installation".

REMOVAL AND INSTALLATION

HOOD

Exploded View

INFOID:0000000012852125



1. Hood assembly
2. Hood bumper rubber
3. Hood seal
4. Hood insulator
5. Hood stay (LH/RH)
6. Hood hinge (LH/RH)
A. Clip

HOOD ASSEMBLY

HOOD ASSEMBLY : Removal and Installation

INFOID:0000000012852126

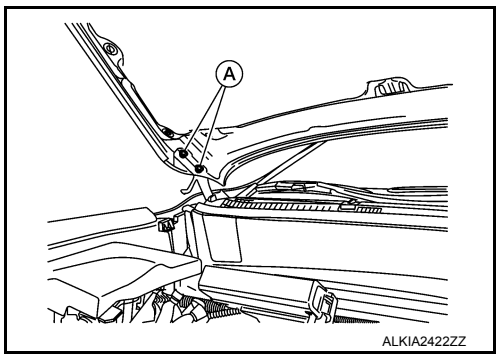
CAUTION:
- **Use two people when removing or installing hood assembly due to its heavy weight.**
- **Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of hood assembly.**

REMOVAL

1. Support the hood assembly using a suitable tool.

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

2. Remove hood hinge to hood nuts (A) and then remove the hood assembly.



INSTALLATION

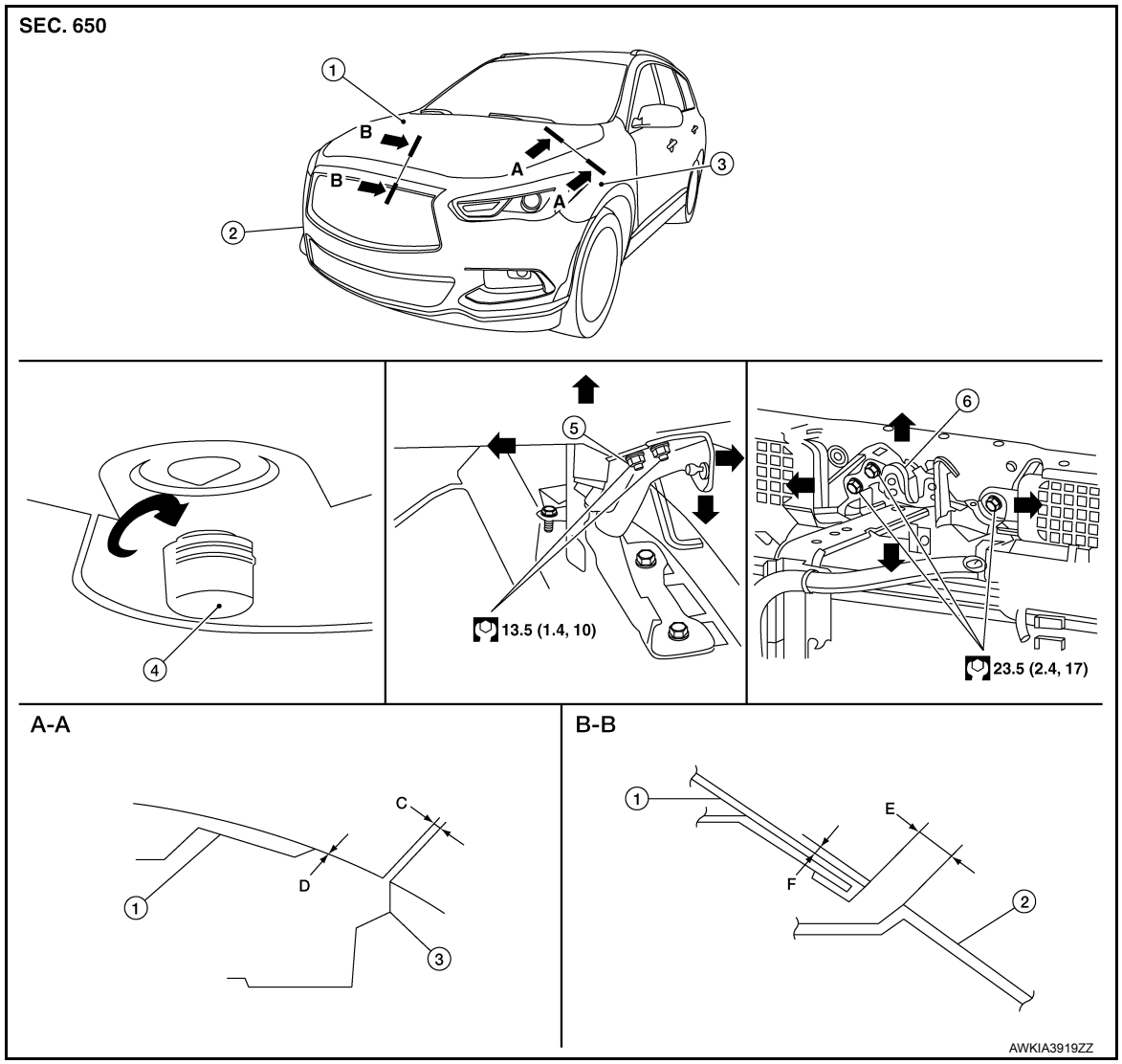
Installation is in the reverse order of removal.

CAUTION:

- **Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.**
- **After installation, perform the hood assembly adjustment procedure. Refer to DLK-245, "HOOD ASSEMBLY : Adjustment".**

HOOD ASSEMBLY : Adjustment

INFOID:0000000012852127



1. Hood assembly
2. Front bumper fascia
3. Front fender
4. Hood bumper rubber
5. Hood hinge
6. Hood lock assembly

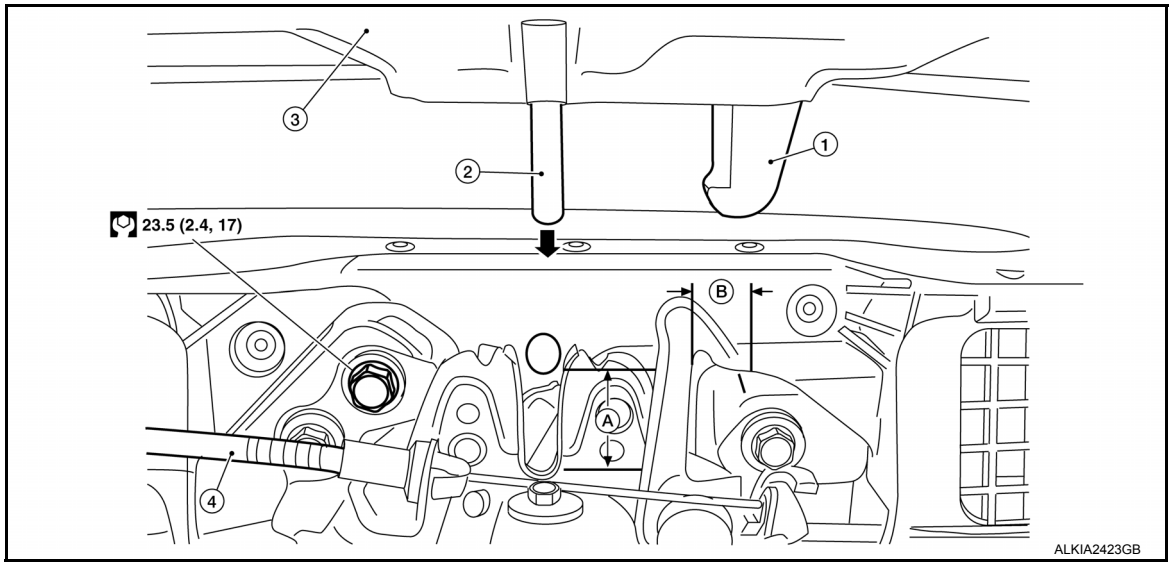
Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Portion	Section	Item	Measurement	Standard	Parallelism
Hood – Front fender	A – A	C	Clearance	3.5 ± 1.0 (0.14 ± 0.04)	≤ 1.5 (0.06)
		D	Surface height	1.0 ± 1.5 (0.04 ± 0.06)	—
Hood – Front bumper fascia	B – B	E	Clearance	4.1 ± 2.0 (0.16 ± 0.08)	< 2.0 (0.08)
		F	Surface height	1.0 ± 1.5 (0.04 ± 0.06)	< 2.0 (0.08)

HEIGHT ADJUSTMENT

1. Loosen the hood lock assembly bolts.
2. Adjust the surface height of hood assembly to front bumper fascia and front fender according to the specified values by rotating hood bumper rubber.
3. Temporarily tighten hood lock assembly bolts.
4. Adjust (A) and (B) as shown to the following value with hood's own weight by dropping it from approximately 200 mm (7.87 in) height or by pressing hood lightly [approximately 29 N (3.0 kg-f, 6.5 ft-lb)].



1. Secondary striker
2. Primary striker
3. Hood assembly
4. Secondary latch control cable
A. 20 mm (0.79 in)
B. 6.8 mm (0.27 in)

5. After adjustment, tighten hood hinge nuts and bolts to the specified torque.
   CAUTION:
   - **Check hood hinge rotating part for poor lubrication. If necessary, apply a suitable multi-purpose grease.**
   - **After adjusting, apply touch-up paint (body color) onto the head of hood hinge bolts and nuts.**

CLEARANCE ADJUSTMENT

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

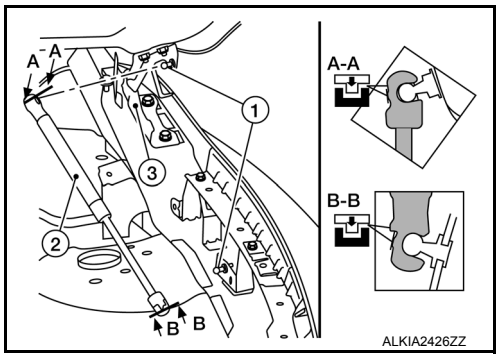
HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:0000000012852128

REMOVAL

1. Remove hood assembly. Refer to DLK-244, "HOOD ASSEMBLY : Removal and Installation".
2. Remove hood stay (2) from hood hinge (3) and ball studs (1).



3. Remove hood hinge bolts, and then remove hood hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.**
- **After installation, perform hood assembly adjustment procedure. Refer to DLK-245, "HOOD ASSEMBLY : Adjustment".**

HOOD STAY

HOOD STAY : Removal and Installation

INFOID:0000000012852129

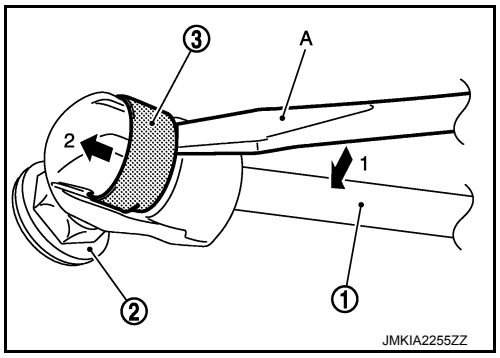
REMOVAL

1. Support the hood assembly using a suitable tool.

   WARNING:

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

2. Remove the metal clip (3) located on the connection between the hood stay (1) and the stud ball (2) (hood side) by using a suitable tool (A) to release the clip to the side and then toward the front.



3. Release the stud ball from the hood stay (hood side).
4. Release the stud ball from the hood stay (body side), then remove the hood stay.

INSTALLATION

Installation is in the reverse order of removal.

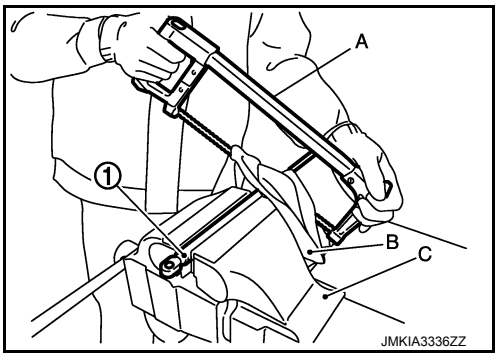
HOOD STAY : Disposal

INFOID:0000000012852130

1. Fix hood stay (1) using a vise (C).
2. Using a hacksaw (A) slowly make two holes in the hood stay (1), in numerical order as shown in the figure.

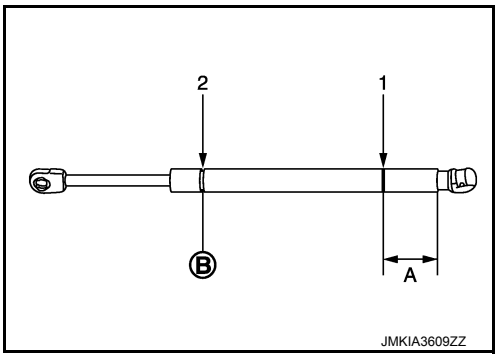
CAUTION:

- **When cutting a hole on 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.**



A: 20 mm (0.79 in)

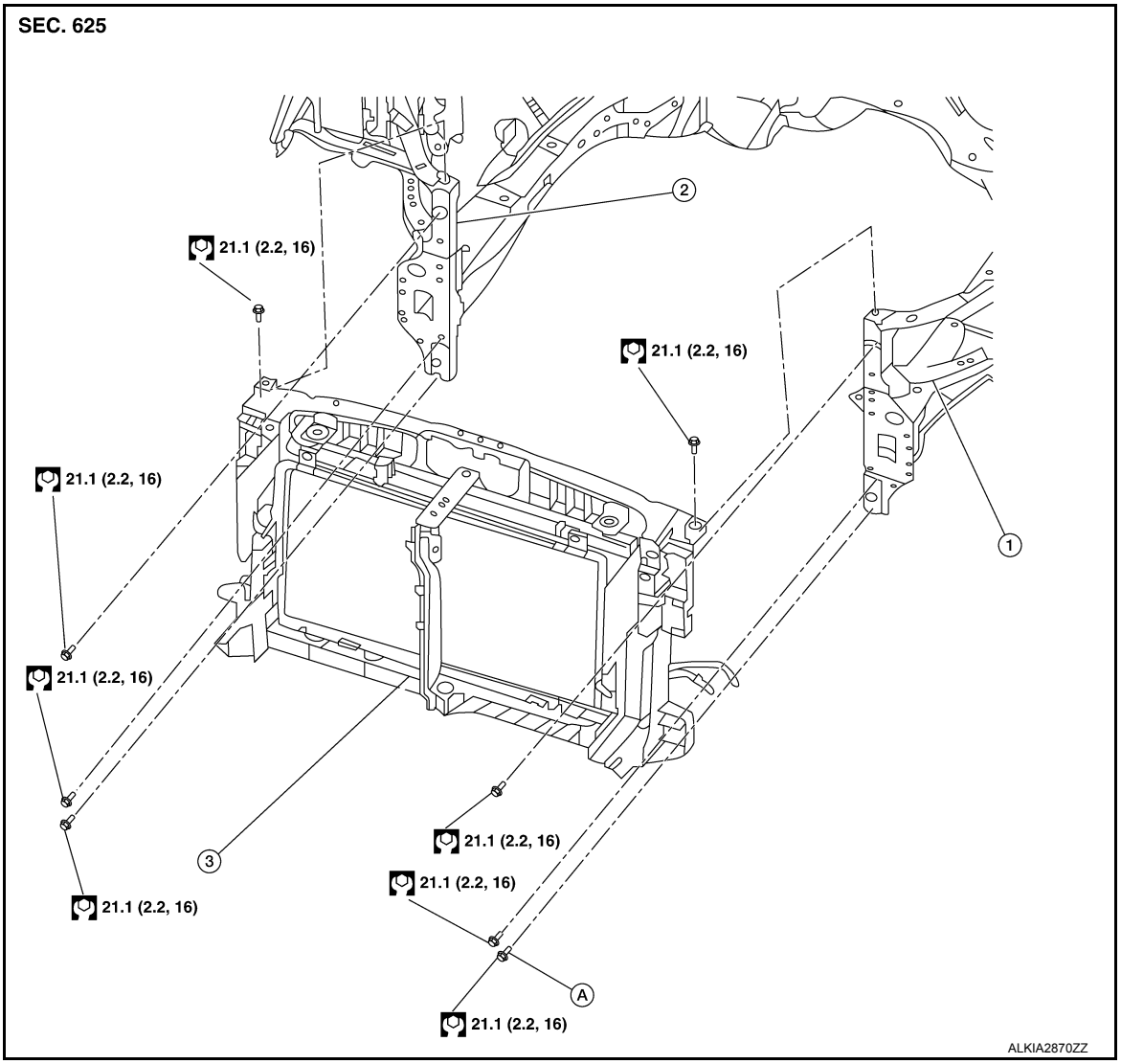
B: Cut at the groove.



RADIATOR CORE SUPPORT

Exploded View

INFOID:0000000012852131



1. Radiator support (LH)
2. Radiator support (RH)
3. Radiator core support assembly

A. Refer to installation for sequence order

Removal and Installation

INFOID:0000000012852132

REMOVAL

CAUTION:

When removing radiator core support upper, be careful not to damage the painted surface.

1. Remove front bumper assembly. Refer to EXT-17, "Removal and Installation".
2. Release clips and then remove radiator upper seal.
3. Remove the battery. Refer to PG-147, "Removal and Installation".
4. Disconnect harness connector from refrigerant pressure sensor.
5. Remove upper air intake.
6. Disconnect all harness clips from radiator core support assembly.
7. Remove hood lock assembly. Refer to DLK-267, "HOOD LOCK RELEASE CABLE : Removal and Installation".

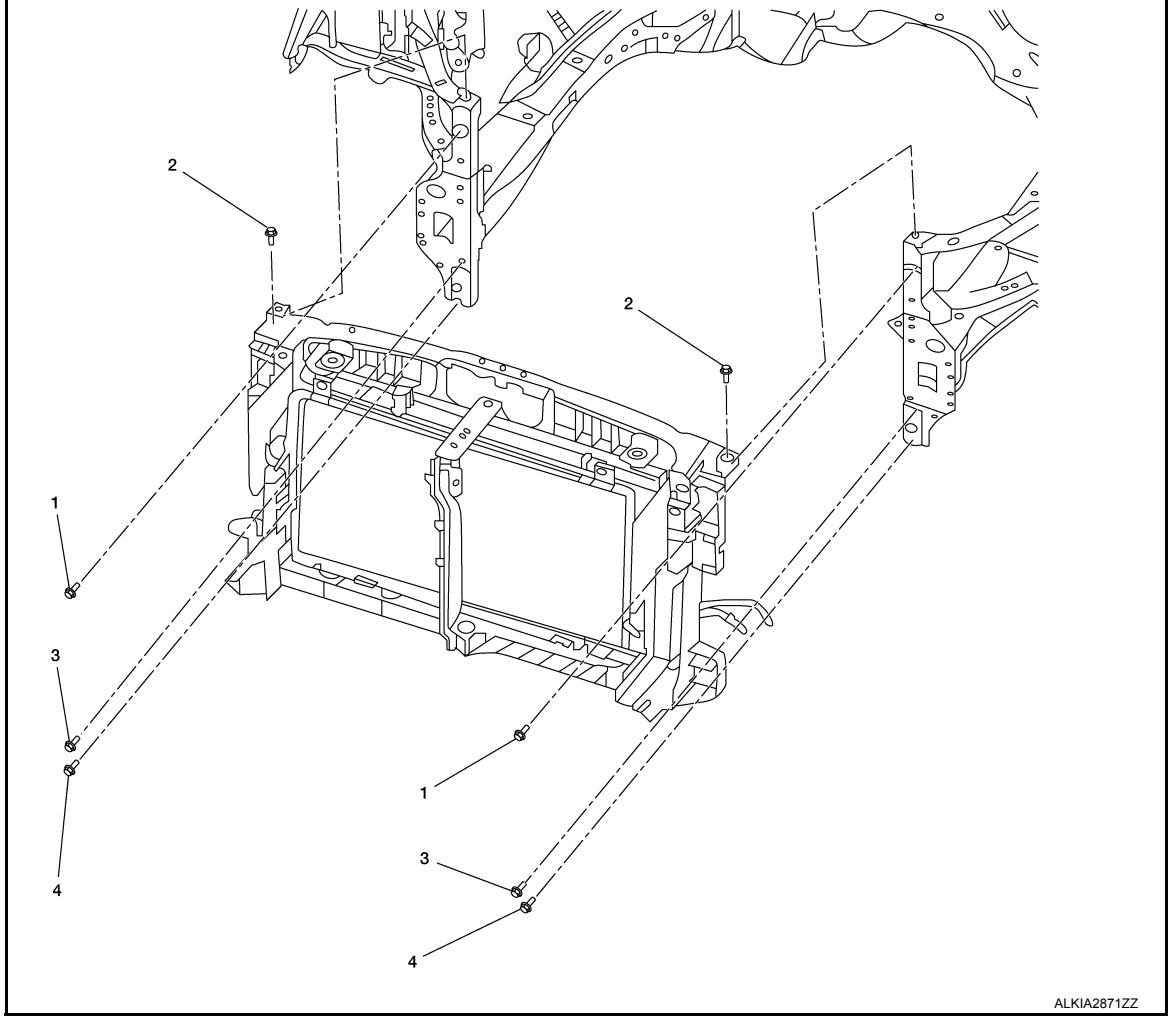
8. Release clips of air guide seal and remove.
9. Remove radiator bolts. Refer to CO-15, "Removal and Installation".
10. Remove bolts, and then radiator core support assembly.

INSTALLATION

Installation is in the reverse order of removal.

- When installing the radiator core support, tighten the core support bolts in the sequence shown.

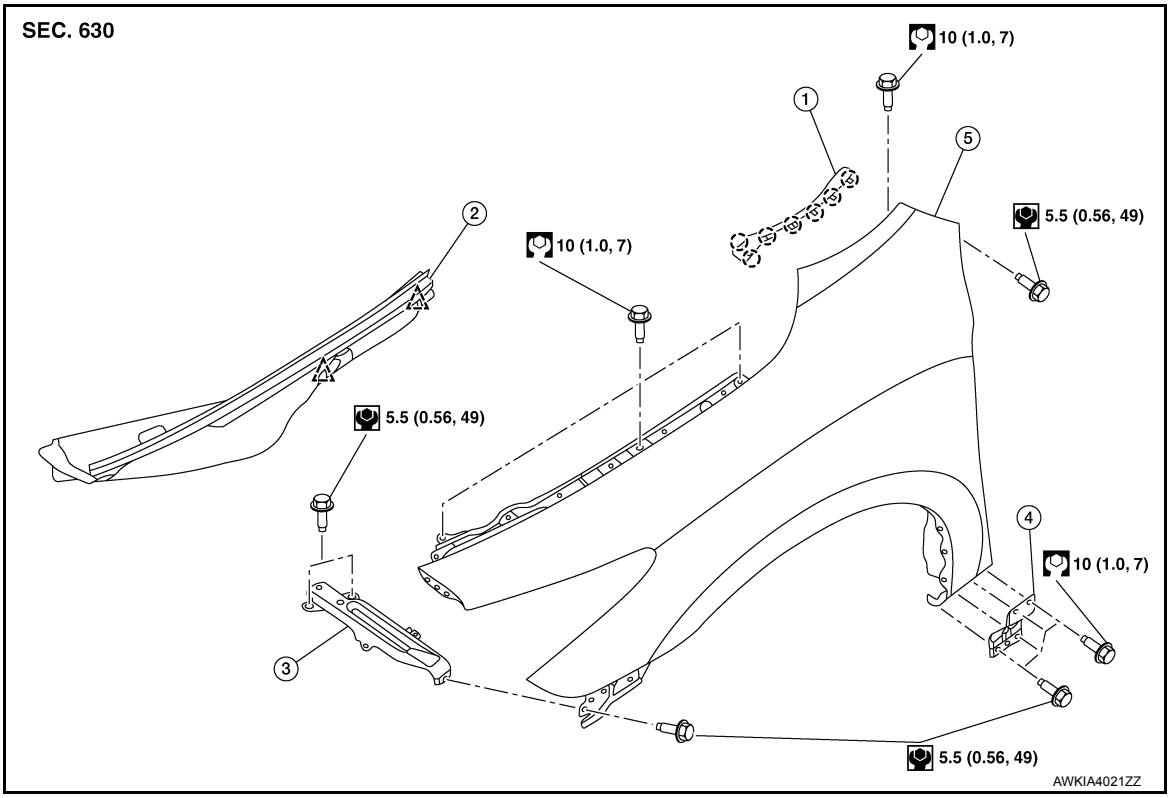
SEC. 625



FRONT FENDER

Exploded View

INFOID:0000000012852133



1. Cowl top side trim cover
2. Hoodledge finisher
3. Front fender bracket
4. Front fender lower bracket
5. Front fender
- Pawl
- Clip

FRONT FENDER

FRONT FENDER : Removal and Installation

INFOID:0000000012852134

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

REMOVAL

1. Remove front fender protector. Refer to EXT-28, "FENDER PROTECTOR : Removal and Installation".
2. Remove front combination lamp. Refer to EXL-148, "Removal and Installation".
3. Release the clips and pawls using a suitable tool and remove hoodledge finisher.
4. Remove front fender outside lower molding. Refer to EXT-40, "Removal and Installation".
5. Remove front fender bolts and front fender.
   CAUTION:
   Use care when removing the front fender. The front fender baffle foam adheres the front fender to the body side outer. Carefully release the baffle foam or damage to the front fender may occur.

INSTALLATION

Installation is in the reverse order of removal.

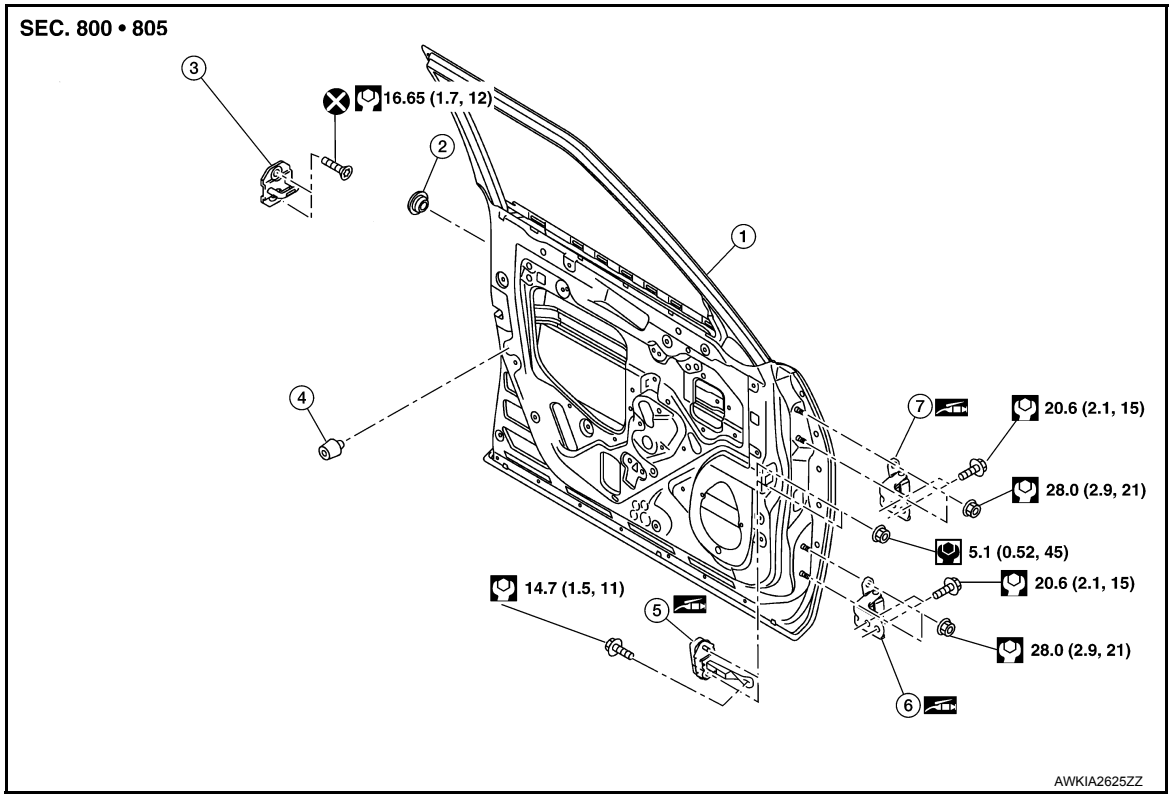
CAUTION:

- **After installation apply touch up paint (body color) to the head of front fender bolts.**
- **After installation, adjust the following components as necessary:**
- **Hood assembly: Refer to DLK-245, "HOOD ASSEMBLY : Adjustment".**
- **Front door: Refer to DLK-253, "DOOR ASSEMBLY : Adjustment".**

FRONT DOOR

Exploded View

INFOID:0000000012852135



1. Front door panel
2. Grommet
3. Front door striker
4. Bumper rubber
5. Door check link
6. Front door lower hinge
7. Front door upper hinge

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

INFOID:0000000012852136

CAUTION:
- **Use two people when removing or installing the front door due to its heavy weight.**
- **When removing and installing front door assembly, support front door with a suitable tool.**

REMOVAL

1. Disconnect the battery negative and positive terminals and wait at least three minutes. Refer to PG-147, "Removal and Installation".
2. Remove front door finisher. Refer to INT-15, "Removal and Installation".
3. Disconnect the harness connectors from the front door.
4. Remove front door harness grommet, then harness from the front door.
5. Remove front door check link bolt from the body.
6. Remove front door hinge nuts (door side) and front door assembly.

INSTALLATION

Installation is in the reverse order of removal.

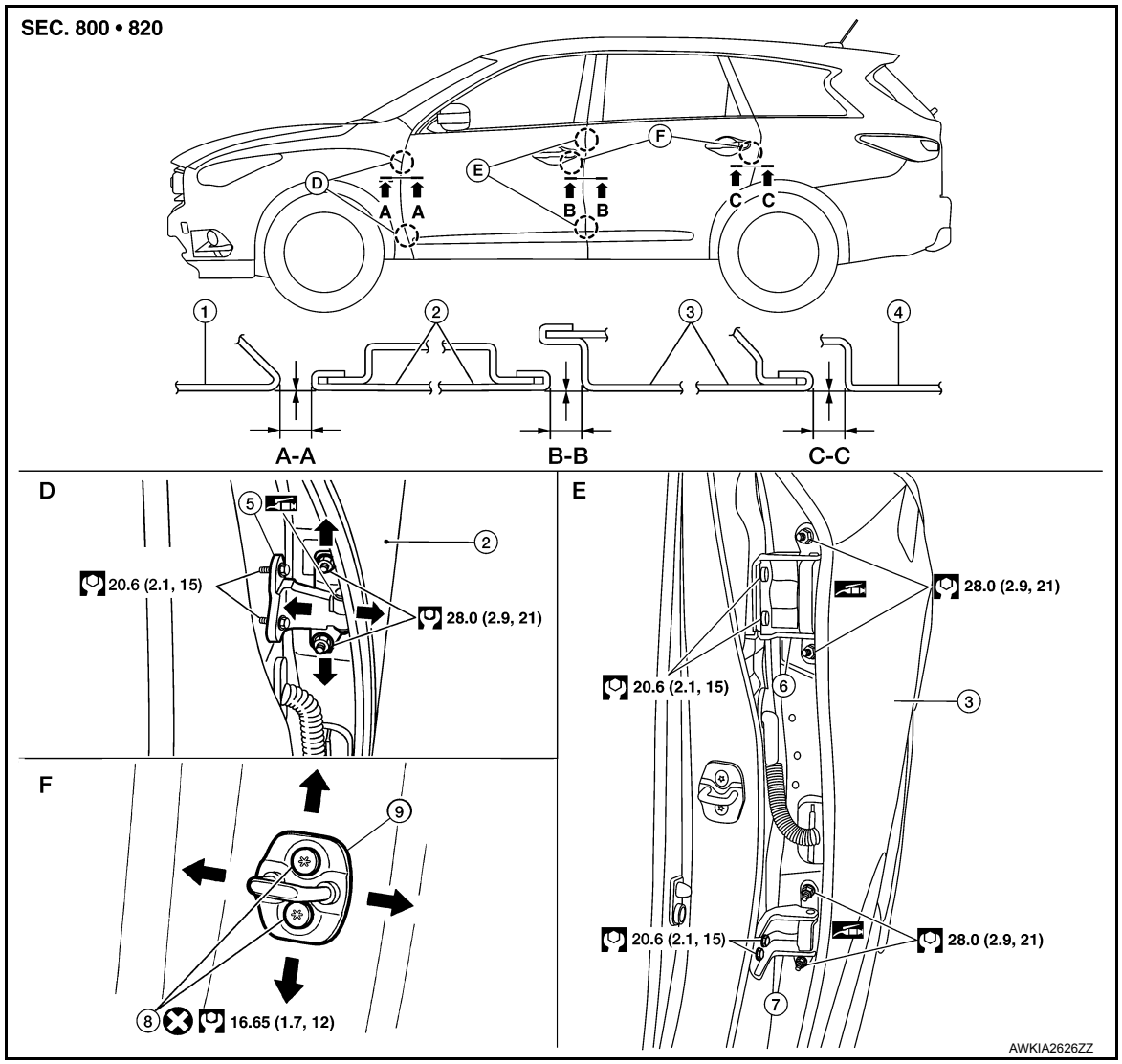
CAUTION:
- **Apply anticorrosive agent onto the surface.**
- **After installation, check front door open/close and lock/unlock operation.**
- **After installation, perform the front door adjustment procedure. Refer to DLK-253, "DOOR ASSEMBLY : Adjustment".**

- **Perform camera image calibration (with around view monitor). Refer to AV-484, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description" (BOSE AUDIO W/NAVI W/O SURROUND) or AV-779, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description" (BOSE AUDIO W/NAVI W/SURROUND).**

DOOR ASSEMBLY : Adjustment

INFOID:0000000012852137

Adjustment



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

Check the clearance and surface height between front door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm (in)

Portion	Section	Measurement	Gap measurement
Front fender – Front door	A – A	Clearance	3.8 ± 1.0 (0.15 ± 0.04)
		Surface height	± 1.0 (± 0.04)
Front door – Rear door	B – B	Clearance	4.1 ± 1.0 (0.16 ± 0.04)
		Surface height	± 1.0 (± 0.04)

Portion	Section	Measurement	Gap measurement
Rear door – Body side outer	C – C	Clearance	3.7 ± 1.0 (0.15 ± 0.04)
		Surface height	± 1.0 (± 0.04)

1. Remove front fender. Refer to DLK-251, "FRONT FENDER : Removal and Installation".
2. Loosen front door hinge nuts on door side.
3. Adjust the surface height of front door according to the specifications provided.
4. Temporarily tighten front door hinge nuts on door side.
5. Loosen front door hinge bolts on body side.
6. Raise front door at rear end to adjust clearance of the front door according to the specifications provided.
7. After adjustment tighten bolts and nuts to the specified torque.
   CAUTION:
   - **Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.**
   - **After adjusting, apply touch-up paint (body color) to the head of front door hinge bolts and nuts.**
8. Install front fender. Refer to DLK-251, "FRONT FENDER : Removal and Installation".

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:0000000012852138

REMOVAL

Remove bolts and front door striker.

INSTALLATION

Installation is in the reverse order of removal.

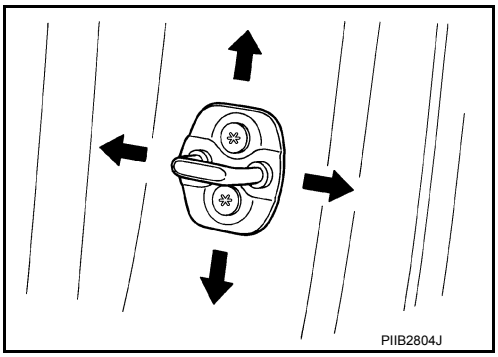
CAUTION:
- **Do not reuse front door striker bolts.**
- **After installation, check front door open/close operation. If necessary, adjust the front door striker. Refer to DLK-254, "DOOR STRIKER : Adjustment".**

DOOR STRIKER : Adjustment

INFOID:0000000012852139

DOOR STRIKER ADJUSTMENT

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



3. Tighten door striker bolts to specification. Refer to DLK-252, "Exploded View".

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:0000000012852140

REMOVAL

CAUTION:
- **Use two people when removing and installing the front door due to its heavy weight.**
- **When removing and installing front door assembly, support door using a suitable tool.**

1. Remove front fender. Refer to DLK-251, "FRONT FENDER : Removal and Installation".
2. Remove front door assembly. Refer to DLK-252, "DOOR ASSEMBLY : Removal and Installation".
3. Remove front door hinge bolts (body side) and front door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Apply anticorrosive agent onto the hinge mating surface.**
- **After installation, check front door open/close and lock/unlock operation.**
- **Check door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.**
- **After installation, perform the front door adjustment procedure. Refer to DLK-253, "DOOR ASSEMBLY : Adjustment".**

DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:0000000012852141

REMOVAL

1. Fully close the front door window.
2. Remove front door speaker. Refer to AV-139, "Removal and Installation" (BASE AUDIO), AV-339, "Removal and Installation" (BOSE AUDIO WITHOUT NAVIGATION), AV-625, "Removal and Installation" (BOSE AUDIO W/NAVI W/O SURROUND SOUND) or AV-921, "Removal and Installation" (BOSE AUDIO W/NAVI W/SURROUND).
3. Remove door check link bolt (body side).
4. Remove door check link nuts (door side).
5. Remove door check link through the hole in door panel.

INSTALLATION

Installation is in the reverse order of removal.

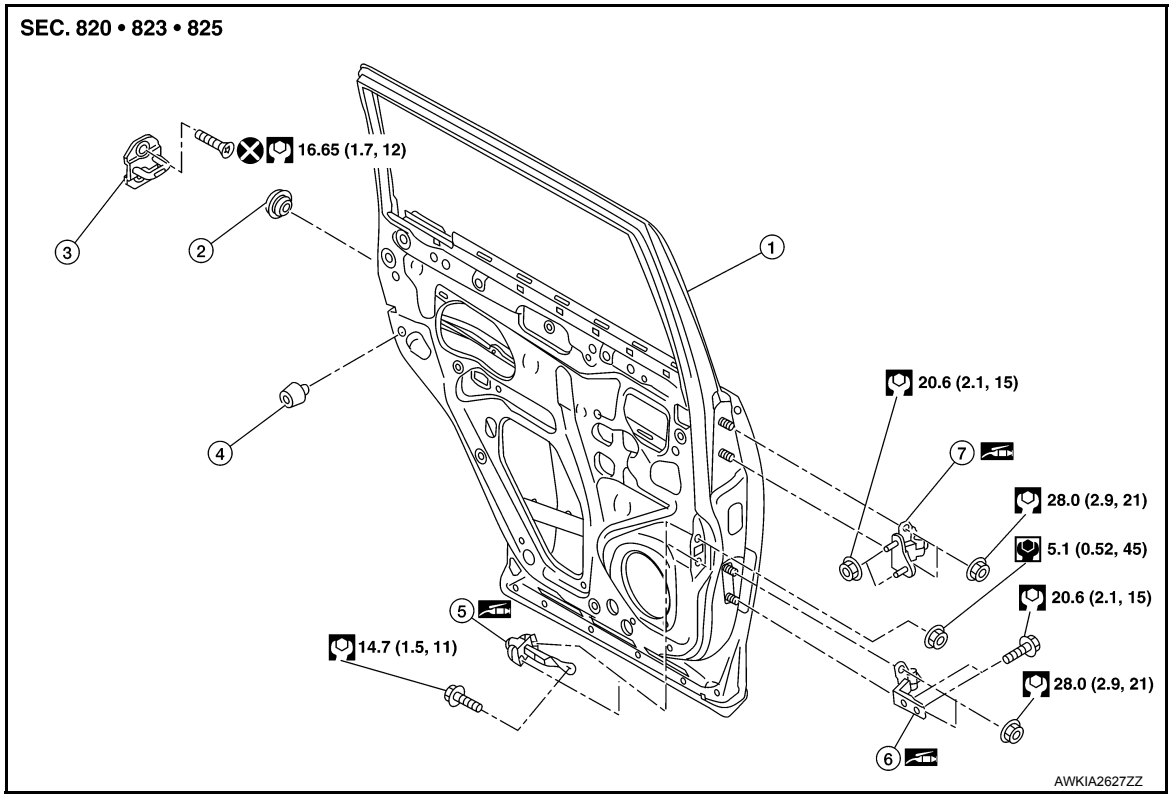
CAUTION:

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

REAR DOOR

Exploded View

INFOID:0000000012852142



1. Rear door panel
2. Grommet
3. Door striker
4. Bumper rubber
5. Door check link
6. Rear door lower hinge
7. Rear door upper hinge

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

INFOID:0000000012852143

CAUTION:
- **Use two people when removing or installing the rear door due to its heavy weight.**
- **When removing and installing rear door assembly, support rear door using a suitable tool.**

REMOVAL

1. Remove rear door finisher. Refer to DLK-256, "DOOR ASSEMBLY : Removal and Installation".
2. Disconnect the harness connectors from rear door.
3. Remove harness grommet from rear door and then pull out rear door harness from the rear door.
4. Remove rear door check link bolt from body.
5. Remove rear door hinge nuts (door side) and rear door assembly.

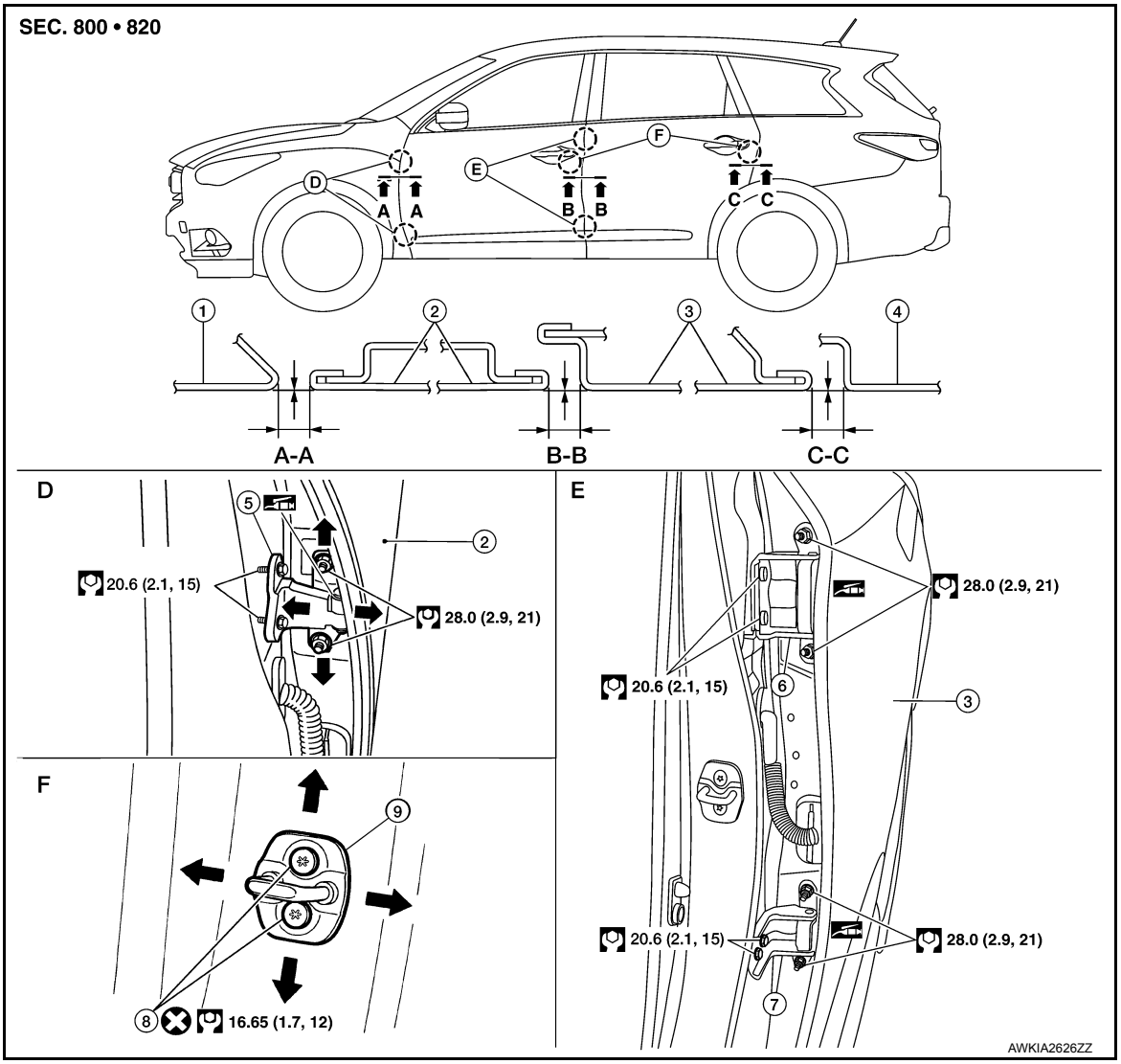
INSTALLATION

Installation is in the reverse order of removal.

CAUTION:
- **Apply anticorrosive agent onto the surface.**
- **After installation, check rear door open/close and lock/unlock operation.**
- **After installation, perform the rear door adjustment procedure. Refer to DLK-257, "DOOR ASSEMBLY : Adjustment".**

DOOR ASSEMBLY : Adjustment

INFOID:0000000012852144



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

Check the clearance and surface height between rear door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Portion	Section	Measurement	Gap measurement
Front fender – Front door	A – A	Clearance	3.8 ± 1.0 (0.15 ± 0.04)
		Surface height	± 1.0 (± 0.04)
Front door – Rear door	B – B	Clearance	4.1 ± 1.0 (0.16 ± 0.04)
		Surface height	± 1.0 (± 0.04)
Rear door – Body side outer	C – C	Clearance	3.7 ± 1.0 (0.15 ± 0.04)
		Surface height	± 1.0 (± 0.04)

1. Remove center pillar lower finisher. Refer to INT-21, "CENTER PILLAR LOWER FINISHER : Removal and Installation".

2. Loosen rear door hinge nuts on rear door side.
3. Adjust the surface height of rear door according to specifications provided.
4. Temporarily tighten rear door hinge nuts on rear door side.
5. Loosen rear door hinge nuts and bolts on body side.
6. Raise rear door at rear end to adjust clearance of rear door according to the specifications provided.
7. After adjustment tighten bolts and nuts to the specified torque.
   CAUTION:
   - **Check rear door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.**
   - **After adjusting, apply touch-up paint (body color) to the head of rear door hinge bolts and nuts.**
8. Install center pillar lower finisher. Refer to INT-21, "CENTER PILLAR LOWER FINISHER : Removal and Installation".

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:0000000012852145

REMOVAL

Remove bolts and rear door striker.

INSTALLATION

Installation is in the reverse order of removal.

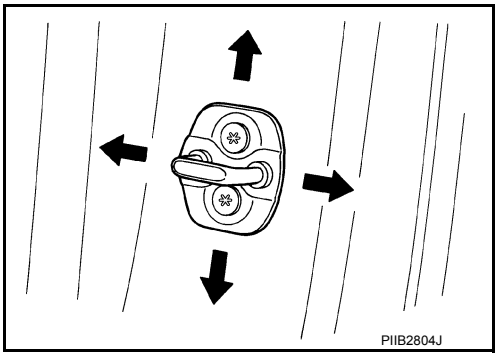
CAUTION:
- **Do not reuse rear door striker bolts.**
- **After installation, check rear door open/close operation. If necessary, adjust the door striker. Refer to DLK-258, "DOOR STRIKER : Adjustment".**

DOOR STRIKER : Adjustment

INFOID:0000000012852146

DOOR STRIKER ADJUSTMENT

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



3. Tighten door striker bolts to specification. Refer to DLK-256, "Exploded View".

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:0000000012852147

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 assembly. Refer to DLK-256, "DOOR ASSEMBLY : Removal and Installation".
2. Remove center pillar lower finisher. Refer to INT-21, "CENTER PILLAR LOWER FINISHER : Removal and Installation".
3. Remove rear door hinge bolts and nuts and rear door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Apply anticorrosive agent onto the hinge mating surface.**
- **After installation, check rear door open/close and lock/unlock operation.**
- **After installation, perform the rear door adjustment procedure. Refer to DLK-257, "DOOR ASSEMBLY : Adjustment".**

DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:0000000012852148

REMOVAL

1. Fully close the rear door window.
2. Remove rear door speaker. Refer to AV-141, "Removal and Installation" (BASE AUDIO), AV-343, "Removal and Installation" (BOSE AUDIO WITHOUT NAVIGATION), AV-629, "Removal and Installation" (BOSE AUDIO W/NAVI W/O SURROUND) or AV-925, "Removal and Installation" (BOSE AUDIO W/NAVI W/SURROUND).
3. Remove rear door check link bolt (body side).
4. Remove rear door check link nuts (door side).
5. Remove rear door check link through the hole in rear door panel.

INSTALLATION

Installation is in the reverse order of removal.

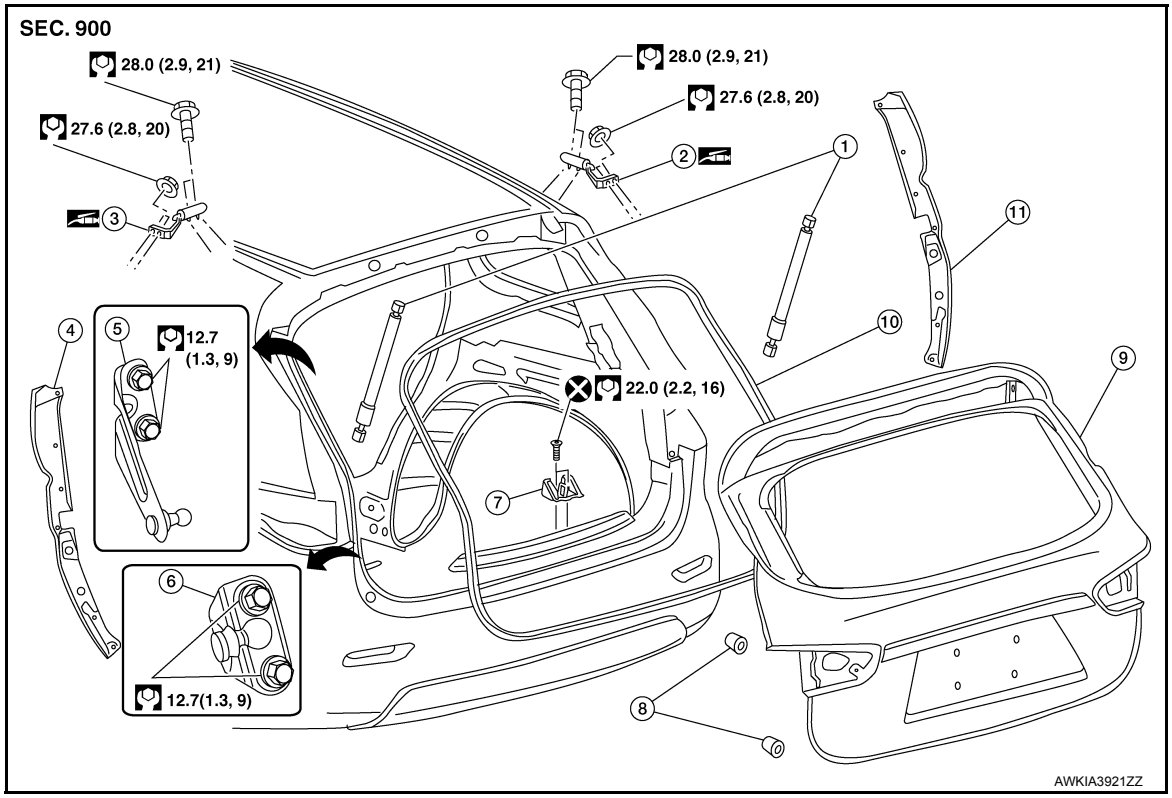
CAUTION:

- **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.**

BACK DOOR

Exploded View

INFOID:0000000012852149



1. Spindle unit (LH/RH)
2. Back door hinge (RH)
3. Back door hinge (LH)
4. Back door touch sensor (LH)
5. Spindle unit upper hinge
6. Spindle unit lower hinge
7. Back door striker
8. Bumper rubber
9. Back door assembly
10. Back door weatherstrip
11. Back door touch sensor (RH)

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:0000000012852150

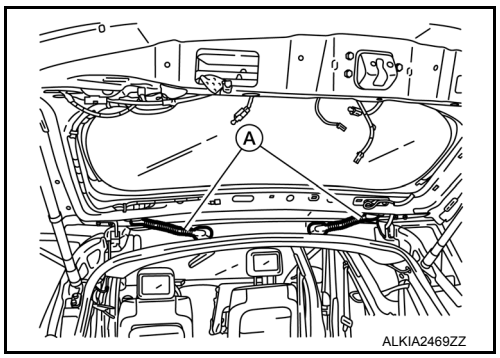
CAUTION:
- **Use two people when removing or installing the back door due to its heavy weight.**
- **Use shop cloths to protect surrounding components from damage during removal and installation of back door.**

REMOVAL

1. Support the back door assembly using a suitable tool.

   WARNING:
   Bodily injury may occur if back door assembly is not supported properly when removing the back door spindle unit.
2. Remove back door spindle units (LH/RH). Refer to DLK-264, "SPINDLE UNIT : Removal and Installation".
3. Remove roof side moldings (LH/RH). Refer to EXT-31, "Removal and Installation".

4. Disconnect harness connectors (A) from back door.



5. Remove back door harness grommet, then pull harness from the back door.
6. Disconnect washer tube.
7. Remove washer tube grommet and washer tube from the back door.
8. Remove back door hinge nuts and back door assembly.

INSTALLATION

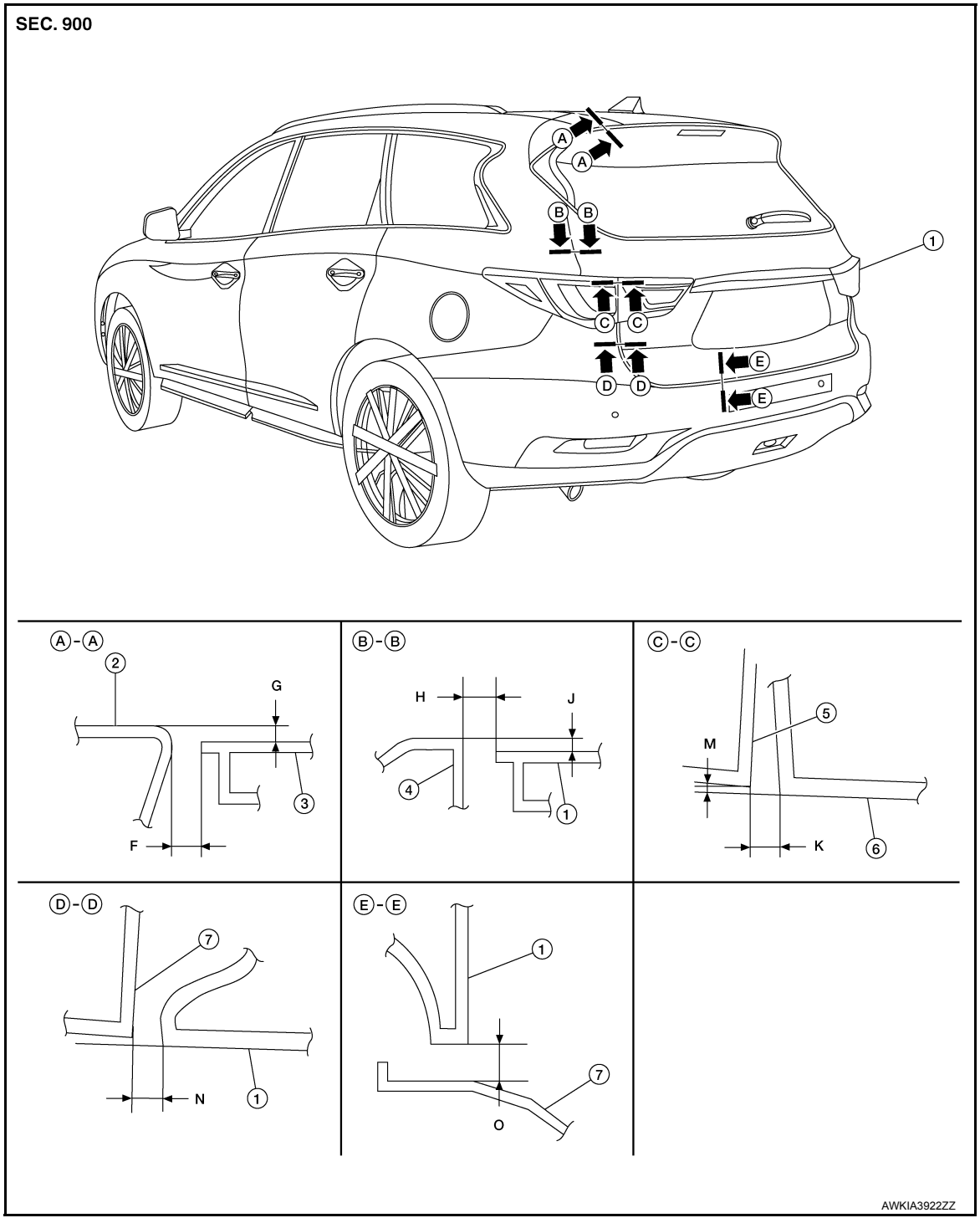
Installation is in the reverse order of removal.

CAUTION:

- **Apply anticorrosive agent onto the surface.**
- **When reusing stud ball, always apply locking sealant before installing stud ball to back door.**
- **After installation, perform the back door assembly adjustment procedure. Refer to DLK-262, "BACK DOOR ASSEMBLY : Adjustment".**
- **Perform camera image calibration (with around view monitor). Refer to AV-484, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description" (BOSE AUDIO W/O SURROUND SOUND) or AV-779, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description" (BOSE AUDIO WITH SURROUND SOUND).**

BACK DOOR ASSEMBLY : Adjustment

INFOID:0000000012852151



1. Back door assembly
2. Roof panel
3. Rear spoiler
4. Body side outer
5. Rear combination lamp
6. Back-up lamp
7. Rear bumper fascia

Check the clearance and the surface height between back door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm (in)

Portion	Section	Item	Measurement	Standard	Difference (LH/RH, MAX)
Roof panel – Rear spoiler	A – A	F	Clearance	7.0 ± 1.5 (0.28 ± 0.06)	—
		G	Surface height	1.5 ± 1.5 (0.06 ± 0.06)	—
Body side outer – Back door assembly	B – B	H	Clearance	5.0 ± 2.0 (0.20 ± 0.08)	≤2.0 (0.08)
		J	Surface height	0.8 ± 2.0 (0.03 ± 0.08)	≤2.0 (0.08)
Rear combination lamp – Back-up lamp	C – C	K	Clearance	5.0 ± 2.0 (0.20 ± 0.08)	≤2.3 (0.09)
		M	Surface height	0.0 ± 2.1 (0.0 ± 0.08)	≤2.5 (0.10)
Rear bumper fascia – Back door assembly	D – D	N	Clearance	7.0 ± 2.0 (0.28 ± 0.08)	—
Rear bumper fascia – Back door assembly	E – E	O	Clearance	5.0 ± 2.0 (0.20 ± 0.08)	≤2.0 (0.08)

1. Remove roof side molding. Refer to EXT-31, "Removal and Installation".
2. Loosen back door hinge nuts (door side).
3. 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.
4. Check the clearance and surface height according to the specifications provided.
5. Tighten back door hinge nuts and back door striker bolts to specified torque.
   CAUTION:
   - **After installation, check back door open/close, lock/unlock operation.**
   - **Check back door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.**
   - **After adjusting, apply touch-up paint (body color) to the head of rear door hinge bolts and nuts.**
   - **When removing or replacing back door assembly it is necessary to perform calibration of back door position. Refer to DLK-118, "Description".**
6. Install roof side molding. Refer to. EXT-31, "Removal and Installation".

BACK DOOR STRIKER

BACK DOOR STRIKER : Removal and Installation

INFOID:0000000012852152

REMOVAL

1. Remove back door kicking plate. Refer to INT-36, "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.**
- **After installation, check back door open/close operation. If necessary, adjust the door striker. Refer to DLK-263, "BACK DOOR STRIKER : Adjustment".**
- **When removing or replacing back door striker, it is necessary to perform calibration of back door position. Refer to DLK-118, "Description".**

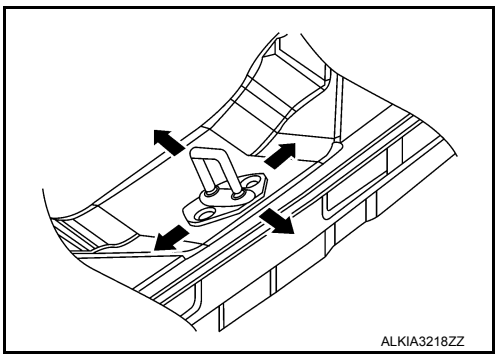
BACK DOOR STRIKER : Adjustment

INFOID:0000000012852153

DOOR STRIKER ADJUSTMENT

1. Loosen door striker bolts

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



3. Tighten door striker bolts to specification. Refer to DLK-260, "Exploded View".

BACK DOOR HINGE

BACK DOOR HINGE : Removal and Installation

INFOID:0000000012852154

CAUTION:
- **Use two people when removing or installing the back door due to its heavy weight.**
- **Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of back door.**

REMOVAL

1. Remove back door assembly. Refer to DLK-260, "BACK DOOR ASSEMBLY : Removal and Installation".
2. Remove back door hinge bolts (body side) and back door hinge.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:
- **Apply anticorrosive agent onto the surface.**
- **After installation, perform the back door assembly adjustment procedure. Refer to DLK-262, "BACK DOOR ASSEMBLY : Adjustment".**

SPINDLE UNIT

SPINDLE UNIT : Removal and Installation

INFOID:0000000012852155

REMOVAL

1. Support back door using a suitable tool.

   WARNING:
   Bodily injury may occur if the back door is not supported properly when removing the back door spindle unit.
2. Partially remove headlining (rear edge).
3. Disconnect the harness connector from the spindle unit.
4. Release spindle unit from stud balls and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:
- **When reusing stud ball, always apply locking sealant before installing stud ball to back door.**
- **After installation, check back door open/close and lock/unlock operation.**
- **When removing or replacing spindle unit, it is necessary to perform calibration of back door position. Refer to DLK-118, "Description".**

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000012852156

REMOVAL

Carefully remove back door weather-strip from opening door joint.

INSTALLATION

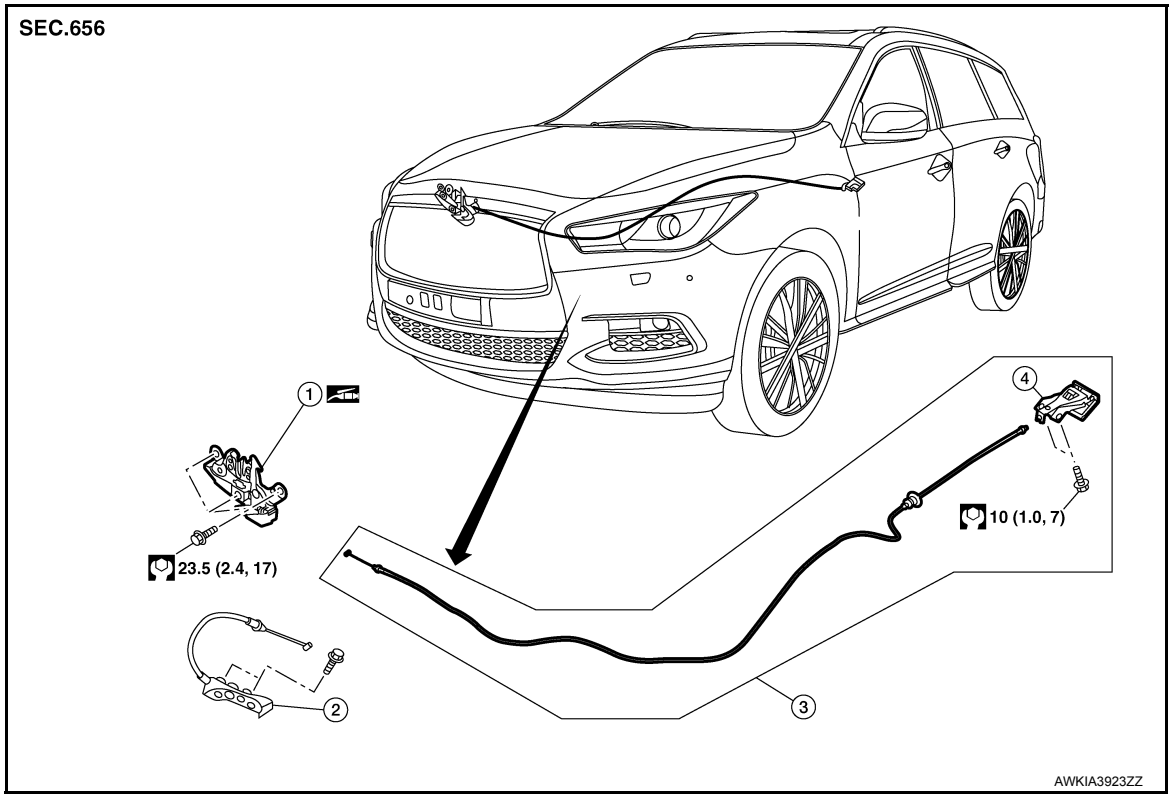
1. Beginning with upper section, align weather-strip mark with vehicle center position mark and install weather strip to the vehicle.
2. For the lower section, align weather-strip seam with center of back door striker.

NOTE:
Pull weather-strip gently to ensure that there are no loose sections.

HOOD LOCK

Exploded View

INFOID:0000000012852157



1. Hood lock assembly
2. Secondary latch
3. Hood lock release cable
4. Hood lock release lever

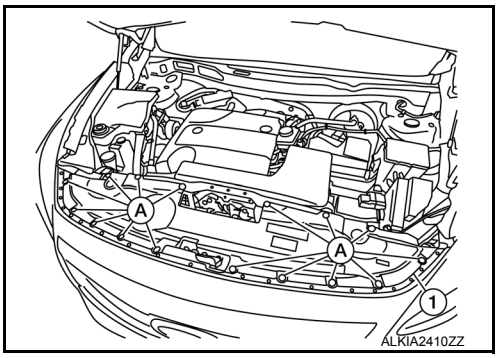
HOOD LOCK

HOOD LOCK : Removal and Installation

INFOID:0000000012852158

REMOVAL

1. Remove the core support cover clips (A), then remove the core support cover (1).



2. Remove front air duct. Refer to EM-24, "Removal and Installation".
3. Disconnect the harness connector from the hood lock.
4. Remove hood lock assembly bolts.
5. Disconnect hood lock release cable and secondary latch cable from hood lock assembly and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Be careful not to bend cable too much, keeping the radius 100 mm (3.94 in) or more.**
- **Check that hood lock release cable and secondary latch cable are properly engaged with hood lock assembly.**
- **After installation, perform hood assembly adjustment procedure. Refer to DLK-245, "HOOD ASSEMBLY : Adjustment".**
- **After adjusting, perform hood lock inspection. Refer to DLK-267, "HOOD LOCK : Inspection".**

HOOD LOCK : Inspection

INFOID:0000000012852159

NOTE:
If the hood lock cable is bent or deformed, replace it.

1. Check that secondary latch is properly engaged with secondary striker with hoods own weight.
2. While operating hood lock release handle, carefully check that the front end of hood assembly is raised by approximately 20.0 mm (0.79 in). Also check that hood lock release handle returns to the original position.
3. Check that hood lock release handle operates at 49 N (5.0 kg-m, 11.0 ft-lb) or below.
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 the hood lock lubrication condition. If necessary, apply a suitable multi-purpose grease to hood lock assembly.

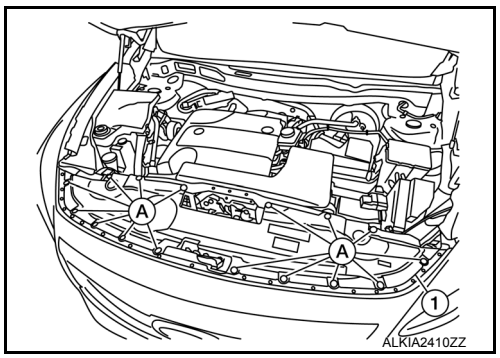
SECONDARY LATCH

SECONDARY LATCH : Removal and Installation

INFOID:0000000012852160

REMOVAL

1. Remove the core support cover clips (A), then remove the core support cover (1).



2. Disconnect secondary latch cable from hood lock assembly.
3. Remove bolts and secondary latch.

INSTALLATION

Installation is in the reverse order of removal.

HOOD LOCK RELEASE CABLE

HOOD LOCK RELEASE CABLE : Removal and Installation

INFOID:0000000012852161

REMOVAL

1. Remove fender protector (LH). Refer to EXT-28, "FENDER PROTECTOR : Removal and Installation".
2. Remove front under cover. Refer to EXT-30, "Removal and Installation".
3. Remove front air duct. Refer to EM-24, "Exploded View".
4. Remove radiator core support upper cover. Refer to EXT-16, "Exploded View".
5. Disconnect hood lock release cable from hood lock release handle and hood lock assembly.
6. Release all hood lock release cable clips using a suitable tool.
7. Remove grommet on the lower dash, and carefully pull the hood lock release cable into the passenger compartment.

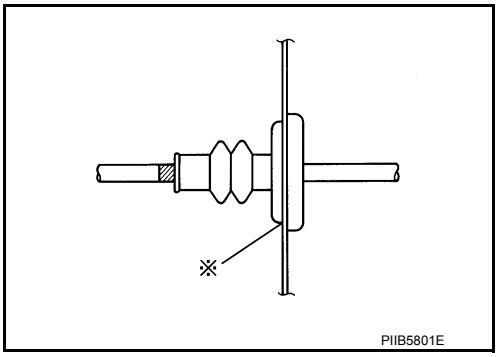
CAUTION:
While pulling, be careful not to damage (peel) the outside of hood lock release cable.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Be careful not to bend cable too much, keep the radius 100 mm (3.94 in) or more.**
- **Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (at * mark) properly.**



- **Check that hood lock release cable is properly engaged with hood lock release handle and hood lock assembly.**
- **After installation, perform hood assembly adjustment procedure. Refer to DLK-245, "HOOD ASSEMBLY : Adjustment".**
- **After adjusting, perform hood lock inspection. Refer to DLK-267, "HOOD LOCK : Inspection".**

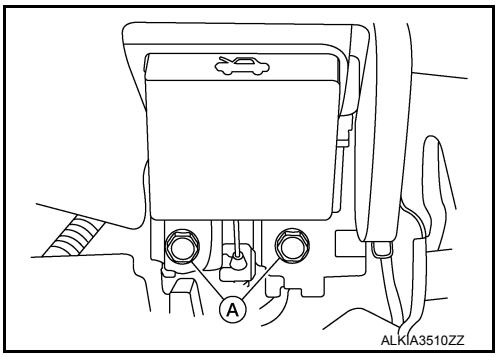
HOOD LOCK RELEASE HANDLE

HOOD LOCK RELEASE HANDLE : Removal and Installation

INFOID:0000000013517869

REMOVAL

1. Remove hood lock release handle bolts (A).



2. Disconnect the hood lock release cable from hood lock release handle and remove.

INSTALLATION

Installation is in the reverse order of removal.

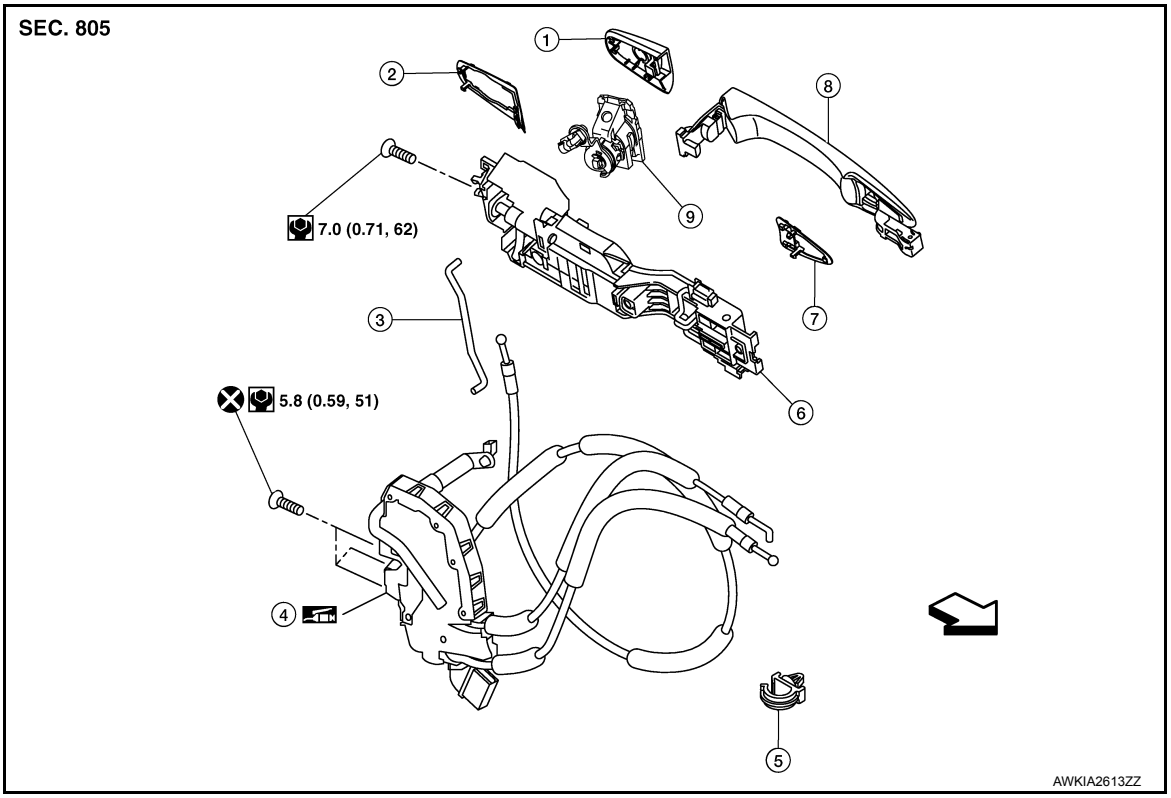
CAUTION:

Tighten bolts to specification. Refer to DLK-266, "Exploded View".

FRONT DOOR LOCK

Exploded View

INFOID:0000000012852162



1. Outside handle escutcheon
2. Rear gasket
3. Door key cylinder rod (LH only)
4. Front door lock
5. Cable clip
6. Outside handle bracket
7. Front gasket
8. Outside handle
9. Door key cylinder (LH only)

⇦ Front

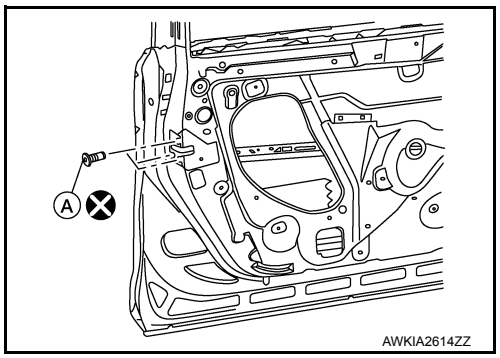
DOOR LOCK

DOOR LOCK : Removal and Installation

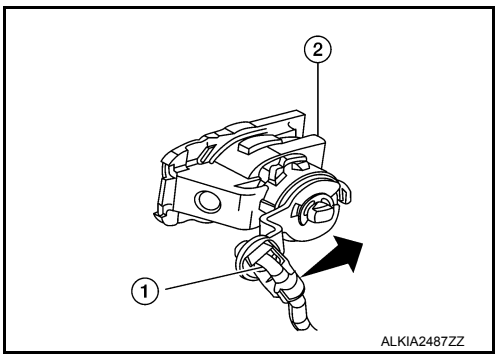
INFOID:0000000012852163

REMOVAL

1. Remove front door finisher. Refer to INT-15, "Removal and Installation".
2. Remove vapor barrier.
3. Remove front door lock bolts (A).



4. Disconnect door key cylinder rod (LH only) (1) from door key cylinder (LH only) (2).



5. Disconnect the door lock cables.
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 door lock assembly bolts.**
- **After installation, check door lock cables are properly engaged to inside handle and outside handle bracket.**
- **When installing door key cylinder rod (LH only), be sure to rotate door key cylinder rod holder until a click is felt.**
- **After installation, check door open/close and lock/unlock operation.**
- **Check door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease.**

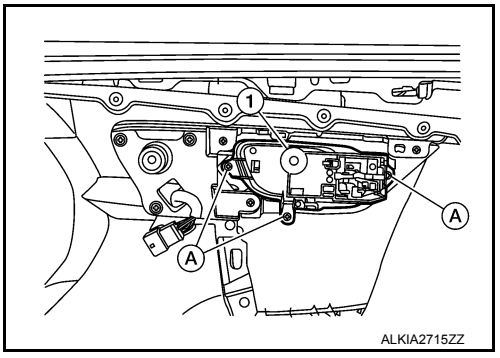
INSIDE HANDLE

INSIDE HANDLE : Removal and Installation

INFOID:0000000012852164

REMOVAL

1. Remove front door finisher. Refer to INT-15, "Removal and Installation".
2. Remove inside handle screws (A) and inside handle (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

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

OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

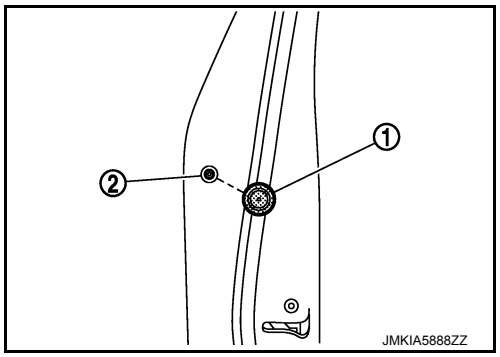
INFOID:0000000012852165

REMOVAL

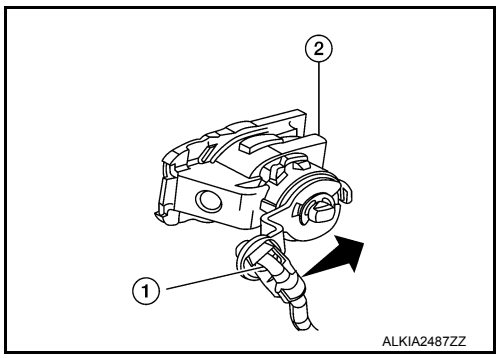
1. Fully close front door glass.
2. Remove front door finisher. Refer to INT-15, "Removal and Installation".
3. Remove vapor barrier.
   NOTE:

Cut the butyl tape so that some parts of the butyl tape remain on the vapor barrier, if the vapor barrier is reused.

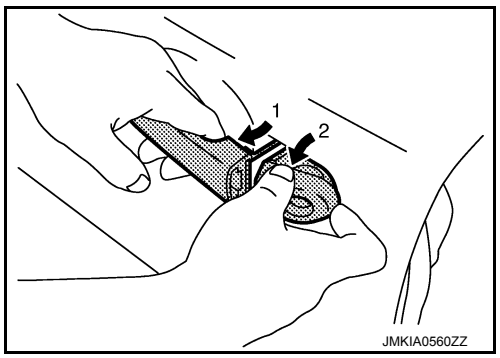
4. Disconnect the harness connectors from the Intelligent Key antenna and door request switch and then remove harness clamp on outside handle bracket.
5. Remove door side grommet (1), and loosen bolt from grommet hole (2).



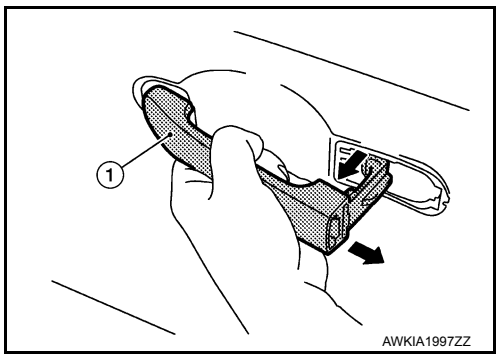
6. Separate door key cylinder rod (LH only) (1) from door key cylinder (LH only).



7. While pulling outside handle (1), remove door key cylinder (driver side) (2) or outside handle escutcheon (passenger side) (2).

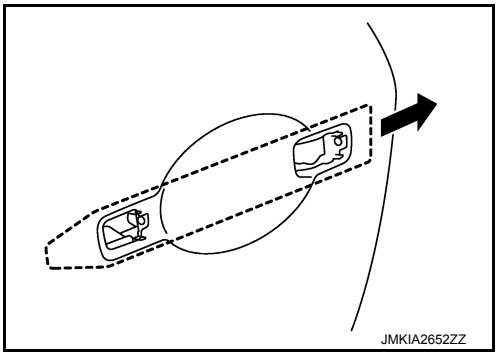


8. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.

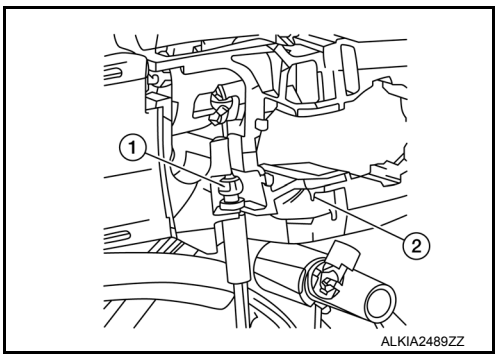


9. Remove front gasket and rear gasket.

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



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



INSTALLATION

Installation is in the reverse order of removal.

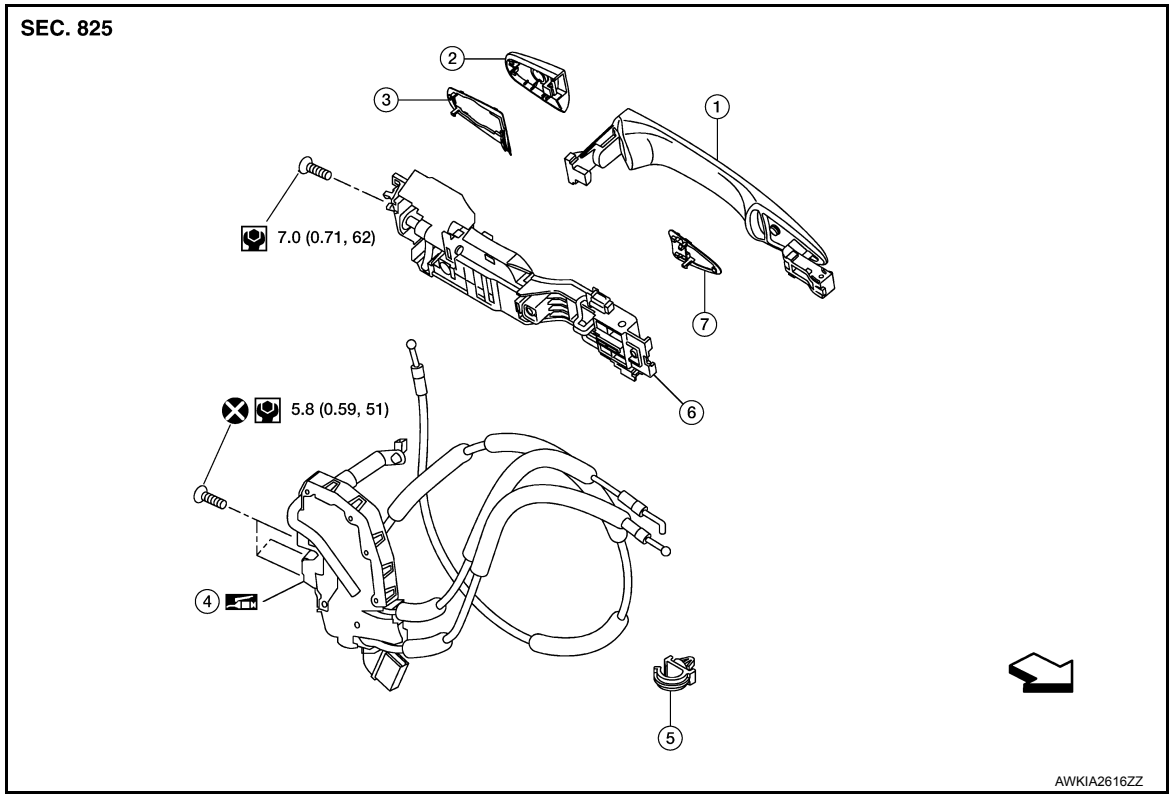
CAUTION:

- **When installing door key cylinder rod (LH only), be sure to rotate door key cylinder rod holder until a click is felt.**
- **After installation, check door lock cable is properly engaged to outside handle bracket.**
- **After installation, check door open/close and lock/unlock operation.**

REAR DOOR LOCK

Exploded View

INFOID:0000000012852166



1. Outside handle
2. Outside handle escutcheon
3. Rear gasket
4. Rear door lock
5. Cable clip
6. Outside handle bracket
7. Front gasket
⇦ Front

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:0000000012852167

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 the door lock cables.
5. Disconnect the harness connector from the rear door lock and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **Do not reuse rear door lock bolts.**
- **After installation, check door lock cables are properly engaged to inside handle and outside handle.**
- **After installation, check door open/close and lock/unlock operation.**

INSIDE HANDLE

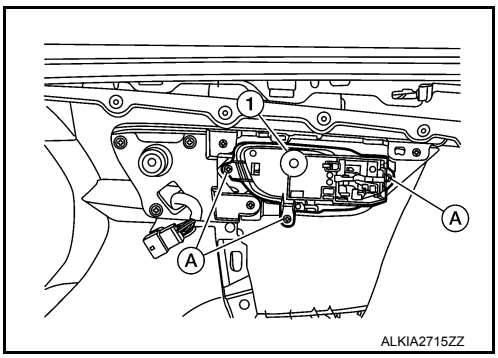
INSIDE HANDLE : Removal and Installation

INFOID:0000000012852168

REMOVAL

1. Remove rear door finisher. Refer to INT-17, "Removal and Installation".

2. Remove inside handle screw (A) and inside handle (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

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

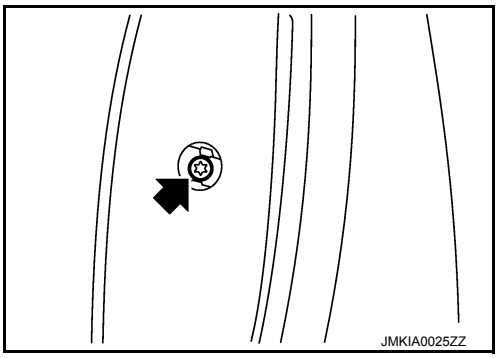
OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

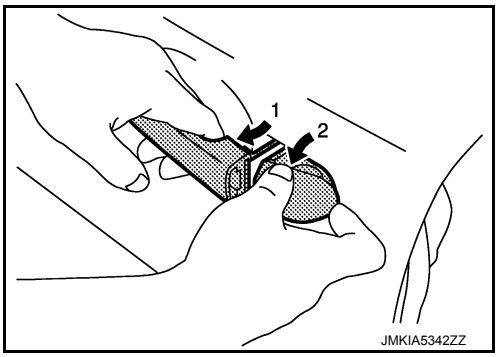
INFOID:0000000012852169

REMOVAL

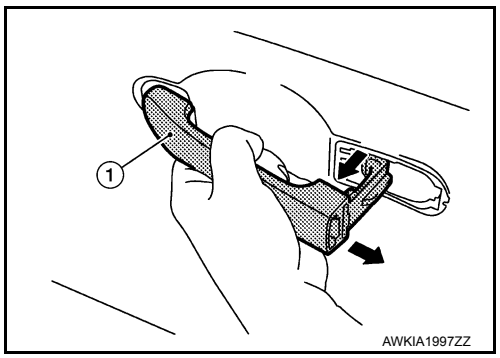
1. Fully close rear door glass.
2. Remove rear door finisher. Refer toINT-17, "Removal and Installation".
3. Remove vapor barrier.
   NOTE:
   Cut the butyl tape so that some parts of the butyl tape remain on the vapor barrier, if the vapor barrier is reused.
4. Remove door side grommet and bolt from grommet hole.



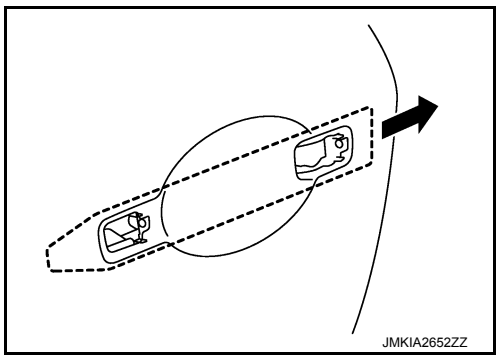
5. While pulling outside handle (1), remove outside handle escutcheon (2).



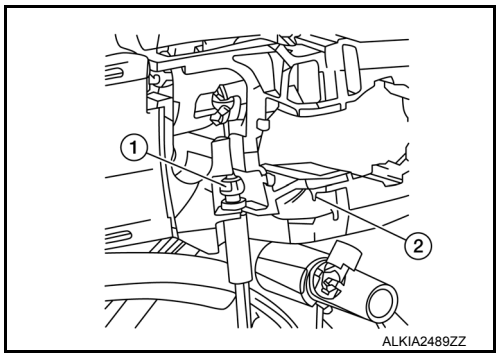
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket and rear gasket.
8. Slide outside handle bracket toward rear of vehicle to remove.



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



INSTALLATION

Installation in the reverse order of removal.

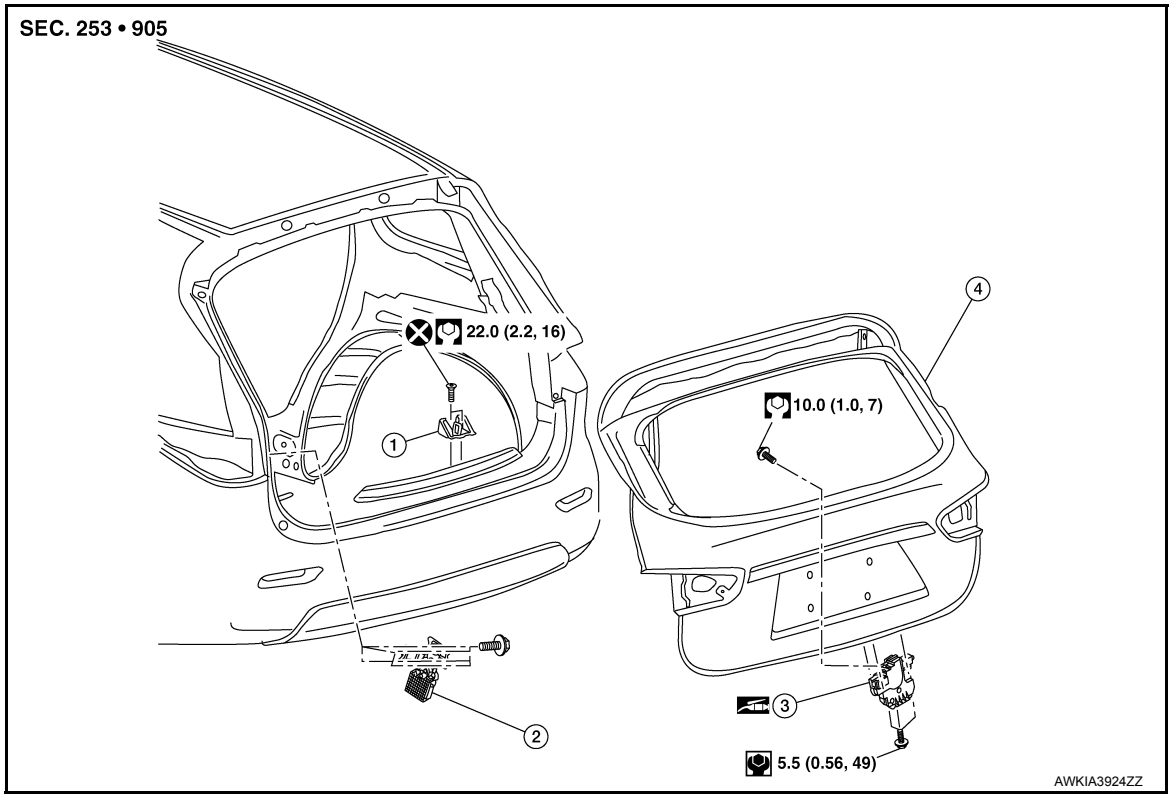
CAUTION:

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

BACK DOOR LOCK

Exploded View

INFOID:0000000012852170



1. Door striker
2. Automatic back door control module
3. Back door lock
4. Back door panel

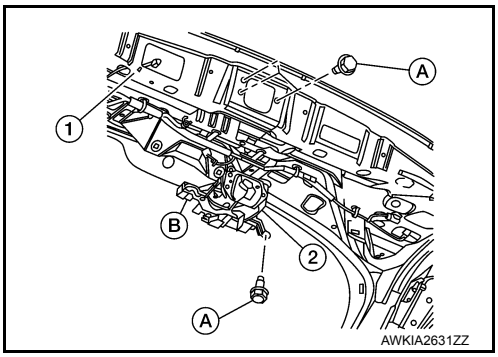
DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:0000000012852171

REMOVAL

1. Remove back door lower finisher. Refer to INT-35, "BACK DOOR LOWER FINISHER : Removal and Installation".
2. Disconnect harness connector (B) from the back door lock (2).
3. Remove back door lock bolts (A) and back door lock (2) from back door assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check back door open/close and lock/unlock operation.

TOUCH SENSOR

TOUCH SENSOR : Removal and Installation

INFOID:0000000012852172

CAUTION:
Use care not to bend touch sensor.

REMOVAL

1. Remove back door side finishers (LH/RH). Refer to INT-35, "BACK DOOR SIDE FINISHER : Removal and Installation".
2. Disconnect the harness from the touch sensor.
3. Release clips and remove screws that retain touch sensor.
4. Remove touch sensor harness from the back door assembly, then remove touch sensor.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:
After installation, check back door open/close and lock/unlock operation.

EMERGENCY LEVER

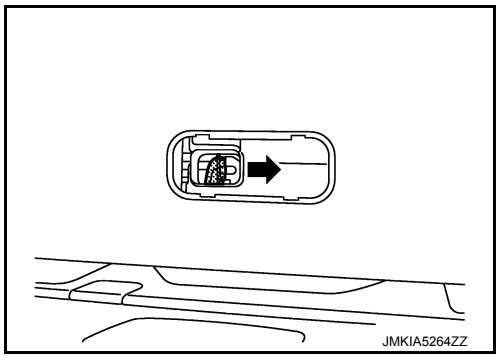
EMERGENCY LEVER : Unlock procedures

INFOID:0000000013648303

UNLOCK PROCEDURES

NOTE:
If back door lock cannot be unlocked due to a malfunction or battery discharge, perform the following procedures to unlock back door assembly.

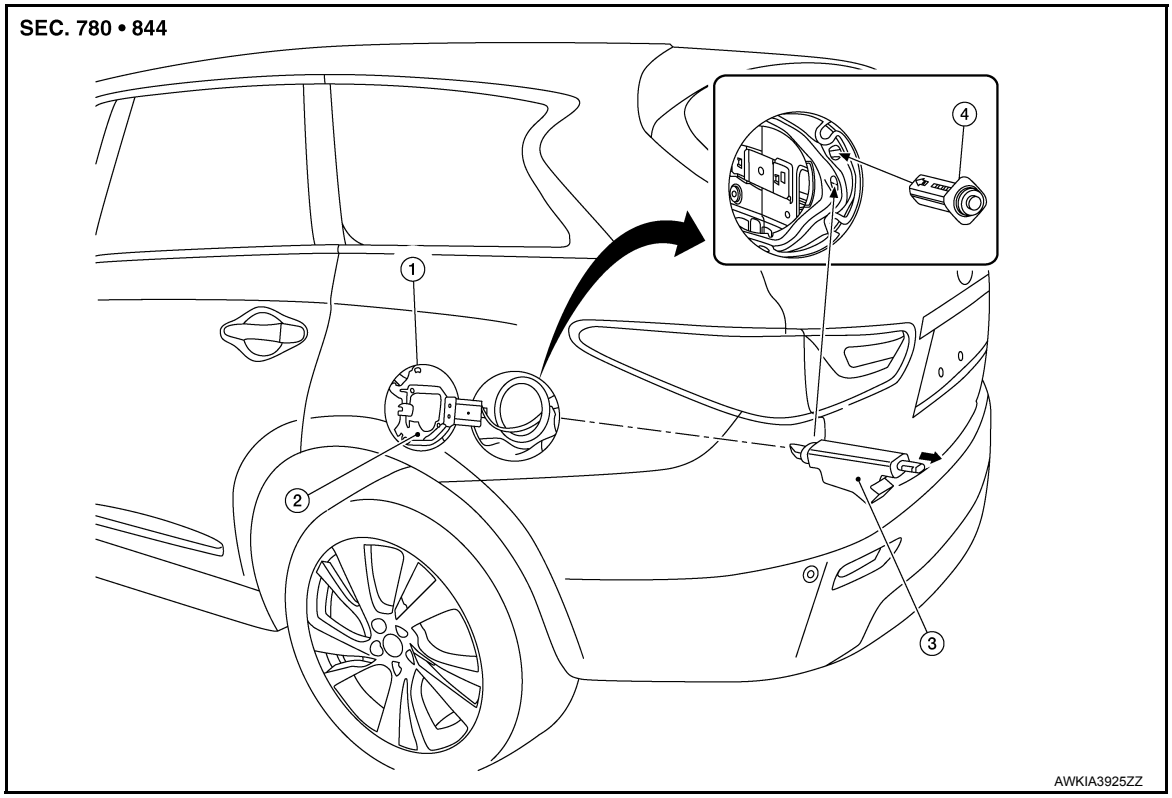
1. Remove the emergency handle mask, using a suitable tool to release.
2. From inside the vehicle, rotate emergency lever in the direction shown to unlock.



FUEL FILLER LID OPENER

Exploded View

INFOID:0000000012852173



1. Fuel lid bumper rubber
2. Fuel filler lid
3. Fuel filler lid lock actuator
4. Fuel filler lid lock

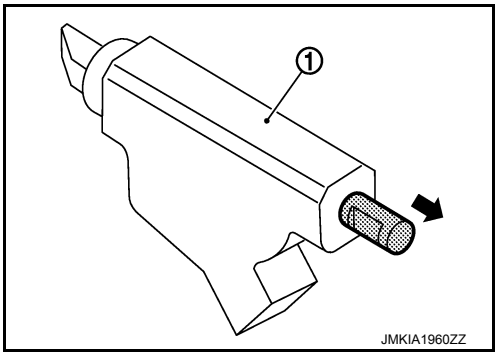
Removal and Installation

INFOID:0000000012852174

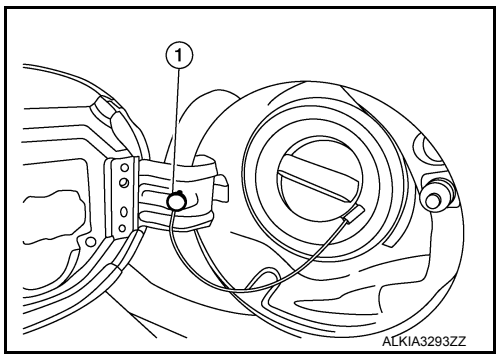
REMOVAL

NOTE:

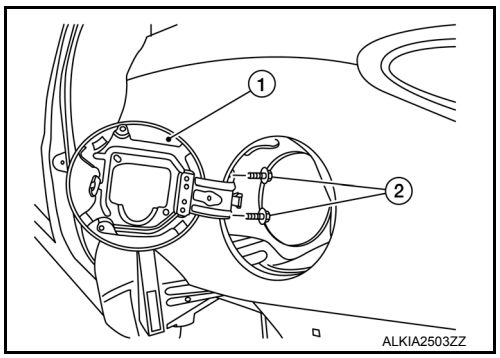
When fuel filler lid lock actuator (1) is not functioning correctly, pull the rod from inside the vehicle to open fuel filler lid.



1. Remove fuel cap pin (1).



2. Remove bolts (2) and fuel filler lid (1).



3. Remove luggage side lower finisher (LH). Refer to INT-31, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
4. Rotate lock nut counterclockwise and then remove lock nut.
5. Remove fuel filler lid lock actuator by releasing the pawl.
6. Disconnect harness connector from fuel filler lid lock actuator.
7. Remove fuel filler lock by releasing the pawls.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **After installation, check fuel filler lid open/close, lock/unlock operation.**
- **After installation, apply touch-up paint (body color) to the head of fuel filler lid bolts.**

KEY CYLINDER

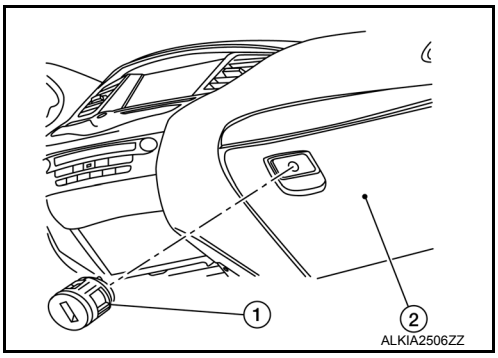
GLOVE BOX LID KEY CYLINDER

GLOVE BOX LID KEY CYLINDER : Removal and Installation

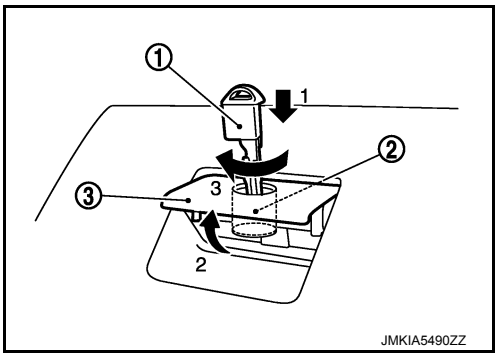
INFOID:0000000012852175

REMOVAL

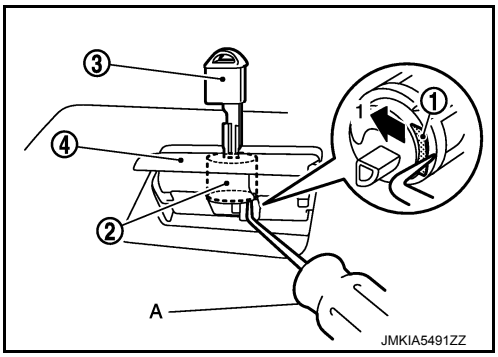
1. Remove glove box assembly (2) to access glove box lid key cylinder (1). Refer to IP-26, "Removal and Installation".



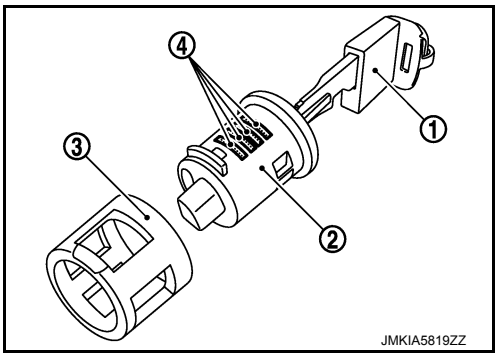
2. Insert key (1) into glove box lid lock cylinder (2).
3. Pull upward on glove box lid release handle (3).
4. Rotate key (1) and turn glove box lid key cylinder (2) to the lock position.



5. Press tumbler stopper (1) into glove box lid lock cylinder (2) using a suitable tool (A), and then remove key (3) and glove box lid lock cylinder together from glove box lid release handle (4).
NOTE:
When removing glove box lid lock cylinder (2) note the position of cylinder to glove box lid release handle (4).



6. Remove sleeve (3) from glove box lid release handle and then install sleeve to glove box lid lock cylinder.
NOTE:
When removing sleeve note the position of sleeve to glove box lid release handle.
CAUTION:
Do not pull out key (1) from glove box lid lock cylinder (2) while sleeve (3) is removed. Otherwise, tumblers (4) may be lost from glove box lid lock cylinder.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check glove box assembly open/close, lock/unlock operation.

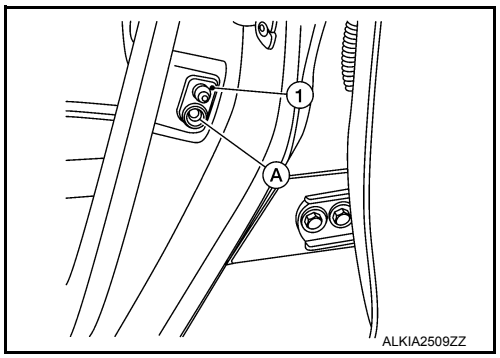
DOOR SWITCH

Removal and Installation

INFOID:0000000012852176

REMOVAL

1. Remove the door switch bolt (A).
2. Disconnect harness from door switch (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Removal and Installation

INFOID:0000000012852177

REMOVAL

The driver side door request switch and driver side outside handle are serviced as an assembly. Refer to DLK-270, "OUTSIDE HANDLE : Removal and Installation".

INSTALLATION

Installation is in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Removal and Installation

INFOID:0000000012852178

REMOVAL

The passenger side door request switch and passenger side outside handle are serviced as an assembly. Refer to DLK-270, "OUTSIDE HANDLE : Removal and Installation".

INSTALLATION

Installation is in the reverse order of removal.

BACK DOOR

BACK DOOR : Removal and Installation

INFOID:0000000012852179

REMOVAL

1. Remove the back door outer finisher upper. Refer to EXT-45, "Removal and Installation".
2. Disconnect the harness connector from the back door request switch.
3. Remove the back door request switch.

INSTALLATION

Installation is in the reverse order of removal.

INSIDE KEY ANTENNA

INSTRUMENT CENTER

INSTRUMENT CENTER : Removal and Installation

INFOID:0000000012852180

REMOVAL

1. Remove cluster lid C upper. Refer to IP-23, "CLUSTER LID C UPPER : Removal and Installation".
2. Disconnect the harness connector from the inside key antenna (instrument center).
3. Remove the inside key antenna (instrument center) screw, and then remove inside key antenna (instrument center).

INSTALLATION

Installation is in the reverse order of removal.

CONSOLE

CONSOLE : Removal and Installation

INFOID:0000000012852181

REMOVAL

1. Remove rear center ventilator duct. Refer to VTL-12, "REAR CENTER VENTILATOR DUCT : Removal and Installation".
2. Disconnect the harness connector from the inside key antenna (console).
3. Remove the inside key antenna (console) screws and inside key antenna (console).

INSTALLATION

Installation is in the reverse order of removal.

LUGGAGE ROOM

LUGGAGE ROOM : Removal and Installation

INFOID:0000000012852182

REMOVAL

1. Remove the second row seatback. Refer to SE-134, "Removal and Installation".
2. Disconnect the harness connector from the inside key antenna (luggage room).
3. Remove the inside key antenna (luggage room) clip, and then remove inside key antenna (luggage room).

INSTALLATION

Installation is in the reverse order of removal.

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Removal and Installation

INFOID:0000000012852183

REMOVAL

The driver side outside key antenna and driver side outside handle are serviced as an assembly. Refer to DLK-270, "OUTSIDE HANDLE : Removal and Installation".

INSTALLATION

Installation is in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Removal and Installation

INFOID:0000000012852184

REMOVAL

The passenger side outside key antenna and passenger side outside handle are serviced as an assembly. Refer to DLK-270, "OUTSIDE HANDLE : Removal and Installation".

INSTALLATION

Installation is in the reverse order of removal.

REAR BUMPER

REAR BUMPER : Removal and Installation

INFOID:0000000012852185

REMOVAL

1. Remove rear bumper fascia. Refer to EXT-20, "Removal and Installation".
2. Disconnect the harness connector from the rear bumper outside key antenna and remove.

INSTALLATION

Installation is in the reverse order of removal.

INTELLIGENT KEY WARNING BUZZER

Removal and Installation

INFOID:0000000012852186

REMOVAL

NOTE:

The Intelligent Key warning buzzer is located in the left front area of the engine compartment.

1. Remove Intelligent Key warning buzzer clips.
2. Disconnect the harness connector from the Intelligent Key warning buzzer and remove.

INSTALLATION

Installation is in the reverse order of removal.

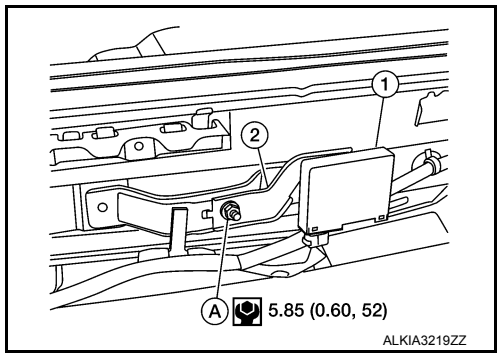
BACK DOOR WARNING CHIME

Removal and Installation

INFOID:0000000012852187

REMOVAL

1. Remove the rear bumper fascia. Refer to EXT-20, "Removal and Installation".
2. Disconnect the harness connector from the back door warning chime.
3. Remove the back door warning chime bracket nut (A) and remove back door warning chime (1).
4. Remove back door warning chime (1) from bracket (2) (if necessary).



INSTALLATION

Installation is in the reverse order of removal.

REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

INFOID:0000000012852188

REMOVAL

1. Remove the glove box assembly. Refer to IP-26, "Removal and Installation".
2. Remove the remote keyless entry receiver bolt.
3. Disconnect the harness connector from remote keyless entry receiver and remove.

INSTALLATION

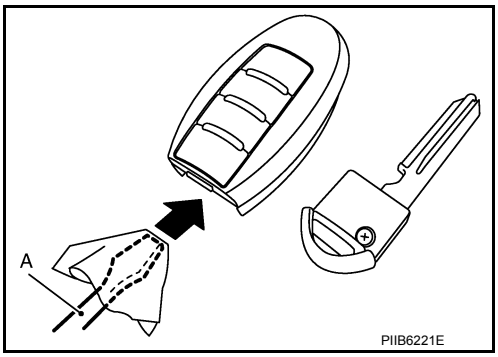
Installation is in the reverse order of removal.

INTELLIGENT KEY BATTERY

Removal and Installation

INFOID:0000000012852189

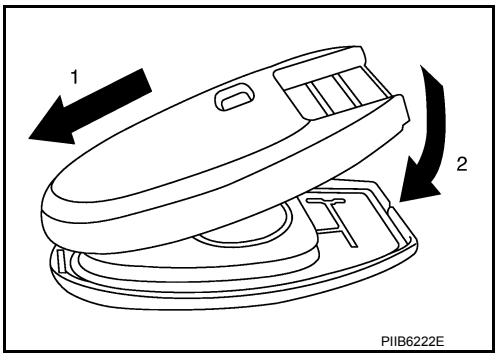
1. Release the lock knob on the back of the Intelligent Key and remove the key.
2. Insert a suitable tool (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.
   CAUTION:
   - **Do not touch the circuit board or battery terminal.**
   - **The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.**



3. Replace the battery with a new one.

Battery replacement	**:Coin-type lithium battery (CR2025)**

4. Align the tips of the upper and lower parts, and then push them together until unit is securely closed.
   CAUTION:
   - **When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.**
   - **After replacing the battery, check that all Intelligent Key functions work normally.**



AUTOMATIC BACK DOOR CONTROL MODULE

Removal and Installation

INFOID:0000000012852190

REMOVAL

1. Remove the luggage side lower finisher (LH). Refer to INT-31, "LUGGAGE SIDE LOWER FINISHER : Removal and Installation".
2. Remove the automatic back door control module bolts.
3. Disconnect the harness connector, from the automatic back door control module and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

When removing or replacing automatic back door control module, it is necessary to perform initial settings. Refer to DLK-117, "Description".

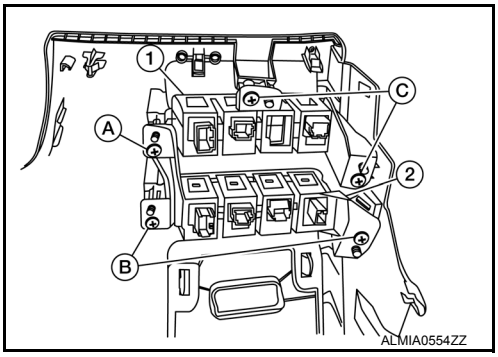
AUTOMATIC BACK DOOR MAIN SWITCH

Removal and Installation

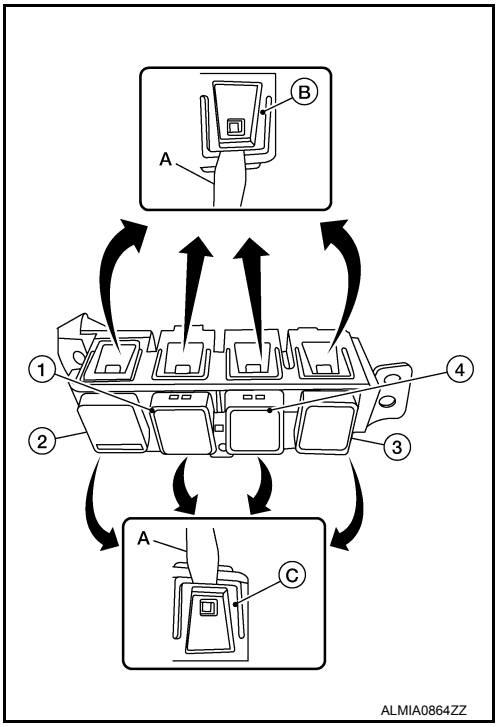
INFOID:0000000012852191

REMOVAL

1. Remove the instrument lower panel LH. Refer to IP-25, "Removal and Installation".
2. Remove the screws (A,B,C) that retain the upper (1) and lower (2) switch carriers.



3. Release upper (B) and lower (C) tab using a suitable tool (A), then remove the automatic back door main switch (3) from the upper switch carrier.
   (1): Headlamp washer switch (if equipped)
   (2): VDC off switch
   (3): Automatic back door main switch
   (4): Automatic back door switch



INSTALLATION

Installation is in the reverse order of removal.

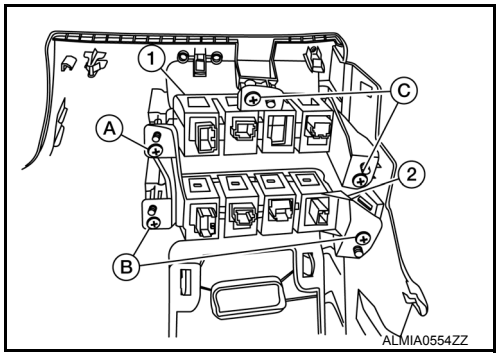
AUTOMATIC BACK DOOR SWITCH

Removal and Installation

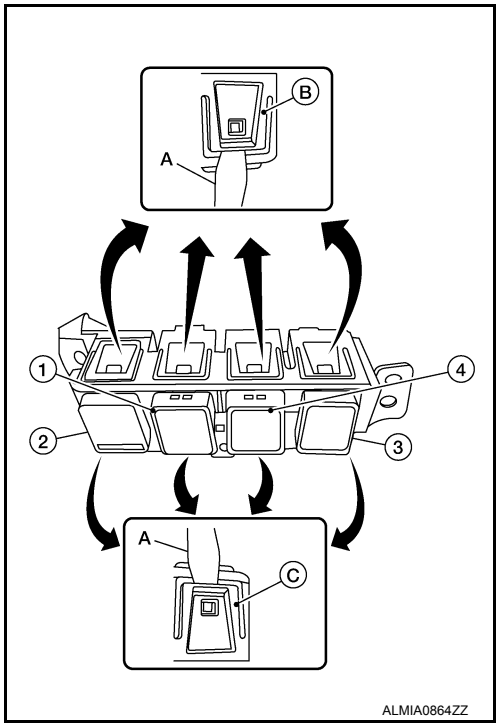
INFOID:0000000012852192

REMOVAL

1. Remove the instrument lower panel LH. Refer to IP-25, "Removal and Installation".
2. Remove the screws (A,B,C) that retain the upper (1) and lower (2) switch carriers.



3. Release upper (B) and lower (C) tab using a suitable tool (A), then remove the automatic back door main switch (4) from the upper switch carrier.
   (1): Headlamp washer switch (if equipped)
   (2): VDC off switch
   (3): Automatic back door main switch
   (4): Automatic back door switch



INSTALLATION

Installation is in the reverse order of removal.

AUTOMATIC BACK DOOR CLOSE SWITCH

Removal and Installation

INFOID:0000000012852193

REMOVAL

1. Open back door assembly.
2. Release the automatic back door close switch pawls using a suitable tool.
3. Remove the automatic back door close switch screws.
4. Disconnect the harness connector from the automatic back door close switch and remove.

INSTALLATION

Installation is in the reverse order of removal.