SECTION DLK
DOOR & LOCK

CONTENTS

PRECAUTION

PRECAUTIONS

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

INFOID:0000000011283142

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 seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the “SRS AIR BAG” and “SEAT BELT” of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see “SRS AIR BAG”.**
- **Never 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:

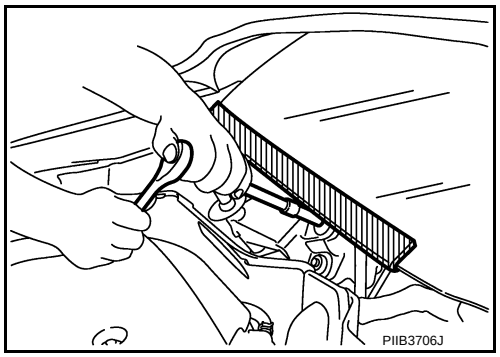
Always observe the following items for preventing accidental activation.

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

Precaution for Procedure without Cowl Top Cover

INFOID:0000000011283143

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



Work

INFOID:0000000011283144

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operational.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

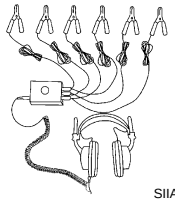
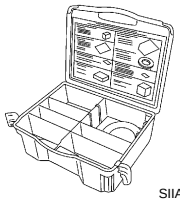
PREPARATION

PREPARATION

Special Service Tools

INFOID:0000000011283145

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

Tool number (Kent-Moore No.) Tool name	Description
(J-39570) Chassis ear  SIIA0993E	Locates the noise
(J-50397) NISSAN Squeak and Rattle Kit  SIIA0994E	Repairs the cause of noise

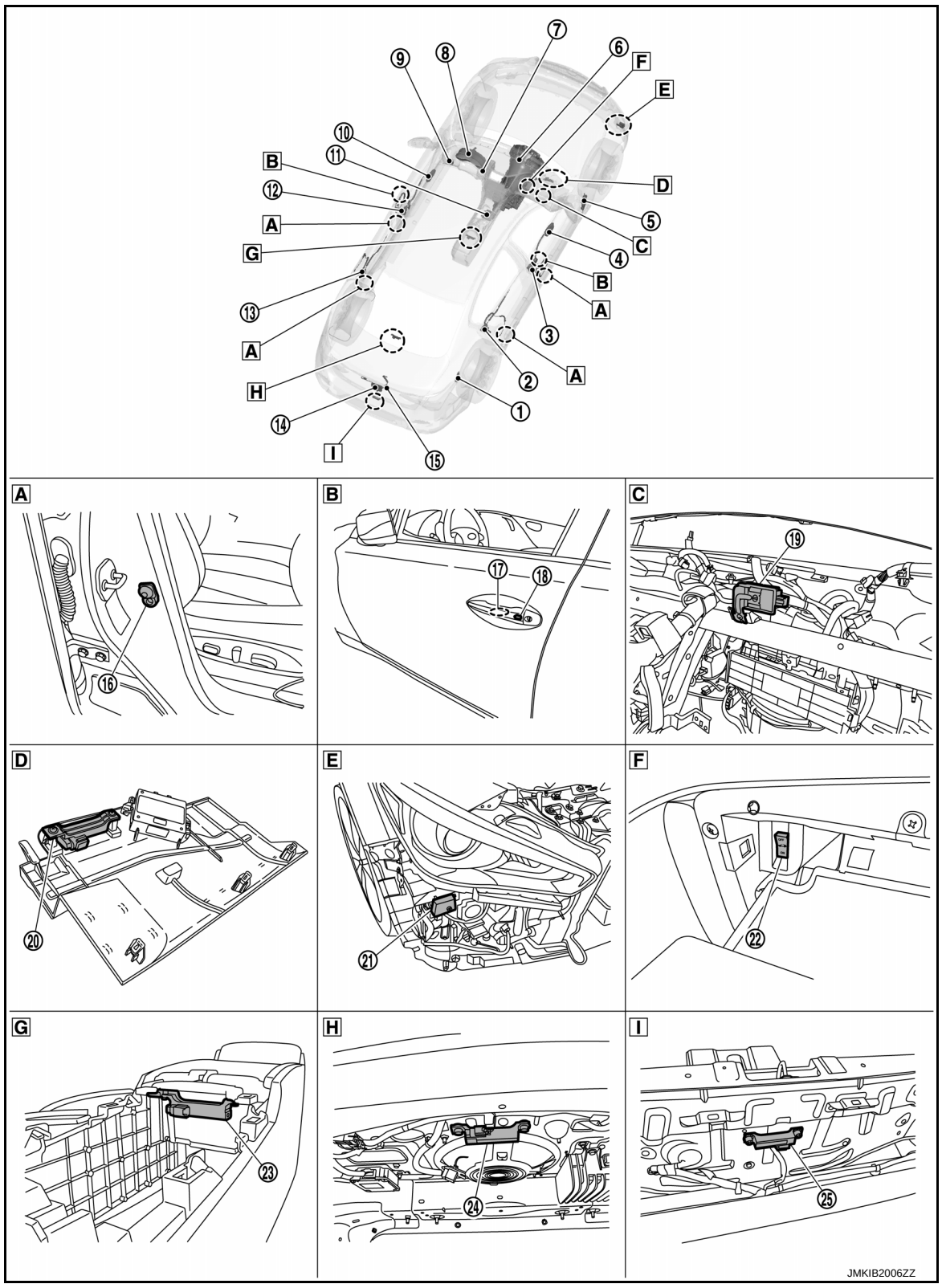
SYSTEM DESCRIPTION

COMPONENT PARTS

DOOR LOCK SYSTEM

DOOR LOCK SYSTEM : Component Parts Location

INFOID:0000000011283146



A View with door opened
B View with door panel
C View with instrument panel assembly removed
D View with instrument lower cover removed
E View with front bumper fascia assembly removed
F View with glove box lid opened
G View with center console assembly removed
H View with trunk front finisher removed
I View with rear bumper fascia assembly removed

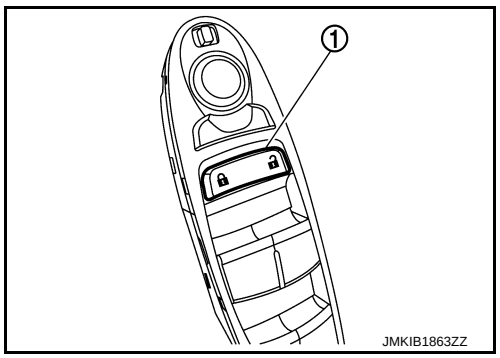
No.	Component	Function
①	Fuel filler lid lock actuator	DLK-12, "DOOR LOCK SYSTEM : Fuel Filler Lid Lock Actuator"
②	Rear door lock assembly RH	DLK-13, "DOOR LOCK SYSTEM : Rear Door Lock Assembly"
③	Front door lock assembly (passenger side)	DLK-12, "DOOR LOCK SYSTEM : Front Door Lock Assembly"
④	Front power window switch (passenger side) (door lock and unlock switch)	DLK-10, "DOOR LOCK SYSTEM : Door Lock and Unlock Switch"
⑤	BCM	BCM detects the vehicle status according to signals from each door switch and each outside/inside key antenna. BCM transmits drive signal to door lock actuator when BCM receives operation signal from remote keyless entry receiver and each switch. Refer to BCS-4, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
⑥	A/T assembly (TCM)	Transmits shift position signal to BCM via CAN communication line. Refer to TM-12, "A/T CONTROL SYSTEM : Component Parts Location" for detailed installation location.
⑦	Push-button ignition switch	Inputs push-button ignition switch ON/OFF condition to BCM. Refer to PCS-41, "Component Parts Location" for detailed installation location.
⑧	Combination meter	• Performs operation method guide and warning with buzzer. • Transmits vehicle speed signal to CAN communication line.
⑨	Trunk lid opener switch	DLK-14, "DOOR LOCK SYSTEM : Trunk Lid Opener Switch"
⑩	Power window main switch (door lock and unlock switch)	DLK-10, "DOOR LOCK SYSTEM : Door Lock and Unlock Switch"
⑪	Air bag diagnosis sensor unit	Refer to SRC-6, "Component Parts Location" for detailed installation location.
⑫	Front door lock assembly (driver side)	DLK-12, "DOOR LOCK SYSTEM : Front Door Lock Assembly"
⑬	Rear door lock assembly LH	DLK-13, "DOOR LOCK SYSTEM : Rear Door Lock Assembly"
⑭	Trunk lid lock assembly	DLK-14, "DOOR LOCK SYSTEM : Trunk Lid Lock Assembly"
⑮	Trunk lid opener request switch	DLK-14, "DOOR LOCK SYSTEM : Trunk Lid Opener Request Switch"
⑯	Door switch	DLK-11, "DOOR LOCK SYSTEM : Door Switch"
⑰	One touch unlock sensor assembly	DLK-13, "DOOR LOCK SYSTEM : One Touch Unlock Sensor Assembly"
⑱	Front door request switch	DLK-11, "DOOR LOCK SYSTEM : Door Request Switch"
⑲	Remote keyless entry receiver	DLK-13, "DOOR LOCK SYSTEM : Remote Keyless Entry Receiver"
⑳	Inside key antenna (instrument lower)	DLK-12, "DOOR LOCK SYSTEM : Inside Key Antenna"
㉑	Intelligent Key warning buzzer	DLK-12, "DOOR LOCK SYSTEM : Intelligent Key Warning Buzzer"
㉒	Trunk lid opener cancel switch	DLK-14, "DOOR LOCK SYSTEM : Trunk Lid Opener Cancel Switch"
㉓	Inside key antenna (console)	DLK-12, "DOOR LOCK SYSTEM : Inside Key Antenna"
㉔	Inside key antenna (trunk room)	DLK-12, "DOOR LOCK SYSTEM : Inside Key Antenna"
㉕	Outside key antenna (rear bumper)	DLK-12, "DOOR LOCK SYSTEM : Outside Key Antenna (Rear Bumper)"

DOOR LOCK SYSTEM : Door Lock and Unlock Switch

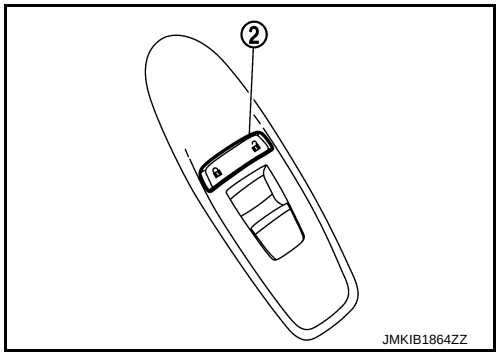
INFOID:0000000011283147

- Door lock and unlock switch transmits door lock/unlock signal operation to BCM.

- Driver side door lock and unlock switch ① is integrated in the power window main switch.



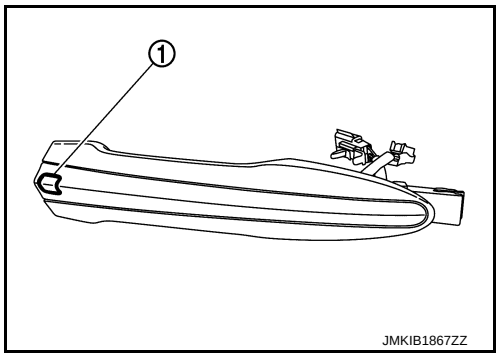
- Passenger side door lock and unlock switch ② is integrated in the front power window switch (passenger side).



DOOR LOCK SYSTEM : Door Request Switch

INFOID:0000000011283148

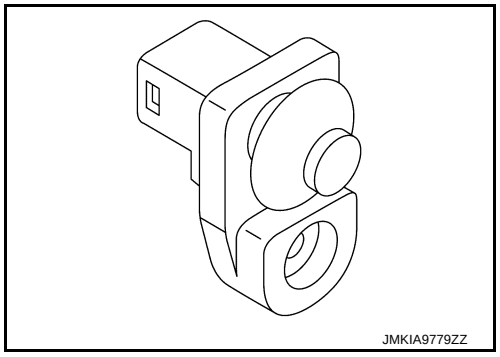
- Door request switch detects door lock/unlock operation and transmits door request switch signal to BCM.
- Door request switch ① is integrated in the outside handle grip.



DOOR LOCK SYSTEM : Door Switch

INFOID:0000000011283149

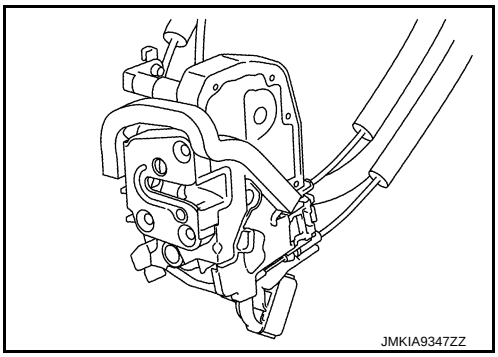
Detects door open/close condition.



DOOR LOCK SYSTEM : Front Door Lock Assembly

INFOID:0000000011283150

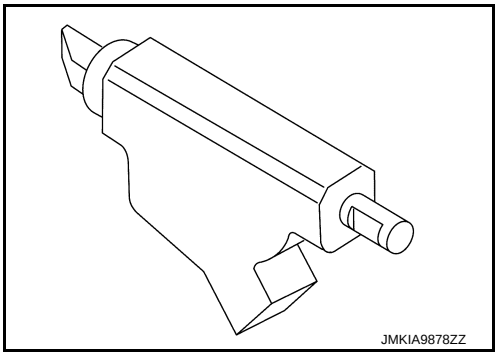
- Door lock actuator and unlock sensor are integrated in front door lock assembly (driver side).
- Door lock actuator receives lock/unlock signal from BCM, and then locks/unlocks door.
- Only front door lock assembly (driver side) integrates unlock sensor. Unlock sensor transmits lock/unlock status of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



DOOR LOCK SYSTEM : Fuel Filler Lid Lock Actuator

INFOID:0000000011283151

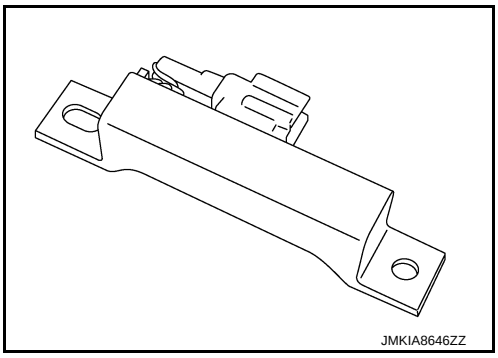
Fuel filler lid lock actuator receives lock/unlock signal from BCM, and then locks/unlocks fuel filler lid.



DOOR LOCK SYSTEM : Inside Key Antenna

INFOID:0000000011283152

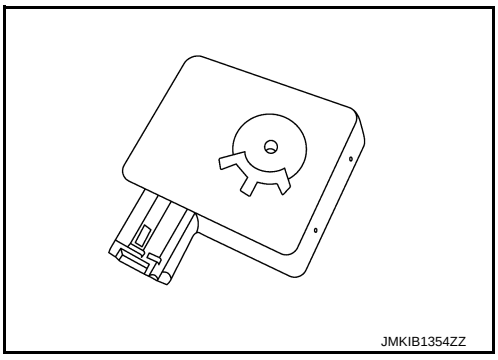
- Inside key antenna detects that Intelligent Key is within the inside detection area, and then transmits detection status to BCM.
- Inside key antenna (instrument lower) is installed behind instrument lower cover.
- Inside key antenna (console) is installed behind center console assembly.
- Inside key antenna (trunk room) is installed in upper side with trunk room.



DOOR LOCK SYSTEM : Intelligent Key Warning Buzzer

INFOID:0000000011283153

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

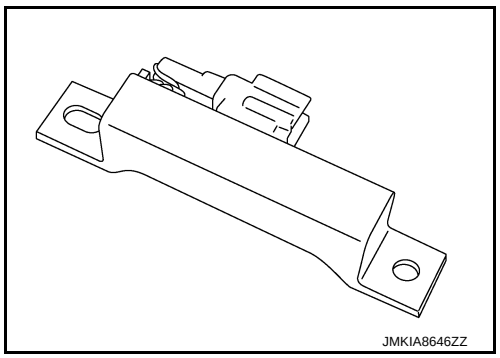


DOOR LOCK SYSTEM : Outside Key Antenna (Rear Bumper)

INFOID:0000000011283154

- Outside key antenna detects that Intelligent Key is within the outside detection area, and then transmits detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.

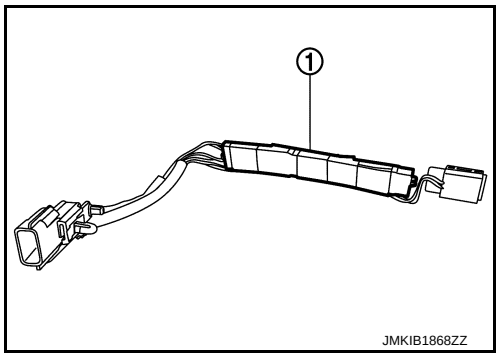
- Outside key antenna (rear bumper) is installed in the rear of bumper fascia assembly.


JMKIA8646ZZ

DOOR LOCK SYSTEM : One Touch Unlock Sensor Assembly

INFOID:0000000011283155

- One touch unlock sensor assembly integrates outside key antenna and one touch unlock sensor.
- Outside key antenna detects that Intelligent Key is within the outside detection area, and then transmits detection status to BCM. Request signal is transmitted simultaneously to Intelligent Key.
- One touch unlock sensor detects user hold outside handle operation and transmits one touch unlock sensor signal to BCM.
- One touch unlock sensor assembly ① is integrated in front door outside handle grip.



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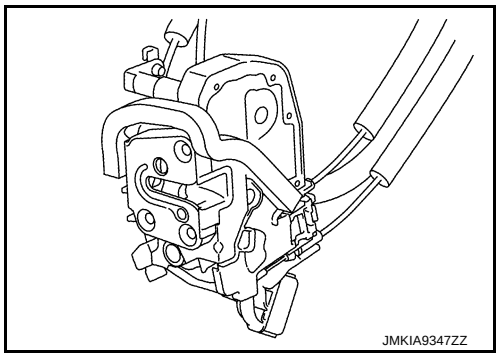
DOOR LOCK SYSTEM : Rear Door Lock Assembly

INFOID:0000000011283156

- Door lock actuator is integrated in rear door lock assembly.
- Door lock actuator receives lock/unlock signal from BCM, and then locks/unlocks rear door.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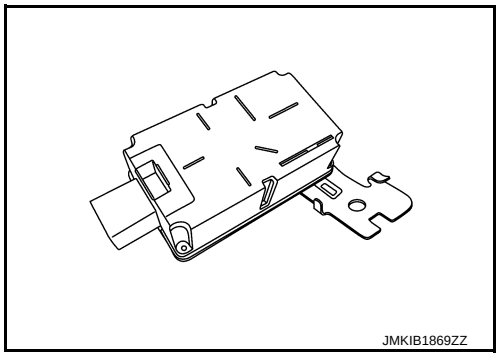
DOOR LOCK SYSTEM : Remote Keyless Entry Receiver

INFOID:0000000011283157

- Remote keyless entry receiver is installed in the rear of instrument lower panel RH.
- Remote keyless entry receiver receives button operation signal and key ID signal of Intelligent Key, and then transmits them to BCM.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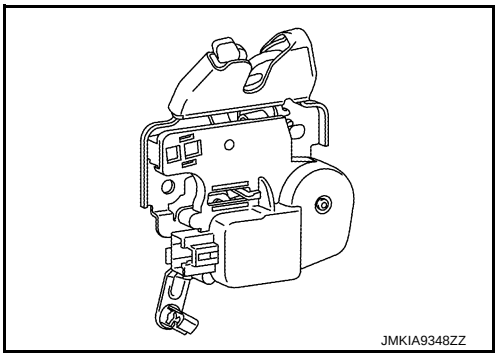
DOOR LOCK SYSTEM : Trunk Lid Lock Assembly

INFOID:0000000011283158

- Trunk lid lock assembly integrates trunk lid opener actuator and trunk room lamp switch.
- Trunk lid opener actuator opens the trunk lid according to the trunk lid open signal from BCM.
- Trunk room lamp switch detects open/close status of trunk lid.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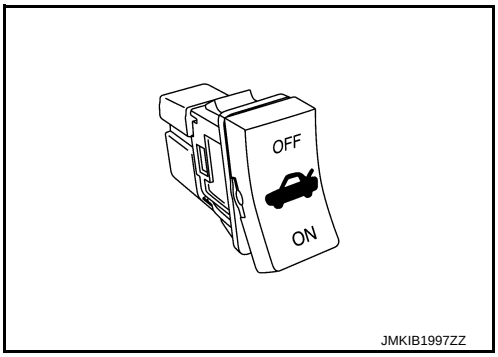
DOOR LOCK SYSTEM : Trunk Lid Opener Cancel Switch

INFOID:0000000011283159

- When trunk lid opener cancel switch is pressed in ON position, trunk lid can not open with Intelligent Key button operation, trunk lid opener switch and trunk lid opener request switch.
- Trunk lid opener cancel switch is installed in the instrument lower panel RH.



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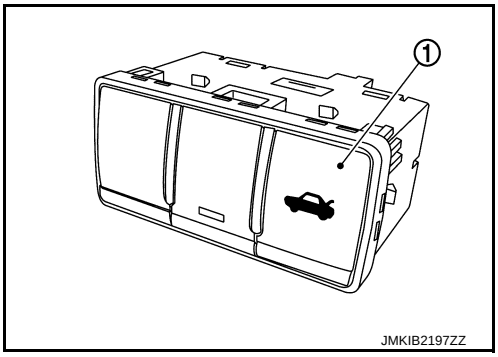
DOOR LOCK SYSTEM : Trunk Lid Opener Switch

INFOID:0000000011283160

- When trunk lid opener switch is pressed, trunk lid open operation is detected and trunk lid opener switch signal is transmitted to BCM.
- Trunk lid opener switch ① is integrated in the triple switch.



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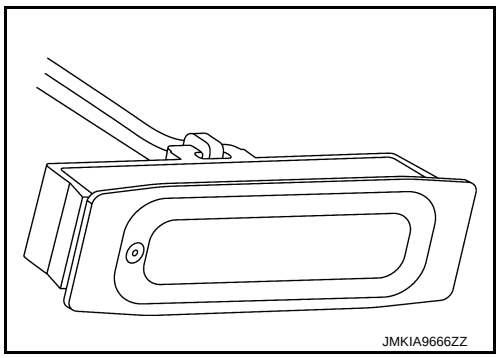
DOOR LOCK SYSTEM : Trunk Lid Opener Request Switch

INFOID:0000000011283161

- Trunk lid opener request switch detects open operation of trunk lid and transmits trunk lid opener request signal to BCM.

- Trunk lid opener request switch is installed on the center of the upper side of the trunk lid finisher.

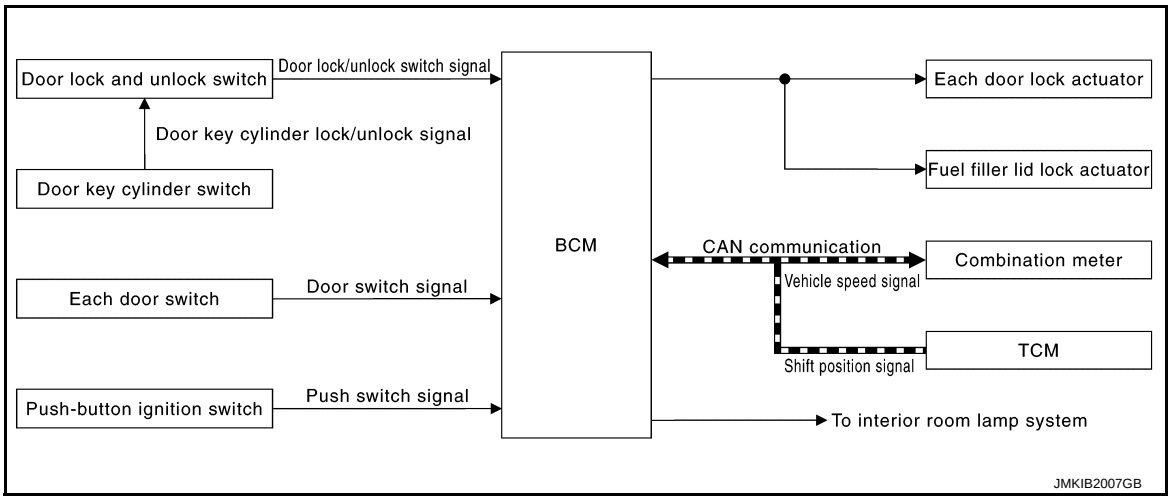


SYSTEM (POWER DOOR LOCK SYSTEM)

System Description

INFOID:0000000011283162

SYSTEM DIAGRAM



DOOR LOCK FUNCTION

Door Lock and Unlock Switch

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

Door Key Cylinder Switch

- With the mechanical key inserted in the driver side door key cylinder, turn it to lock position, door lock actuator of all doors and fuel filler lid lock actuator are locked.
- With the mechanical key inserted in the driver side door key cylinder, turn it to unlock position one unlocks the driver door, turning it to unlock position again within 60 seconds after the first unlock operation unlocks all of the other door lock actuator and fuel filler lid lock actuator. (Selective unlock function operation)
  Information of selective unlock function, Refer to DLK-23, "DOOR LOCK FUNCTION : System Description".

IGNITION POSITION WARNING FUNCTION

When ignition switch position is ON or ACC and any door is open, all doors cannot locked when door lock and unlock switch is operated in lock direction.

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 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 position to any position other than P.
BCM outputs the lock signal to all door lock actuators when it detects the shift position signal received from the TCM via CAN communication is shifted from the P position to any position other than P.

Setting Change of Automatic Door Lock/Unlock Function

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

With CONSULT
Automatic door lock/unlock function operation mode can be changed using CONSULT.
Refer to DLK-49, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

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 ignition position is changed from ON to OFF.
BCM outputs the unlock signal to all door lock actuators when it detects that the ignition 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 the shift position 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
Automatic door lock/unlock function operation mode can be changed using CONSULT.
Refer to DLK-49, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

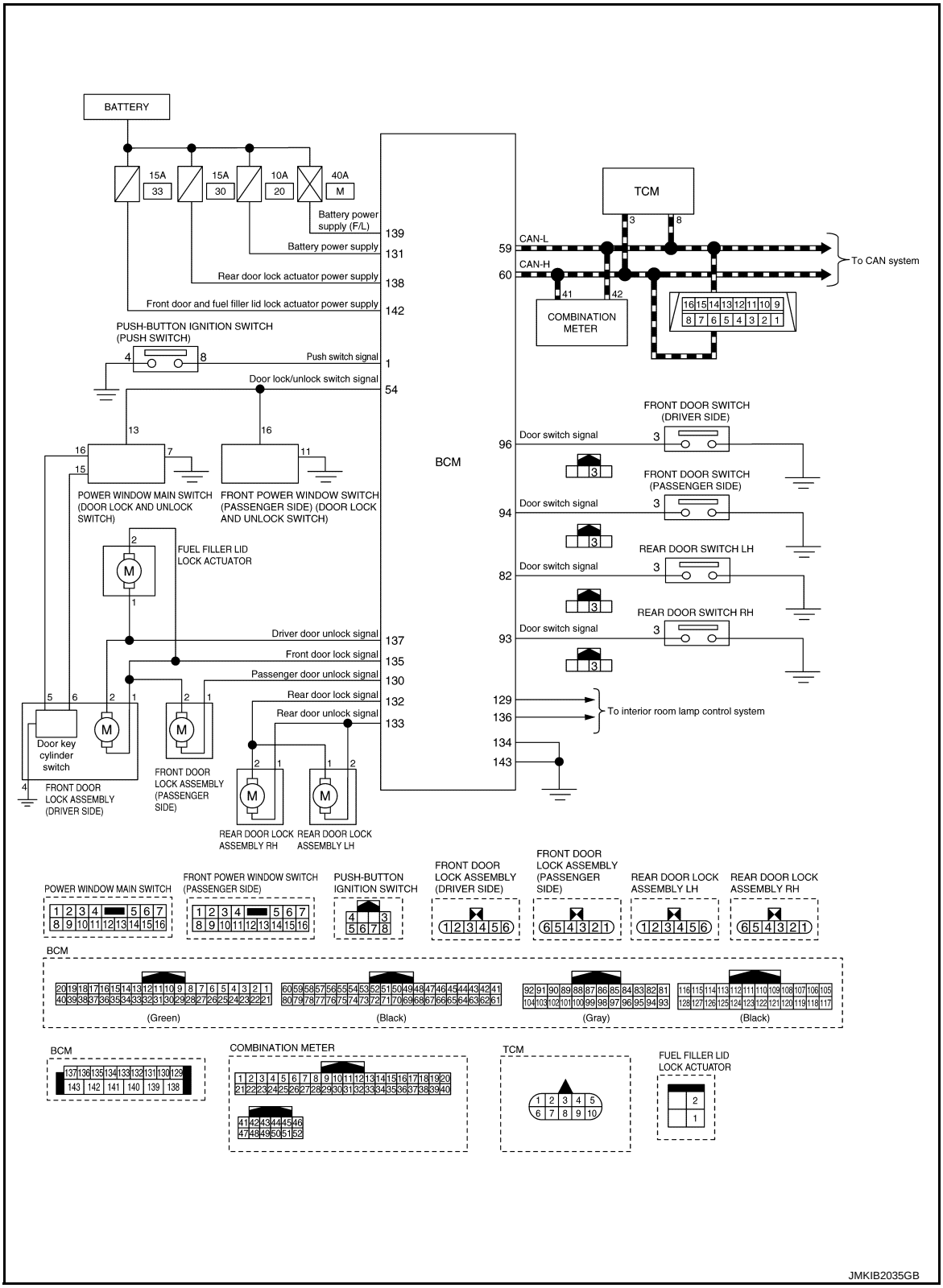
Without CONSULT
The automatic door lock/unlock function (unlock operation) ON/OFF can be switched by performing the following operation.

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

Circuit Diagram

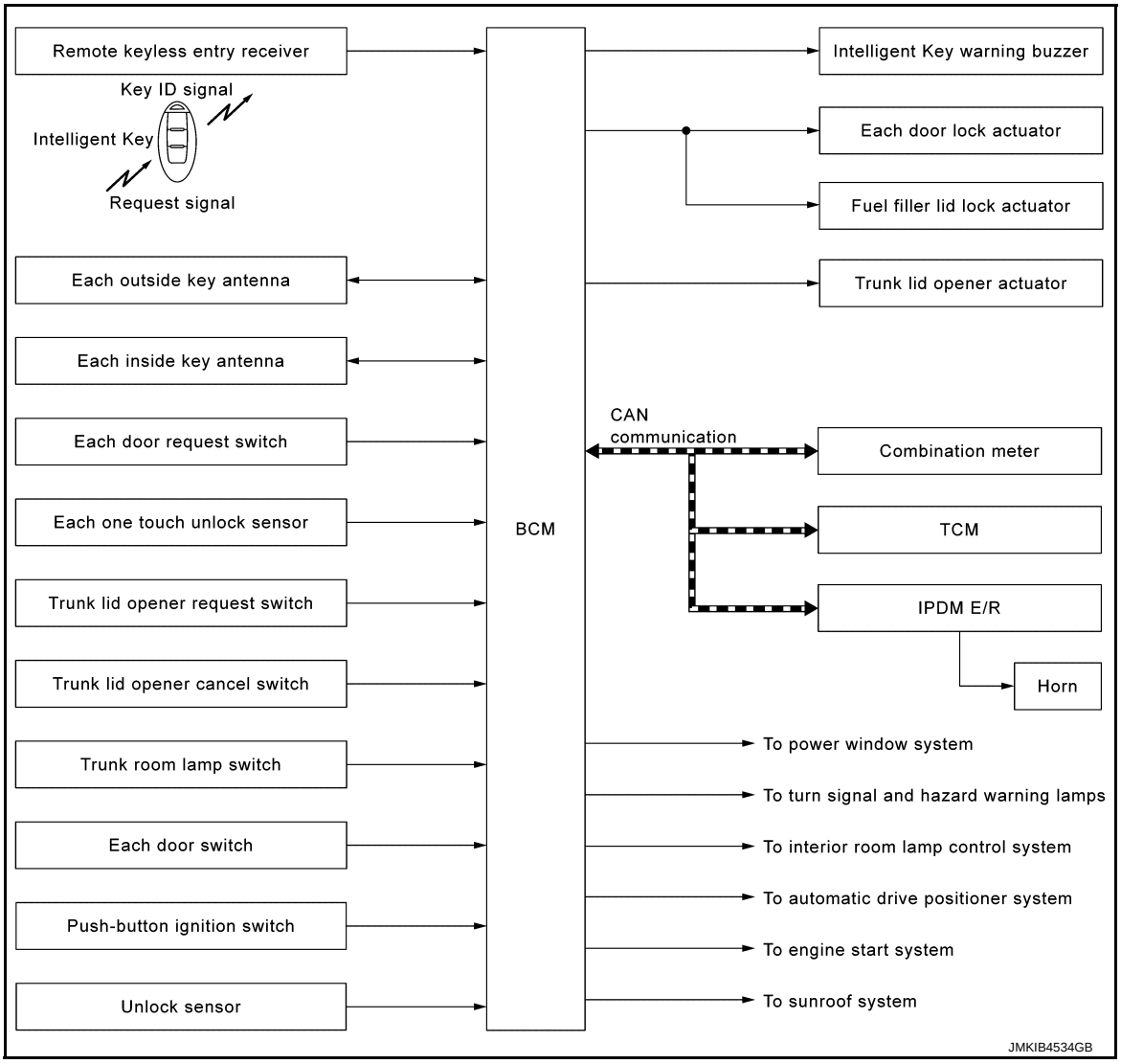
INFOID:0000000011283163



SYSTEM (INTELLIGENT KEY SYSTEM)
INTELLIGENT KEY SYSTEM
INTELLIGENT KEY SYSTEM : System Description

INFOID:0000000011283164

SYSTEM DIAGRAM



SYSTEM DESCRIPTION

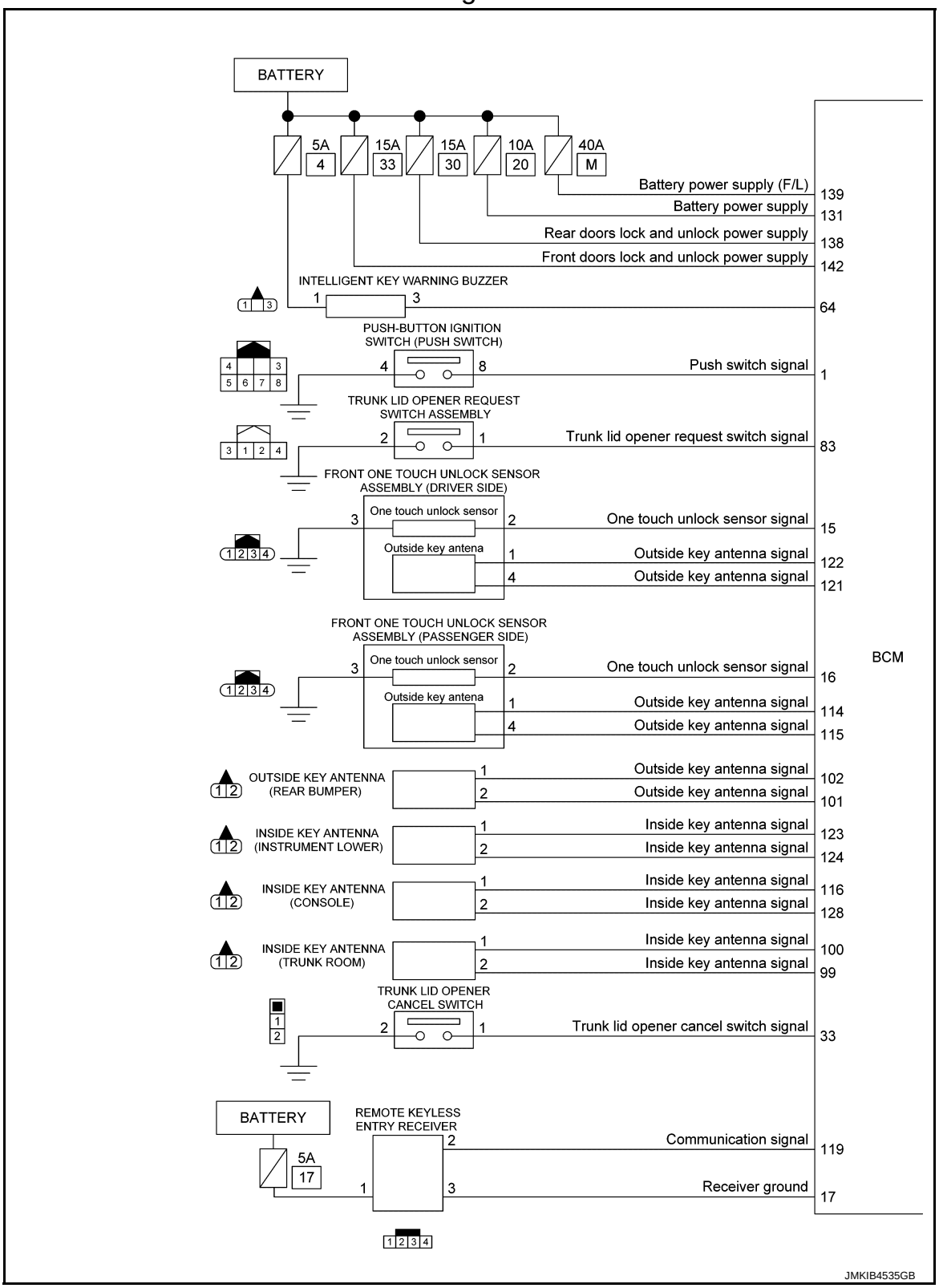
- The Intelligent Key system is a system that makes it possible to lock and unlock the door locks (door lock/unlock function) by carrying the Intelligent Key, which operates based on the results of electronic ID verification using two-way communication between the Intelligent Key and the vehicle (BCM).
  NOTE:
  The driver should always carry the Intelligent Key
- The settings for each function can be changed with CONSULT.
- If an Intelligent Key is lost, a new Intelligent Key can be registered. A maximum of 4 Intelligent Keys can be registered.
- It is possible to perform a diagnosis on the system and register an Intelligent Key with CONSULT.

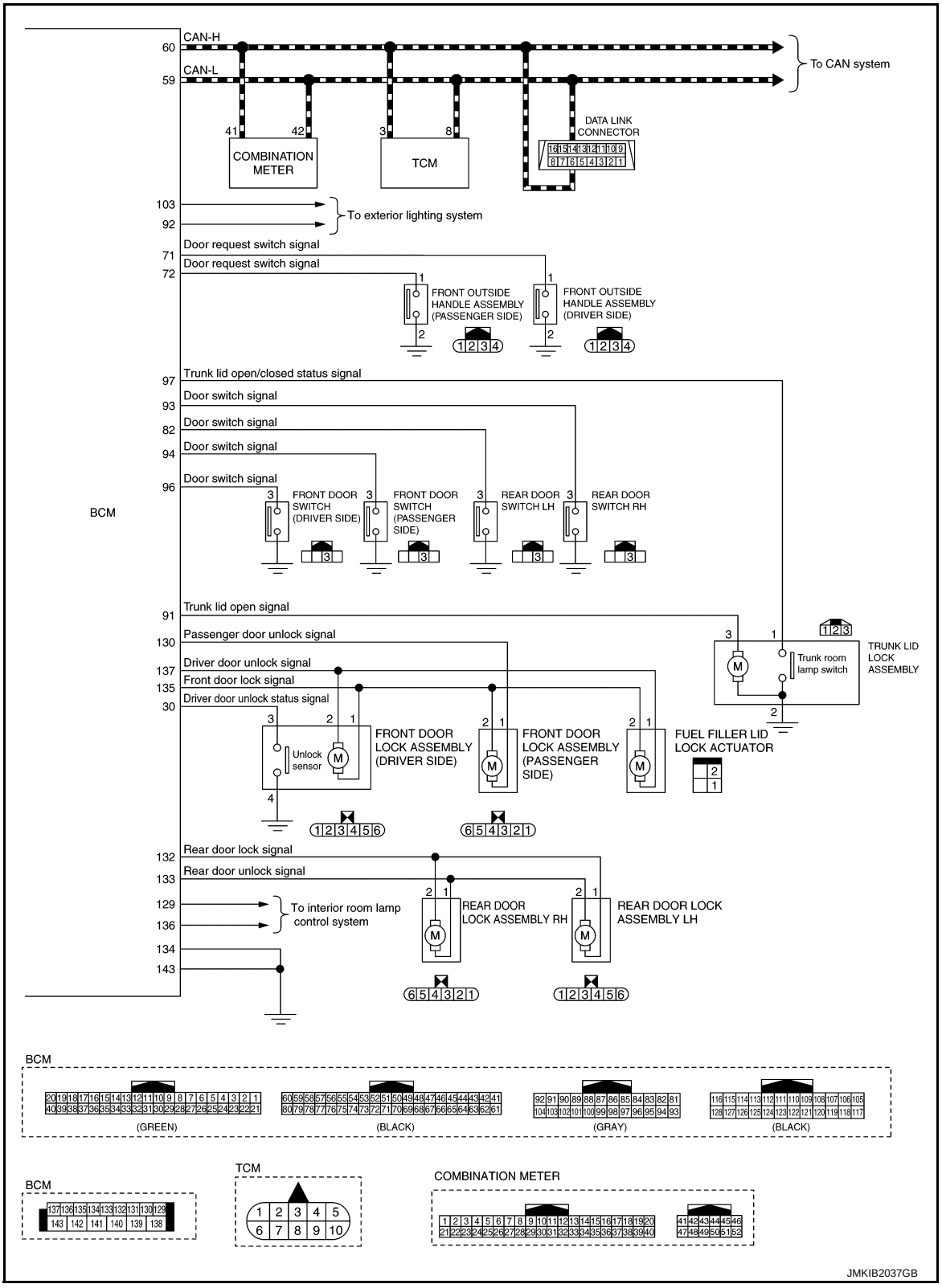
Function	Description	Refer
Door lock	Lock/unlock can be performed by pressing the door request switch.	DLK-23
One touch unlock	Unlock can be performed by holding outside handle grip.	DLK-26
Trunk open	The trunk lid can be opened by carrying the Intelligent Key and pressing the trunk lid opener request switch.	DLK-29

Function	Description	Refer
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.	DLK-31
Key reminder	The Intelligent Key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.	DLK-33
Warning (information display)	If an action that does not meet the operating condition of the Intelligent Key system is taken, the information display displays to inform the driver.	DLK-45
Warning (buzzer)	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-45
Engine start	The engine can be turned on while carrying the Intelligent Key.	SEC-12
Automatic drive positioner	Setting of auto driving position can be automatically set, according to key ID of Intelligent Key, to the setting value that is registered in advance.	ADP-27
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-9
Sunroof	Sunroof can be operated by Intelligent Key button operation.	RF-7
Panic alarm	When Intelligent Key panic alarm button is pressed, horn sounds and head lamp blinks.	SEC-19
Log-in function	The adoption of log-in function allows stored user-to-user settings to be called up through the recognition of the last user by the Intelligent Key.	DMS-9

INTELLIGENT KEY SYSTEM : Circuit Diagram

INFOID:0000000011283165



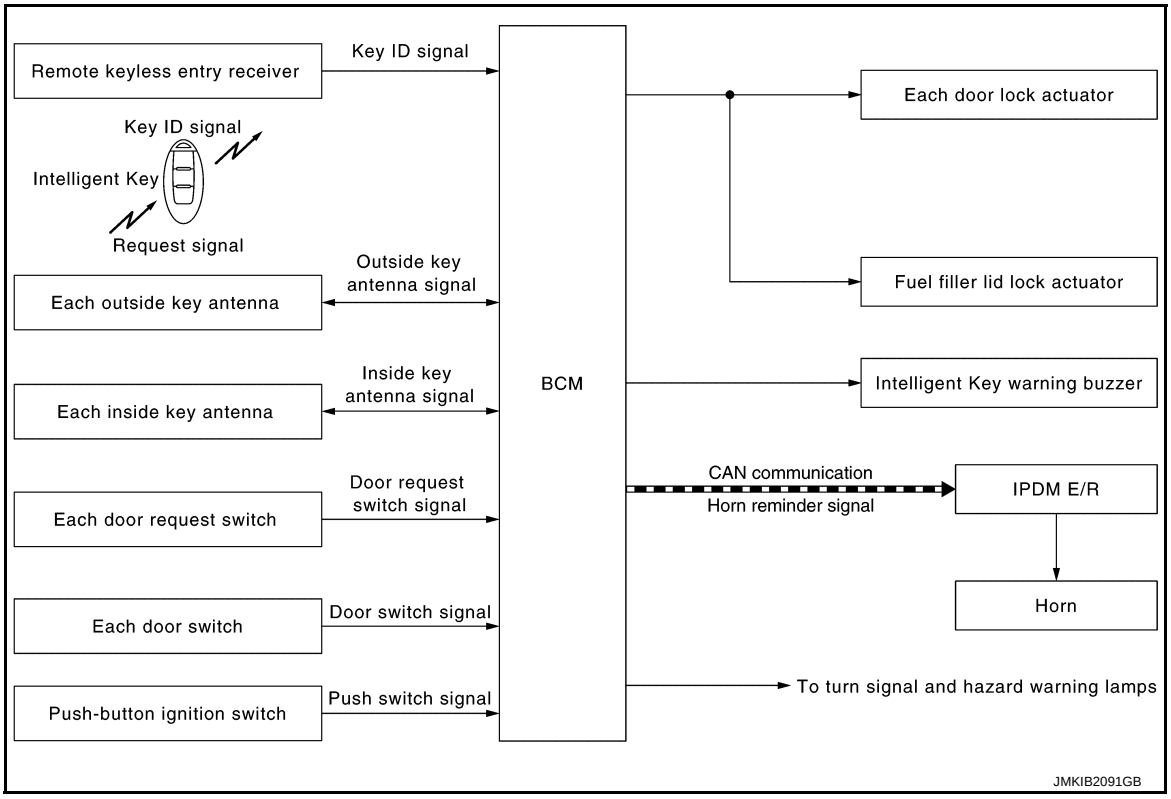


DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Description

INFOID:0000000011283166

SYSTEM DIAGRAM



Door lock function controls operation function of the following items.

- Door lock and unlock function (door request switch)
- Selective unlock function (door request switch)
- Reminder function (door request switch)
- Auto door lock function (door request switch)

DOOR LOCK AND UNLOCK FUNCTION (DOOR REQUEST SWITCH)

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 starts the outside key antenna and inside key antenna corresponding to the pressed door request switch and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM lock/unlock each door lock actuator and fuel filler lid lock actuator.

Operation Condition

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

Each door request switch operation	Operation condition
Lock	• All doors are closed • Selective unlock function is not operating • P position warning is not activated • Panic alarm is not activated • Intelligent Key is outside the vehicle • Intelligent Key is within outside key antenna detection area*
Unlock (One touch unlock function is setting in OFF)	• [TOUCH SENSOR UNLOCK FUNCTION SETTING] in work support: Off • Vehicle speed: 0 km/h • Intelligent Key is outside the vehicle • Intelligent Key is within outside key antenna detection area*
Unlock (One touch unlock function is setting in ON)	• [TOUCH SENSOR UNLOCK FUNCTION SETTING] in work support: On • Vehicle speed: 0 km/h • Selective unlock function is operating - Front door request switch (driver door) operates: Driver door is unlocked and other door is locked - Front door request switch (passenger door) operates: Passenger door is unlocked and other door is locked • Intelligent Key is outside the vehicle • Intelligent Key is within outside key antenna detection area*

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

How to Change Door Lock and Unlock Function Operation Mode

Door lock and unlock function (door request switch) operation mode can be changed using CONSULT.
Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

SELECTIVE UNLOCK FUNCTION (DOOR REQUEST SWITCH)

Lock Operation

When an lock signal is sent from door request switch, all doors and fuel filler lid are locked.

Unlock Operation (One Touch Unlock Function is Setting in OFF)

- When an unlock signal from front door request switch (driver side) is transmitted, driver door and fuel filler lid unlocks. When front door request switch (driver side) is operated again within 60* seconds, passenger door and rear door unlock.
- When an unlock signal from front door request switch (passenger side) is transmitted, passenger door unlock. When front door request switch (passenger side) is operated again within 60* seconds, all doors and fuel filler lid unlocks.

*: Default value is 60 seconds. This time changes according to auto door lock function operation time.

NOTE:

When [TOUCH SENSOR UNLOCK FUNCTION SETTING] in work support mode is setting in [On], selective unlock operation can not operates with door request switch.

How to Change Selective Unlock Function Operation Mode

Selective unlock function operation mode can be changed using CONSULT.
Refer to DLK-49, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

REMINDER FUNCTION (DOOR REQUEST SWITCH)

When doors are locked or unlocked by door request switch, BCM blinks hazard warning lamps as a reminder and transmits Intelligent Key warning buzzer request signal to Intelligent Key warning buzzer or horn reminder signal to IPDM E/R via CAN communication. Reminder function does not operate if ignition switch in ACC or ON position. The reminder function has C mode and S mode.

Operation	C mode		S mode	
Door request switch	Lock	Unlock	Lock	Unlock
Hazard warning lamp	Twice	Once	Twice	–

Operation	C mode		S mode	
Intelligent Key warning buzzer*1	Twice	Once	–	–
Horn*2	Once	–	–	–

*1: Work support mode [ANSWER BACK I-KEY LOCK UNLOCK] setting is [BUZZER]
*2: Work support mode [ANSWER BACK I-KEY LOCK UNLOCK] setting is [HORN]

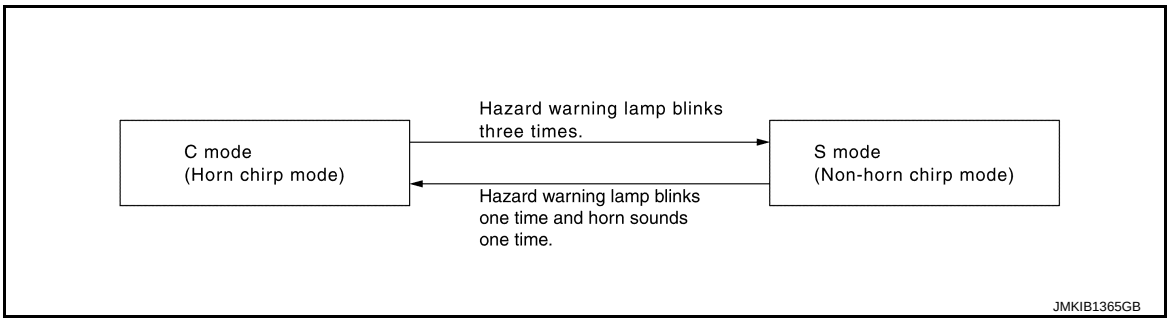
How to Change Reminder Function Operation Mode

With CONSULT

Reminder function operation mode can be changed using CONSULT.
Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

Without CONSULT

When lock and unlock signal are sent from the Intelligent Key for more than 4 seconds at the same time, the hazard and buzzer reminder mode is changed and hazard warning lamp blinks and horn sounds as per the following items:



AUTO DOOR LOCK FUNCTION (DOOR REQUEST SWITCH)

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

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

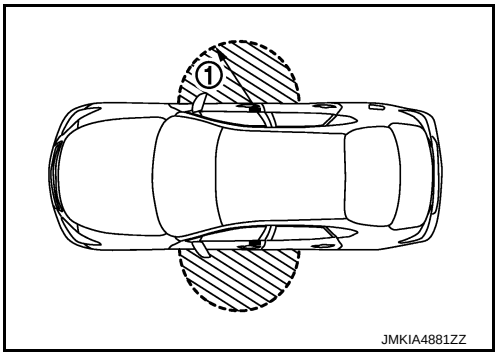
How to Change Auto Door Lock Function Operation Time

With CONSULT

Auto door lock function operation time can be changed using CONSULT.
Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

OUTSIDE KEY ANTENNA DETECTION AREA

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



LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

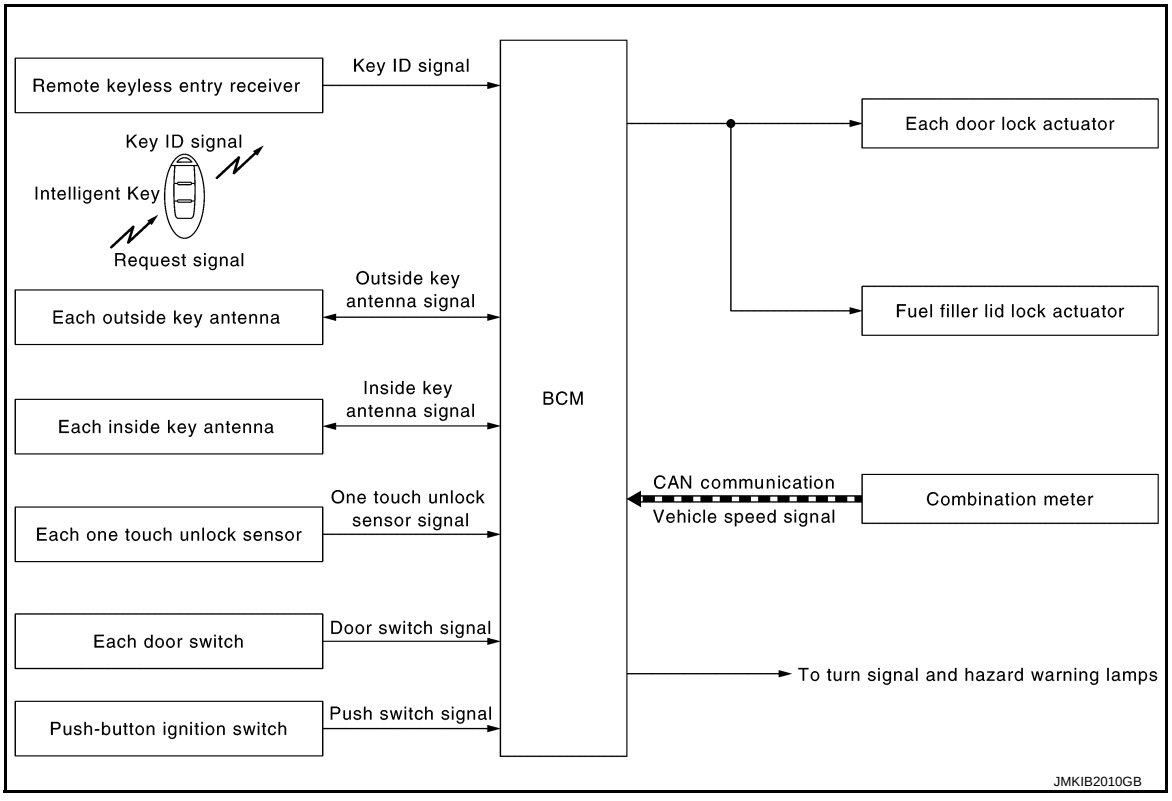
Function	Intelligent Key	Remote keyless entry receiver	Door switch	Door request switch	Door lock actuator	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamp	Horn	Push-button ignition switch	Combination meter
Door lock and unlock function (door request switch)	×	×	×	×	×	×	×			×				
Selective unlock function (door request switch)	×	×	×	×	×	×	×			×				
Reminder function (door request switch)								×	×	×	×	×		×
Auto door lock function (door request switch)	×		×	×	×					×			×	

ONE TOUCH UNLOCK FUNCTION

ONE TOUCH UNLOCK FUNCTION : System Description

INFOID:0000000011283167

SYSTEM DIAGRAM



One touch unlock function controls operation function of the following items.
- One touch unlock function
- Selective unlock function (one touch unlock sensor)
- Reminder function (one touch unlock sensor)

ONE TOUCH UNLOCK FUNCTION

When holding the outside handle grip, it is possible to unlock the door by carrying the Intelligent Key.

Operation Description
- When the BCM detects that outside handle grip is held and all door is locked, it starts the outside key antenna and inside key antenna corresponding to the held outside handle grip and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the door.

- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM unlocks each door lock actuator and fuel filler lid lock actuator.

Operation Condition

If the following conditions are satisfied, door unlock operation is performed if the outside handle grip is held.

Outside handle grip operation	Operation condition
Hold	• [LOCK/UNLOCK BY I-KEY] and [TOUCH SENSOR UNLOCK FUNCTION SETTING] in work support: On • Vehicle speed: 0 km/h • 2 seconds are passed while all door is locked • 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 can be unlocked from outside of the vehicle with a spare Intelligent Key as long as key IDs are different.

How to Change One Touch Unlock Function Operation Mode

One touch unlock function operation mode can be changed using CONSULT.
Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

SELECTIVE UNLOCK FUNCTION (ONE TOUCH UNLOCK SENSOR)

Unlock Operation

- When an unlock signal from one touch unlock sensor (driver door) is transmitted, driver door and fuel filler lid unlocks. When front door request switch (driver side) is operated within 60* seconds, all doors are unlocked.
- When an unlock signal from one touch unlock sensor (passenger door) is transmitted, passenger door unlocks. When front door request switch (passenger side) is operated within 60* seconds, all doors and fuel filler lid unlocks.

*: Default value is 60 seconds. This time changes according to auto door lock function operation time.

How to Change Selective Unlock Function Operation Mode

Selective unlock function operation mode can be changed using CONSULT.
Refer to DLK-49, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

REMINDER FUNCTION (ONE TOUCH UNLOCK SENSOR)

When doors are unlocked by one touch unlock sensor, BCM blinks hazard warning lamps as a reminder.
Reminder function does not operate if ignition switch in ACC or ON position.

Unlock operation (With one touch unlock sensor)	C mode	S mode
Hazard warning lamp	Once	–
Intelligent Key warning buzzer*	Once	–

*: Work support mode [ANSWER BACK I-KEY LOCK UNLOCK] setting is [BUZZER]

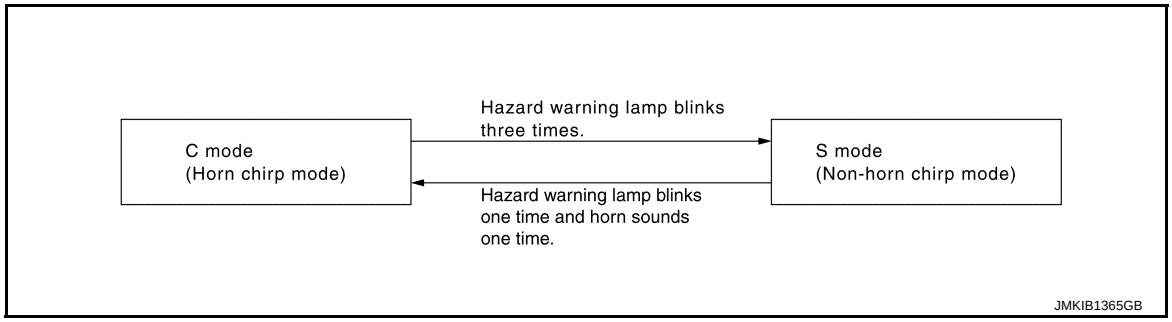
How to Change Reminder Function Operation Mode

With CONSULT

Reminder function operation mode can be changed using CONSULT.
Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

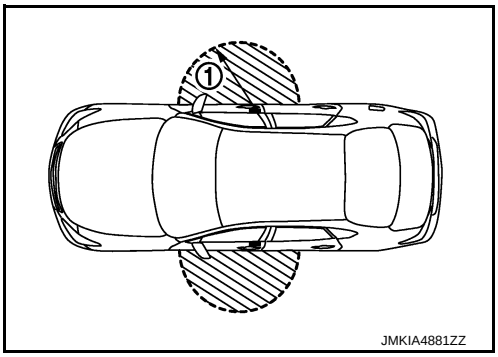
Without CONSULT

When lock and unlock signal are sent from the Intelligent Key for more than 4 seconds at the same time, the hazard and buzzer reminder mode is changed and hazard warning lamp blinks and horn sounds as per the following items:



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 outside door handle and passenger outside door handle ①. However, this operating range depends on the ambient conditions.



LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

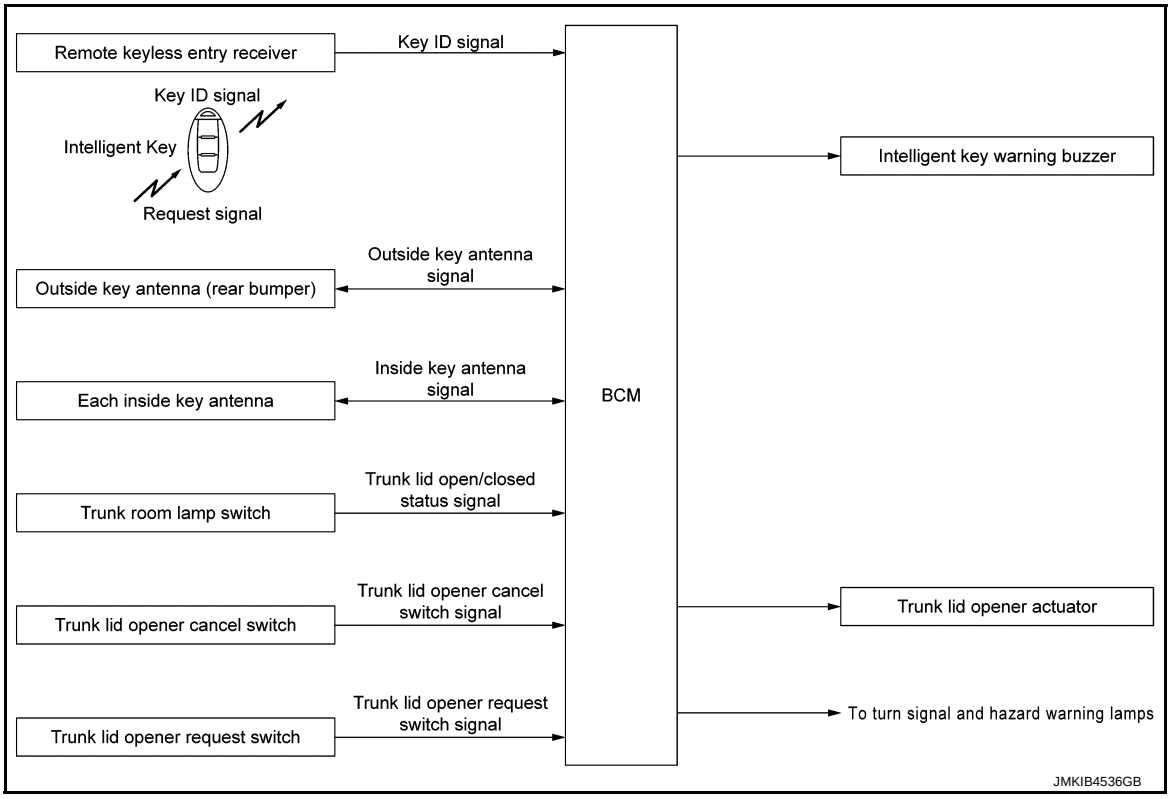
Function	Intelligent Key	Remote keyless entry receiver	Door switch	One touch unlock sensor	Door lock actuator	Inside key antenna	Outside key antenna	CAN communication system	BCM	Hazard warning lamp	Combination meter
One touch unlock function	×	×	×	×	×	×	×		×		
Selective unlock function (one touch unlock sensor)	×	×	×	×	×	×	×		×	×	
Reminder function (one touch unlock sensor)								×	×	×	×

TRUNK OPEN FUNCTION

TRUNK OPEN FUNCTION : System Description

INFOID:0000000011283168

SYSTEM DIAGRAM



Trunk open function controls operation function of the following items.
- Trunk lid opener function (trunk lid opener request switch)
- Reminder function (trunk lid opener request switch)
- Reminder function (trunk lid closed)

TRUNK LID OPENER FUNCTION (TRUNK LID OPENER REQUEST SWITCH)

When pressing the trunk lid opener request switch, it is possible to open the trunk lid by carrying the Intelligent Key.

Operation Description

- When the BCM detects that trunk lid opener request switch is pressed, it starts the outside key antenna (rear bumper) and inside key antenna and transmits the request signal to the Intelligent Key. Then, checks that the Intelligent Key is near the trunk lid.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM transmits trunk lid open signal and operates trunk lid opener actuator.

Operation Condition

If the following conditions are satisfied, the trunk lid can be opened.

Trunk lid opener request switch operation	Operation condition
Open	• All door are unlocked • Trunk lid opener cancel switch: ON • Intelligent Key is outside the vehicle • Theft warning alarm is not activated • Intelligent Key is within outside key antenna (rear bumper) detection area*

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

REMINDER FUNCTION (TRUNK LID OPENER REQUEST SWITCH)

The reminder function has C mode and S mode
When trunk lid is opened by trunk lid opener request switch, BCM activates Intelligent Key warning buzzer as a reminder in C mode.

Operation	C mode (Intelligent Key warning buzzer activates)
Trunk lid open	4 times

How to Change Reminder Function Operation Mode

With CONSULT

Reminder function operation mode can be changed using CONSULT.
Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

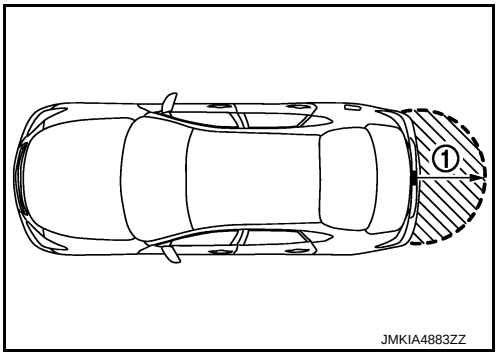
REMINDER FUNCTION (TRUNK LID CLOSED)

If the following conditions are satisfied, BCM blinks hazard warning lamps as a reminder.

Operation	Operation condition	Hazard warning lamp blink
Trunk lid: Open → Closed	All door: Closed and Locked	Twice

OUTSIDE KEY ANTENNA DETECTION AREA

The outside key antenna detection area of trunk lid opener function is in the range of approximately 80 cm (31.50 in) surrounding trunk lid opener request switch ①. However, this operating range depends on the ambient conditions.



LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

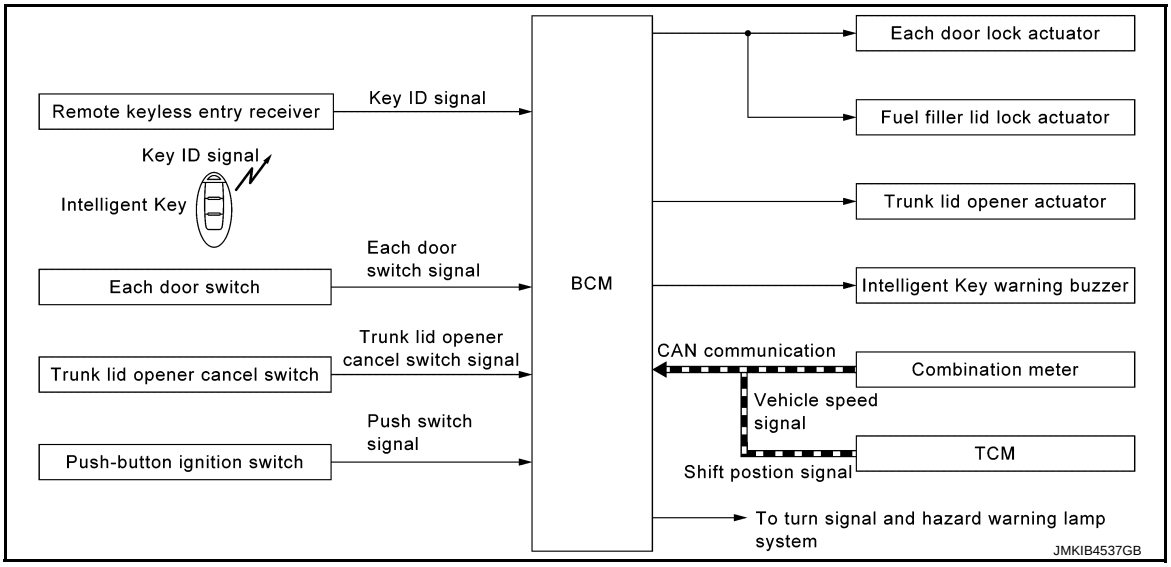
Function	Intelligent Key	Intelligent Key warning buzzer	Remote keyless entry receiver	Trunk lid opener actuator	Trunk room lamp switch	Trunk lid opener cancel switch	Inside key antenna	Outside key antenna (rear bumper)	CAN communication system	BCM	Hazard warning lamp	Trunk lid opener request switch
Trunk lid opener function (trunk lid opener request switch)	×		×	×	×	×	×	×	×	×		×
Reminder function (trunk lid opener request switch)		×								×		
Reminder function (trunk lid close)					×				×	×	×	

REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:0000000011283169

SYSTEM DIAGRAM



The Intelligent Key has the same functions as the remote control entry function. Therefore, it can be used in the same manner as the remote controller by operating the door lock/unlock button.
Remote keyless entry function controls operation function of the following items.

- Door lock and unlock function (Intelligent Key)
- Selective unlock function (Intelligent Key)
- Trunk lid opener function (Intelligent Key)
- Reminder function (Intelligent Key)
- Auto door lock function (Intelligent Key)
- Panic alarm

DOOR LOCK AND UNLOCK FUNCTION (INTELLIGENT KEY)

Operation Description

- When door lock/unlock button of the Intelligent Key is pressed, lock signal or unlock signal is transmitted from Intelligent Key to BCM via remote keyless entry receiver.
- BCM receives the signal and compares it with the registered key ID to the vehicle.
- BCM lock/unlock each door lock actuator and fuel filler lid, when key ID matches.

Operation Condition

If the following condition is satisfied, door lock and unlock operation is performed if the Intelligent Key button is pressed.

Intelligent Key button operation	Operation condition
Lock	• Panic alarm is not activate • P position warning is not activated
Unlock	Panic alarm is not activate

SELECTIVE UNLOCK FUNCTION (INTELLIGENT KEY)

Lock Operation

When an lock signal is sent from Intelligent Key, all doors and fuel filler lid are locked.

Unlock Operation

When an unlock signal from Intelligent Key is transmitted, driver door and fuel filler lid are unlocked. When unlock signal is transmitted from Intelligent Key within 60* seconds again, passenger door and rear doors are unlocked.

*: Default value is 60 seconds. This time changes according to auto lock function operation time.

How to Change Selective Unlock Function Operation Mode

Selective unlock function operation mode can be changed using CONSULT.
Refer to DLK-49, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

TRUNK LID OPENER FUNCTION (INTELLIGENT KEY)

Operation Description

- When trunk button of the Intelligent Key is pressed, the trunk open signal is transmitted from the Intelligent Key to the BCM via remote keyless entry receiver.
- When BCM receives the trunk open request signal, it operates the trunk lid opener actuator and opens the trunk lid.

Operation Condition

Intelligent Key button operation	Operation condition
Trunk open	• Trunk lid opener cancel switch: ON • Panic alarm is not activate • Ignition switch: LOCK or OFF position • Vehicle speed is less than 5 km/h (3 MPH)

REMINDER FUNCTION (INTELLIGENT KEY)

Operation Description

When doors are locked or unlocked by Intelligent Key button operation, BCM blinks hazard warning lamps as a reminder and transmits horn reminder signal to IPDM E/R via CAN communication. The reminder function has C mode and S mode.

Operation	C mode		S mode	
Intelligent Key Operation	Lock	Unlock	Lock	Unlock
Hazard warning lamp blinks	Twice	One	Twice	–
Horn sound	One	–	–	–

Operation Condition

- Reminder function does not operate if ignition switch in ACC or ON position.
- When any door is open, reminder function does not operate according to door lock operation.

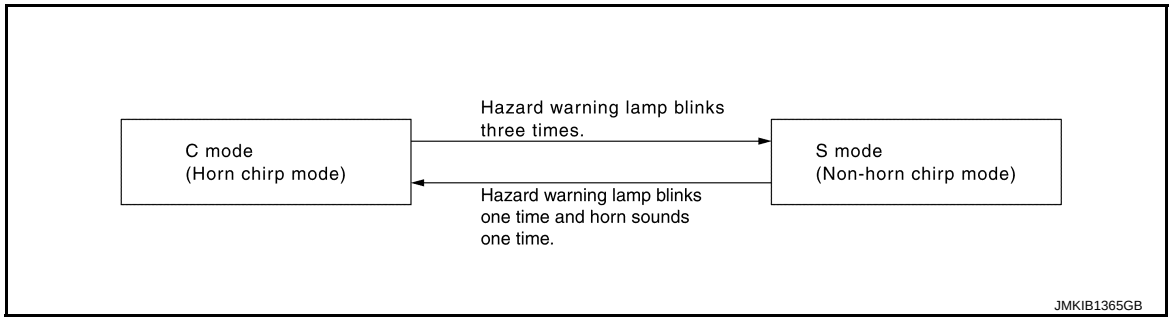
How to Change Reminder Function Operation Mode

With CONSULT

Reminder function operation mode can be changed using CONSULT.
Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

Without CONSULT

When lock and unlock signal are sent from the Intelligent Key for more than 4 seconds at the same time, the hazard and buzzer reminder mode is changed and hazard warning lamp blinks and horn sounds as per the following items:



AUTO DOOR LOCK FUNCTION (INTELLIGENT KEY)

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

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

How to Change Auto Door Lock Function Operation Time

Auto door lock function operation time can be changed using CONSULT.
Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

PANIC ALARM

When Intelligent Key panic alarm button is pressed, horn sounds and head lamp blinks.
Refer to SEC-19, "VEHICLE SECURITY SYSTEM : System Description".

OPERATION AREA

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

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

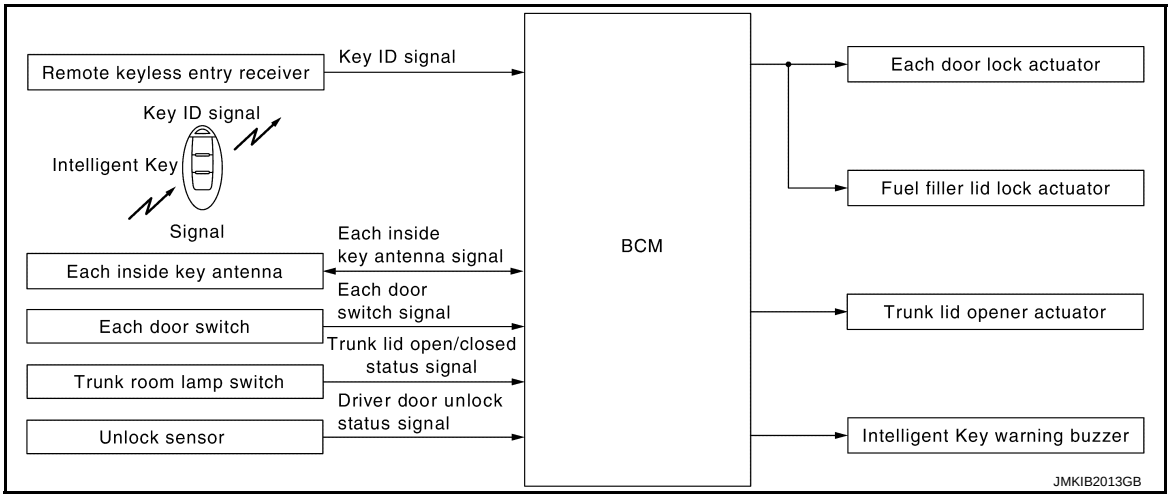
Function	Intelligent Key	Remote keyless entry receiver	Door switch	Door lock actuator	Push-button ignition switch	CAN communication system	Trunk lid opener cancel switch	BCM	IPDM E/R	Horn	Combination meter	Hazard warning lamp	Trunk lid opener actuator
Door lock and unlock function (Intelligent Key)	×	×		×		×		×					
Trunk lid opener function (Intelligent Key)	×	×			×	×	×	×			×		×
Reminder function (Intelligent Key)	×	×	×			×		×	×	×	×	×	
Auto door lock function (Intelligent Key)	×	×	×	×	×			×					

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION : System Description

INFOID:0000000011283170

SYSTEM DIAGRAM



BASIC OPERATION

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

Key remainder function	Operation condition	Operation
Driver door closed*	When all doors other than driver door are locked, driver door locks within 0.2 seconds after driver door is closed	All doors and fuel filler lid unlock
Door is open to closed	When all of the following conditions are satisfied • Locked all doors with door lock and unlock switch • [Any door: open] → [all doors: closed] • Registered Intelligent Key is inside the vehicle	• All doors and fuel filler lid unlock • Honk Intelligent Key warning buzzer
Trunk is closed	When all of the following conditions are satisfied • [Trunk lid: Open] → [trunk lid: closed] • All doors: closed • All doors: locked • Registered Intelligent Key is inside trunk room	• Trunk open • 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 perform in these cases.

NOTE:

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

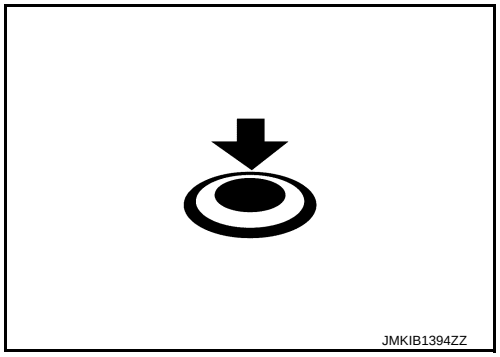
INFORMATION DISPLAY (COMBINATION METER)

INFORMATION DISPLAY (COMBINATION METER) : ACC Warning (Information Display)

INFOID:0000000011283171

DESIGN/PURPOSE

When the P position warning is canceled, an alarm warns the driver that the ignition switch is in the ACC position.

Symbol	Message
	Push Ignition to OFF

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

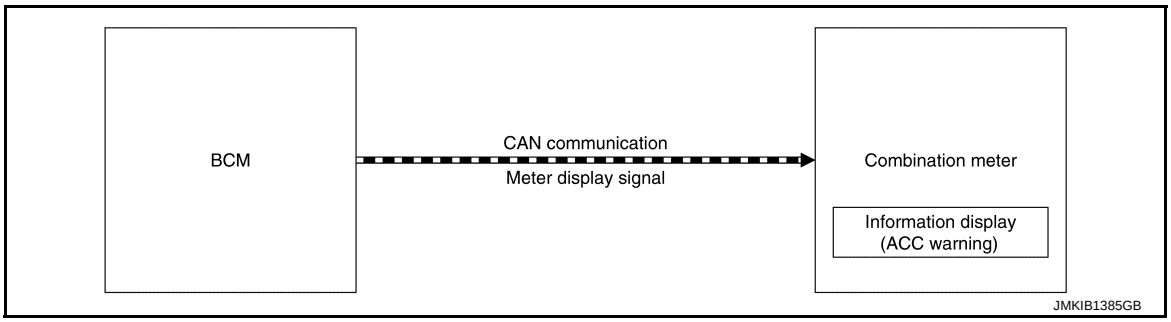
Refer to MWI-34, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp".

SYNCHRONIZATION WITH WARNING CHIME

Synchronization is applied. [ACC warning (buzzer)]

Refer to WCS-7, "WARNING CHIME : ACC Warning (Buzzer)".

SYSTEM DIAGRAM



SIGNAL PATH

- BCM transmits meter display signal to combination meter via CAN communication, when ACC warning (buzzer) is operated.
- When combination meter receives meter display signal, ACC warning (information display) displays.

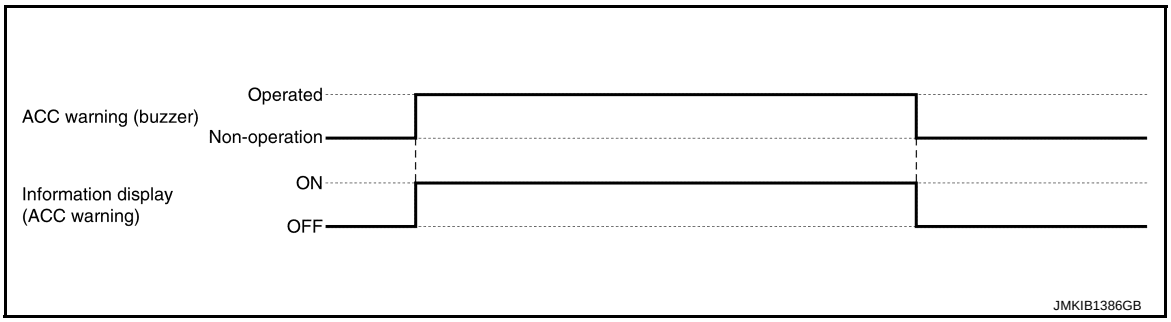
WARNING/INDICATOR OPERATIONG CONDITION

ACC warning (buzzer) operates.

WARNING/INDICATOR CANCEL CONDITION

ACC warning (buzzer) is canceled.

TIMING CHART

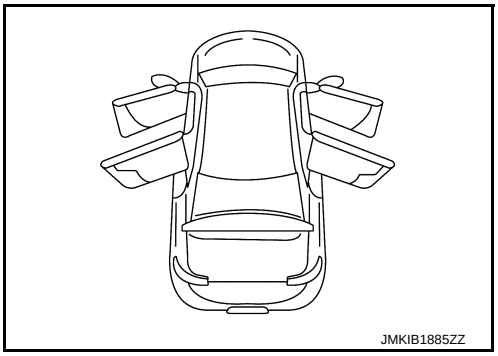


INFORMATION DISPLAY (COMBINATION METER) : Door and Trunk Lid Open Warning

INFOID:0000000011283172

DESIGN/PURPOSE

Information display warns the driver that each door or trunk lid is open or is not fully closed.

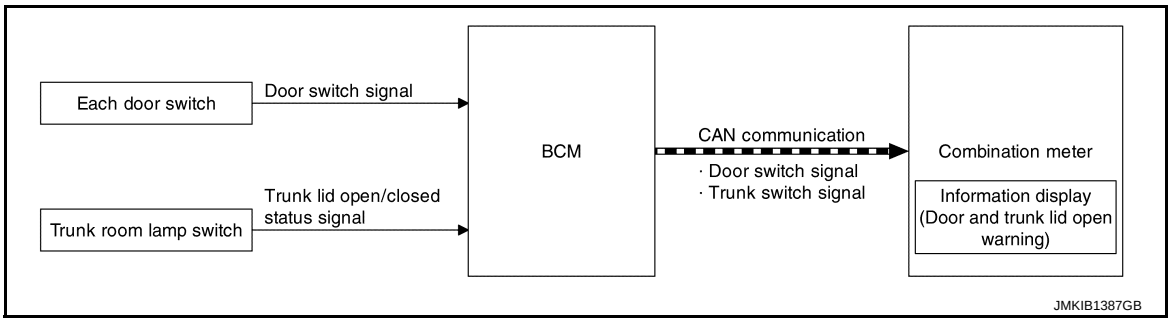
Symbol	Message
 JMKIB1885ZZ	–

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

Refer to MWI-34, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp".

SYSTEM DIAGRAM



SIGNAL PATH

- BCM transmits door switch signal or trunk switch signal to combination meter via CAN communication.
- When combination meter judges according to received door switch signal or trunk switch signal that a door is open or trunk lid is open or is not fully closed, door and trunk lid open warning displays.

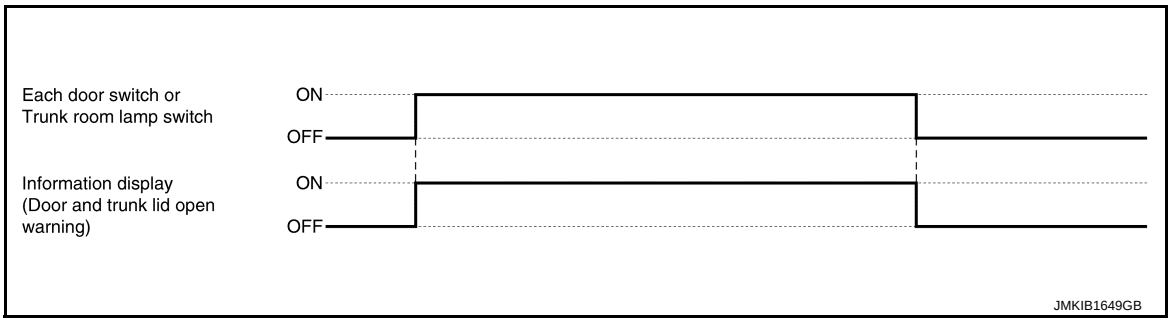
WARNING/INDICATOR OPERATIONG CONDITION

Each door switch or trunk room lamp switch is ON

WARNING/INDICATOR CANCEL CONDITION

All door switches and trunk room lamp switch are OFF

TIMING CHART

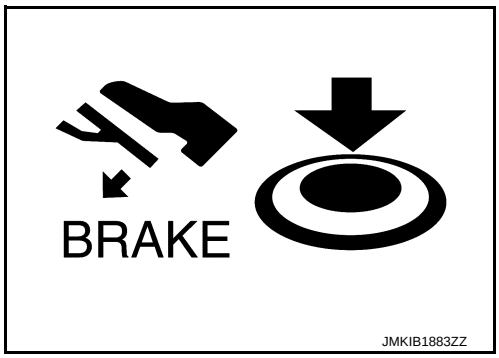


INFORMATION DISPLAY (COMBINATION METER) : Engine Start Information

INFOID:0000000011283173

DESIGN/PURPOSE

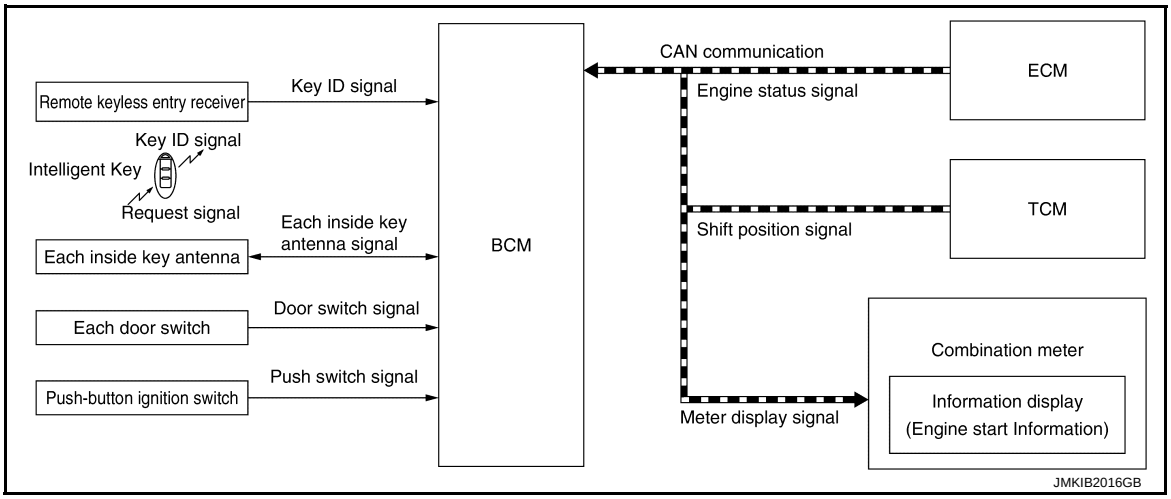
Information display informs the driver that the engine can be started.

Symbol	Message
	–

SYNCHRONIZATION WITH MASTER WARNING LAMP

No applicable

SYSTEM DIAGRAM



SIGNAL PATH

- BCM receives shift position signal and engine status signal from TCM and ECM via CAN communication and checks that the engine can be started.
- When BCM detects that the engine can be started, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, engine start information displays.

WARNING/INDICATOR OPERATIONG CONDITION

When Ignition Switch is ON.
When all of the following conditions are satisfied.
- Ignition switch is in ON position.
- Shift position: P position
- Engine can be started.

When Ignition Switch is Other Than ON.
When all of the following conditions are satisfied.
- One condition of A
- All conditions of B

A condition	B condition
• Any door is open → All door is closed • Push-button ignition switch: Pressed • Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed.	• Ignition switch: Other than ON position • Shift position: P position • Registered Intelligent Key is detected inside vehicle.

When Ignition Switch is Turned From ON to OFF.
When all of the following conditions are satisfied.
- Ignition switch: ON → OFF
- Shift position: P position
- Registered Intelligent Key is detected inside vehicle.

NOTE:
Engine start information turns ON for several seconds and then turns OFF, when ignition switch is turned to the ON position from the OFF position. Engine start information does not turn ON until opening and closing of driver door is detected again.

WARNING/INDICATOR CANCEL CONDITION

When Ignition Switch is ON.
When any of the following conditions are satisfied.
- Shift position: Other than P position
- Engine is started.
- Engine cannot start.

When Ignition Switch is Other than ON.
When any of the following conditions are satisfied.

- Shift position: Other than P position
- Registered Intelligent Key is not detected inside the vehicle.
- When BCM receives Intelligent Key button operation via remote keyless entry receiver.
- When BCM receives door request switch signal from door request switch.
- After 15 seconds are passed since the engine start information is displayed.

When Ignition Switch is Turned From ON to OFF.

- After several seconds are passed since the engine start information is displayed.

INFORMATION DISPLAY (COMBINATION METER) : Intelligent Key Low Battery Warning

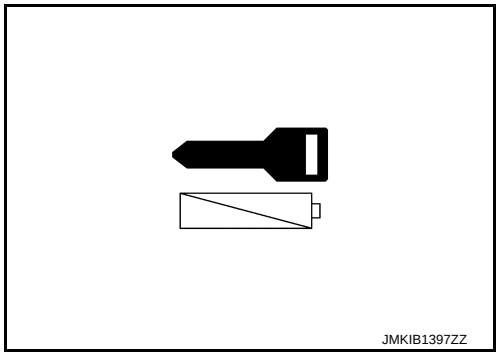
INFOID:0000000011283174

DESIGN/PURPOSE

Information display warns the driver that Intelligent Key battery level is low.

NOTE:

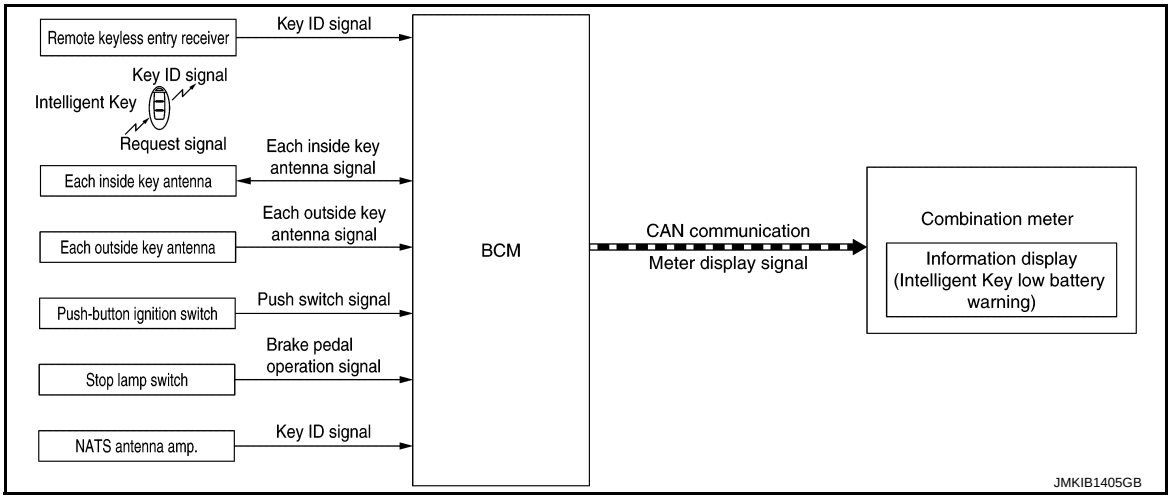
Information display does not displays when Intelligent Key battery is discharged.

Symbol	Message
	Key Battery Low

SYNCHRONIZATION WITH MASTER WARNING LAMP

No applicable

SYSTEM DIAGRAM



SIGNAL PATH

- When Intelligent Key receives request signal from inside key antenna or outside key antenna, transmits key ID signal is transmitted from Intelligent Key to remote keyless entry receiver.
- BCM receives key ID signal via remote keyless entry receiver and detects that Intelligent Key battery level is low.
- When BCM detects that ignition switch is ON, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, Intelligent Key low battery warning displays.

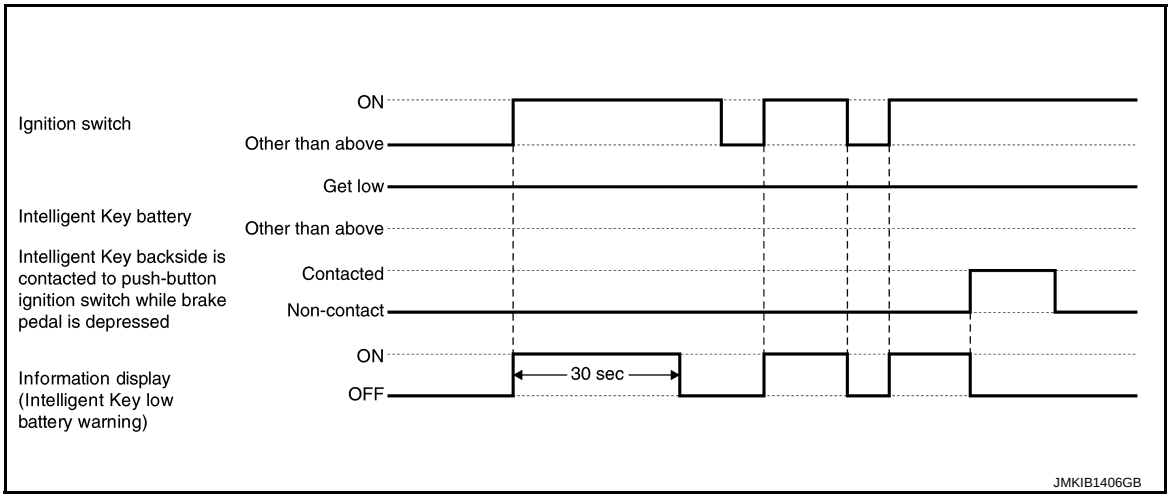
WARNING/INDICATOR OPERATIONG CONDITION

When all of the following conditions are satisfied.
- Ignition switch is in ON position.
- Intelligent Key battery level is low.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.
- After 30 seconds are passed since the Intelligent Key low battery warning is displayed
- Ignition switch is in a position other than ON.
- When Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed.

TIMING CHART

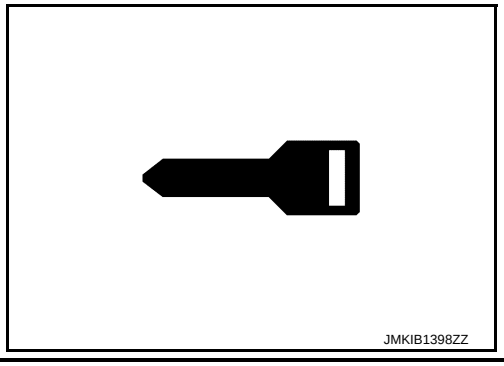


INFORMATION DISPLAY (COMBINATION METER) : Intelligent Key System Malfunction

INFOID:0000000011283175

DESIGN/PURPOSE

Information display warns the driver that Intelligent Key system malfunctions or that engine cannot be started.

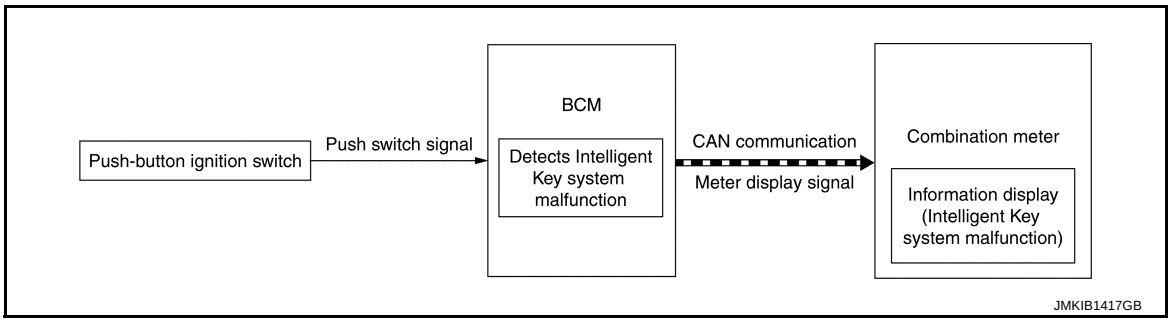
Symbol	Message
 JMKIB1398ZZ	Key System Error See Owner's Manual

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.

Refer to MWI-34, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp".

SYSTEM DIAGRAM



SIGNAL PATH

- When BCM detects that Intelligent Key system malfunctions or that the engine cannot be started, meter display signal is transmitted by BCM to combination meter via can communication.
- When combination meter receives meter display signal, Intelligent Key system malfunction displays.

WARNING/INDICATOR OPERATING CONDITION

When any of the following conditions are satisfied.

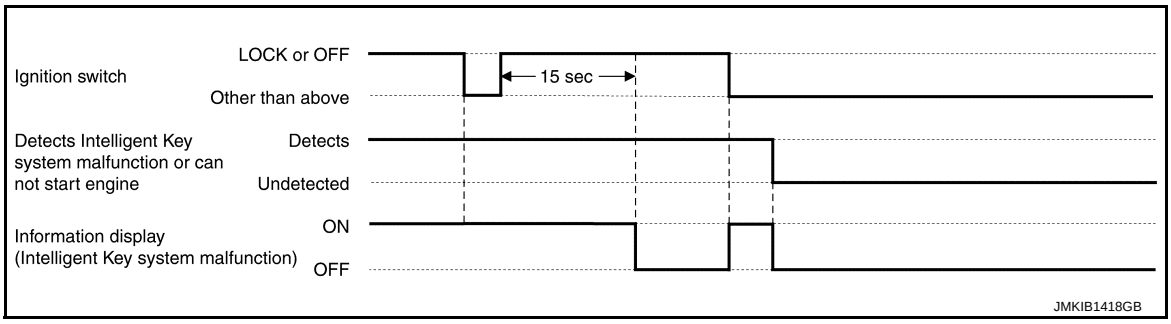
- The engine cannot be started.
- Intelligent Key system malfunction is detected.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

- Intelligent Key system malfunction or engine non-start status is resolved.
- Ignition switch is turned to LOCK or OFF, and 15 seconds are passed.

TIMING CHART

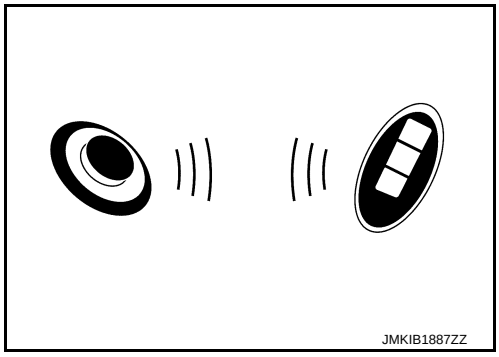


INFORMATION DISPLAY (COMBINATION METER) : Key ID Verification Information

INFOID:0000000011283176

DESIGN/PURPOSE

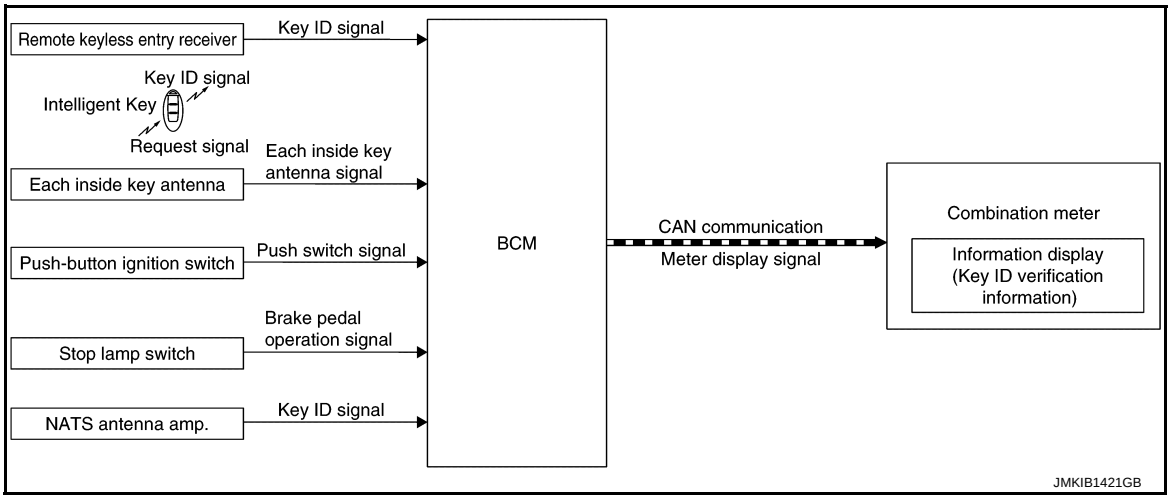
If the system cannot detect a registered Intelligent Key inside the vehicle, it informs the driver that it is necessary for the vehicle to detect a registered Intelligent Key.

Symbol	Message
 JMKIB1887ZZ	–

SYNCHRONIZATION WITH MASTER WARNING LAMP

No applicable

SYSTEM DIAGRAM



SIGNAL PATH

- BCM activates inside key antenna and checks that Intelligent Key is in vehicle, when push-button ignition switch operation is performed while ignition switch position is LOCK.
- When BCM does not detect a registered Intelligent Key in vehicle, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, key ID warning displays.
- After 5 seconds are passed since the key ID warning is displayed, key ID verification information displays.

WARNING/INDICATOR OPERATIONG CONDITION

When all of the following conditions are satisfied.

- Ignition switch: LOCK position
- Push-button ignition switch operation is performed.
- Registered Intelligent Key is not detected inside the vehicle.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

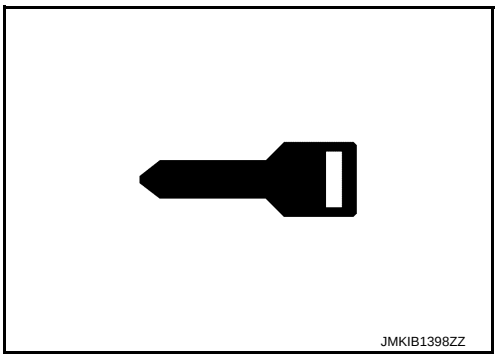
- After 25 seconds are passed since the key ID verification information is displayed.
- When all door is locked with Intelligent Key or door request switch
- Lock the doors after all doors are closed
- When Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed.

INFORMATION DISPLAY (COMBINATION METER) : Key ID Warning

INFOID:0000000011283177

DESIGN/PURPOSE

Information display warns the driver that Intelligent Key is not detected in vehicle.

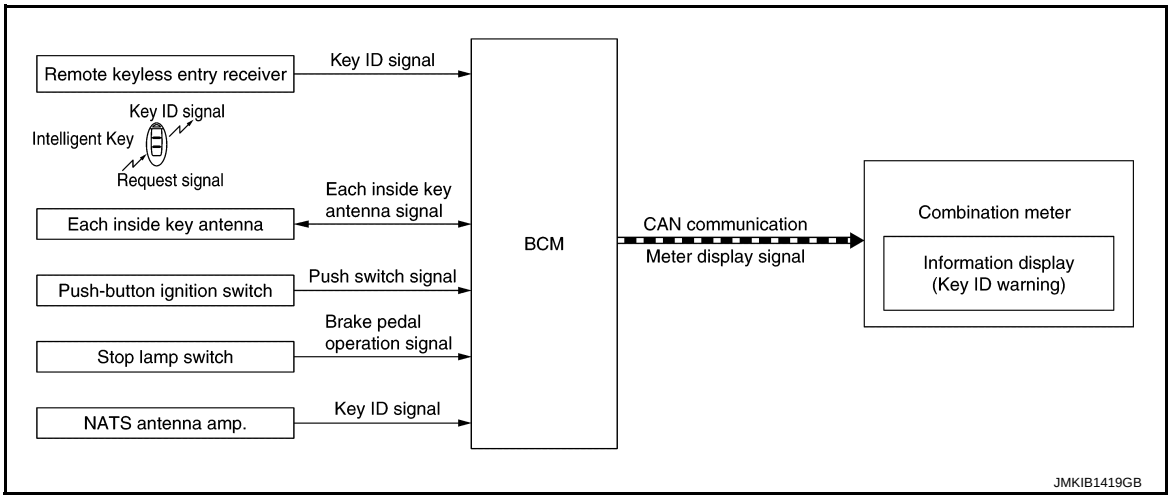
Symbol	Message
 JMKIB1398ZZ	Key ID Incorrect

SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchonization is applied.

Refer to MWI-34, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp".

SYSTEM DIAGRAM



SIGNAL PATH

- BCM activates inside key antenna and checks that Intelligent Key is in vehicle, when push-button ignition switch operation is performed while ignition switch position is LOCK.
- When BCM does not detect a registered Intelligent Key in vehicle, meter display signal is transmitted by BCM to combination meter via CAN communication.
- When combination meter receives meter display signal, key ID warning displays.

WARNING/INDICATOR OPERATING CONDITION

When all of the following conditions are satisfied.

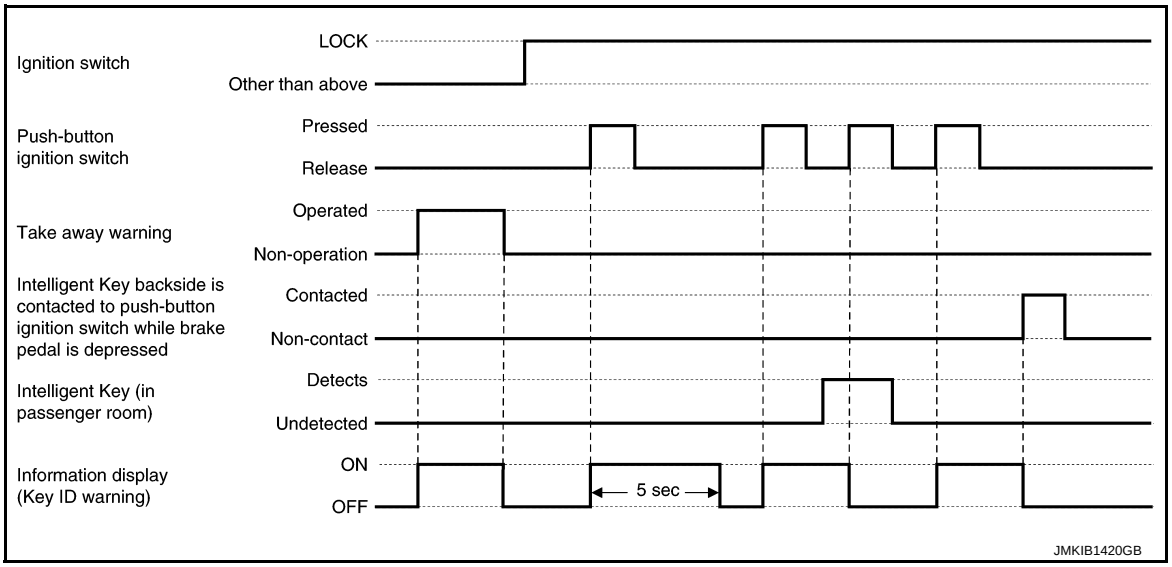
- Ignition switch is in LOCK position
- Push-button ignition switch operation is performed.
- A registered Intelligent Key is not detected inside the vehicle.

WARNING/INDICATOR CANCEL CONDITION

When any of the following conditions are satisfied.

- 5 seconds are passed since operation start.
- A registered Intelligent Key is detected in passenger room when push-button ignition switch is operated.
- Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed (when Intelligent Key battery is discharged).

TIMING CHART

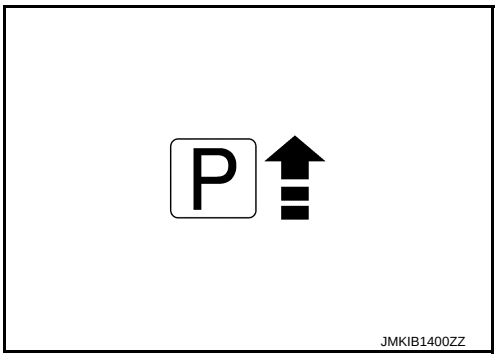


INFORMATION DISPLAY (COMBINATION METER) : P Position Warning (Information Display)

INFOID:0000000011283178

DESIGN/PURPOSE

Information display warns the driver of egression from the vehicle while shift is other than P position.

Symbol	Message
 JMKIB1400ZZ	Shift to Park

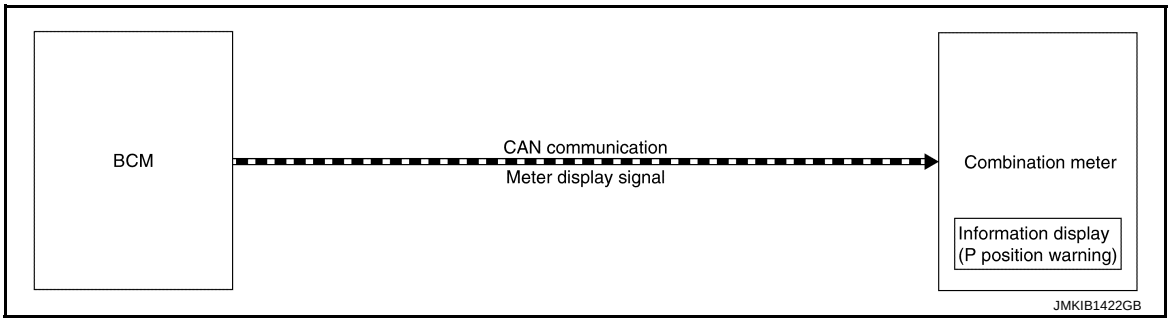
SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.
Refer to MWI-34, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp".

SYNCHRONIZATION WITH WARNING CHIME

Synchronization is applied. [P position warning (buzzer)]
Refer to WCS-13, "WARNING CHIME : P Position Warning (Buzzer)".

SYSTEM DIAGRAM



SIGNAL PATH

- BCM transmits meter display signal to combination meter via CAN communication, when P position warning (buzzer) is operated.
- When combination meter receives meter display signal, P position warning displays.

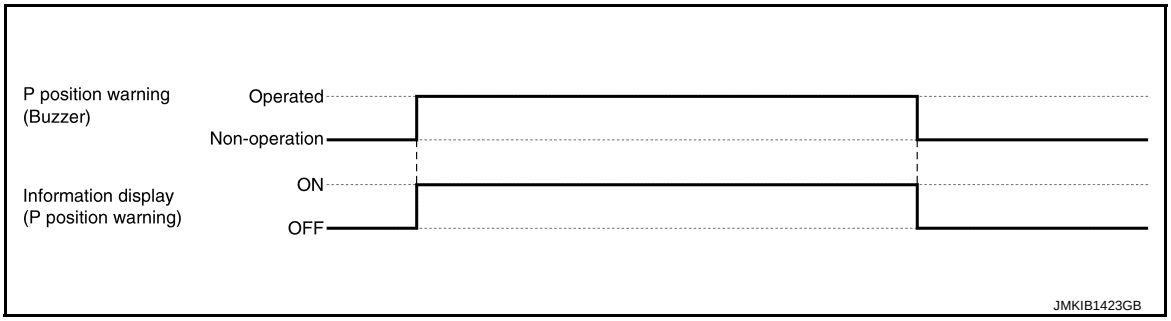
WARNING/INDICATOR OPERATING CONDITION

P position warning (buzzer) is operated.
Refer to WCS-13, "WARNING CHIME : P Position Warning (Buzzer)".

WARNING/INDICATOR CANCEL CONDITION

P position warning (buzzer) is canceled.
Refer to WCS-13, "WARNING CHIME : P Position Warning (Buzzer)".

TIMING CHART



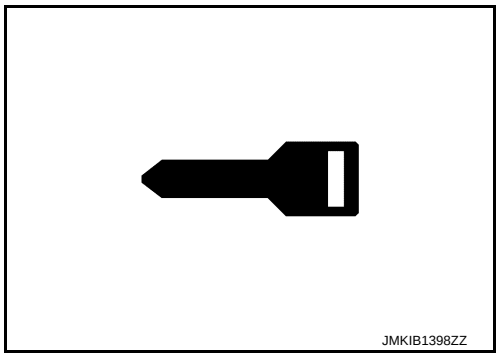
INFORMATION DISPLAY (COMBINATION METER) : Take Away Warning (Informa-

tion Display)

INFOID:0000000011283179

DESIGN/PURPOSE

Information display warns the driver that Intelligent Key is not detected in vehicle.

Symbol	Message
 JMKIB1398ZZ	No Key Detected

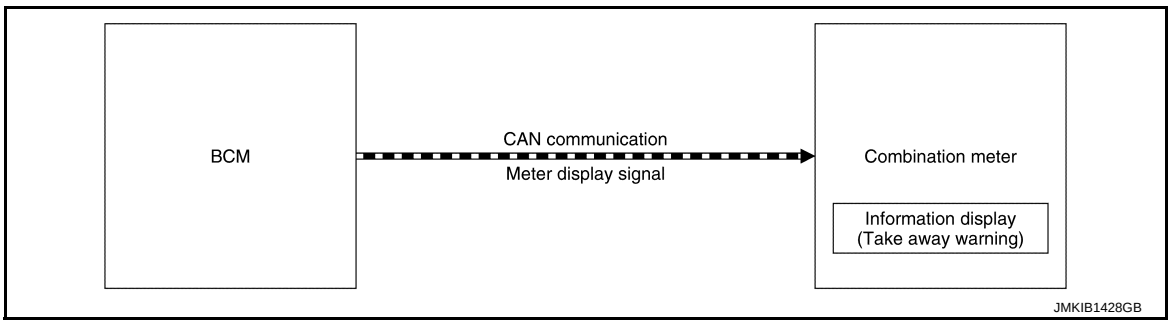
SYNCHRONIZATION WITH MASTER WARNING LAMP

Synchronization is applied.
Refer to MWI-34, "WARNING LAMPS/INDICATOR LAMPS : Master Warning Lamp".

SYNCHRONIZATION WITH WARNING CHIME

Take away warning
Refer to WCS-18, "WARNING CHIME : Take Away Warning (Buzzer)".

SYSTEM DIAGRAM



SIGNAL PATH

- BCM transmits meter display signal to combination meter via CAN communication, when take away warning (buzzer) is operated.
- When combination meter receives meter display signal, take away warning displays.

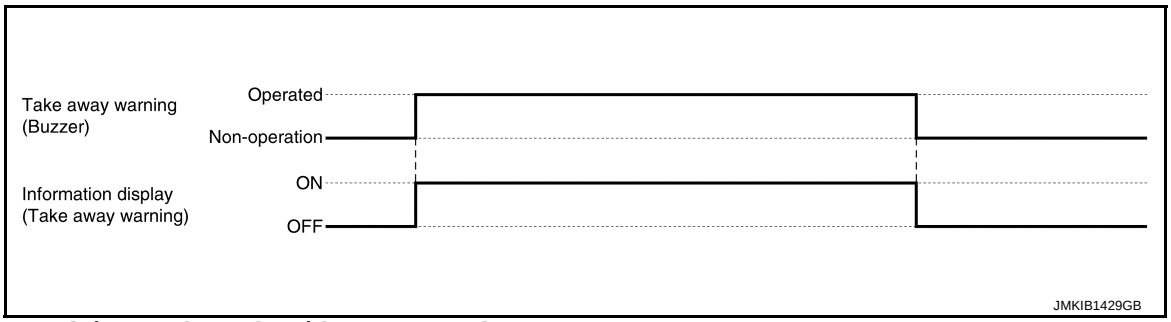
WARNING/INDICATOR OPERATING CONDITION

Take away warning (buzzer) operates.
Refer to WCS-18, "WARNING CHIME : Take Away Warning (Buzzer)".

WARNING/INDICATOR CANCEL CONDITION

Take away warning (buzzer) is canceled.
Refer to WCS-18, "WARNING CHIME : Take Away Warning (Buzzer)"

TIMING CHART



WARNING/INDICATOR/CHIME LIST

WARNING/INDICATOR/CHIME LIST : Warning Lamp/Indicator (Information Display)

INFOID:0000000011283180

Item	Reference
ACC warning	Refer to DLK-34, "INFORMATION DISPLAY (COMBINATION METER) : ACC Warning (Information Display)"
Door and trunk lid open warning	Refer to DLK-35, "INFORMATION DISPLAY (COMBINATION METER) : Door and Trunk Lid Open Warning"
Engine start information	Refer to DLK-36, "INFORMATION DISPLAY (COMBINATION METER) : Engine Start Information"
Intelligent Key low battery warning	Refer to DLK-38, "INFORMATION DISPLAY (COMBINATION METER) : Intelligent Key Low Battery Warning"
Intelligent Key system malfunction	Refer to DLK-39, "INFORMATION DISPLAY (COMBINATION METER) : Intelligent Key System Malfunction"
Key ID verification information	Refer to DLK-40, "INFORMATION DISPLAY (COMBINATION METER) : Key ID Verification Information"
Key ID warning	Refer to DLK-41, "INFORMATION DISPLAY (COMBINATION METER) : Key ID Warning"
P position warning	Refer to DLK-42, "INFORMATION DISPLAY (COMBINATION METER) : P Position Warning (Information Display)"
Take away warning	Refer to DLK-43, "INFORMATION DISPLAY (COMBINATION METER) : Take Away Warning (Information Display)"

WARNING/INDICATOR/CHIME LIST : Warning Chime

INFOID:0000000011283181

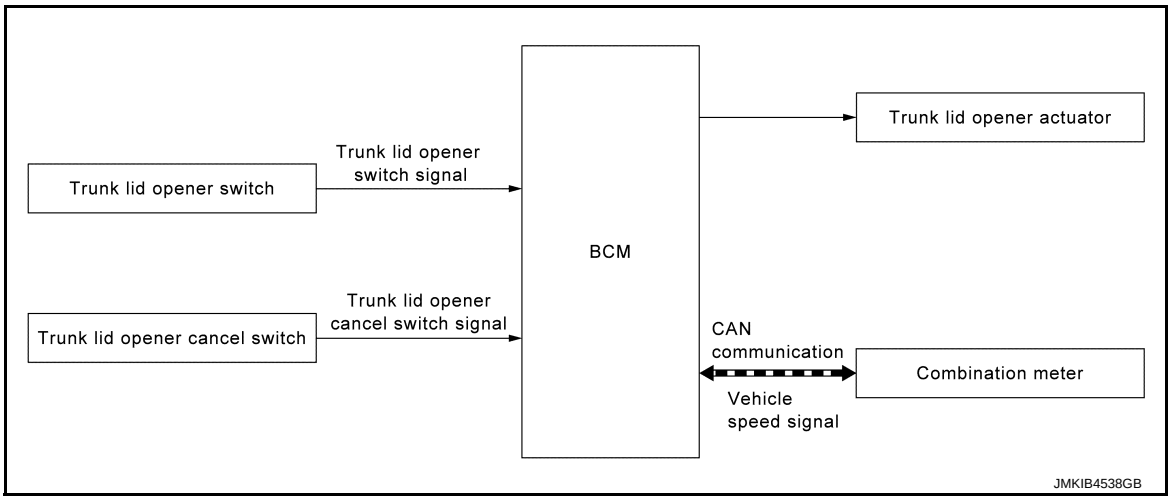
Item	Reference
ACC warning	Refer to WCS-7, "WARNING CHIME : ACC Warning (Buzzer)".
Door lock operation warning	Refer to WCS-8, "WARNING CHIME : Door Lock Operation Warning".
OFF position warning	Refer to WCS-11, "WARNING CHIME : OFF Position Warning".
P position warning	Refer to WCS-13, "WARNING CHIME : P Position Warning (Buzzer)".
Take away warning	Refer to WCS-18, "WARNING CHIME : Take Away Warning (Buzzer)".

SYSTEM (TRUNK LID OPENER SYSTEM)

System Description

INFOID:0000000011283182

SYSTEM DIAGRAM



TRUNK LID OPENER OPERATION

When trunk lid opener switch is ON, BCM operates trunk lid opener actuator and open trunk lid.

OPERATION CONDITION

If the following conditions are satisfied, trunk open operation is performed.

Trunk lid opener switch operation	Operation condition
Trunk lid open	• Theft warning alarm is not activated • Trunk lid opener cancel switch: ON • Vehicle speed is less than 5 km/h (3 MPH)

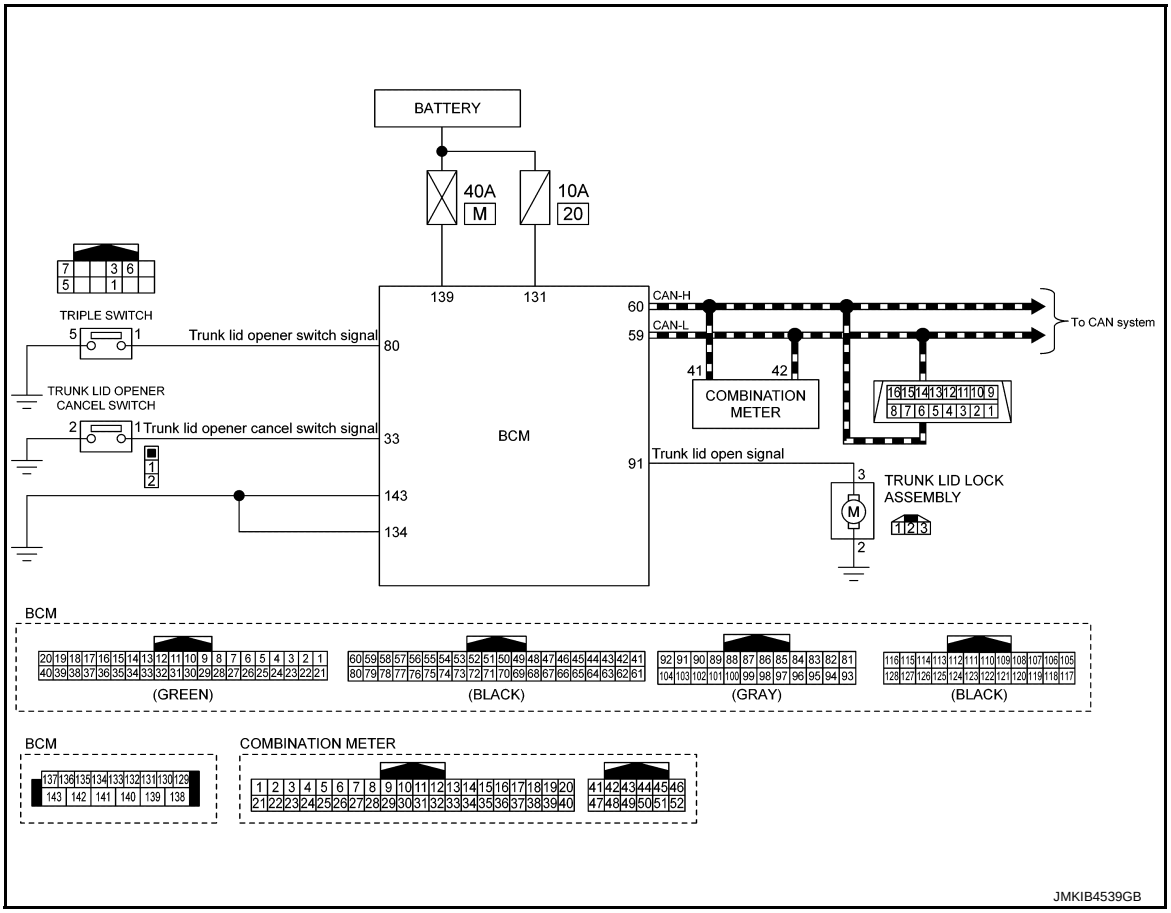
REMINDER FUNCTION (TRUNK LID CLOSED)

If the following conditions are satisfied, BCM blinks hazard warning lamps as a reminder.

Operation	Operation condition	Hazard warning lamp blink
Trunk lid: Open → Closed	All door: Closed and Locked	Twice

Circuit Diagram

INFOID:0000000011283183



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

INFOID:0000000011562008

APPLICATION ITEM
CONSULT performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
Work Support	Changes the setting for each system function.
Self Diagnostic Result	Displays the diagnosis results judged by BCM.
CAN Diag Support Monitor	Monitors the reception status of CAN communication viewed from BCM.
Data Monitor	The BCM input/output signals are displayed.
Active Test	The signals used to activate each device are forcibly supplied from BCM.
Ecu Identification	The BCM part number is displayed.
Configuration	• Read and save the vehicle specification. • Write the vehicle specification when replacing BCM.

SYSTEM APPLICATION
BCM can perform the following functions for each system.
NOTE:
It can perform the diagnosis modes except the following for all sub system selection items.

×: Applicable item

System	Sub system selection item	Diagnosis mode		
		Work Support	Data Monitor	Active Test
Door lock	DOOR LOCK	×	×	×
Rear window defogger	REAR DEFOGGER	×	×	×
Warning chime	BUZZER		×	×
Interior room lamp timer	INT LAMP	×	×	×
Exterior lamp	HEAD LAMP	×	×	×
Wiper and washer	WIPER	×	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
—	AIR CONDITONER*		×	×
• Intelligent Key system • Engine start system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
IVIS - NATS	IMMU	×	×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk lid open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	AIR PRESSURE MONITOR			×

*: This item is not used.

FREEZE FRAME DATA (FFD)
The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

CONSULT screen item	Indication/Unit	Description	
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected*	While turning BCM status from low power consumption mode to normal mode (Power supply position is “LOCK”*)
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is “OFF”.)
	LOCK>ACC		While turning power supply position from “LOCK” *to “ACC”
	ACC>ON		While turning power supply position from “ACC” to “IGN”
	RUN>ACC		While turning power supply position from “RUN” to “ACC” (Vehicle is stopping and selector lever is except P position.)
	CRANK>RUN		While turning power supply position from “CRANKING” to “RUN” (From cranking up the engine to run it)
	RUN>URGENT		While turning power supply position from “RUN“ to “ACC” (Emergency stop operation)
	ACC>OFF		While turning power supply position from “ACC” to “OFF”
	OFF>LOCK		While turning power supply position from “OFF” to “LOCK”*
	OFF>ACC		While turning power supply position from “OFF” to “ACC”
	ON>CRANK		While turning power supply position from “IGN” to “CRANKING”
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is “OFF”.) to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is “LOCK”*.) to low power consumption mode
	LOCK		Power supply position is “LOCK” (Ignition switch OFF)*
	OFF		Power supply position is “OFF” (Ignition switch OFF)
	ACC		Power supply position is “ACC” (Ignition switch ACC)
	ON		Power supply position is “IGN” (Ignition switch ON with engine stopped)
	ENGINE RUN		Power supply position is “RUN” (Ignition switch ON with engine running)
	CRANKING		Power supply position is “CRANKING” (At engine cranking)
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.	

NOTE:
*: Power supply position shifts to “LOCK” from “OFF”, when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met.
- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

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

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:0000000011283185

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

WORK SUPPORT

Monitor item	Description
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operation with this mode • On: Operate • Off: Non-operation
AUTO UNLOCK TYPE	Automatic door lock/unlock function (unlock operation) mode can be selected from the following in this mode • MODE1: All doors are unlocked • MODE2: Only driver door is unlocked
AUTO LOCK FUNCTION	Automatic door lock/unlock function (lock operation) mode can be selected from the following in the mode • MODE1: All doors are locked when vehicle speed more than 24 km/h (15 MPH) • MODE2: All doors are locked when shifting the selector lever from P position to other than the P position • MODE3: Non-operation • Off: Non-operation
AUTO UNLOCK FUNCTION	Automatic door lock/unlock function (unlock operation) mode can be selected from the following in this mode • MODE1: All doors are unlocked when the power supply position is changed from ON to OFF • MODE2: All doors are unlocked when shifting the selector lever from any position other than the P to P position • MODE3: Non-operation • Off: Non-operation
SIGNATURE LIGHT SETTING	Signature light function can be changed to operation with this mode • On: Operate • Off: Non-operation

DATA MONITOR

NOTE:
The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Contents
REQ SW -DR	Indicated [On/Off] condition of door request switch (driver side)
REQ SW -AS	Indicated [On/Off] condition of door request switch (passenger side)
REQ SW -BD/TR	Indicated [On/Off] condition of trunk lid opener request switch
DOOR SW-DR	Indicated [On/Off] condition of front door switch (driver side)
DOOR SW-AS	Indicated [On/Off] condition of front door switch (passenger side)
DOOR SW-RR	Indicated [On/Off] condition of rear door switch RH
DOOR SW-RL	Indicated [On/Off] condition of rear door switch LH
DOOR SW-BK	**NOTE:** This item is displayed, but cannot be monitored
CDL LOCK SW	Indicated [On/Off] condition of lock signal from door lock and unlock switch
CDL UNLOCK SW	Indicated [On/Off] condition of unlock signal from door lock and unlock switch
KEY CYL LK-SW	Indicated [On/Off] condition of lock signal from door key cylinder switch
KEY CYL UN-SW	Indicated [On/Off] condition of unlock signal from door key cylinder switch
SHOCK SENSOR	**NOTE:** This item is displayed, but cannot be monitored

ACTIVE TEST

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation • ALL LOCK: The all door lock actuators are locked. • ALL UNLK: The all door lock actuators are unlocked.

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000011283186

WORK SUPPORT

Monitor item	Description
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis
LOCK/UNLOCK BY I-KEY	Door lock function (door request switch) mode can be changed to operation in this mode • On: Operate • Off: Non-operation
ENGINE START BY I-KEY	Engine start function mode can be changed to operation with this mode • On: Operate • Off: Non-operation
TRUNK/GLASS HATCH OPEN	Reminder function (trunk lid opener request switch) mode can be changed to operation with this mode • On: Operate • Off: Non-operation
AUTO LOCK SET	Auto door lock operation time can be changed in this mode • MODE 1: OFF • MODE 2: 30 sec. • MODE 3: 1 minute • MODE 4: 2 minutes • MODE 5: 3 minutes • MODE 6: 4 minutes • MODE 7: 5 minutes
SHORT CRANKING OUTPUT	Starter motor can operate during the times below • 70 msec • 100 msec • 200 msec
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode
RETRACTABLE MIRROR SET	**NOTE:** This item is displayed, but cannot be used
TOUCH SENSOR UNLOCK FUNCTION SETTING	One touch unlock function can be changed to operation with this mode • On: Operate • Off: Non-operation
IGN/ACC BATTERY SAVER	Ignition battery saver system mode can be changed to operation with this mode • On: Operate • Off: Non-operation
REMOTE ENGINE STARTE	**NOTE:** This item is displayed, but cannot be used
INTELLIGENT KEY LINK SET	**NOTE:** This item is displayed, but cannot be used
ANSWER BACK	Reminder function (door request switch and Intelligent Key) mode can be selected from the following with this mode • On: S mode (buzzer or horn reminder non-operation) • Off: C mode (buzzer or horn operate)
ANSWER BACK I-KEY LOCK UN-LOCK	Reminder function (door request switch) mode can be selected from the following with this mode • BUZZER: Sound Intelligent Key warning buzzer • HORN: Sound horn • Off: Only hazard warning lamp operate • INVALID: This item is displayed, but cannot be used
ANSWERBACK KEYLESS LOCK UNLOCK	Reminder function (Intelligent Key) mode can be selected from the following with this mode • On: Horn and hazard warning lamp operate • Off: Only hazard warning lamp operate
WELCOME LIGHT OP SET	**NOTE:** This item is displayed, but cannot be used

SELF-DIAG RESULT

Refer to BCS-62, "DTC Index".

DATA MONITOR

NOTE:
The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition
REQ SW -DR	Indicates [On/Off] condition of front door request switch (driver side)
REQ SW -AS	Indicates [On/Off] condition of front door request switch (passenger side)
REQ SW -BD/TR	Indicates [On/Off] condition of trunk lid opener request switch
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
SHFTLCK SLNID PWR SPLY	Indicates [On/Off] condition of the power supply from BCM to shift lock solenoid
CLUCH SW	**NOTE:** This item is displayed, but cannot be monitored
BRAKE SW 1	Indicates [On/Off]* condition of stop lamp switch power supply
BRAKE SW 2	Indicates [On/Off] condition of stop lamp switch
DETE/CANCL SW	Indicates [On/Off] condition of P position
SFT PN/N SW	Indicates [On/Off] condition of P or N position
UNLK SEN -DR	Indicates [On/Off] condition of driver door UNLOCK status
PUSH SW -IPDM	Indicates [On/Off] condition of push-button ignition switch
IGN RLY1 -F/B	Indicates [On/Off] condition of ignition relay 1
DETE SW -IPDM	Indicates [On/Off] condition of P position
SFT PN -IPDM	Indicates [On/Off] condition of P or N position
SFT P -MET	Indicates [On/Off] condition of P position
SFT N -MET	Indicates [On/Off] condition of N position
ENGINE STATE	Indicates [STOP/STALL/CRANK/RUN] condition of engine states
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [km/h]
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or TCM by numerical value [km/h]
DOOR STAT-DR	Indicates [LOCK/READY/UNLK] condition of driver door status
DOOR STAT-AS	Indicates [LOCK/READY/UNLK] condition of passenger door status
DOOR STAT-RR	Indicates [LOCK/READY/UNLK] condition of rear door RH status
DOOR STAT-RL	Indicates [LOCK/READY/UNLK] condition of rear door LH status
BK DOOR STATE	**NOTE:** This item is displayed, but cannot be monitored
ID OK FLAG	Indicates [Set/Reset] condition of Intelligent Key ID
PRMT ENG STRT	Indicates [Set/Reset] condition of engine start possibility
PRMT RKE STRT	**NOTE:** This item is displayed, but cannot be monitored
I-KEY OK FLAG	Indicates [KEY On/NOT On] condition of Intelligent Key ID and Intelligent Key is detected in-side vehicle
PRBT ENG STRT	Indicates whether or not the engine is in start prohibited status
ID AUTHENT CANCEL TIMER	Indicates whether or not it is in engine start possible status when Intelligent Key verification is unnecessary
ACC BATTERY SAVER	Indicates [On/Off] whether or not ignition battery saver is in operation
CRNK PRBT TMR	Indicates [On/Off] whether or not in cranking prohibited status due to starter motor protection function operation
AUT CRANK TMR	Indicates [On/Off] whether or not in AUTO CRANKING MODE status
CRNK PRBT TME	Indicates the time for changing from cranking prohibited status to cranking possible status

Monitor Item	Condition
AUT CRANK TMR	Indicates the time that AUTO CRANKING MODE operates
CRANKING TME	Indicates the cranking operation time
SHORT CRANK	**NOTE:** This item is displayed, but not used
DETE SW PWR	Indicates [On/Off] condition of the power supply from BCM to the A/T shift selector (detention switch)
IGN RLY3-REQ	Indicates [On/Off] condition of blower relay control signal
ACC RLY-REQ	Indicates [On/Off] condition of accessory relay control signal
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing
RKE OPE COUN2	**NOTE:** This item is displayed, but cannot be monitored
TRNK/HAT MNTR	Indicates [On/Off] condition of trunk room lamp switch
RKE-LOCK	Indicates [On/Off] condition of LOCK signal from Intelligent Key
RKE-UNLOCK	Indicates [On/Off] condition of UNLOCK signal from Intelligent Key
RKE-TR/BD	Indicates [On/Off] condition of trunk open signal from Intelligent Key
RKE-PANIC	Indicates [On/Off] condition of panic alarm signal from Intelligent Key
RKE-MODE CHG	**NOTE:** This item is displayed, but cannot be monitored
RKE PBD	**NOTE:** This item is displayed, but cannot be monitored

*: OFF is displayed when brake pedal is depressed while brake switch power supply is OFF.

ACTIVE TEST

Test item	Description
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation • On: Operates • Off: Non-operation
INSIDE BUZZER	This test is able to check warning chime in combination meter operation • Take Out: Take away warning chime sounds when CONSULT screen is touched • Key: Key warning chime sounds when CONSULT screen is touched • Knob: OFF position warning chime sounds when CONSULT screen is touched • Off: Non-operation
INDICATOR	This test is able to check information display (combination meter) operation • KEY ON: [Intelligent Key system malfunction] displays when CONSULT screen is touched • KEY IND: [Steering lock unit ID registration complete] displays when CONSULT screen is touched • Off: Non-operation
INT LAMP	This test is able to check interior room lamp operation • On: Operates • Off: Non-operation
FLASHER	This test is able to check hazard warning lamp operation The hazard warning lamps are activated after “LH/RH/Off” on CONSULT screen is touched
HORN	This test is able to check horn operation • On: Operates
IGN CONT2	This test is able to operate the blower relay in fuse block (J/B) • On: Operates • Off: Non-operation
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation Push-ignition switch illumination illuminates when “On” on CONSULT screen is touched
PUSH SWITCH INDICATOR	This test is able to check push-ignition switch indicator operation when “On” on CONSULT screen is touched

Test item	Description
ACC CONT	This test is able to operate the accessory relay in fuse block (J/B) • On: Operates • Off: Non-operation
IGN CONT1	This test is able to operate the ignition relay in IPDM E/R • On: Operates • Off: Non-operation
IGNITION RELAY	This test is able to operate the ignition relay in fuse block (J/B) • On: Operates • Off: Non-operation
ST CONT LOW	This test is able to operate the starter relay in IPDM E/R • On: Non-operation • Off: Operates
BATTERY SAVER	This test is able to check interior room lamp battery saver operation • On: Outputs interior room lamp power supply to turn interior room lamps ON. • Off: Cuts interior room lamp power supply to turn interior room lamps OFF.
TRUNK/BACK DOOR	This test is able to check trunk lid open operation. This actuator opens when “Open” on CONSULT screen is touched.
RETRACTABLE MIRROR	**NOTE:** This item is displayed, but cannot be used
INTELLIGENT KEY LINK(CAN)	**NOTE:** This item is displayed, but cannot be used
REVERSE LAMP TEST	**NOTE:** This item is displayed, but cannot be used
DOOR HANDLE LAMP TEST	This test is able to check outside handle lamp operation • On: Operates • Off: Non-operation
DR SEAT LAMP TEST	**NOTE:** This item is displayed, but cannot be used
AS SEAT LAMP TEST	**NOTE:** This item is displayed, but cannot be used
SHIFT SPOT LAMP TEST	**NOTE:** This item is displayed, but cannot be used
TRUNK/LUGGAGE LAMP TEST	This test is able to check trunk room lamp operation • On: Operates • Off: Non-operation
KEYFOB P/W TEST	This test is able to check keyless power window up/down operation • Up: Non-operation • Down*: Power window and sunroof open • Off: Non-operation
SHIFTLOCK SORENOID TEST	**NOTE:** This item is displayed, but cannot be used

*: When ignition switch is OFF, driver door opened, power window and sunroof is closed.

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:0000000011283187

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Contents
PUSH SW	Indicates [On/Off] condition of push-button ignition switch
UNLK SEN -DR	Indicates [On/Off] condition of unlock sensor

Monitor Item	Contents
VEH SPEED 1	Indicates [km/h] condition of vehicle speed signal from combination meter
KEY CYL SW-TR	**NOTE:** This item is displayed, but cannot be monitored
TR CANCEL SW	Indicates [On/Off] condition of trunk lid opener cancel switch
TR/BD OPEN SW	Indicates [On/Off] condition of trunk lid opener switch
TRNK/HAT MNTR	Indicates [On/Off] condition of trunk room lamp switch
RKE-TR/BD	Indicates [On/Off] condition of trunk open signal from Intelligent Key

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000011283188

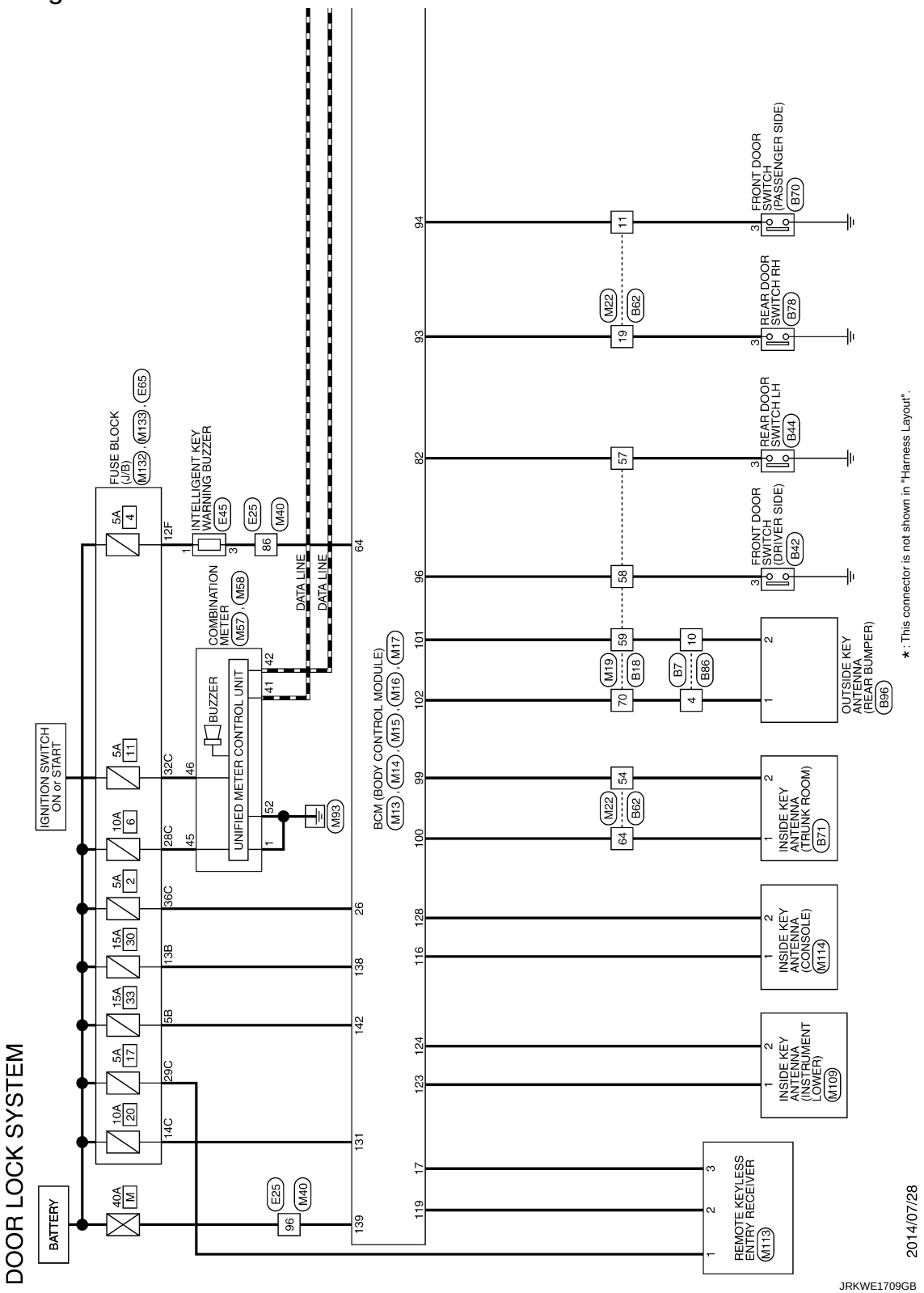
ECU	Reference
BCM	BCS-35, "Reference Value"
	BCS-60, "Fail-safe"
	BCS-61, "DTC Inspection Priority Chart"
	BCS-62, "DTC Index"

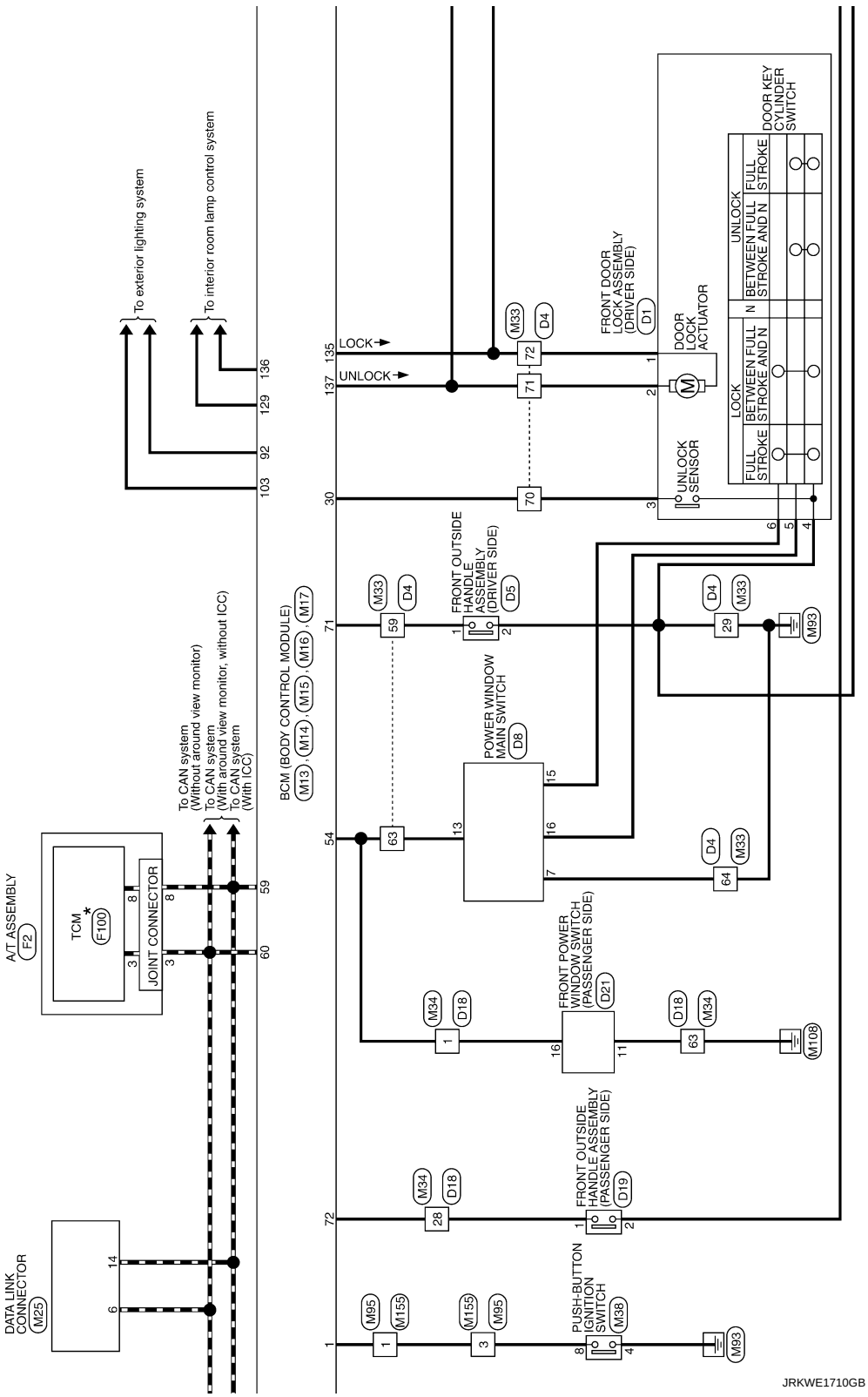
WIRING DIAGRAM

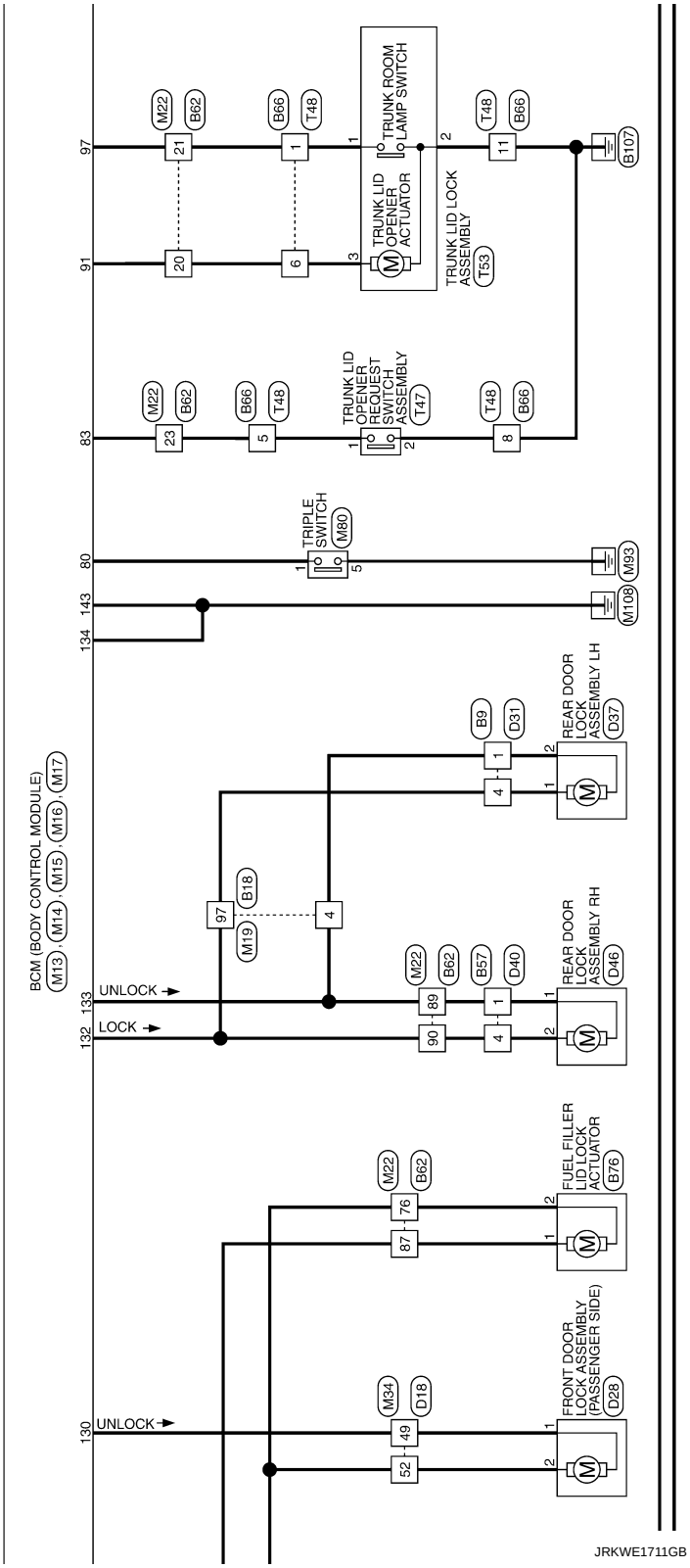
DOOR & LOCK SYSTEM

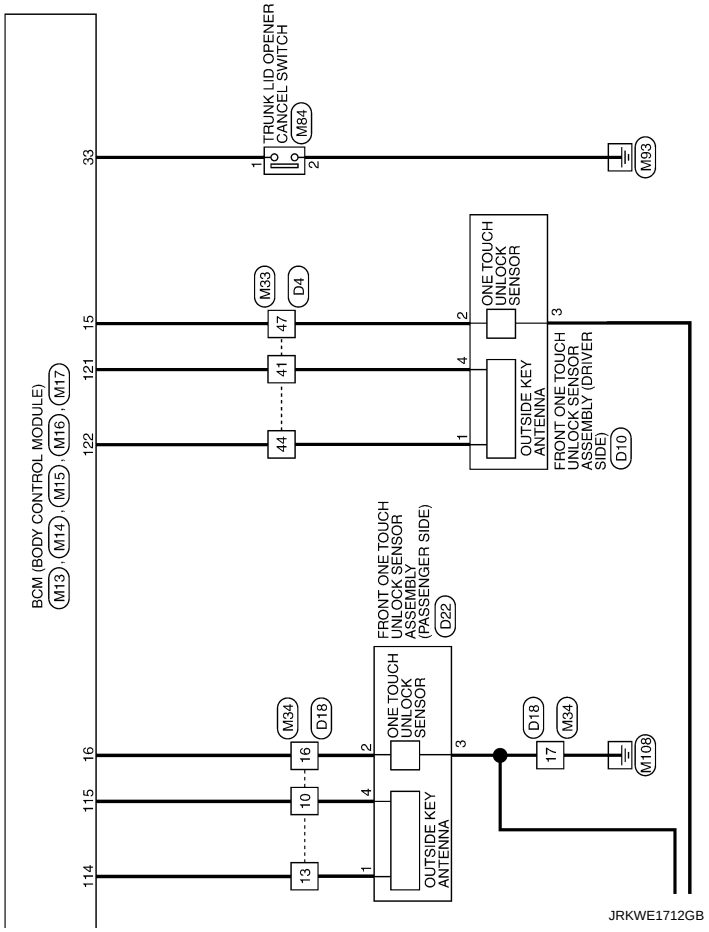
Wiring Diagram

INFOID:0000000011283189




To exterior lighting system
To interior room lamp control system
To CAN system (Without around view monitor)
To CAN system (With around view monitor, without ICC)
To CAN system (With ICC)
A/T ASSEMBLY F2
TCM * F100
JOINT CONNECTOR
DATA LINK CONNECTOR M25
BCM (BODY CONTROL MODULE) M13, M14, M15, M16, M17
LOCK
UNLOCK
FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE) D1
DOOR LOCK ACTUATOR
UNLOCK SENSOR
DOOR KEY CYLINDER SWITCH
FRONT OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE) D5
POWER WINDOW MAIN SWITCH D8
FRONT POWER WINDOW SWITCH (PASSENGER SIDE) D21
FRONT OUTSIDE HANDLE ASSEMBLY (PASSENGER SIDE) D19
PUSH-BUTTON IGNITION SWITCH M38
JRKWE1710GB


BCM (BODY CONTROL MODULE)
(M13) (M14) (M15) (M16) (M17)
TRUNK ROOM LAMP SWITCH
TRUNK LID OPENER ACTUATOR
TRUNK LID LOCK ASSEMBLY
TRUNK LID OPENER REQUEST SWITCH ASSEMBLY
TRIPLE SWITCH
REAR DOOR LOCK ASSEMBLY LH
REAR DOOR LOCK ASSEMBLY RH
FUEL FILLER LID LOCK ACTUATOR
FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
UNLOCK
LOCK
UNLOCK
JRKWE1711GB


BCM (BODY CONTROL MODULE)
(M13), (M14), (M15), (M16), (M17)
33
15
121
122
16
115
114
TRUNK LID OPENER CANCEL SWITCH
M84
M93
M33
D4
47
41
44
ONE TOUCH UNLOCK SENSOR
OUTSIDE KEY ANTENNA
FRONT ONE TOUCH UNLOCK SENSOR ASSEMBLY (DRIVER SIDE)
D10
FRONT ONE TOUCH UNLOCK SENSOR ASSEMBLY (PASSENGER SIDE)
D22
M34
D18
16
10
13
17
M108
JRKWE1712GB

DOOR LOCK SYSTEM

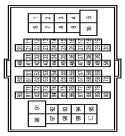
Connector No.	B7
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	BG	-
3	B	-
4	R	-
5	W	-
6	B	-
8	G	-
9	B	-
10	GR	-
11	BR	-
12	B	-

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	G	-
3	L	-
4	LG	-
6	R	-
7	V	-
8	LG	-
9	BR	-
10	P	-
11	BG	-
12	LG	-
13	GR	-
24	Y	-
25	W	-
31	B	-
32	B	-
33	B	-
34	LG	-
35	P	-
36	W	-
37	SB	-
38	LG	-
40	P	-
41	SB	-
42	BR	-
43	BG	-
44	BG	-
46	R	-
51	SB	-
52	V	-
54	R	-
55	R	-
57	W	-
58	V	-
59	GR	-
62	BG	-
63	BR	-
64	Y	-
65	W	-
70	R	-
71	W	-
72	B	-
74	L	-
75	R	-
76	BR	-
77	B	-
81	B	-
83	BG	-
84	L	-
85	R	-
86	B	-
88	G	-
91	GR	-
94	GR	-
96	Y	-
97	V	-
98	BR	-

Connector No.	B42
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH04FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	V	-

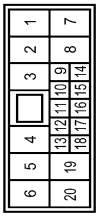
Connector No.	B44
Connector Name	REAR DOOR SWITCH LH
Connector Type	TH04FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	W	-

Connector No.	B57
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	W	-
3	R	-
4	V	-
7	B	-
19	L	-
20	P	-

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	LG	-
3	R	-
4	V	-
7	B	-
19	BR	- [With BOSE system]
19	LG	- [Without BOSE system]
20	R	- [With BOSE system]
20	SB	- [Without BOSE system]

JRKWE1713GB

DOOR LOCK SYSTEM

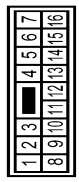
Connector No.	B62
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	L	-
3	R	- [With BOSE system]
3	W	- [Without BOSE system]
4	SHIELD	-
5	G	-
6	W	-
7	BR	- [Without BOSE system]
7	W	- [With BOSE system]
8	B	- [With BOSE system]
8	Y	- [Without BOSE system]
9	SHIELD	-
10	V	-
11	GR	-
12	Y	-
13	R	-
14	BG	-
15	GR	-
16	V	-
17	P	-
18	L	-
19	R	-
20	GR	-
21	R	-
22	P	-
23	W	-
24	V	-
25	SB	-
26	G	-
28	LG	-
29	P	-
30	LG	-
36	R	-
37	R	-
38	W	-
39	W	-
45	G	-
46	SHIELD	-
47	G	-
48	BG	-
49	G	-
52	Y	-
53	R	-
54	GR	-
57	R	-
58	P	-
59	LG	-
62	P	-
63	L	-
64	W	-
66	LG	-
68	L	-
69	P	-
71	R	-
72	G	-
73	SHIELD	-
76	GR	-
84	BR	-
85	BG	-
86	W	-
87	LG	-
89	LG	-
90	V	-
92	W	-
93	R	-
94	R	-
95	Y	-
96	W	-
97	L	-
99	BR	-
100	BR	-

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	BG	-
4	SHIELD	-
5	W	-
6	GR	-
8	B	-
9	R	-
10	P	-
11	B	-
13	SHIELD	- [With back view monitor]
13	W	- [With around view monitor]
14	B	- [With back view monitor]
14	G	- [With around view monitor]
15	R	- [With around view monitor]
15	W	- [With back view monitor]
16	B	- [With around view monitor]
16	R	- [With back view monitor]

Connector No.	B70
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	GR	-

Connector No.	B71
Connector Name	INSIDE KEY ANTENNA (TRUNK ROOM)
Connector Type	RK02FGY

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	ANT+
2	GR	ANT-

Connector No.	B76
Connector Name	FUEL FILLER LID LOCK ACTUATOR
Connector Type	M04FW-LC

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	GR	-

JRKWE1714GB

DOOR LOCK SYSTEM

Connector No.	B78
Connector Name	REAR DOOR SWITCH RH
Connector Type	TH04FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-

Connector No.	B86
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	BG	-
3	B	-
4	R	-
5	W	-
6	B	-
8	G	-
9	B	-
10	GR	-
11	BR	-
12	B	-

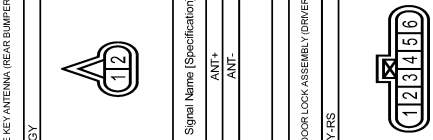
Connector No.	B96
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	ANT+
2	GR	ANT-

Connector No.	D1
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	E06FGY-RS

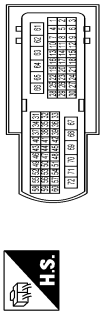
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	LG	-
3	W	-
4	B	-
5	Y	-
6	V	-

Connector No.	D4
Connector Name	WIRE TO WIRE
Connector Type	NH60FW-TS12

H.S.



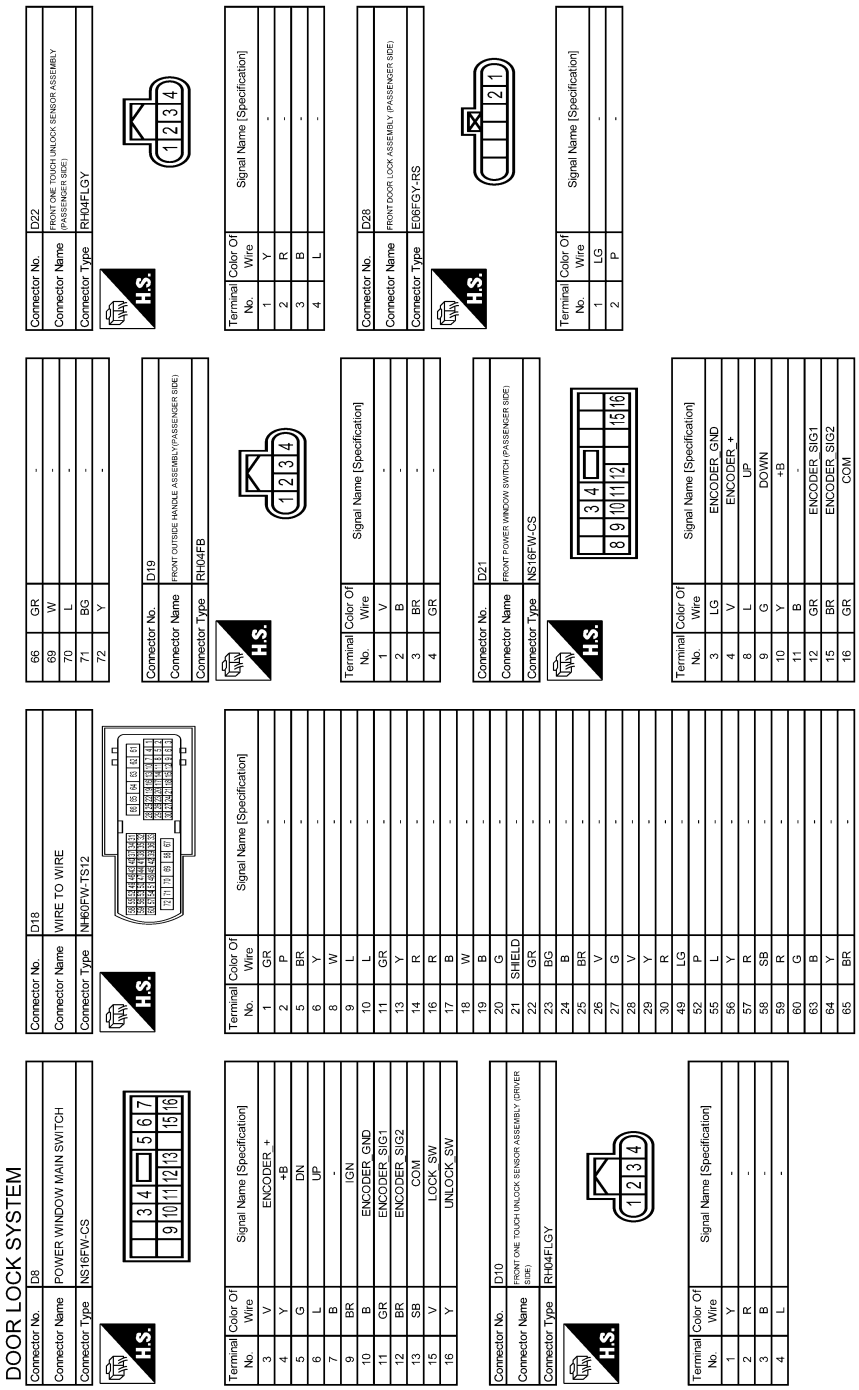
Terminal No.	Color Of Wire	Signal Name [Specification]
6	V	-
8	G	-
9	GR	-
10	Y	-
11	SHIELD	-
12	BG	-
13	L	-
14	B	-
15	Y	-
16	GR	-
17	R	-
18	GR	-
19	R	-
20	W	-
21	LG	-
22	W	-
23	L	-
24	G	-
25	BR	-
26	R	-
27	BR	-
28	V	-
29	B	-
30	W	-
31	P	-
32	Y	-
33	BR	-
34	L	-
35	R	-
36	GR	-
37	G	-
40	P	-
41	L	-
43	BG	-
44	Y	-
46	W	-
47	R	-
49	BR	-
50	B	-
52	V	-
53	GR	-
55	GR	-
56	BR	-
57	R	-
58	L	-
59	V	-
60	G	-
61	BG	-
62	Y	-
63	SB	-
64	B	-
65	Y	-
66	BR	-
68	Y	-
69	L	-
70	W	-
71	LG	-
72	P	-

Connector No.	D5
Connector Name	FRONT OUTSIDE HANDLE ASSEMBLY (DRIVER SIDE)
Connector Type	RH04FB

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	B	-
3	BR	-
4	GR	-

JRKWE1715GB

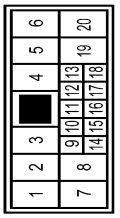


JRKWE1716GB

DOOR LOCK SYSTEM

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10

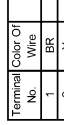
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	Y	-
3	W	-
4	V	-
7	B	-
19	P	- [With BOSE system]
19	R	- [Without BOSE system]
20	BR	- [With BOSE system]
20	L	- [Without BOSE system]

Connector No.	D37
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	E06FGY-RS

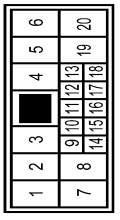
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	BR	-

Connector No.	D40
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10

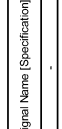
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	Y	-
3	W	-
4	V	-
7	B	-
19	P	- [With BOSE system]
19	R	- [Without BOSE system]
20	BR	- [With BOSE system]
20	L	- [Without BOSE system]

Connector No.	D46
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	E06FGY-RS

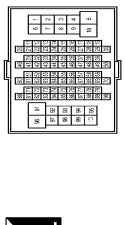
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-

Connector No.	E25
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
3	LG	-
4	BR	-
6	V	-
7	L	-
10	BR	-
11	L	-
12	GR	-
13	W	-
14	B	-
15	SB	-
16	Y	-
17	BR	-
18	P	-
31	Y	-
32	GR	-
35	GR	-
36	R	-
37	V	-
38	L	-
39	Y	-
40	SB	-
41	LG	-
44	Y	-
45	W	-
46	B	-
47	G	-
48	SHIELD	-
49	R	-
50	BR	-
51	L	-
52	W	-
53	V	-
54	P	-
55	W	-
56	SB	-
57	BG	-
58	B	-
59	W	-
61	R	-
62	SB	-
63	LG	-
64	Y	-
65	SB	-
66	GR	-
67	LG	-
68	BG	-
71	LG	-
72	V	-
73	G	-
74	BR	-
75	V	-
78	P	-
79	SB	-
83	R	-
86	BG	-
91	G	-
92	Y	-
94	GR	-
95	BG	-
96	W	-
97	LG	-
98	L	-
99	P	-
100	SHIELD	-

Connector No.	E45
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03FBR

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	(+)BAT
3	BG	BUZZER SIGNAL

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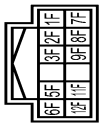
DOOR LOCK SYSTEM

Connector No.	E85
Connector Name	FUSE BLOCK (J/B)
Connector Type	TH12FW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
11F	G	-
12F	W	-
1F	V	-
2F	BR	-
3F	P	-
5F	P	-
6F	L	-
7F	R	-
8F	L	-
9F	L	-

Connector No.	F2
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	IGNITION POWER SUPPLY
2	P	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	L	CAN-H
4	LG	K-LINE
5	B	GROUND
6	GR	IGNITION POWER SUPPLY
7	BG	BACK-UP LAMP RELAY
8	P	CAN-L
9	GR	STARTER RELAY
10	B	GROUND

Connector No.	F100
Connector Name	TCM
Connector Type	SP10FG

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	IGNITION POWER SUPPLY
2	-	BATTERY POWER SUPPLY (MEMORY BACK-UP)
3	-	CAN-H
4	-	K-LINE
5	-	GROUND
6	-	IGNITION POWER SUPPLY
7	-	BACK-UP LAMP RELAY
8	-	CAN-L
9	-	STARTER RELAY
10	-	GROUND

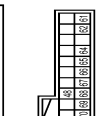
Connector No.	M13
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	PUSH-SW
3	Y	SENS PWR SPLY
4	BG	OPTICAL SENSOR
5	LG	-
10	W	COMBI SW OUTPUT 5
11	SB	COMBI SW OUTPUT 4
12	L	COMBI SW OUTPUT 3
13	G	COMBI SW OUTPUT 2
14	P	COMBI SW OUTPUT 1
15	G	ONE TOUCH UNLK SENS (DR)
16	G	ONE TOUCH UNLK SENS (PASS)
17	P	RECEIVER/SENSOR GND
18	L	SECURITY IND LAMP CONT
20	R	DETENT SW
21	SB	STEP LAMP CONT
25	R	STOP LAMP SW2
26	R	EXTENDED STORAGE FUSE SW
27	P	STOP LAMP SW
30	W	DR DOOR UNLK SENS
33	V	TR LID OP CANCEL SW
36	G	HAZARD SW
39	BR	P/N POSITION

Connector No.	M14
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
48	R	PUSH-BTN IGN SW ILL PWR
52	G	DONGLE LINK
54	V	COMM LINE
55	R	RAIN SENSOR
59	P	CAN-L
60	L	CAN-H
61	G	REAR WINDOW DEF RLY CONT
62	R	STARTER RLY CONT
64	V	I-KEY WARN BUZZER
65	B	OUTS HD LAMP CONT
66	B	BLOWER FAN RLY CONT
67	W/B	IGN RLYAY (F/B) CONT
68	R	DIMMER
69	GR	A/T SHIFT SELECT PWR SPLY
70	B	IGN RLYAY (IPDM E/R) CONT
71	G	DR DOOR REQ SW
72	SB	PASS DOOR REQ SW
75	BR	COMBI SW INPUT 5
76	BG	COMBI SW INPUT 4
77	V	COMBI SW INPUT 3
78	Y	COMBI SW INPUT 2
79	LG	COMBI SW INPUT 1
80	L	TR LID OPNR SW

Connector No.	M15
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FGY-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
82	W	REAR LH DOOR SW
83	L	TR LID OPEN REQ SW
85	P	TR ROOM LAMP CONT
91	GR	TRUNK LID OPEN
92	W	TURN SIG RH OUTPUT (SIDE,REAR)
93	G	REAR RH DOOR SW
94	GR	PASSENGER DOOR SW
96	V	DRIVER DOOR SW
97	R	TR ROOM LAMP SW
99	GR	INSIDE KEY ANT (TRUNK) -
100	W	INSIDE KEY ANT (TRUNK) +
101	BG	REAR BMPR ANT -
102	LG	REAR BMPR ANT +
103	Y	TURN SIG LH OUTPUT (SIDE,REAR)

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH

H.S.

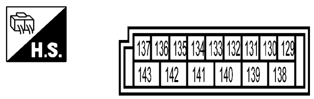
Terminal No.	Color Of Wire	Signal Name [Specification]
105	V	TURN SIG RH OUTPUT (FRONT)
107	P	PUSH-BTN IGN SW ILL GND
111	Y	ACC/ON IND

JRKWE1718GB

DOOR LOCK SYSTEM

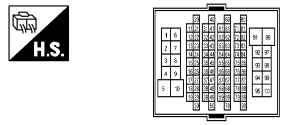
113	SB	ACC RELAY CONT
114	LG	PASSENGER DOOR ANT +
115	V	PASSENGER DOOR ANT -
116	BR	INSIDE KEY ANT (CONSOLE) +
117	W/B	TURN SIG LH OUTPUT (FRONT)
119	L	KYLS ENT RECEIV COMM
121	SB	DRIVER DOOR ANT -
122	BG	DRIVER DOOR ANT +
123	R	INSIDE KEY ANT (INSTRUMENT LOWER) +
124	G	INSIDE KEY ANT (INSTRUMENT LOWER) -
126	B	NATS ANT AMP.
127	W	NATS ANT AMP.
128	GR	INSIDE KEY ANT (CONSOLE) -

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA



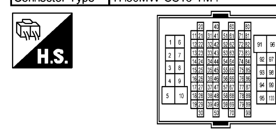
Terminal No.	Color Of Wire	Signal Name [Specification]
129	LG	INT ROOM LAMP PWR SPLY
130	P	PASS DOOR UNLK OUTPUT
131	Y	BAT (FUSE)
132	V	RR, RL DOOR LK OUTPUT
133	BR	RR, RL DOOR UNLK OUTPUT
134	B	GND
135	V	FRONT DOOR, FL LID LK OUTPUT
136	V	INT ROOM LAMP CONT
137	LG	FRONT DOOR, FL LID UNLK OUTPUT
138	P	REAR DOORS ACT PWR SPLY
139	W	BAT (F/L)
140	BR	IGN ON
141	R	PWR SPLY (BAT)
142	R	FRONT DOORS, FL LID ACT PWR SPLY
143	B	GND

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	G	-
3	SB	-
4	BR	-
6	R	-
7	W	-
8	V	-
9	BR	-
10	P	-
11	BR	-
12	LG	-
13	GR	-
24	Y	-
25	W	-
31	BR	-
32	B	-
33	B	-
34	V	-
35	P	-
36	W	-
37	SB	-
38	LG	-
40	P	-
41	G	-
42	BR	-
43	BR	-
44	BR	-
46	BG	-
51	Y	-
52	V	-
54	R	-
55	R	-
57	W	-
58	V	-
59	BG	-
62	BG	-
63	BR	-
64	Y	-
65	W	-
70	LG	-
71	W	-
72	B	-
74	L	-
75	W	-
76	BR	-
77	B	-
81	B	-
83	BG	-
84	L	-
85	W	-
86	B	-
88	G	-
91	GR	-
94	GR	-
96	W	-
97	V	-
98	BR	-

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	L	-
3	R	-
4	SHIELD	-
5	G	-
6	BG	-
7	LG	-
8	P	-
9	SHIELD	-
10	V	-
11	GR	-
12	V	-
13	LG	-
14	LG	-
15	P	-
16	SB	- [With DCM]
16	V	- [Without DCM]
17	Y	-
18	L	-
19	G	-
20	GR	-
21	R	-
22	W	-
23	L	-
24	V	-
25	LG	-
26	GR	-
28	LG	-
29	SB	-
30	LG	-
36	R	-
37	R	-
38	W	-
39	V	-
45	G	-
46	SHIELD	-
47	G	-
48	BR	-
49	SB	-
52	Y	-
53	R	-
54	GR	-
57	R	-
58	SB	-
59	LG	-
62	V	-
63	L	-
64	W	-
66	R	-
68	L	-
69	P	-
71	R	-
72	G	-
73	SHIELD	-
76	V	-
84	BR	-
85	BR	-
86	V	-
87	LG	-
89	BR	-
90	V	-
92	W	-
93	R	-

JRKWE1719GB

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

DOOR LOCK SYSTEM

94	R	-
95	Y	-
96	W	-
97	L	-
99	BR	-
100	BR	-

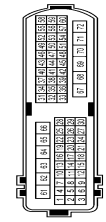
Connector No.	M25
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	AV COMM (L)
4	B	EARTH
5	B	EARTH
6	L	CAN-H
7	V	KLINE
8	W	IGN_SW
11	LG	AV COMM (H)
12	R	CAN-L
13	L	CAN-H
14	P	CAN-L
16	W	POWER

Connector No.	M33
Connector Name	WIRE TO WIRE
Connector Type	NH60MW-TS12

Terminal No.	Color Of Wire	Signal Name [Specification]
6	R	-
8	GR	-
9	GR	-
10	W	-
11	SHIELD	-
12	P	-
13	SB	-
14	LG	-
15	Y	-
16	Y	-
17	P	-
18	W/B	-
19	LG	- [With DRPO]
19	Y	- [Without DRPO]
20	V	-
21	B	- [Without DRPO]
22	BG	- [With DRPO]
22	G	-
23	L	-
24	Y	-
25	BG	- [Without DRPO]
25	L	- [With DRPO]
26	Y	-
27	GR	-
28	V	-
29	B	-
30	W	-
31	B	-
32	SB	-
33	L	-
34	BR	-
35	LG	-
36	W	-
37	B	-
40	P	-
41	SB	-
43	Y	-
44	BG	-
46	BR	-
47	G	-
49	V	-
50	B	-
52	BR	-
53	B	-
55	BG	-
56	LG	-
57	V	-
58	R	-
59	G	-
60	L	-
61	G	-
62	R	-
63	V	-
64	B	-
65	R	-
66	BR	-
68	P	-
69	V	-
70	W	-
71	LG	-
72	V	-

Connector No.	M34
Connector Name	WIRE TO WIRE
Connector Type	NH60MW-TS12



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	R	-
5	L	-
6	R	-
8	W	-
9	GR	-
10	V	-
11	Y	-
13	LG	-
14	W	-
16	G	-
17	B	-
18	W	-
19	B	-
20	SB	- [With DRPO]
20	Y	- [Without DRPO]
21	SHIELD	-
22	B	-
23	BG	- [Without DRPO]
23	P	- [With DRPO]
24	G	-
25	LG	-
26	BG	- [Without DRPO]
26	BR	- [With DRPO]
27	R	-
28	SB	-
29	BG	- [Without DRPO]
29	W/B	- [With DRPO]
30	L	-
49	P	-
52	V	-
55	B	-
56	SB	-
57	G	-
58	LG	-
59	LG	-
60	R	-
63	B	-
64	R	-
65	BR	-
66	Y	-
69	BR	-
70	Y	-
71	SB	-
72	W	-

Connector No.	M38
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TH08FW-NH

Terminal No.	Color Of Wire	Signal Name [Specification]
3	W	-
4	B	-
5	R	-
6	P	-
7	Y	-
8	BR	-

JRKWE1720GB

DOOR LOCK SYSTEM

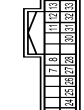
Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	L	-
4	V	-
6	W/B	-
7	V	-
10	W	-
11	W	-
12	B	-
13	GR	-
14	B	-
15	SB	-
16	B	-
17	LG	-
18	B	-
31	W	-
32	V	-
35	BG	-
36	G	-
37	B	-
38	L	-
39	Y	-
40	GR	-
41	L	-
44	BR	-
45	W	-
46	G	-
47	R	-
48	SHIELD	-
49	B	-
50	BR	-
51	L	-
52	W	-
53	G	-
54	Y	-
55	P	-
56	BG	-
57	GR	-
58	B	-
59	SB	-
61	W/B	-
62	SB	-
63	LG	-
64	Y	-
65	R	-
66	V	-
67	LG	-
68	BG	-
71	V	-
72	LG	-
73	R	-
74	BR	-
75	B	-
78	G	-
79	R	-
83	R	-
86	V	-
91	W	-
92	R	-
94	BG	-
95	BR	-
96	W	-
97	LG	-
98	Y	-
99	BR	-
100	SHIELD	-

Connector No.	M57
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH

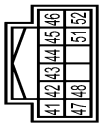
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
7	G	SECURITY SIGNAL
8	B	-
11	W	ALTERNATOR SIGNAL
12	G	LED HEADLAMP (RH) WARNING SIGNAL
13	BR	LED HEADLAMP (LH) WARNING SIGNAL
14	V	ACC POWER SUPPLY
16	V	AIR BAG SIGNAL
17	BR	METER CONTROL SWITCH GROUND
18	SB	TRIP/RESET SIGNAL
21	B	STEERING SWITCH SIGNAL GROUND
22	P	STEERING SWITCH SIGNAL A
23	W/B	STEERING SWITCH SIGNAL B
24	L	WASHER LEVEL SWITCH SIGNAL
25	LG	BRAKE FLUID LEVEL SWITCH SIGNAL
26	V	PARKING BRAKE SWITCH SIGNAL
27	G	PASSENGER SEAT BELT WARNING SIGNAL
28	W	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	SB	MANUAL MODE SIGNAL
31	G	NON-MANUAL MODE SIGNAL
32	BG	MANUAL MODE SHIFT UP SIGNAL
33	GR	MANUAL MODE SHIFT DOWN SIGNAL
34	BG	PADDLE SHIFTER UP SIGNAL
35	G	PADDLE SHIFTER DOWN SIGNAL
36	V	ILLUMINATION CONTROL SWITCH SIGNAL (+)
37	GR	ILLUMINATION CONTROL SWITCH SIGNAL (-)
38	R	VEHICLE SPEED SIGNAL (8-PULSE)
39	L	VEHICLE SPEED SIGNAL (2-PULSE)

Connector No.	M58
Connector Name	COMBINATION METER
Connector Type	TH12FW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
41	L	CAN-H
42	P	CAN-L
43	B	ILLUMINATION CONTROL SIGNAL
44	Y	FUEL LEVEL SENSOR GROUND
45	W	BATTERY POWER SUPPLY
46	R	IGNITION SIGNAL
47	LG	AV COMMUNICATION SIGNAL (H)
48	SB	AV COMMUNICATION SIGNAL (L)
51	BR	FUEL LEVEL SENSOR SIGNAL
52	B	GROUND

Connector No.	M80
Connector Name	TRIPLE SWITCH
Connector Type	TH12FB-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
3	R	-
5	B	-
6	R	-
7	B	-

Connector No.	M84
Connector Name	TRUNK LID OPENER CANCEL SWITCH
Connector Type	S02FW

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	B	-

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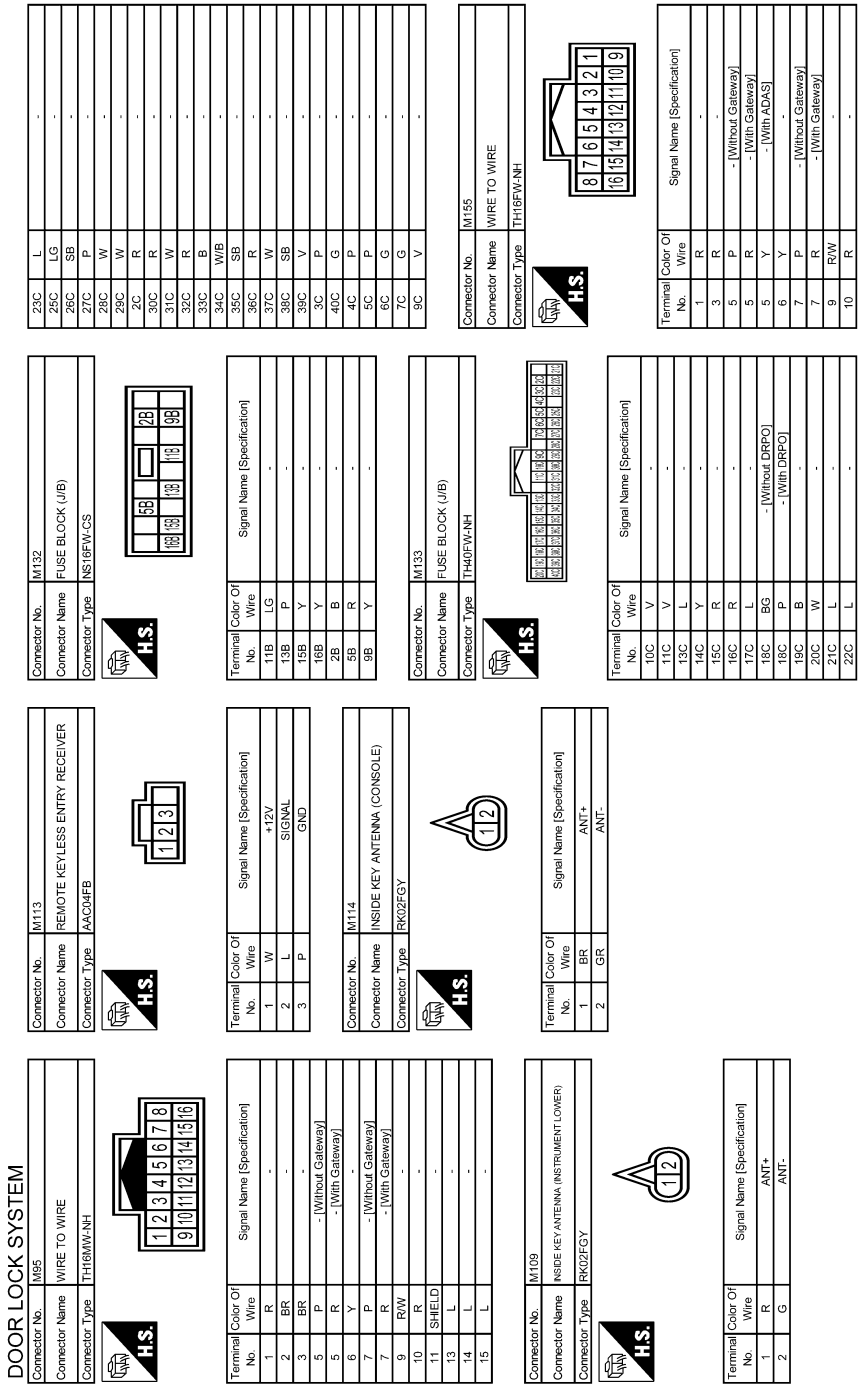
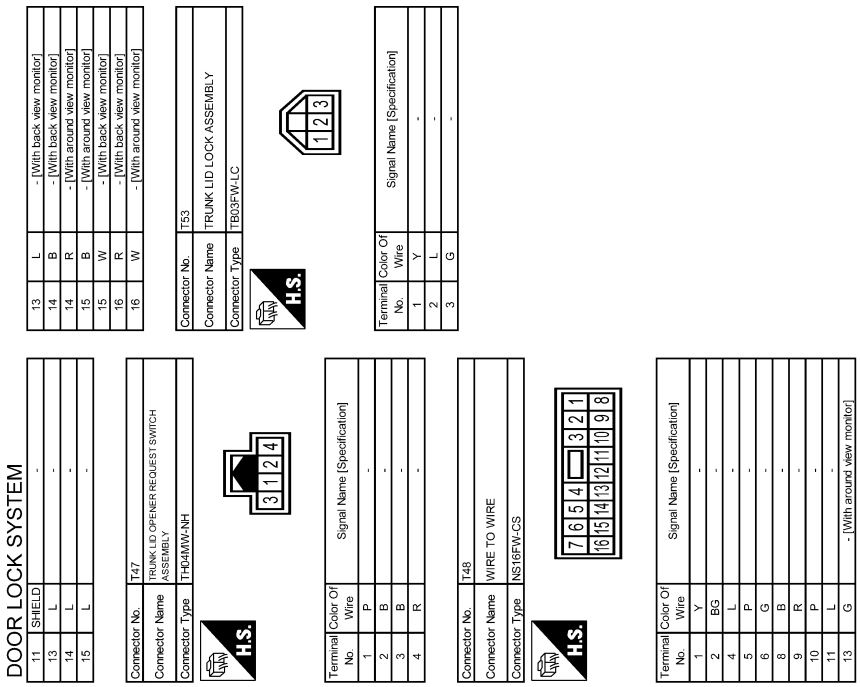


JRKWE1722GB

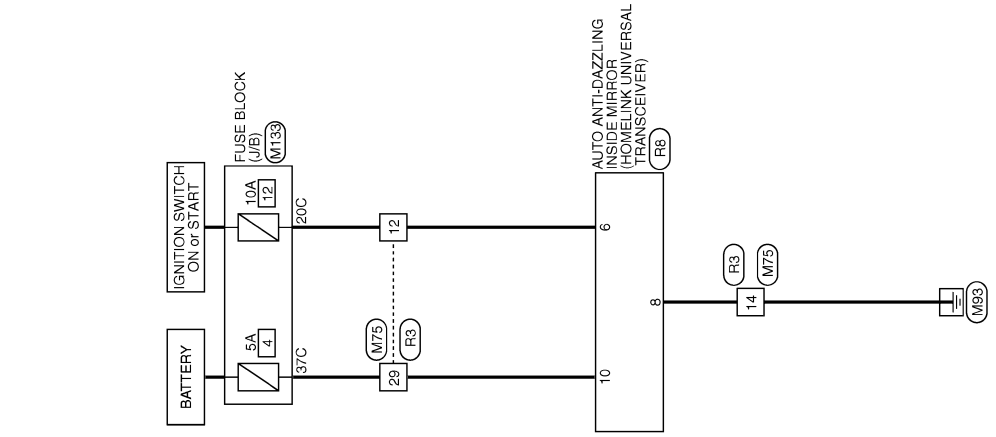


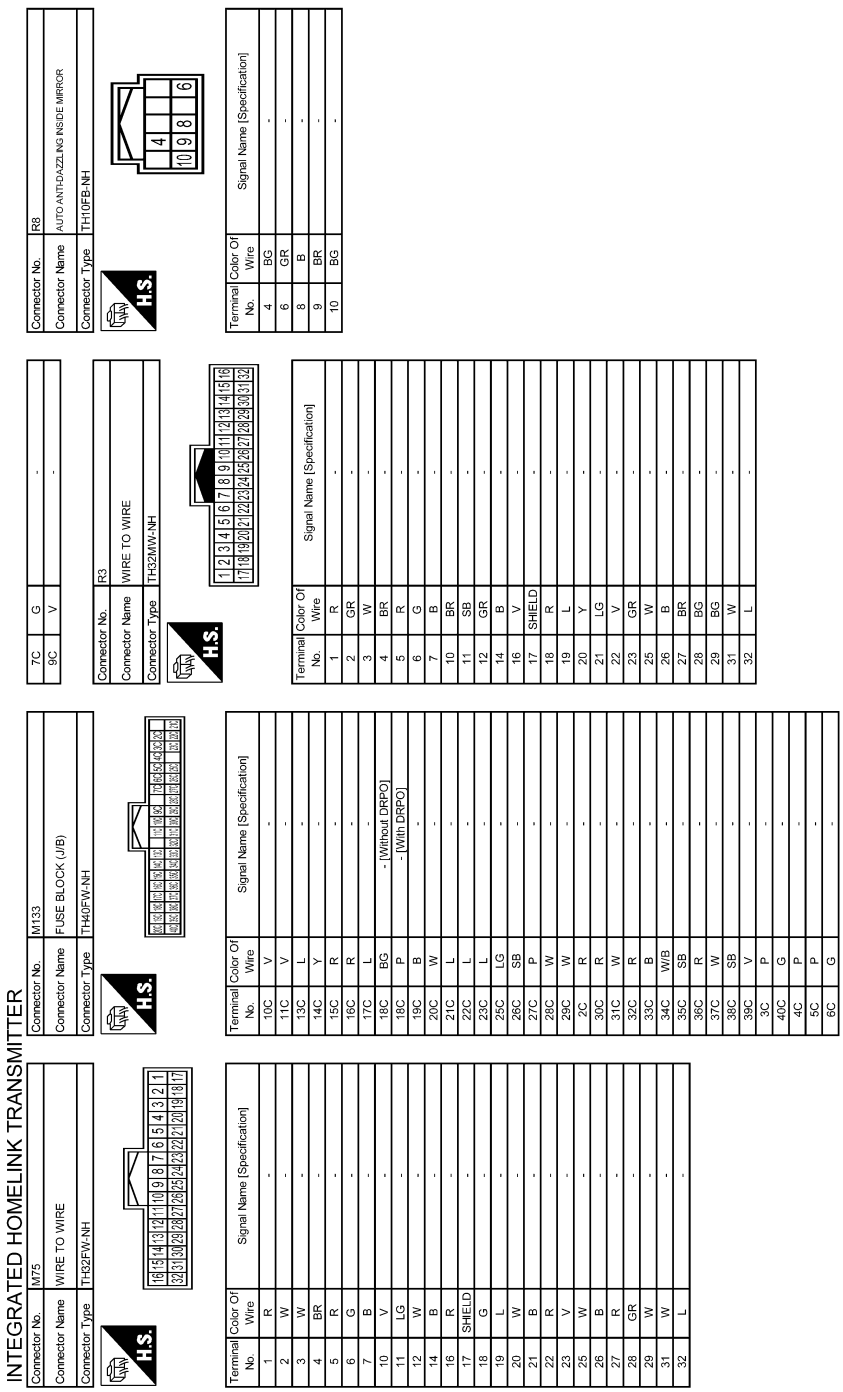
JRKWE1723GB

INTEGRATED HOMELINK TRANSMITTER SYSTEM

Wiring Diagram

INFOID:0000000011283190





JRKWE1724GB

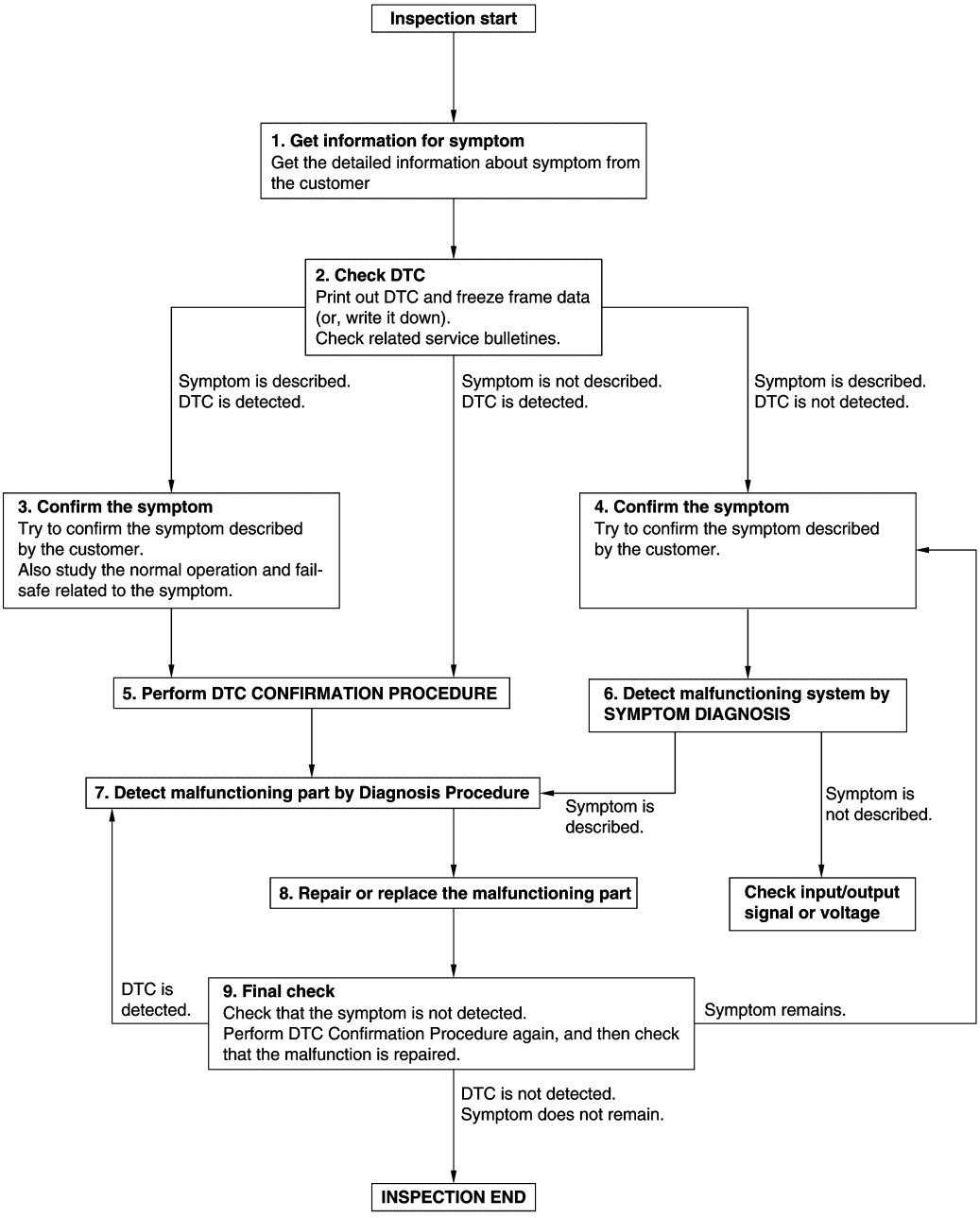
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000011283191

OVERALL SEQUENCE



JMKIA8652GB

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 or any DTC detected?

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

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
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 diagnostic results in real time.
If two or more DTCs are detected, refer to BCS-61, "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 >> Refer to GI-42, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

IS the symptom described?

YES >> GO TO 7.
NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.
NO >> Check according to GI-42, "Intermittent Incident".

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
3. Check for DTC. If DTC is displayed, 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 completely repaired.
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.

DTC/CIRCUIT DIAGNOSIS

B259B ONE TOUCH UNLOCK SENSOR

DTC Description

INFOID:0000000011283192

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B259B	DR TOUCH SENSOR (Driver touch sensor)	When the BCM detects the open circuit of the one touch unlock sensor (driver door)

POSSIBLE CAUSE

- One touch unlock sensor (driver door)
- Harness or connectors [one touch unlock sensor (driver door) circuit is open or shorted]
- BCM

FAIL-SAFE

–

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-77, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000011283193

1.CHECK ONE TOUCH UNLOCK SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front one touch unlock sensor assembly (driver side) connector.
3. Check voltage between front one touch unlock sensor assembly (driver side) harness connector and ground.

(+)		(–)	Voltage
Front one touch unlock sensor assembly (driver side)			
Connector	Terminal		
D10	2	Ground	9 – 16 V

Is the inspection result normal?

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

2.CHECK ONE TOUCH UNLOCK SENSOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and front one touch unlock sensor assembly (driver side) harness connector.

BCM		Front one touch unlock sensor assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M13	15	D10	2	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M13	15		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK ONE TOUCH UNLOCK SENSOR GROUND CIRCUIT

Check continuity between front one touch unlock sensor assembly (driver side) harness connector and ground.

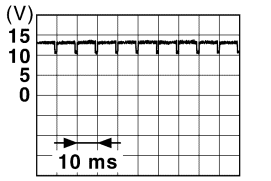
Front one touch unlock sensor assembly (driver side)		Ground	Continuity
Connector	Terminal		
D10	3		Existed

Is the inspection result normal?

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

4.CHECK ONE TOUCH UNLOCK SENSOR

1. Connect front one touch unlock sensor assembly (driver side) connector.
2. Check signal between BCM harness connector and ground with oscilloscope.

(+) BCM Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M13	15	Ground	Driver door outside handle grip (backside)	Touch	 JSMIA1404GB
				Other than the above	9 – 16 V

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace front door outside handle grip LH.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

B259C ONE TOUCH UNLOCK SENSOR

DTC Description

INFOID:0000000011283194

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B259C	PASS TOUCH SENSOR (Passenger touch sensor)	When the BCM detects the open circuit of the one touch unlock sensor (passenger door)

POSSIBLE CAUSE

- One touch unlock sensor (passenger door)
- Harness or connectors [one touch unlock sensor (passenger door) circuit is open or shorted]
- BCM

FAIL-SAFE

–

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-79, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000011283195

1.CHECK ONE TOUCH UNLOCK SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front one touch unlock sensor assembly (passenger side) connector.
3. Check voltage between front one touch unlock sensor assembly (passenger side) harness connector and ground.

(+)		(–)	Voltage
Front one touch unlock sensor assembly (passenger side)			
Connector	Terminal		
D22	2	Ground	9 – 16 V

Is the inspection result normal?

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

2.CHECK ONE TOUCH UNLOCK SENSOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and front one touch unlock sensor assembly (passenger side) harness connector.

BCM		Front one touch unlock sensor assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M13	16	D22	2	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M13	16		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK ONE TOUCH UNLOCK SENSOR GROUND CIRCUIT

Check continuity between front one touch unlock sensor assembly (passenger side) harness connector and ground.

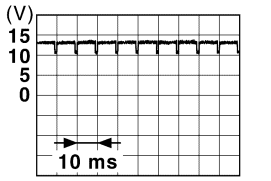
Front one touch unlock sensor assembly (passenger side)		Ground	Continuity
Connector	Terminal		
D22	3		Existed

Is the inspection result normal?

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

4.CHECK ONE TOUCH UNLOCK SENSOR

1. Connect front one touch unlock sensor assembly (passenger side) connector.
2. Check signal between BCM harness connector and ground with oscilloscope.

(+) BCM Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M13	16	Ground	Passenger door outside handle grip (backside)	Touch	 JSMIA1404GB
				Other than the above	9 – 16 V

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace front door outside handle grip RH.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

B2621 INSIDE ANTENNA

DTC Description

INFOID:0000000011283196

DTC DETECTION LOGIC

DTC No.	CONSULT screen items (Trouble diagnosis content)	DTC detecting condition
B2621	INSIDE ANTENNA (Inside antenna)	An excessive high or low voltage from inside key antenna (instrument lower) is sent to BCM.

POSSIBLE CAUSE

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

FAIL-SAFE

–

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?

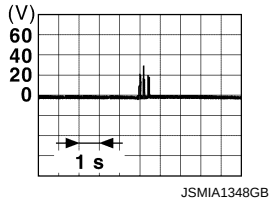
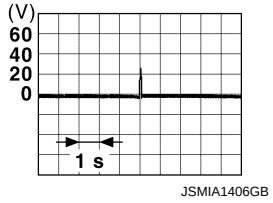
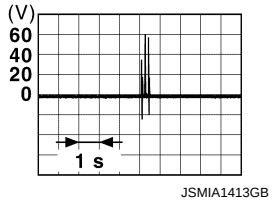
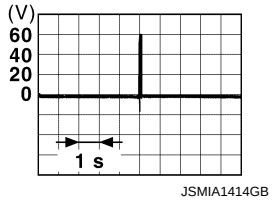
YES >> Refer to DLK-81, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000011283197

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M16	123	Ground	Ignition switch ON and any door is open	When Intelligent Key is not in the antenna detection area	 JSMIA1348GB
				When Intelligent Key is in the antenna detection area	 JSMIA1406GB
	124			When Intelligent Key is not in the antenna detection area	 JSMIA1413GB
				When Intelligent Key is in the antenna detection area	 JSMIA1414GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

BCM		Inside key antenna (instrument lower)		Continuity
Connector	Terminal	Connector	Terminal	
M16	123	M109	1	Existed
	124		2	

4. Check continuity between BCM harness connector and ground.

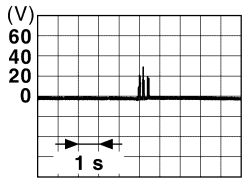
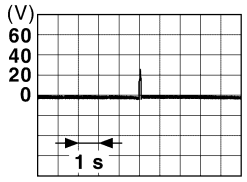
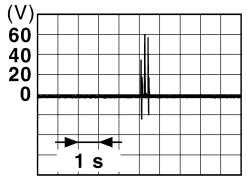
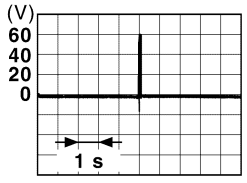
BCM		Ground	Continuity
Connector	Terminal		
M16	123		Not existed
	124		

Is the inspection result normal?

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

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+) BCM Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M16	123	Ground	Ignition switch ON and any door is open	When Intelligent Key is not in the antenna detection area	 JSMIA1348GB
				When Intelligent Key is in the antenna detection area	 JSMIA1406GB
	124			When Intelligent Key is not in the antenna detection area	 JSMIA1413GB
				When Intelligent Key is in the antenna detection area	 JSMIA1414GB

Is the inspection result normal?

YES >> Replace inside key antenna (instrument lower).
NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

B2622 INSIDE ANTENNA

DTC Description

INFOID:0000000011283198

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detecting condition
B2622	INSIDE ANTENNA (Inside antenna)	An excessive high or low voltage from inside key antenna (console) is sent to BCM

POSSIBLE CAUSE

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

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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?

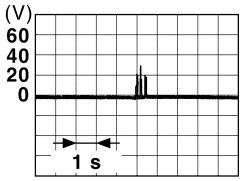
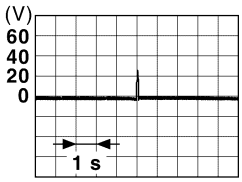
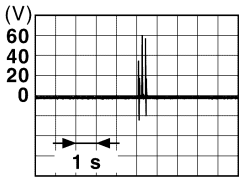
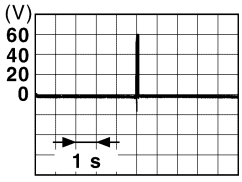
YES >> Refer to DLK-84, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000011283199

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M16	116	Ground	Ignition switch ON and any door is open	When Intelligent Key is not in the antenna detection area	 JSMIA1348GB
				When Intelligent Key is in the antenna detection area	 JSMIA1406GB
	128			When Intelligent Key is not in the antenna detection area	 JSMIA1413GB
				When Intelligent Key is in the antenna detection area	 JSMIA1414GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

BCM		Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	
M16	116	M114	1	Existed
	128		2	

4. Check continuity between BCM harness connector and ground.

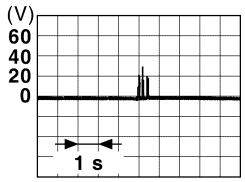
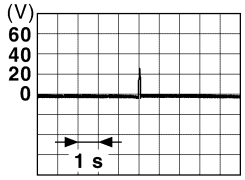
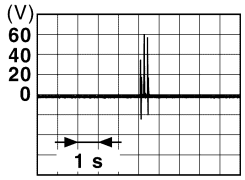
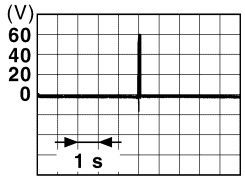
BCM		Ground	Continuity
Connector	Terminal		
M16	116		Not existed
	128		

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

(+) BCM Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M16	116	Ground	Ignition switch ON and any door is open	When Intelligent Key is not in the antenna detection area	 JSMIA1348GB
				When Intelligent Key is in the antenna detection area	 JSMIA1406GB
	128			When Intelligent Key is not in the antenna detection area	 JSMIA1413GB
				When Intelligent Key is in the antenna detection area	 JSMIA1414GB

Is the inspection result normal?

YES >> Replace inside key antenna (console).
NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

B2623 INSIDE ANTENNA

DTC Description

INFOID:0000000011283200

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detecting condition
B2623	INSIDE ANTENNA (Inside antenna)	An excessive high or low voltage from inside key antenna (trunk room) is sent to BCM

POSSIBLE CAUSE

- BCM
- Inside key antenna (trunk room)
- Harness or connector [inside key antenna (trunk room) circuit is open or shorted]

FAIL-SAFE

–

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?

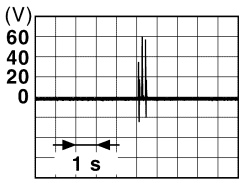
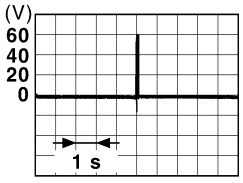
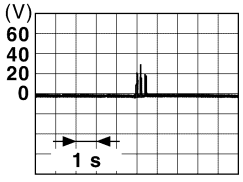
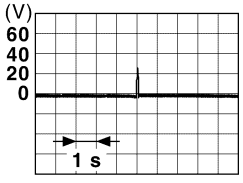
YES >> Refer to DLK-87, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000011283201

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M15	99	Ground	Ignition switch ON and any door is open	When Intelligent Key is not in the antenna detection area	 JSMIA1413GB
				When Intelligent Key is in the antenna detection area	 JSMIA1414GB
	100			When Intelligent Key is not in the antenna detection area	 JSMIA1348GB
				When Intelligent Key is in the antenna detection area	 JSMIA1406GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> GO TO 2.

2.CHECK INSIDE KEY ANTENNA CIRCUIT

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

BCM		Inside key antenna (trunk room)		Continuity
Connector	Terminal	Connector	Terminal	
M15	99	B71	2	Existed
	100		1	

4. Check continuity between BCM harness connector and ground.

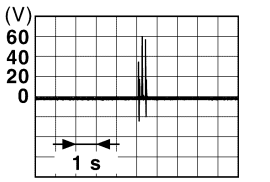
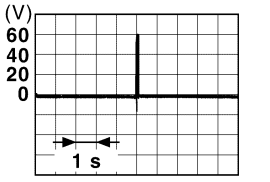
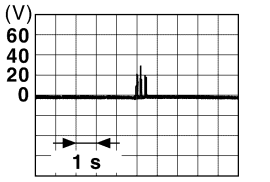
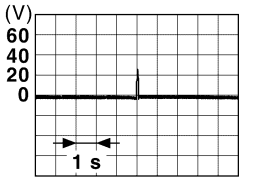
BCM		Ground	Continuity
Connector	Terminal		
M15	99		Not existed
	100		

Is the inspection result normal?

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

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+) BCM Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M15	99	Ground	Ignition switch ON and any door is open	When Intelligent Key is not in the antenna detection area	 JSMIA1413GB
				When Intelligent Key is in the antenna detection area	 JSMIA1414GB
	100			When Intelligent Key is not in the antenna detection area	 JSMIA1348GB
				When Intelligent Key is in the antenna detection area	 JSMIA1406GB

Is the inspection result normal?

YES >> Replace inside key antenna (trunk room).
NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

B2626 OUTSIDE ANTENNA

DTC Description

INFOID:0000000011283202

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detecting condition
B2626	OUTSIDE ANTENNA (Outside antenna)	An excessive high or low voltage from front door right outside key antenna is sent to BCM

POSSIBLE CAUSE

- BCM
- Front door right outside key antenna
- Harness or connector (front door right outside key antenna circuit is open or shorted)

FAIL-SAFE

–

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?

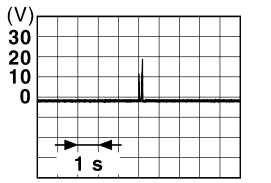
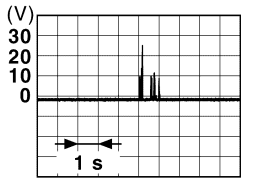
YES >> Refer to DLK-90, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000011283203

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M16	114, 115	Ground	When pressing the front door request switch (passenger side) with all doors are locked and ignition switch OFF	When Intelligent Key is not in the antenna detection area	 JSMIA1506GB
				When Intelligent Key is in the antenna detection area	 JSMIA1507GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and front one touch unlock sensor assembly (passenger side) connector.
3. Check continuity between BCM harness connector and front one touch unlock sensor assembly (passenger side) harness connector.

BCM		Front one touch unlock sensor assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M16	114	D22	1	Existed
	115		4	

4. Check continuity between BCM harness connector and ground.

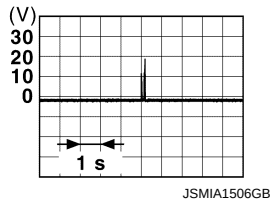
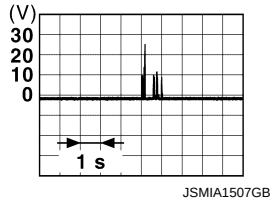
BCM		Ground	Continuity
Connector	Terminal		
M16	114		Not existed
	115		

Is the inspection result normal?

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

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace front door outside handle grip RH. (New antenna or other antenna)
2. Connect BCM connector and front one touch unlock sensor assembly (passenger side) connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(–)	Condition		Signal (Reference value)
Connector	Terminal				
M16	114, 115	Ground	When pressing the front door request switch (passenger side) with all doors are locked and ignition switch OFF	When Intelligent Key is not in the antenna detection area	 JSMIA1506GB
				When Intelligent Key is in the antenna detection area	 JSMIA1507GB

Is the inspection result normal?

YES >> Replace front door outside handle grip RH.
NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

B2627 OUTSIDE ANTENNA

DTC Description

INFOID:0000000011283204

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detecting condition
B2627	OUTSIDE ANTENNA (Outside antenna)	An excessive high or low voltage from front door left outside key antenna is sent to BCM

POSSIBLE CAUSE

- BCM
- Front door left outside key antenna
- Harness or connector (front door left outside key antenna circuit is open or shorted)

FAIL-SAFE

–

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?

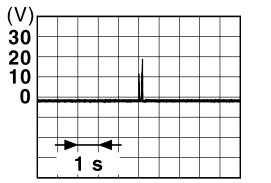
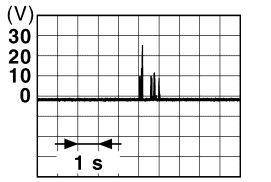
YES >> Refer to DLK-92, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000011283205

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M16	121, 122	Ground	When pressing the front door request switch (driver side) with all doors are locked and ignition switch OFF	When Intelligent Key is not in the antenna detection area	 JSMIA1506GB
				When Intelligent Key is in the antenna detection area	 JSMIA1507GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and front one touch unlock sensor assembly (driver side) connector.
3. Check continuity between BCM harness connector and front one touch unlock sensor assembly (driver side) harness connector.

BCM		Front one touch unlock sensor assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M16	121	D10	4	Existed
	122		1	

4. Check continuity between BCM harness connector and ground.

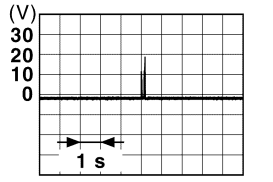
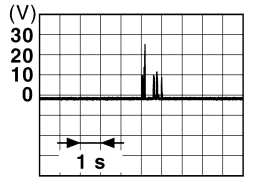
BCM		Ground	Continuity
Connector	Terminal		
M16	121		Not existed
	122		

Is the inspection result normal?

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

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace front door outside handle grip LH. (New antenna or other antenna)
2. Connect BCM connector and front one touch unlock sensor assembly (driver side) connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM		(–)	Condition		Signal (Reference value)
Connector	Terminal				
M16	121, 122	Ground	When pressing the front door request switch (driver side) with all doors are locked and ignition switch OFF	When Intelligent Key is not in the antenna detection area	 JSMIA1506GB
				When Intelligent Key is in the antenna detection area	 JSMIA1507GB

Is the inspection result normal?

YES >> Replace front door outside handle grip LH.
NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

B2628 OUTSIDE ANTENNA

DTC Description

INFOID:0000000011283206

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detecting condition
B2628	OUTSIDE ANTENNA (Outside antenna)	An excessive high or low voltage from outside key antenna (rear bumper) is sent to BCM

POSSIBLE CAUSE

- BCM
- Outside key antenna (rear bumper)
- Harness or connector [outside key antenna (rear bumper) circuit is open or shorted]

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is outside key antenna DTC detected?

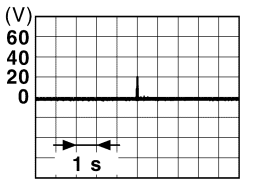
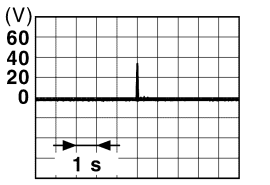
YES >> Refer to DLK-94, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000011283207

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

Check signal between BCM harness connector and ground using oscilloscope.

(+) BCM Connector	(+) BCM Terminal	(–)	Condition		Signal (Reference value)
M15	101, 102	Ground	When pressing the trunk lid opener request switch with all doors are locked and ignition switch OFF	When Intelligent Key is not in the antenna detection area	 JSMIA1504GB
				When Intelligent Key is in the antenna detection area	 JSMIA1505GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and outside key antenna (rear bumper) connector.
3. 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	
M15	101	B96	2	Existed
	102		1	

4. Check continuity between BCM harness connector and ground.

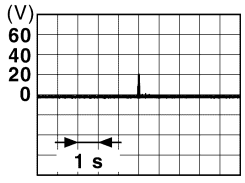
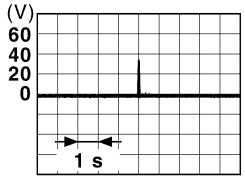
BCM		Ground	Continuity
Connector	Terminal		
M15	101		Not existed
	102		

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)
M15	101, 102	Ground	When pressing the trunk lid opener request switch with all doors are locked and ignition switch OFF	When Intelligent Key is not in the antenna detection area	 JSMIA1504GB
				When Intelligent Key is in the antenna detection area	 JSMIA1505GB

Is the inspection result normal?

YES >> Replace outside key antenna (rear bumper).
NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

B26FF REMOTE KEYLESS ENTRY RECEIVER

DTC Description

INFOID:0000000011283208

DTC DETECTION LOGIC

DTC No.	CONSULT screen terms (Trouble diagnosis content)	DTC detecting condition
B26FF	INTELLIGENT TUNER COMM ERROR (Intelligent tuner communication error)	Inactive communication between BCM and remote keyless entry receiver

POSSIBLE CAUSE

- Remote keyless entry receiver
- Harness or connector (remote keyless entry receiver circuit is open or shorted)
- BCM

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is outside key antenna DTC detected?

YES >> Refer to DLK-96, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-42, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000011283209

1.CHECK FUSE

Check that the following fuse is not fusing.

Signal name	Fuse No.
Power supply	17 (5 A)

Is the fuse fusing?

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

2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect remote keyless entry receiver connector.
3. Check voltage between remote keyless entry receiver harness connector and ground.

(+)		(–)	Voltage
Remote keyless entry receiver			
Connector	Terminal		
M113	1	Ground	Battery voltage

Is the inspection result normal?

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

3.CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

1. Disconnect BCM connector.

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

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M13	17	M113	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M13	17		Not existed

Is the inspection result normal?

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

4. CHECK BCM SIGNAL

1. Reconnect BCM connector.
2. Check voltage between remote keyless entry receiver harness connector and ground.

(+)		(–)	Voltage
Remote keyless entry receiver			
Connector	Terminal		
M113	2	Ground	9 – 16 V

Is the inspection result normal?

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

5. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

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

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M16	119	M113	2	Existed

3. Check continuity between BCM harness connector and ground.

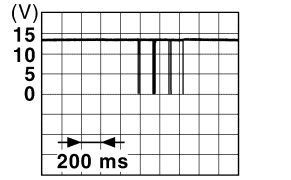
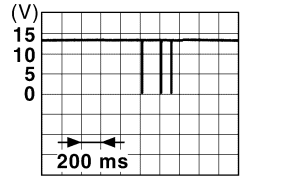
BCM		Ground	Continuity
Connector	Terminal		
M16	119		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> Repair or replace harness.

6. CHECK REMOTE KEYLESS ENTRY RECEIVER SIGNAL

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

(+)		(–)	Condition		Signal (Reference value)
Remote keyless entry receiver					
Connector	Terminal				
M113	2	Ground	Ignition switch ON	Waiting	 JMMIA1409GB
				When operating either button on the Intelligent Key	 JMMIA1410GB

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace remote keyless entry receiver.

7.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

COMBINATION METER BUZZER

Component Function Check

INFOID:0000000011283210

1.CHECK FUNCTION

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

Is the inspection result normal?

Yes >> Combination meter buzzer is OK.
No >> Refer to DLK-99, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283211

1.CHECK METER BUZZER CIRCUIT

Refer to WCS-53, "Component Function Check".

Is the inspection result normal?

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

2.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

DOOR KEY CYLINDER SWITCH

Component Function Check

INFOID:0000000011283212

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-100, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283213

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

(+)		(–)	Voltage
Front door lock assembly (driver side)			
Connector	Terminal		
D1	5	Ground	4 – 6 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 power window main switch connector.
2. Check continuity between power window main switch harness connector and front door lock assembly (driver side) harness connector.

Power window main switch		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
D8	15	D1	6	Existed
	16		5	

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

Power window main switch		Ground	Continuity
Connector	Terminal		
D8	15		Not existed
	16		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-78, "Removal and Installation".

NO >> Repair or replace harness.

3. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

Check continuity between front door lock assembly (driver side) harness connector and ground.

Front door lock assembly (driver side)		Ground	Continuity
Connector	Terminal		
D1	4		Existed

Is the inspection result normal?

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

4. CHECK DOOR KEY CYLINDER SWITCH

Refer to DLK-101, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace front door lock assembly (driver side).

5. CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011283214

1. CHECK DOOR KEY CYLINDER SWITCH

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check continuity between front door lock assembly (driver side) terminals.

Front door lock assembly (driver side) Terminal		Condition		Continuity
5	4	Driver side door key cylinder	Unlock	Existed
			Neutral / Lock	Not existed
6			Lock	Existed
			Neutral / Unlock	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace front door lock assembly (driver side).

DOOR LOCK ACTUATOR
DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000011283215

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-102, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011283216

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition		Voltage
Front door lock assembly (driver side)					
Connector	Terminal				
D1	1	Ground	Door lock and unlock switch	Lock	9 – 16 V
	2			Unlock	

Is the inspection result normal?

YES >> Replace front door lock assembly (driver side).
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM, front door lock assembly (passenger side) and fuel filler lid lock actuator connector.
2. Check continuity between BCM harness connector and front door lock assembly (driver side) harness connector.

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M17	135	D1	1	Existed
	137		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	135		Not existed
	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
BCM					
Connector	Terminal				
M17	135	Ground	Door lock and unlock switch	Lock	9 – 16 V
	137			Unlock	

Is the inspection result normal?

YES >> Check for internal short of front door lock actuator and fuel filler lid lock actuator.
NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:0000000011283217

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-103, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011283218

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition		Voltage
Front door lock assembly (passenger side)					
Connector	Terminal				
D28	1	Ground	Door lock and unlock switch	Unlock	9 – 16 V
	2			Lock	

Is the inspection result normal?

YES >> Replace front door lock assembly (passenger side).
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM, front door lock assembly (driver side) and fuel filler lid lock actuator connector.
2. Check continuity between BCM harness connector and front door lock assembly (passenger side) harness connector.

BCM		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M17	130	D28	1	Existed
	135		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	130		Not existed
	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
Connector	Terminal				
M17	130	Ground	Door lock and unlock switch	Unlock	9 – 16 V
	135			Lock	

Is the inspection result normal?

YES >> Check for internal short of front door lock actuator and fuel filler lid lock actuator.
NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

REAR LH

REAR LH : Component Function Check

INFOID:0000000011283219

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-104, "REAR LH : Diagnosis Procedure".

REAR LH : Diagnosis Procedure

INFOID:0000000011283220

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+) Rear door lock assembly LH		(–)	Condition		Voltage
Connector	Terminal				
D37	1	Ground	Door lock and unlock switch	Lock	9 – 16 V
	2			Unock	

Is the inspection result normal?

YES >> Replace rear door lock assembly LH.
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Rear door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	
M17	132	D37	1	Existed
	133		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	132		Not existed
	133		

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
Connector	Terminal				
M17	132	Ground	Door lock and unlock switch	Lock	9 – 16 V
	133			Unlock	

Is the inspection result normal?

YES >> Check for internal short of rear door lock actuator.
NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

REAR RH

REAR RH : Component Function Check

INFOID:0000000011283221

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-105, "REAR RH : Diagnosis Procedure".

REAR RH : Diagnosis Procedure

INFOID:0000000011283222

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

(+) Rear door lock assembly RH		(–)	Condition		Voltage
Connector	Terminal				
D46	1	Ground	Door lock and unlock switch	Unlock	9 – 16 V
	2			Lock	

Is the inspection result normal?

YES >> Replace rear door lock assembly RH.
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Rear door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	
M17	132	D46	2	Existed
	133		1	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	132		Not existed
	133		

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
BCM					
Connector	Terminal				
M17	132	Ground	Door lock and unlock switch	Lock	9 – 16 V
	133			Unlock	

Is the inspection result normal?

YES >> Check for internal short of rear door lock actuator.
NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:0000000011283223

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 (driver door)	LOCK	ON
		UNLOCK	OFF
CDL UNLOCK SW		LOCK	OFF
		UNLOCK	ON

Is the inspection result normal?

YES >> Door lock and unlock switch (driver door) is OK.
NO >> Refer to DLK-107, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011283224

1.CHECK POWER WINDOW MAIN SWITCH

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

Does power window operate?

YES >> Replace power window main switch.
NO >> Refer to PWC-65, "Diagnosis Procedure".

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:0000000011283225

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 (passenger door)	LOCK	ON
		UNLOCK	OFF
CDL UNLOCK SW		LOCK	OFF
		UNLOCK	ON

Is the inspection result normal?

YES >> Door lock and unlock switch (passenger door) is OK.
NO >> Refer to DLK-107, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011283226

1.CHECK POWER WINDOW MAIN SWITCH

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

Does power window operate?

YES >> GO TO 2.
NO >> Refer to PWC-65, "Diagnosis Procedure".

2.CHECK FRONT POWER WINDOW SWITCH (PASSENGER SIDE)

1. Turn ignition switch ON.
2. Check power window operation using front power window switch (passenger side).

Does power window operate?

YES >> Replace front power window switch (passenger side).
NO >> Refer to PWC-65, "Diagnosis Procedure".

DOOR REQUEST SWITCH

Component Function Check

INFOID:0000000011283227

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?

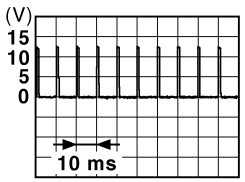
YES >> Front door request switch is OK.
NO >> Refer to DLK-109, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283228

1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning front outside handle assembly connector.
3. Check voltage between malfunctioning front outside handle assembly harness connector and ground.

(+)			(–)	Voltage
Front outside handle assembly				
Connector		Terminal		
Driver side	D5	1	Ground	9 – 16 V
Passenger side	D19			 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 outside handle assembly harness connector and BCM harness connector.

Front outside handle assembly			BCM		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	D5	1	M14	71	Existed
Passenger side	D19			72	

3. Check continuity between malfunctioning front outside handle assembly harness connector and ground.

Front outside handle assembly			Ground	Continuity
Connector		Terminal		
Driver side	D5	1		Not existed
Passenger side	D19			

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between malfunctioning front outside handle assembly harness connector and ground.

Front outside handle assembly			Ground	Continuity
Connector		Terminal		
Driver side	D5	2		Existed
Passenger side	D19			

Is the inspection result normal?

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

4.CHECK DOOR REQUEST SWITCH

Refer to DLK-110, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace front door outside handle grip.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011283229

1.CHECK DOOR REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning front outside handle assembly connector.
3. Check continuity between malfunctioning front outside handle assembly terminals.

Front outside handle assembly		Condition		Continuity
Terminal				
1	2	Door request switch	Pressed	Existed
			Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace front outside handle grip.

DOOR SWITCH

Component Function Check

INFOID:0000000011283230

1.CHECK FUNCTION

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

Monitor item	Condition		Status
DOOR SW-DR	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?

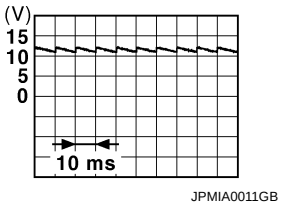
YES >> Door switch is OK.
NO >> Refer to DLK-111, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283231

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	B42	3	Ground	 JPMIA0011GB 11.8 V
Passenger side	B70	3		
Rear LH	B44	3		
Rear RH	B78	3		

Is the inspection result normal?

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

2.CHECK DOOR SWITCH CIRCUIT

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

Door switch			BCM		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B42	3	M15	96	Existed
Passenger side	B70			94	
Rear LH	B44			82	
Rear RH	B78			93	

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

Door switch			Ground	Continuity
Connector		Terminal		
Driver side	B42	3	Ground	Not existed
Passenger side	B70			
Rear LH	B44			
Rear RH	B78			

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK DOOR SWITCH

Refer to DLK-112, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace malfunctioning door switch.

4.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011283232

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					
Driver side	3	Ground part of door switch	Door switch	Pressed	Not existed
				Released	Existed
Passenger side				Pressed	Not existed
				Released	Existed
Rear LH				Pressed	Not existed
				Released	Existed
Rear RH				Pressed	Not existed
				Released	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace malfunction door switch.

FUEL FILLER LID LOCK ACTUATOR

Component Function Check

INFOID:0000000011283233

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Fuel filler lid lock actuator is OK.
NO >> Refer to DLK-113, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283234

1.CHECK FUEL FILLER LID LOCK ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition		Voltage
Fuel filler lid lock actuator					
Connector	Terminal				
B76	1	Ground	Door lock and unlock switch	Unlock	9 – 16 V
	2			Lock	

Is the inspection result normal?

YES >> Replace fuel filler lid lock actuator.
NO >> GO TO 2.

2.CHECK FUEL FILLER LID LOCK ACTUATOR CIRCUIT

1. Disconnect BCM, front door lock assembly (driver side) and front door lock assembly (passenger side) connector.
2. Check continuity between BCM harness connector and fuel filler lid lock actuator harness connector.

BCM		Fuel filler lid lock actuator		Continuity
Connector	Terminal	Connector	Terminal	
M17	135	B76	2	Existed
	137		1	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	135		Not existed
	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
BCM					
Connector	Terminal				
M17	135	Ground	Door lock and unlock switch	Lock	9 – 16 V
	137			Unlock	

Is the inspection result normal?

YES >> Check for internal short of front door lock actuators and fuel filler lid lock actuator.
NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

HAZARD FUNCTION

Component Function Check

INFOID:0000000011283235

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-115, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283236

1.CHECK HAZARD OPERATION

Refer to EXL-30, "TURN SIGNAL AND HAZARD WARNING LAMP SYSTEM : System Description".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to EXL-157, "Symptom Table".

2.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

INFORMATION DISPLAY

Diagnosis Procedure

INFOID:0000000011283237

1.CHECK COMBINATION METER

Refer to MWI-62, "On Board Diagnosis Function".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

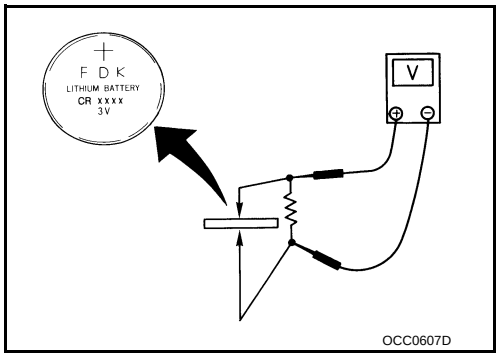
INTELLIGENT KEY BATTERY

Component Inspection

INFOID:0000000011283238

1. CHECK INTELLIGENT KEY BATTERY

Check by connecting a resistance (approximately 300 Ω) so that the current value becomes about 10 mA. Refer to DLK-254, "Removal and Installation".



Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

YES >> INSPECTION END
NO >> Replace Intelligent Key battery.

INTELLIGENT KEY WARNING BUZZER

Component Function Check

INFOID:0000000011283239

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-118, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283240

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 5 A fuse, [No. 4, 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		
E45	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	
M14	64	E45	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M14	64		Not existed

Is the inspection result normal?

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

4.CHECK INTELLIGENT KEY WARNING BUZZER

Refer to DLK-119, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to DLK-252, "Removal and Installation".
NO >> Replace Intelligent Key warning buzzer.

Component Inspection

INFOID:0000000011283241

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.

POWER SUPPLY AND GROUND CIRCUIT

FRONT DOOR LOCK

FRONT DOOR LOCK : Diagnosis Procedure

INFOID:0000000011283242

1.CHECK FUSE AND FUSIBLE LINK

Check that the following fuse is not fusing.

Signal name	Fuse No.
Front door lock and fuel filler lid lock actuator power supply	33 (15 A)

Is the fuse fusing?

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

2.CHECK POWER SUPPLY CIRCUIT

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

(+)		(–)	Voltage
BCM			
Connector	Terminal		
M17	142	Ground	9 – 16 V

Is the measurement value normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	134		Existed
	143		

Is the inspection result normal?

YES >> INSPECTION END
NO >> Repair or replace harness.

REAR DOOR LOCK

REAR DOOR LOCK : Diagnosis Procedure

INFOID:0000000011283243

1.CHECK FUSE AND FUSIBLE LINK

Check that the following fuse is not fusing.

Signal name	Fuse No.
Rear door lock actuator power supply	30 (15 A)

Is the fuse fusing?

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

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector.

3. Check voltage between BCM harness connector and ground.

(+)		(–)	Voltage
BCM			
Connector	Terminal		
M17	138	Ground	9 – 16 V

Is the measurement value normal?

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

3. CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M17	134		Existed
	143		

Is the inspection result normal?

YES >> INSPECTION END
NO >> Repair or replace harness.

REMOTE KEYLESS ENTRY RECEIVER

Component Function Check

INFOID:0000000011283244

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-122, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283245

1.CHECK FUSE

Check that the following fuse is not fusing.

Signal name	Fuse No.
Power supply	17 (5 A)

Is the fuse fusing?

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

2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect remote keyless entry receiver connector.
3. Check voltage between remote keyless entry receiver harness connector and ground.

(+)		(–)	Voltage
Remote keyless entry receiver			
Connector	Terminal		
M113	1	Ground	Battery voltage

Is the inspection result normal?

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

3.CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M13	17	M113	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M13	17		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK BCM SIGNAL

1. Reconnect BCM connector.
2. Check voltage between remote keyless entry receiver harness connector and ground.

(+)		(–)	Voltage
Remote keyless entry receiver			
Connector	Terminal		
M113	2	Ground	9 – 16 V

Is the inspection result normal?

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

5. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

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

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M16	119	M113	2	Existed

3. Check continuity between BCM harness connector and ground.

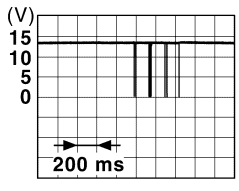
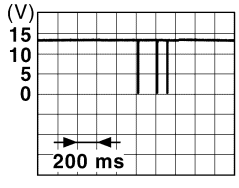
BCM		Ground	Continuity
Connector	Terminal		
M16	119		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> Repair or replace harness.

6. CHECK REMOTE KEYLESS ENTRY RECEIVER SIGNAL

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

(+)		(–)	Condition		Signal (Reference value)
Remote keyless entry receiver					
Connector	Terminal				
M113	2	Ground	Ignition switch ON	Waiting	 JMMIA1409GB
				When operating either button on the Intelligent Key	 JMMIA1410GB

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace remote keyless entry receiver.

7.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

TRUNK LID OPENER ACTUATOR

Component Function Check

INFOID:0000000011283246

1.CHECK FUNCTION

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “TRUNK/BACK DOOR” in “ACTIVE TEST” mode.
3. Touch “Open” to check that it works normally.

Is the inspection result normal?

YES >> Trunk lid opener actuator is OK.
NO >> Refer to DLK-125, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283247

1.CHECK TRUNK LID OPENER INPUT SIGNAL

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

(+)		(–)	Condition	Voltage
Trunk lid lock assembly				
Connector	Terminal			
T53	3	Ground	Trunk lid opener switch is pressed	9 – 16 V

Is the inspection result normal?

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

2.CHECK TRUNK LID OPENER ACTUATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and trunk lid lock assembly harness connector.

BCM		Trunk lid lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
M15	91	T53	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M15	91		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK TRUNK LID OPENER ACTUATOR GROUND CIRCUIT

Check continuity between trunk lid lock assembly harness connector and ground.

Trunk lid lock assembly		Ground	Continuity
Connector	Terminal		
T53	2		Existed

Is the inspection normal?

YES >> Replace trunk lid lock assembly.

NO >> Repair or replace harness.

TRUNK LID OPENER CANCEL SWITCH

Component Function Check

INFOID:0000000011283248

1.CHECK FUNCTION

1. Select “TRUNK” of “BCM” using CONSULT.
2. Select “TR CANCEL SW” in “DATA MONITOR” mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TR CANCEL SW	Trunk lid opener cancel switch	Set ON	On
		Set OFF	Off

Is the inspection result normal?

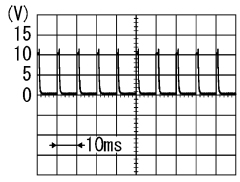
YES >> Trunk lid opener cancel switch is OK.
NO >> Refer to DLK-127, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283249

1.CHECK TRUNK LID OPENER CANCEL INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener cancel switch connector.
3. Check signal between trunk lid opener cancel switch harness connector and ground using oscilloscope.

(+)		(–)	Signal (Reference value)
Trunk lid opener cancel switch			
Connector	Terminal		
M84	1	Ground	

PKIB4956J

Is the inspection result normal?

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

2.CHECK TRUNK LID OPENER SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and trunk lid opener cancel switch harness connector.

BCM		Trunk lid opener cancel switch		Continuity
Connector	Terminal	Connector	Terminal	
M13	33	M84	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M13	33		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK TRUNK LID OPENER CANCEL SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener cancel switch harness connector and ground.

Trunk lid opener cancel switch		Ground	Continuity
Connector	Terminal		
M84	2		Existed

Is the inspection result normal?

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

4.CHECK TRUNK LID OPENER CANCEL SWITCH

Refer to DLK-128, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace trunk lid opener cancel switch.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011283250

1.CHECK TRUNK LID OPENER CANCEL SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener cancel switch connector.
3. Check continuity between trunk lid opener cancel switch terminal.

Trunk lid opener cancel switch		Condition		Continuity
Terminal				
1	2	Trunk lid opener cancel switch	Set ON	Existed
			Set OFF	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace trunk lid opener cancel switch.

TRUNK LID OPENER REQUEST SWITCH

Component Function Check

INFOID:0000000011283251

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	Trunk lid opener request switch	Pressed	On
		Released	Off

Is the inspection result normal?

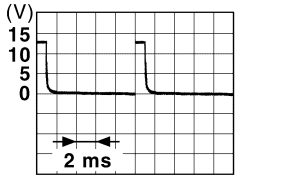
YES >> Trunk lid opener request switch is OK.
NO >> Refer to DLK-129, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283252

1.CHECK TRUNK LID OPENER REQUEST SWITCH OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener request switch assembly connector.
3. Check signal between trunk lid opener request switch assembly harness connector and ground using oscilloscope.

(+)		(–)	Signal (Reference value)
Trunk lid opener request switch assembly			
Connector	Terminal		
T47	1	Ground	

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Is the inspection result normal?

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

2.CHECK TRUNK LID OPENER REQUEST SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and trunk lid opener request switch assembly harness connector.

BCM		Trunk lid opener request switch assembly		Continuity
Connector	Terminal	Connector	Terminal	
M15	83	T47	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M15	83		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK TRUNK LID OPENER REQUEST SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener request switch assembly harness connector and ground.

Trunk lid opener request switch assembly		Ground	Continuity
Connector	Terminal		
T47	2		Existed

Is the inspection result normal?

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

4.CHECK TRUNK LID OPENER REQUEST SWITCH

Refer to DLK-130, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace trunk lid opener request switch.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011283253

1.CHECK TRUNK LID OPENER REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener request switch assembly connector.
3. Check continuing between trunk lid opener request switch assembly terminal.

Trunk lid opener request switch assembly		Condition		Continuity
Terminal				
1	2	Trunk lid opener request switch	Pressed	Existed
			Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace trunk lid opener request switch.

TRUNK LID OPENER SWITCH

Component Function Check

INFOID:0000000011283254

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	Trunk lid opener switch	Pressed	On
		Released	Off

Is the inspection result normal?

YES >> Trunk lid opener switch is OK.
NO >> Refer to DLK-131, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283255

1.CHECK TRUNK LID OPENER INPUT SIGNAL

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

(+)		(–)	Voltage
Triple switch			
Connector	Terminal		
M80	1	Ground	9 – 16 V

Is the inspection result normal?

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

2.CHECK TRUNK LID OPENER SWITCH CIRCUIT

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

BCM		Triple switch		Continuity
Connector	Terminal	Connector	Terminal	
M14	80	M80	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M14	80		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK TRUNK LID OPENER SWITCH GROUND CIRCUIT

Check continuity between triple switch harness connector and ground.

Triple switch		Ground	Continuity
Connector	Terminal		
M80	5		Existed

Is the inspection result normal?

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

4.CHECK TRUNK LID OPENER SWITCH

Refer to DLK-132, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace trunk lid opener switch.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011283256

1.CHECK TRUNK LID OPENER SWITCH

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

Triple switch		Condition		Continuity
Terminal				
1	5	Trunk lid opener switch	Pressed	Existed
			Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace trunk lid opener switch.

TRUNK ROOM LAMP SWITCH

Component Function Check

INFOID:0000000011283257

1.CHECK FUNCTION

1. Select “TRUNK” of “BCM” using CONSULT.
2. Select “TRNK/HAT MNTR” in “DATA MONITOR” mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TRNK/HAT MNTR	Trunk lid	Open	On
		Closed	Off

Is the inspection result normal?

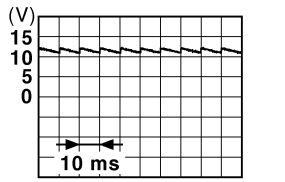
YES >> Trunk room lamp switch is OK.
NO >> Refer to DLK-133, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283258

1.CHECK TRUNK ROOM LAMP SWITCH INPUT SIGNAL

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

(+)		(–)	Signal (Reference value)
Trunk lid lock assembly			
Connector	Terminal		
T53	1	Ground	

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Is the inspection result normal?

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

2.CHECK TRUNK ROOM LAMP SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM connector and trunk lid lock assembly connector.

BCM		Trunk lid lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
M15	97	T53	1	Existed

3. Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M15	97		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK TRUNK ROOM LAMP SWITCH GROUND CIRCUIT

Check continuity between trunk lid lock assembly connector and ground.

Trunk lid lock assembly		Ground	Continuity
Connector	Terminal		
T53	2		Existed

Is the inspection result normal?

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

4.CHECK TRUNK ROOM LAMP SWITCH

Refer to DLK-134, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace trunk lid lock assembly.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011283259

1.CHECK TRUNK ROOM LAMP SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid lock assembly connector.
3. Check continuing between trunk lid lock assembly terminal.

Trunk lid lock assembly		Condition		Continuity
Terminal				
1	2	Trunk lid	Open	Existed
			Close	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace trunk lid lock assembly.

UNLOCK SENSOR

Component Function Check

INFOID:0000000011283260

1.CHECK FUNCTION

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “UNLK SEN-DR” in “DATA MONITOR” mode.
3. Check that the function operates normally according to the following conditions.

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

Is the inspection result normal?

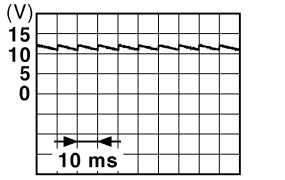
YES >> Unlock sensor is OK.
NO >> Refer to DLK-135, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011283261

1.CHECK UNLOCK SENSOR INPUT SIGNAL

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

(+)		(–)	Signal (Reference value)
Front door lock assembly (driver side)			
Connector	Terminal		
D1	3	Ground	

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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 (driver side) harness connector.

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M13	30	D1	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M13	30		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-98, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK UNLOCK SENSOR GROUND CIRCUIT

Check continuity between front door lock assembly (driver side) harness connector and ground.

Front door lock assembly (driver side)		Ground	Continuity
Connector	Terminal		
D1	4		Existed

Is the inspection result normal?

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

4.CHECK UNLOCK SENSOR

Refer to DLK-136, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace front door lock assembly (driver side).

5.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011283262

1.CHECK UNLOCK SENSOR

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly (driver side) connector.
3. Check continuity between front door lock assembly (driver side) terminals.

Front door lock assembly (driver side)		Condition		Continuity
Terminal				
3	4	Driver door	Unlock	Existed
			Lock	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace front door lock assembly (driver side).

SYMPTOM DIAGNOSIS

ACC WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283263

1.CHECK P POSITION WARNING OPERATION

Check P position warning operation.
Refer to WCS-13, "WARNING CHIME : P Position Warning (Buzzer)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to DLK-159, "Diagnosis Procedure".

2.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283264

1.CHECK “AUTO LOCK SET” SETTING IN “WORK SUPPORT”

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “AUTO LOCK SET” in “WORK SUPPORT” mode.
3. Check “AUTO LOCK SET” in “WORK SUPPORT”.
   Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

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

2.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

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

ALL DOOR

ALL DOOR : Description

INFOID:0000000011283265

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

ALL DOOR : Diagnosis Procedure

INFOID:0000000011283266

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check door lock and unlock power supply and ground circuit.
Refer to DLK-120, "FRONT DOOR LOCK : Diagnosis Procedure" (front door) and DLK-120, "REAR DOOR LOCK : Diagnosis Procedure" (rear door).

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.
Refer to DLK-107, "DRIVER SIDE : Component Function Check" (driver door) and DLK-107, "PASSENGER SIDE : Component Function Check" (passenger door).

Is the inspection result normal?

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

3. REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

FRONT DOOR

FRONT DOOR : Description

INFOID:0000000011283267

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

FRONT DOOR : Diagnosis Procedure

INFOID:0000000011283268

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check front door lock and unlock power supply and ground circuit.
Refer to DLK-120, "FRONT DOOR LOCK : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2. CHECK DOOR LOCK ACTUATOR

Check front door lock actuator.
Refer to DLK-102, "DRIVER SIDE : Component Function Check" (driver door) and DLK-103, "PASSENGER SIDE : Component Function Check" (passenger door).

Is the inspection result normal?

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

3. REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

REAR DOOR

REAR DOOR : Description

INFOID:0000000011283269

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

REAR DOOR : Diagnosis Procedure

INFOID:0000000011283270

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check rear doors lock and unlock power supply and ground circuit.
Refer to DLK-120, "REAR DOOR LOCK : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator.
Refer to DLK-104, "REAR LH : Component Function Check" (LH) and DLK-105, "REAR RH : Component Function Check" (RH).

Is the inspection result normal?

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

3.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000011283271

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011283272

1.CHECK DOOR LOCK ACTUATOR

Check front door lock actuator (driver door).
Refer to DLK-102, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000011283273

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011283274

1.CHECK DOOR LOCK ACTUATOR

Check front door lock actuator (passenger door).
Refer to DLK-103, "PASSENGER SIDE : Component_Function_Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

REAR LH

REAR LH : Description

INFOID:0000000011283275

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

REAR LH : Diagnosis Procedure

INFOID:0000000011283276

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator LH.
Refer to DLK-104, "REAR LH : Component_Function_Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

REAR RH

REAR RH : Description

INFOID:0000000011283277

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

REAR RH : Diagnosis Procedure

INFOID:0000000011283278

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock actuator RH.
Refer to DLK-105, "REAR RH : Component_Function_Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

ALL DOOR REQUEST SWITCHES

ALL DOOR REQUEST SWITCHES : Description

INFOID:0000000011283279

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

ALL DOOR REQUEST SWITCHES : Diagnosis Procedure

INFOID:0000000011283280

1. CHECK REMOTE KEYLESS ENTRY FUNCTION

Check door lock/unlock using Intelligent Key button operation.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.
NO >> Refer to DLK-146, "Diagnosis Procedure".

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

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT” mode.
3. Check “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT”.
   Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Set “On” in “LOCK/UNLOCK BY I-KEY”.

3. CHECK DOOR SWITCH

Check door switch.
Refer to DLK-111, "Component Function Check".

Is the inspection result normal?

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

4. CHECK INSIDE KEY ANTENNA

Check inside key antenna.
- Instrument lower: Refer to DLK-81, "DTC Description".
- Console: Refer to DLK-84, "DTC Description".
- Trunk room: Refer to DLK-87, "DTC Description".

Is the inspection result normal?

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

5. CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.
- Driver door : Refer to DLK-90, "DTC Description".
- Passenger door : Refer to DLK-92, "DTC Description".
- Rear bumper: Refer to DLK-94, "DTC Description".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6. REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

DRIVER SIDE DOOR REQUEST SWITCH

DRIVER SIDE DOOR REQUEST SWITCH : Description

INFOID:0000000011283281

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

DRIVER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:0000000011283282

1.CHECK DOOR REQUEST SWITCH

Check front door request switch (driver door).
Refer to DLK-109, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (driver door).
Refer to DLK-92, "DTC Description".

Is the inspection result normal?

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

3.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident"

PASSENGER SIDE DOOR REQUEST SWITCH

PASSENGER SIDE DOOR REQUEST SWITCH : Description

INFOID:0000000011283283

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

PASSENGER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:0000000011283284

1.CHECK PASSENGER SIDE DOOR REQUEST SWITCH

Check front door request switch (passenger door).
Refer to DLK-109, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (passenger door).
Refer to DLK-90, "DTC Description".

Is the inspection result normal?

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

3.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION

Diagnosis Procedure

INFOID:0000000011283285

1.CHECK POWER DOOR LOCK OPERATION

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

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

YES >> GO TO 2.
NO >> Refer to DLK-139, "ALL DOOR : Diagnosis Procedure".

2.CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.
Refer to DLK-100, "Component Function Check".

Is the inspection result normal?

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

3.REPLACE BCM

- Replace BCM. Refer to BCS-98, "Removal and Installation".
- Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:0000000011283286

1.CHECK INTELLIGENT KEY

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 checked?

YES >> GO TO 2.
NO >> Check Intelligent Key button operation with registered Intelligent Key belonging to the vehicle.

2.CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning is operated.

Is the Intelligent Key low battery warning operated?

YES >> GO TO 6.
NO-1 >> With another registered Intelligent Key: GO TO 3.
NO-2 >> Without another registered Intelligent Key: GO TO 4.

3.CHECK INTELLIGENT KEY BUTTON OPERATION

Check that door lock and unlock can be performed by operating the buttons of another registered Intelligent Key.

Can door lock and unlock be performed with another registered Intelligent Key?

YES >> GO TO 4.
NO >> GO TO 7.

4.CHECK ENGINE START

While depressing the brake pedal, contact the backside of the Intelligent Key that cannot be used to perform door lock and unlock operation to the push-button ignition switch. Operate the push-button ignition switch, and check that the vehicle is in START status.

Is the vehicle in START status?

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

5.CHECK INTELLIGENT KEY

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

Is the vehicle in START status?

YES >> GO TO 6.
NO >> Replace Intelligent Key.

6.CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.
Refer to DLK-117, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace Intelligent Key battery.

7.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 8.
NO >> Refer to DLK-139, "ALL DOOR : Diagnosis Procedure".

8.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.
Refer to DLK-122, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 9.
NO >> Repair or replace the malfunctioning parts.

9. REPLACE INTELLIGENT KEY

1. Replace Intelligent Key.
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

DOOR DOES NOT UNLOCK WITH ONE TOUCH UNLOCK SENSOR

ALL DOOR

ALL DOOR : Description

INFOID:0000000011283287

All doors do not unlock using all one touch unlock sensors.

ALL DOOR : Diagnosis Procedure

INFOID:0000000011283288

1.CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to BCS-62, "DTC Index".

2.CHECK DOOR LOCK FUNCTION

Check door lock using door request switch.

Does door lock with door request switch?

YES >> GO TO 3.
NO >> Refer to DLK-143, "ALL DOOR REQUEST SWITCHES : Diagnosis Procedure".

3.CHECK “TOUCH SENSOR UNLOCK FUNCTION SETTING” SETTING IN “WORK SUPPORT”

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “TOUCH SENSOR UNLOCK FUNCTION SETTING” in “WORK SUPPORT” mode.
3. Check “TOUCH SENSOR UNLOCK FUNCTION SETTING” in “WORK SUPPORT”.
   Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Set “With” in “LOCK/UNLOCK BY I-KEY”.

4.CHECK ONE TOUCH UNLOCK SENSOR

Check one touch unlock sensor
- Driver side: Refer to DLK-77, "DTC Description".
- Passenger side: Refer to DLK-79, "DTC Description".

Is the inspection result normal?

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

5.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000011283289

All doors do not unlock using one touch unlock sensor (driver door).

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011283290

1.CHECK DTC WITH BCM

Check that DTC is not detected with BCM

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to BCS-98, "Removal and Installation".

2.CHECK ONE TOUCH UNLOCK SENSOR

Check one touch unlock sensor (driver side).
Refer to DLK-77, "DTC Description".

Is the inspection result normal?

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

3.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident"

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000011283291

All doors do not unlock using one touch unlock sensor (passenger door).

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011283292

1.CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK ONE TOUCH UNLOCK SENSOR

Check one touch unlock sensor (passenger door).
Refer to DLK-79, "DTC Description".

Is the inspection result normal?

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

3.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283293

1.CHECK DOOR LOCK FUNCTION

Check door lock using door request switch.

Does door lock with door request switch?

YES >> GO TO 2.
NO >> Refer to DLK-143, "ALL DOOR REQUEST SWITCHES : Diagnosis Procedure".

2.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-118, "Component Function Check".

Is the inspection result normal?

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

3.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

FUEL FILLER LID LOCK ACTUATOR DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283294

1.CHECK POWER DOOR LOCK OPERATION

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

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

YES >> GO TO 2.
NO >> Refer to DLK-139, "ALL DOOR : Diagnosis Procedure".

2.CHECK FUEL FILLER LID LOCK ACTUATOR

Check fuel filler lid lock actuator.
Refer to DLK-113, "Component Function Check".

Is the inspection result normal?

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

3.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283295

1.CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.
NO-1 >> Refer to BCS-62, "DTC Index". (BCM)
NO-2 >> Refer to MWI-80, "DTC Index". (Combination meter)

2.CHECK INFORMATION DISPLAY

Check information display.
Refer to DLK-116, "Diagnosis Procedure".

Is the inspection result normal?

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

3.CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.
Refer to DLK-117, "Component Inspection".

Is the inspection result normal?

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

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
- Instrument lower: Refer to DLK-81, "DTC Description".
- Console: Refer to DLK-84, "DTC Description".
- Trunk room: Refer to DLK-87, "DTC Description".

Is the inspection result normal?

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

5.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283296

1.CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to BCS-62, "DTC Index".

2.CHECK POWER DOOR LOCK OPERATION

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

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

YES >> GO TO 3.
NO >> Refer to DLK-139, "ALL DOOR : Diagnosis Procedure".

3.CHECK DOOR SWITCH

Check front door switch (driver side).
Refer to DLK-111, "Component Function Check".

Is the inspection result normal?

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

4.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283297

1.CHECK “AUTO UNLOCK FUNCTION” SETTING IN “WORK SUPPORT”

1. Select “DOOR LOCK” of “BCM” using CONSULT.
2. Select “AUTO UNLOCK FUNCTION” in “WORK SUPPORT” mode.
3. Check “AUTO UNLOCK FUNCTION” in “WORK SUPPORT”.
   Refer to DLK-49, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “MODE 1” in “AUTO UNLOCK FUNCTION”.

2.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

KEY ID WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283298

1.CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.
NO-1 >> Refer to BCS-62, "DTC Index". (BCM)
NO-2 >> Refer to MWI-80, "DTC Index". (Combination meter)

2.CHECK INFORMATION DISPLAY

Check information display.
Refer to DLK-116, "Diagnosis Procedure".

Is the inspection result normal?

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

3.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument lower: Refer to DLK-81, "DTC Description".
- Console: Refer to DLK-84, "DTC Description".
- Trunk room: Refer to DLK-87, "DTC Description".

Is the inspection result normal?

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

4.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

KEY REMINDER FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283299

1.CHECK DOOR SWITCH

Check door switch.
Refer to DLK-111, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK UNLOCK SENSOR

Check unlock sensor.
Refer to DLK-135, "Component Function Check".

Is the inspection result normal?

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

3.CHECK TRUNK ROOM LAMP SWTICH

Check trunk room lamp switch.
Refer to DLK-133, "Component Function Check".

Is the inspection result normal?

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

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
- Instrument lower: Refer to DLK-81, "DTC Description".
- Console: Refer to DLK-84, "DTC Description".
- Trunk room: Refer to DLK-87, "DTC Description".

Is the inspection result normal?

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

5.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

OFF POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283300

1.CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.
NO-1 >> Refer to BCS-62, "DTC Index". (BCM)
NO-2 >> Refer to MWI-80, "DTC Index". (Combination meter)

2.CHECK DOOR SWITCH

Check front door switch (driver side).
Refer to DLK-111, "Component Function Check".

Is the inspection result normal?

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

3.CHECK COMBINATION METER BUZZER

Check combination meter buzzer.
Refer to DLK-99, "Component Function Check".

Is the inspection result normal?

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

4.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-118, "Component Function Check".

Is the inspection result normal?

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

5.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283301

1. CHECK “AUTO LOCK FUNCTION” SETTING IN “WORK SUPPORT”

1. Select “DOOR LOCK” of “BCM” using CONSULT.
2. Select “AUTO LOCK FUNCTION” in “WORK SUPPORT” mode.
3. Check “AUTO LOCK FUNCTION” in “WORK SUPPORT”.
   Refer to DLK-49, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “MODE 2” in “AUTO LOCK FUNCTION”.

2. CHECK “AUTO UNLOCK FUNCTION” SETTING IN “WORK SUPPORT”

1. Select “DOOR LOCK” of “BCM” using CONSULT.
2. Select “AUTO UNLOCK FUNCTION” in “WORK SUPPORT” mode.
3. Check “AUTO UNLOCK FUNCTION” in “WORK SUPPORT”.
   Refer to DLK-49, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Set “MODE 2” in “AUTO UNLOCK FUNCTION”.

3. REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

P POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283302

1.CHECK DTC WITH BCM, TCM AND COMBINATION METER

Check that DTC is not detected with BCM, TCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.
NO-1 >> Refer to BCS-62, "DTC Index". (BCM)
NO-2 >> Refer to TM-84, "DTC Index". (TCM)
NO-3 >> Refer to MWI-80, "DTC Index". (Combination meter)

2.CHECK COMBINATION METER BUZZER

Check combination meter buzzer.
Refer to WCS-53, "Component Function Check".

Is the inspection result normal?

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

3.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-118, "Component Function Check".

Is the inspection result normal?

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

4.CHECK DOOR SWITCH

Check front door switch (driver side).
Refer to DLK-111, "Component Function Check".

Is the inspection result normal?

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

5.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
- Instrument lower: Refer to DLK-81, "DTC Description".
- Console: Refer to DLK-84, "DTC Description".
- Trunk room: Refer to DLK-87, "DTC Description".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6.CHECK INFORMATION DISPLAY

Check information display.
Refer to DLK-116, "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-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

REMINDER FUNCTION DOES NOT OPERATE
DOOR REQUEST SWITCH

DOOR REQUEST SWITCH : Description

INFOID:0000000011283303

Reminder function does not operate using door request switch.

DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:0000000011283304

1.CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.
NO-1 >> Refer to BCS-62, "DTC Index". (BCM)
NO-2 >> Refer to MWI-80, "DTC Index". (Combination meter)

2.CHECK “ANSWER BACK” SETTING IN “WORK SUPPORT”

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “ANSWER BACK” in “WORK SUPPORT” mode.
3. Check the “ANSWER BACK” in “WORK SUPPORT”.
   Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Set “Off” in “ANSWER BACK”.

3.CHECK “ANSWER BACK I-KEY LOCK UNLOCK” SETTING IN “WORK SUPPORT”

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “ANSWER BACK I-KEY LOCK UNLOCK” in “WORK SUPPORT” mode.
3. Check the “ANSWER BACK I-KEY LOCK UNLOCK” in “WORK SUPPORT”.
   Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Set “BUZZER”, “HORN” or “Off” in “ANSWER BACK I-KEY LOCK UNLOCK”.

4.CHECK HAZARD FUNCTION

Check hazard function.
Refer to DLK-115, "Component Function Check".

Is the inspection result normal?

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

5.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-118, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6.CHECK HORN FUNCTION

Check horn function.
Refer to SEC-118, "Component Function Check".

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-98, "Removal and Installation".

2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

INTELLIGENT KEY

INTELLIGENT KEY : Description

INFOID:0000000011283305

Reminder function does not operate using Intelligent Key.

INTELLIGENT KEY : Diagnosis Procedure

INFOID:0000000011283306

1.CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.
NO-1 >> Refer to BCS-62, "DTC Index". (BCM)
NO-2 >> Refer to MWI-80, "DTC Index". (Combination meter)

2.CHECK “ANSWER BACK” SETTING IN “WORK SUPPORT”

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “ANSWER BACK” in “WORK SUPPORT” mode.
3. Check the “ANSWER BACK” in “WORK SUPPORT”.
   Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Set “Off” in “ANSWER BACK”.

3.CHECK “ANSWER BACK KEYLESS LOCK UNLOCK” SETTING IN “WORK SUPPORT”

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “ANSWER BACK KEYLESS LOCK UNLOCK” in “WORK SUPPORT” mode.
3. Check the “ANSWER BACK KEYLESS LOCK UNLOCK” in “WORK SUPPORT”.
   Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Set “On” or “Off” in “ANSWER BACK KEYLESS LOCK UNLOCK”.

4.CHECK HAZARD FUNCTION

Check hazard function.
Refer to DLK-115, "Component Function Check".

Is the inspection result normal?

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

5.CHECK HORN FUNCTION

Check horn function.
Refer to SEC-118, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

TRUNK LID OPENER REQUEST SWITCH

TRUNK LID OPENER REQUEST SWITCH : Description

INFOID:0000000011283307

Reminder function does not operate using trunk lid opener request switch.

TRUNK LID OPENER REQUEST SWITCH : Diagnosis Procedure

INFOID:0000000011283308

1.CHECK “TRUNK/GLASS HATCH OPEN” SETTING IN “WORK SUPPORT”

1. Select “TRUNK/GLASS HATCH OPEN” of “BCM” using CONSULT.
2. Select “TRUNK/GLASS HATCH OPEN” in “WORK SUPPORT” mode.
3. Check the “TRUNK/GLASS HATCH OPEN” in “WORK SUPPORT”.
   Refer to DLK-51, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “On” in “TRUNK/GLASS HATCH OPEN”.

2.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-118, "Component Function Check".

Is the inspection result normal?

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

3.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

TRUNK LID CLOSED

TRUNK LID CLOSED : Description

INFOID:0000000011283309

Reminder function does not operate using trunk lid closed.

TRUNK LID CLOSED : Diagnosis Procedure

INFOID:0000000011283310

1.CHECK TRUNK ROOM LAMP SWITCH

Check trunk room lamp switch.
Refer to DLK-133, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK HAZARD FUNCTION

Check hazard function.
Refer to DLK-115, "Component Function Check".

Is the inspection result normal?

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

3.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END

NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

TAKE AWAY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283311

1.CHECK DTC WITH BCM AND COMBINATION METER

Check that DTC is not detected with BCM and combination meter.

Is the inspection result normal?

YES >> GO TO 2.
NO-1 >> Refer to BCS-62, "DTC Index". (BCM)
NO-2 >> Refer to MWI-80, "DTC Index". (Combination meter)

2.CHECK COMBINATION METER BUZZER

Check combination meter buzzer.
Refer to WCS-53, "Component Function Check".

Is the inspection result normal?

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

3.CHECK INFORMATION DISPLAY

Check information display.
Refer to DLK-116, "Diagnosis Procedure".

Is the inspection result normal?

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

4.CHECK DOOR SWITCH

Check door switch.
Refer to DLK-111, "Component Function Check".

Is the inspection result normal?

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

5.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-118, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument lower: Refer to DLK-81, "DTC Description".
- Console: Refer to DLK-84, "DTC Description".
- Trunk room: Refer to DLK-87, "DTC Description".

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-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident"

TRUNK LID DOES NOT OPEN

ALL SWITCHES

ALL SWITCHES : Description

INFOID:0000000011283312

Trunk lid does not open using all switches.

ALL SWITCHES : Diagnosis Procedure

INFOID:0000000011283313

1.CHECK TRUNK LID OPENER CANCEL SWITCH SETTING

Check trunk lid opener cancel switch is setting in ON position.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set trunk lid opener cancel switch to ON position.

2.CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch.
Refer to DLK-127, "Component Function Check".

Is the inspection result normal?

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

3.CHECK TRUNK LID OPENER ACTUATOR

Check trunk lid opener actuator.
Refer to DLK-125, "Component Function Check".

Is the inspection result normal?

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

4.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

TRUNK LID OPENER SWITCH

TRUNK LID OPENER SWITCH : Description

INFOID:0000000011283314

Trunk lid does not open using trunk lid opener switch.

TRUNK LID OPENER SWITCH : Diagnosis Procedure

INFOID:0000000011283315

1.CHECK TRUNK LID OPENER SWITCH

Check trunk lid opener switch.
Refer to DLK-131, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

INTELLIGENT KEY

INTELLIGENT KEY : Description

INFOID:0000000011283316

Trunk lid does not open using Intelligent Key button operation.

INTELLIGENT KEY : Diagnosis Procedure

INFOID:0000000011283317

1.CHECK TRUNK LID OPEN FUNCTION

Check trunk lid open function with trunk lid opener switch.

Does trunk lid open with trunk lid opener switch?

YES >> GO TO 2.
NO >> Refer to DLK-165, "TRUNK LID OPENER SWITCH : Diagnosis Procedure".

2.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check door lock/unlock using Intelligent Key button operation.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 3.
NO >> Refer to DLK-146, "Diagnosis Procedure".

3.REPLACE INTELLIGENT KEY

1. Replace Intelligent Key.
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Replace BCM. Refer to BCS-98, "Removal and Installation".

TRUNK LID OPENER REQUEST SWITCH

TRUNK LID OPENER REQUEST SWITCH : Description

INFOID:0000000011283318

Trunk lid does not open using trunk lid opener request switch.

TRUNK LID OPENER REQUEST SWITCH : Diagnosis Procedure

INFOID:0000000011283319

1.CHECK TRUNK LID OPEN FUNCTION

Check trunk lid open function using trunk lid opener switch.

Does trunk lid open with trunk lid opener switch?

YES >> GO TO 2.
NO >> Refer to DLK-165, "TRUNK LID OPENER SWITCH : Diagnosis Procedure".

2.CHECK DOOR LOCK FUNCTION

Check door lock/unlock using door request switch.

Does door lock/unlock with door request switch?

YES >> GO TO 3.
NO >> Refer to DLK-143, "ALL DOOR REQUEST SWITCHES : Diagnosis Procedure".

3.CHECK TRUNK LID OPENER REQUEST SWITCH

Check trunk lid opener request switch.
Refer to DLK-129, "Component Function Check".

Is the inspection result normal?

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

4.CHECK OUTSIDE KEY ANTENNA (REAR BUMPER)

Check outside key antenna (rear bumper).
Refer to DLK-94, "DTC Description".

Is the inspection result normal?

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

5. CHECK TRUNK LID ROOM LAMP SWITCH

Check trunk lid room lamp switch.
Refer to DLK-133, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6. REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011283320

1.CHECK “AUTO LOCK FUNCTION” SETTING IN “WORK SUPPORT”

1. Select “DOOR LOCK” of “BCM” using CONSULT.
2. Select “AUTO LOCK FUNCTION” in “WORK SUPPORT” mode.
3. Check “AUTO LOCK FUNCTION” in “WORK SUPPORT”.
   Refer to DLK-49, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “MODE 1” in “AUTO LOCK FUNCTION”.

2.REPLACE BCM

1. Replace BCM. Refer to BCS-98, "Removal and Installation".
2. Confirm the operation after replacement.

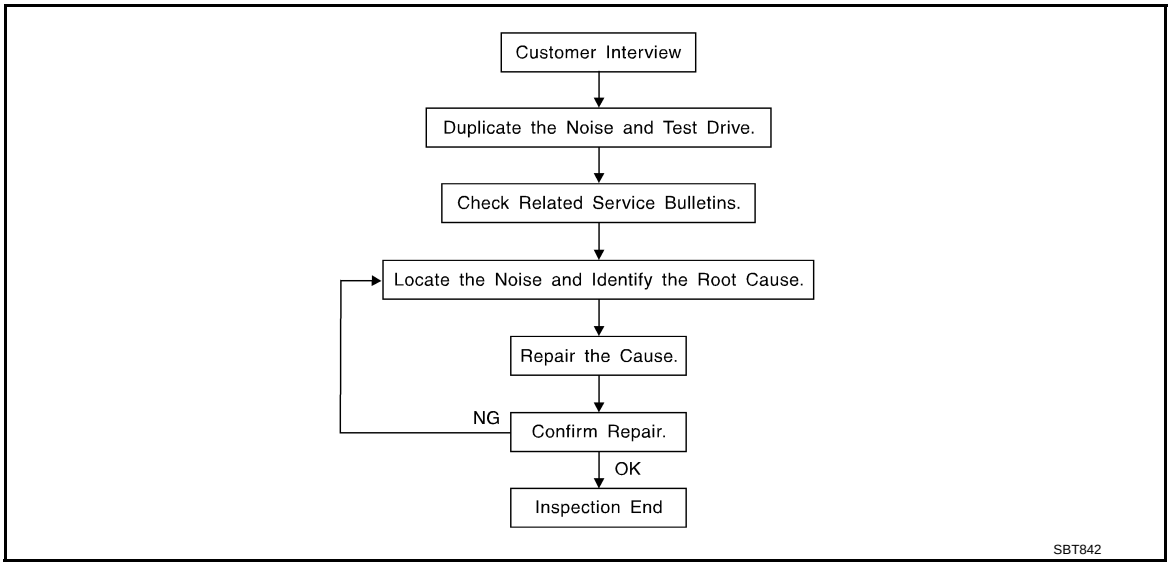
Is the result normal?

YES >> INSPECTION END
NO >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000011283321



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to DLK-173, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)
  Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
  Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)
  Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)
  Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)
  Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
  Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumblebee)
  Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

1) Close a door.
2) Tap or push/pull around the area where the noise appears to be coming from.
3) Rev the engine.
4) Use a floor jack to recreate vehicle “twist”.
5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.

- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.
If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:

- Removing the components in the area that is are suspected to be the cause of the noise.
  Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
  Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks.
  Refer to DLK-171, "Inspection Procedure".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:

- Separate components by repositioning or loosening and retightening the component, if possible.
- Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-50397) is available through the authorized Nissan Parts Department.

CAUTION:
Never use excessive force as many components are constructed of plastic and may be damaged.
NOTE:
Always check with the Parts Department for the latest parts information.
The following materials are contained in the Nissan Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.
URETHANE PADS [1.5 mm (0.059 in) thick]
Insulates connectors, harness, etc.
76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02:15 × 25 mm (0.59 × 0.98 in)
INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
73982-9E000: 45 mm (1.77 in) thick, 50 × 50 mm (1.97 × 1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)
INSULATOR (Light foam block)
80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97in)
FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll
The following materials, not found in the kit, can also be used to repair squeaks and rattles.
UHMW (TEFLON) TAPE

Insulates where slight movement is present. Ideal for instrument panel applications.
SILICONE GREASE
Used in place of UHMW tape that is be visible or does not fit. Will only last a few months.
SILICONE SPRAY
Used when grease cannot be applied.
DUCT TAPE
Used to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

INFOID:0000000011283322

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint
   These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.
   CAUTION:
   Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

1. Shifter assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the following:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-50397) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer.
In addition look for the following:

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment
3. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

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

SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise.
Cause of seat noise include:

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

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

UNDERHOOD

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

1. Any component mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

Diagnostic Worksheet

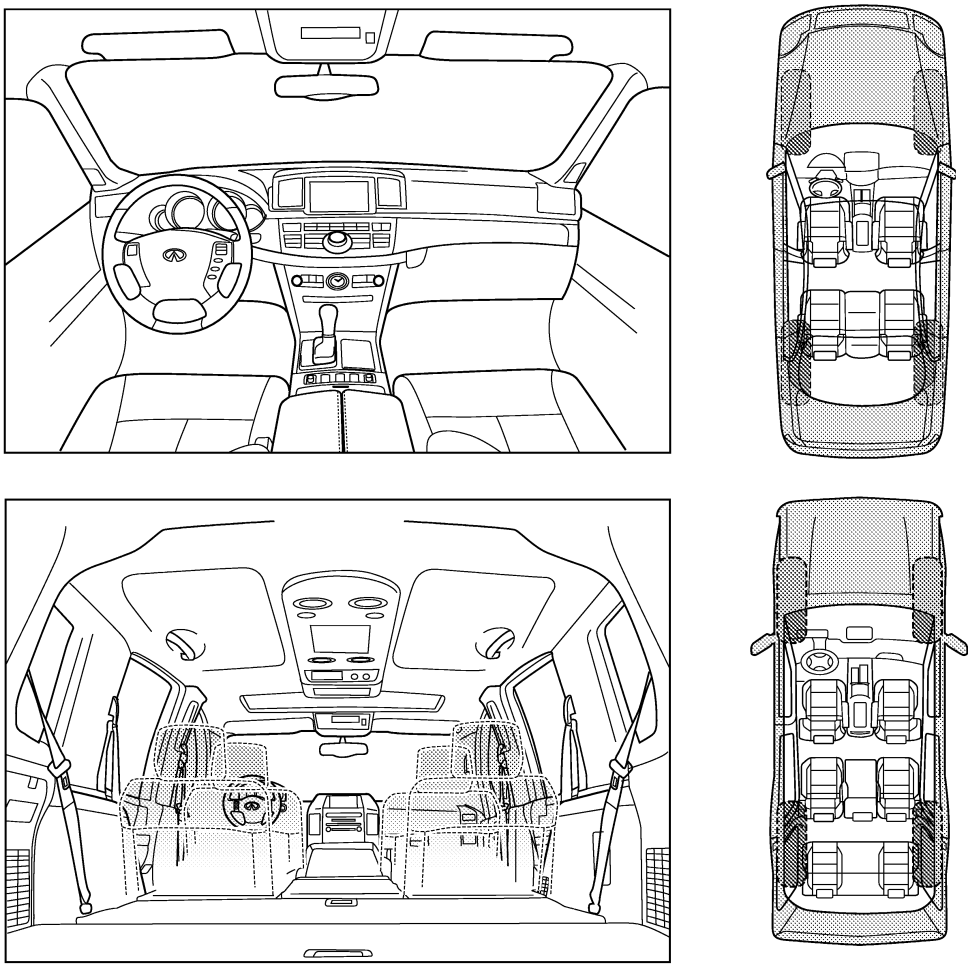
INFOID:0000000011283323

INFINITI

SQUEAK & RATTLE
DIAGNOSTIC WORKSHEET

Dear Infiniti Customer:
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service consultant or technician to ensure we confirm the noise you are hearing.

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)
The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

PIIB8741E

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

_____

_____

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

- ☐ anytime
- ☐ 1st time in the morning
- ☐ only when it is cold outside
- ☐ only when it is hot outside
- ☐ after sitting out in the rain
- ☐ when it is raining or wet
- ☐ dry or dusty conditions
- ☐ other:

III. WHEN DRIVING:

- ☐ through driveways
- ☐ over rough roads
- ☐ over speed bumps
- ☐ only about ____ mph
- ☐ on acceleration
- ☐ coming to a stop
- ☐ on turns: left, right or either (circle)
- ☐ with passengers or cargo
- ☐ other: _____
- ☐ after driving _____ miles or _____ minutes

IV. WHAT TYPE OF NOISE

- ☐ squeak (like tennis shoes on a clean floor)
- ☐ creak (like walking on an old wooden floor)
- ☐ rattle (like shaking a baby rattle)
- ☐ knock (like a knock at the door)
- ☐ tick (like a clock second hand)
- ☐ thump (heavy, muffled knock noise)
- ☐ buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

_____

_____

_____

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

VIN: _____ Customer Name: _____

W.O.# _____ Date: _____

This form must be attached to Work Order

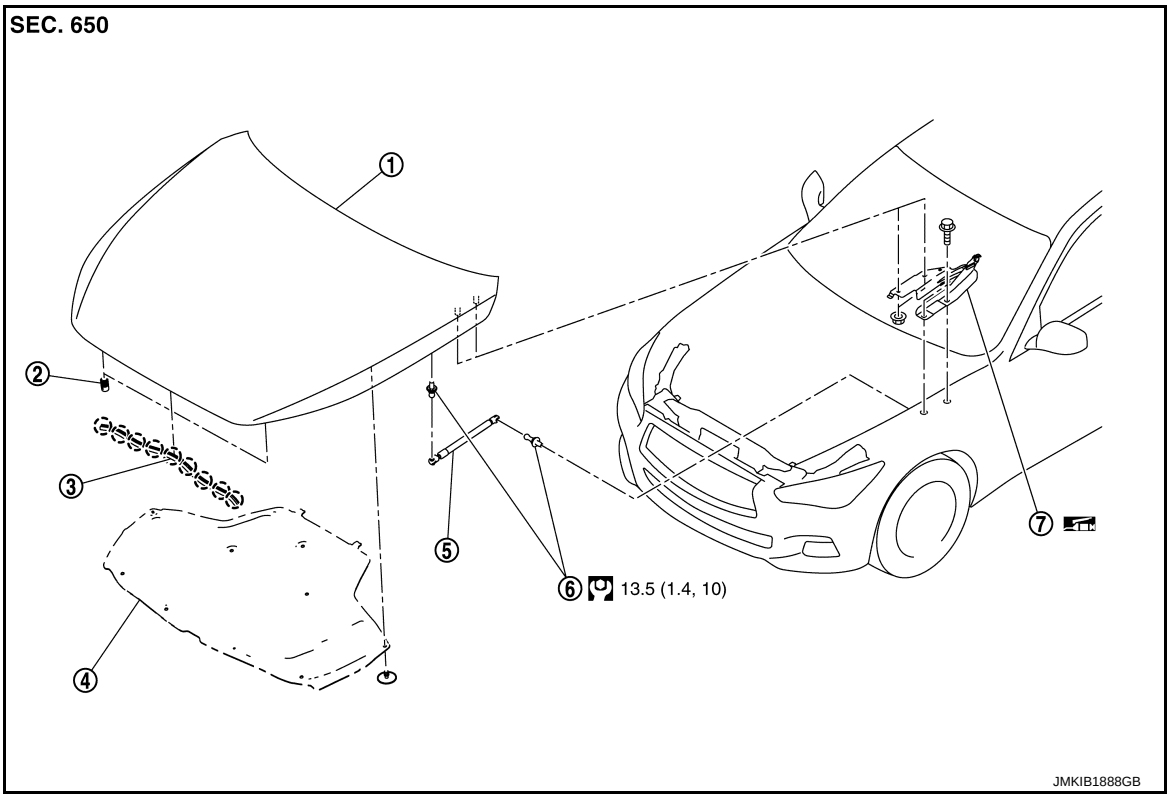
PIIB8742E

REMOVAL AND INSTALLATION

HOOD

Exploded View

INFOID:0000000011283324



① Hood assembly	② Hood bumper rubber	③ Radiator core seal
④ Hood insulator	⑤ Hood stay	⑥ Stud ball
⑦ Hood hinge		
: Clip		
: N·m (kg-m, ft-lb)		
: Body grease		

HOOD ASSEMBLY

HOOD ASSEMBLY : Removal and Installation

INFOID:0000000011283325

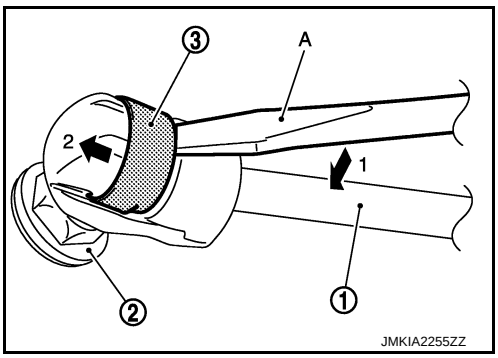
CAUTION:
- **Operate with 2 workers, because of its heavy weight.**
- **Use protective tape or shop cloth to protect from damage during removal and installation.**

REMOVAL

1. Remove washer nozzle LH, RH and washer tube. Refer to WW-59, "WASHER NOZZLE & TUBE : Removal and Installation".
2. Support hood assembly with the proper material to prevent it from falling.

   WARNING:
   Injury may occur if hood assembly is not supported with appropriate material when removing hood assembly.

3. In the order of 1 → 2 as shown in the figure, remove the metal clip ③ located on the connection between the hood stay ① and the stud ball ② (hood side), by using a remover tool (A).
CAUTION:
Two workers are required to support the hood.



4. Disengage the stud ball from the hood stay (hood side).
5. Remove hood assembly mounting nuts, and then remove hood assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

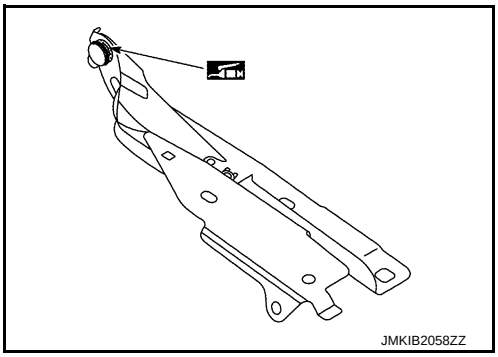
- **Before installing hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.**
- **After installing, perform hood fitting adjustment. Refer to DLK-176, "HOOD ASSEMBLY : Adjustment".**
- **Apply touch-up paint to the body color if the paint around hood hinge is peeled off.**

HOOD ASSEMBLY : Inspection

INFOID:0000000011283326

1. Open and close the hood. Check that hood hinge rotation portion moves smoothly.
2. Check hood hinge rotating part for poor lubrication. If necessary, apply body grease.

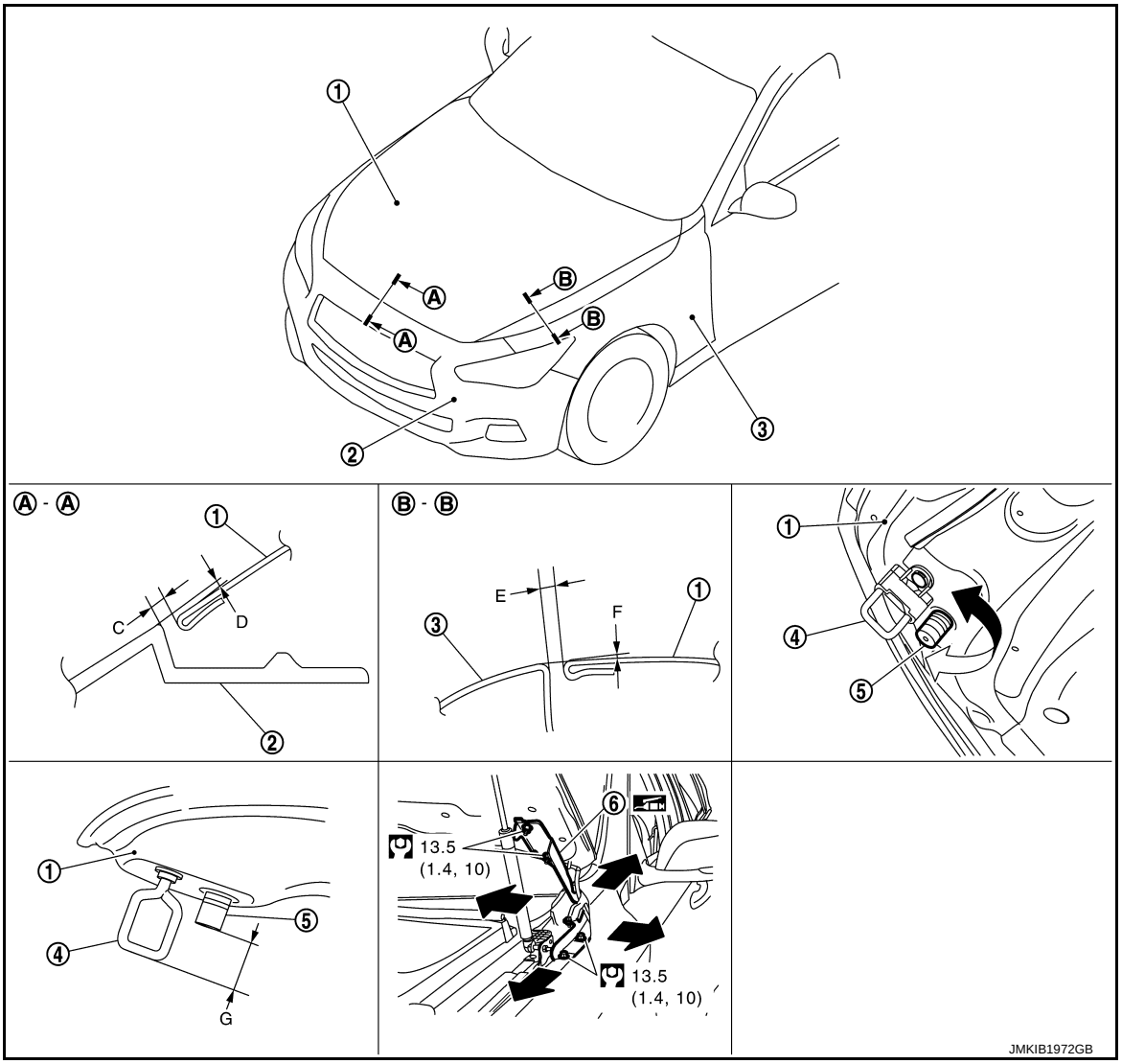
: Body grease



HOOD ASSEMBLY : Adjustment

INFOID:0000000011283327

FITTING ADJUSTMENT



① Hood assembly
② Front bumper fascia
③ Front fender
④ Hood striker
⑤ Hood bumper rubber
⑥ Hood hinge
: N·m (kg-m, fl-lb)
: Body grease

Fitting Adjustment Standard

Check the clearance and the surface height between hood and each part visually and by touching. (Fitting standard dimension in the table below should be satisfied.

If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm [in]

Portion				Standard	Difference (RH/LH, MAX)
Hood – Front bumper fascia	Ⓐ – Ⓐ	C	Clearance	2.0 – 4.0 [0.079 – 0.157]	—
		D	Surface height	(–1.0) – (+2.0) [(–0.039) – (+0.079)]	—
Hood – Front fender	Ⓑ – Ⓑ	E	Clearance	2.0 – 3.0 [0.079 – 0.118]	< 2.0 [0.079]

Portion				Standard	Difference (RH/LH, MAX)
		F	Surface height	(–2.0) – (+1.0) [(–0.079) – (+0.039)]	—
Hood striker – Bumper rubber	—	G	Clearance	36.8 – 40.8 [1.449 – 1.606]	—

Fitting Adjustment Procedure

1. Remove hood striker and adjust the surface height of hood, front bumper fascia and front fender according to the fitting standard dimension, by rotating hood bumper rubbers.
2. Adjust the height difference of hood striker, hood bumper rubber according to the fitting standard dimension.
3. Loosen hood hinge mounting nuts on the hood.
4. Adjust the clearance of hood, front bumper fascia and front fender according to the fitting standard dimension, for the hood.
5. Check that hood lock secondary latch is securely engaged with striker by dropping hood from approximately 200 mm (7.874 in) height or pressing lightly on the hood.
   CAUTION:
   Never drop hood from a height of 300 mm (11.811 in) or more.
6. Install as static closing force of hood is 94 – 490 N·m (9.6 – 50.0 kg-m).
   NOTE:
   • Exercise vertical force on right side and left side of hood lock.
   • Never press simultaneously both sides.
7. After adjustment, tighten hood hinge mounting nuts to the specified torque.

CAUTION:
- **After installation, apply touch-up paint (the body color) onto the heads of hood hinge mounting bolt and nuts.**
- **After adjustment, adjust the washer nozzle spray position. Refer to WW-60, "WASHER NOZZLE & TUBE : Inspection and Adjustment".**

HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:0000000011283328

REMOVAL

1. Remove hood assembly. Refer to DLK-175, "HOOD ASSEMBLY : Removal and Installation".
2. Remove front fender cover. Refer to DLK-187, "FENDER COVER : Removal and Installation".
3. Remove front fender drip cover. Refer to DLK-188, "HOOD SEAL : Removal and Installation".
4. Remove hood stay. Refer to DLK-178, "HOOD STAY : Removal and Installation".
5. Remove upper mounting bolt of front fender assembly. Refer to DLK-186, "Exploded View".
6. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:
Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the hood ledge.

HOOD STAY

HOOD STAY : Removal and Installation

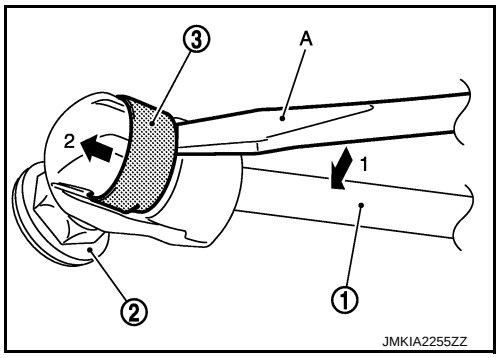
INFOID:0000000011283329

REMOVAL

1. Remove hoodledge cover. Refer to EXT-27, "Removal and Installation".
2. Support hood assembly with a proper material to prevent it from falling.
   WARNING:

Injury may occur if hood assembly is not supported with appropriate material when removing hood assembly.

3. In the order of 1 → 2 as shown in the figure, remove the metal clip ③ located on the connection between the hood stay ① and the stud ball ② (hood side), by using a remover tool (A).
   CAUTION:
   Two workers are required to support the hood.



4. Disengage the stud ball from the hood stay (hood side).
5. Repeat the same operation to disengage the stud ball from the hood stay (hinge side), then remove the hood stay.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

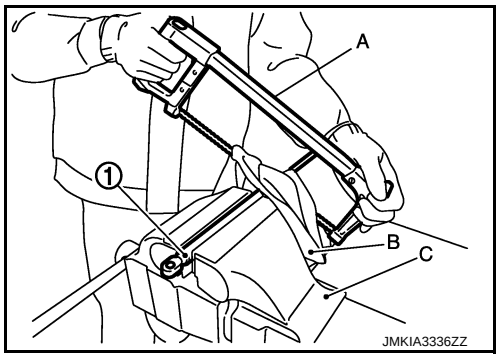
CAUTION:
After the installation, check that hood opens and closes normally. Refer to DLK-176, "HOOD ASSEMBLY : Inspection".

HOOD STAY : Disposal

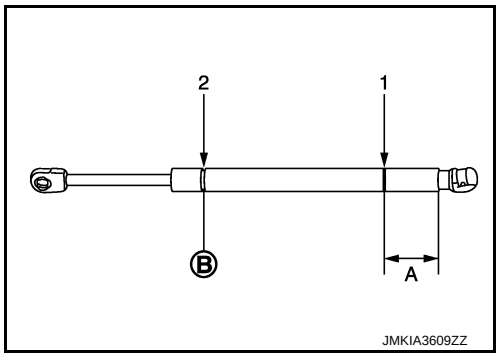
INFOID:0000000011283330

CAUTION:
When performing disposal operation, wear the protective glasses and protective gloves.

1. Fix hood stay ① using a vise (C).
2. Using hacksaw (A) slowly make 2 holes in the hood stay, in numerical order 1 → 2 as shown in the figure.
   CAUTION:
   When cutting a hole on hood stay, always cover a hacksaw using a shop cloth (B) to avoid scattering metal fragments or oil.



A : 20.0 mm (0.787 in)
Ⓑ : Cut at the groove.



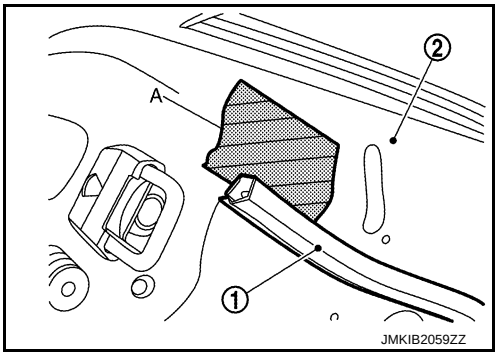
RADIATOR CORE SEAL

RADIATOR CORE SEAL : Removal and Installation

INFOID:0000000011283331

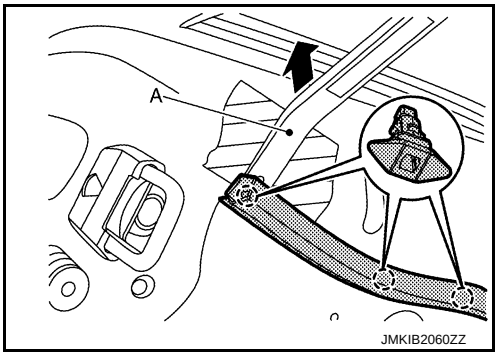
REMOVAL

1. Apply protective tape (A) to hood assembly ② around radiator core seal ① fixing clips for preventing damage.



2. Disengage fixing clips on the reverse side of radiator core seal using a remover tool (A).
CAUTION:
Never to damage hood assembly.

: Clip



3. Remove radiator core seal.

INSTALLATION
Install in the reverse order of removal.

HOOD INSULATOR

HOOD INSULATOR : Removal and Installation

INFOID:0000000011283332

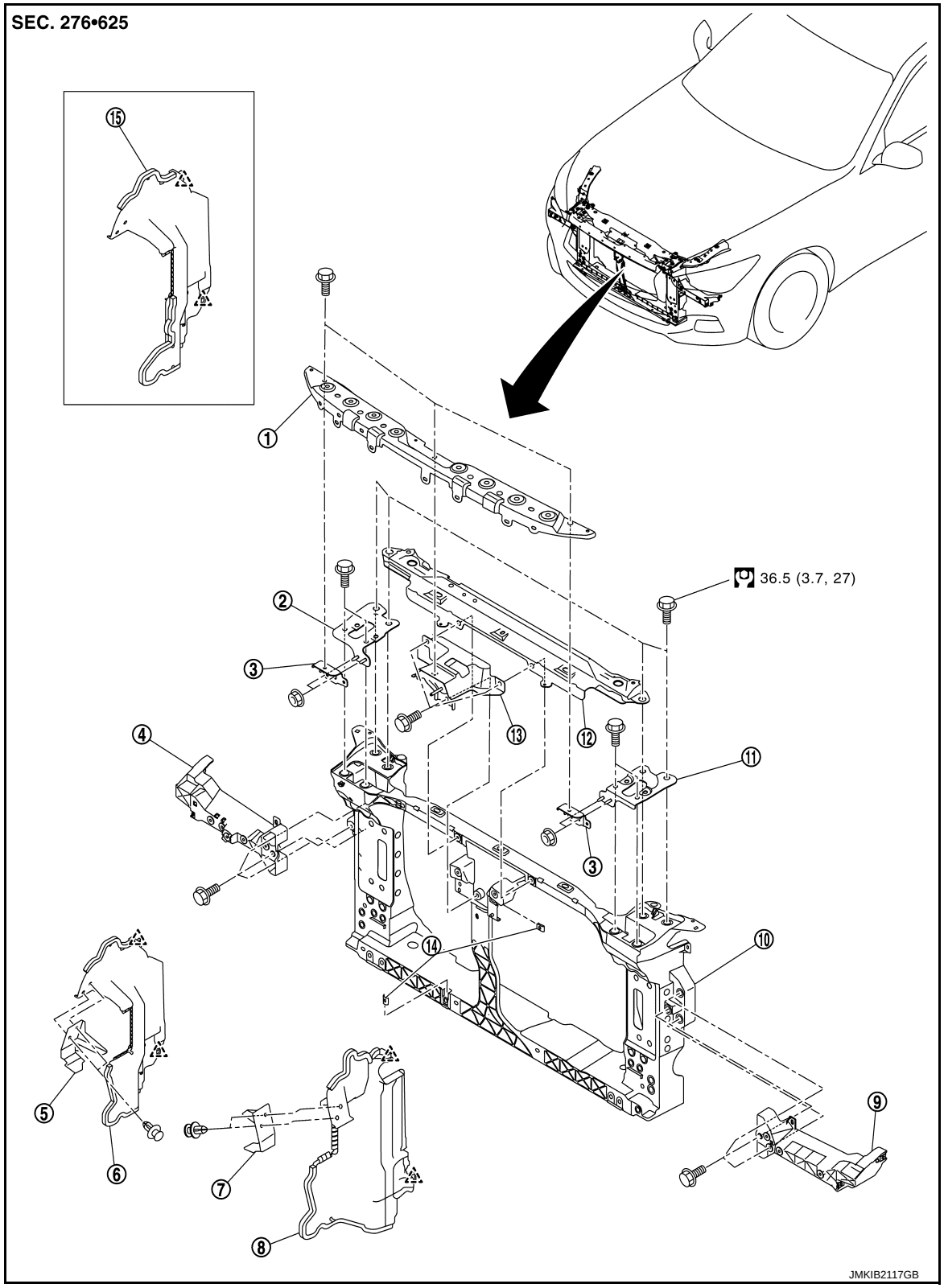
REMOVAL
Remove hood insulator fixing clips, and then remove hood insulator.

INSTALLATION
Install in the reverse order of removal.

RADIATOR CORE SUPPORT

Exploded View

INFOID:0000000011283333



① Front bumper upper retainer	② Hood lock bracket RH	③ Front bumper side retainer
④ Fender bracket RH	⑤ Condenser air guide RH	⑥ Condenser side seal RH

⑦ Condenser air guide LH
⑧ Condenser side seal LH
⑨ Fender bracket LH
⑩ Radiator core support assembly
⑪ Hood lock bracket LH
⑫ Radiator core upper support
⑬ Hood lock support stay
⑭ J-nut
⑮ Condenser air guide RH (ICC models)

: Pawl

: N·m (kg-m, ft-lb)

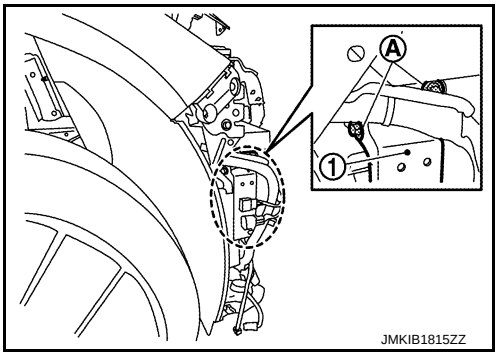
Removal and Installation

INFOID:0000000011283334

REMOVAL

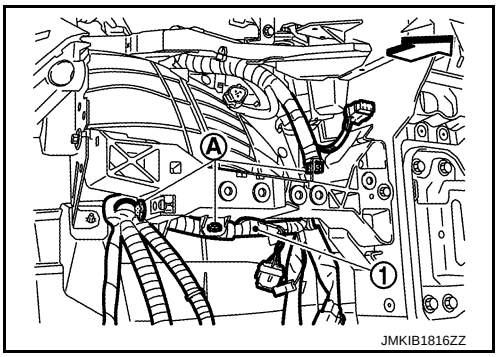
1. Use a refrigerant collecting equipment to discharge the refrigerant. Refer to HA-21, "Recycle Refrigerant".
2. Remove front under cover. Refer to EXT-35, "FRONT UNDER COVER : Removal and Installation".
3. Drain engine coolant from radiator. Refer to CO-8, "Draining".
4. Remove front bumper fascia assembly, front bumper energy absorber and front bumper reinforcement. Refer to EXT-15, "Removal and Installation".
5. Remove front combination lamp LH and RH. Refer to EXL-169, "Removal and Installation".
6. Remove fender bracket RH.

a. Remove Intelligent Key warning buzzer. Refer to DLK-252, "Removal and Installation".
b. Remove horn. Refer to HRN-6, "EXCEPT FOR MEXICO : Removal and Installation" (Except for Mexico).
c. Remove mounting bolts Ⓐ of harness bracket ①.



d. Remove steering angle sub control module (with direct adaptive steering system). Refer to STC-420, "Removal and Installation".
e. Remove harness fixing clips Ⓐ, and then move harness ① to a location where it dose not inhibit work.

⇦ : Vehicle front



f. Remove fender bracket mounting bolts, and then remove fender bracket RH.

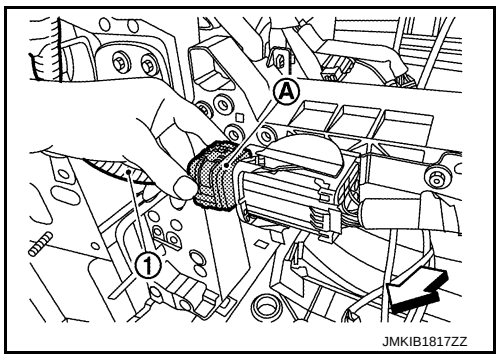
7. Remove fender bracket LH.

a. Remove washer tank. Refer to WW-61, "WASHER TANK : Removal and Installation".
b. Remove steering angle main control module (with direct adaptive steering system). Refer to STC-419, "Removal and Installation".

c. Disconnect harness connector Ⓐ of engine room front harness ①.

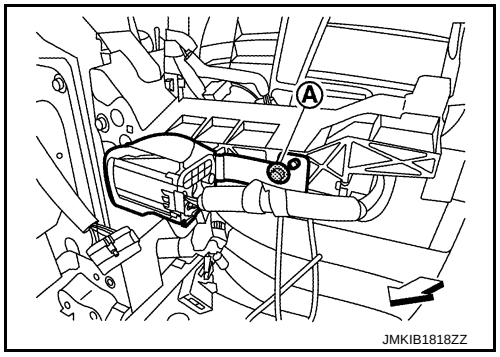
CAUTION:
Before sufficing turn ignition switch OFF, disconnect battery negative terminal and then wait for at least 3 minutes.

⇦ : Vehicle front

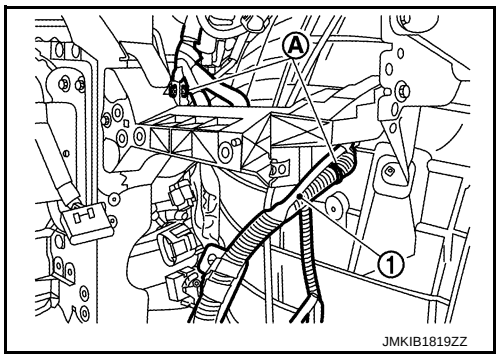


d. Remove mounting bolt Ⓐ of harness bracket.

⇦ : Vehicle front



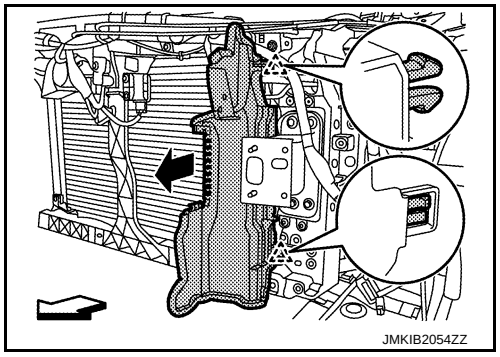
e. Remove harness fixing clips Ⓐ, and then move harness ① to a location where it does not inhibit work.



f. Remove fender bracket mounting bolts, and then remove fender bracket LH.

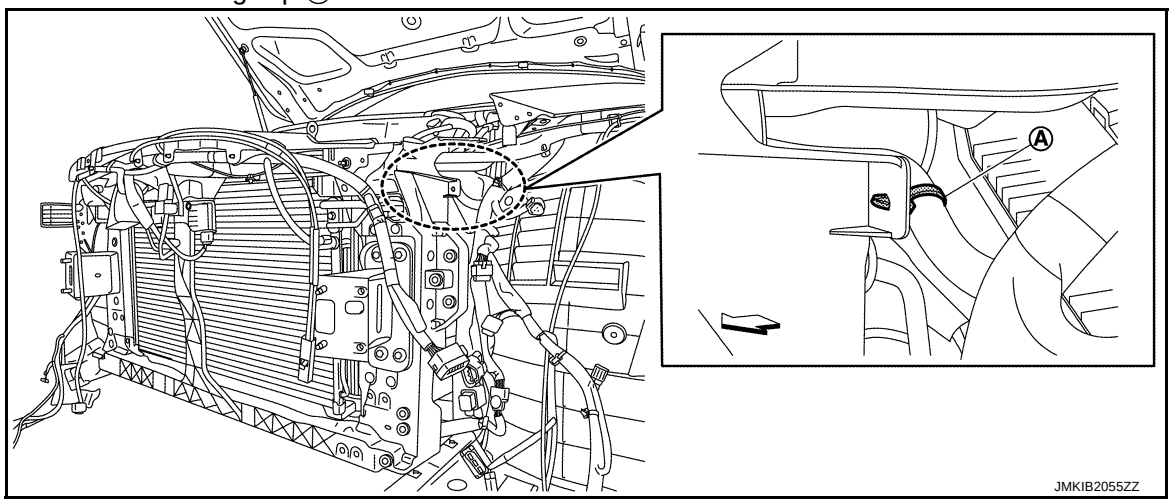
8. Remove air cleaner body (bank 1 and bank 2). Refer to EM-30, "Removal and Installation".
9. Remove reservoir tank of radiator. Refer to CO-15, "Exploded View".
10. Disconnect cooling fan control module harness connector, and then remove harness from cooling fan assembly. Refer to CO-20, "Removal and Installation".
11. Remove radiator hoses (lower and upper) from radiator. Refer to CO-16, "Removal and Installation".
12. Remove A/T fluid cooler hoses (A and B) from radiator. Refer to TM-237, "Removal and Installation".
13. Disengage condenser side seal fixing pawls, and then remove condenser side seal LH and RH.

△ : Pawl
⇦ : Vehicle front



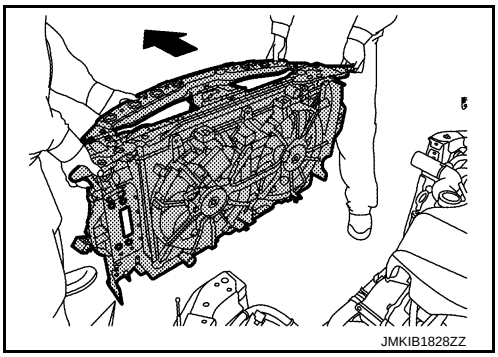
14. Disconnect hood lock control cable (rear) from hood lock control cable (front). Refer to DLK-219, "HOOD LOCK CONTROL CABLE : Removal and Installation".
15. Disconnect high-pressure flexible hose and high pressure pipe from condenser pipe assembly. Refer to HA-35, "HIGH-PRESSURE PIPE : Removal and Installation".

16. Remove harness fixing clip Ⓐ.



⇦ : Vehicle front

17. Remove front bumper stay LH and RH. Refer to EXT-15, "Removal and Installation".
18. Remove radiator core support mounting bolts, and then remove radiator core support.



CAUTION:
- **Operate with 2 workers, because of its heavy weight.**
- **Never to damage harness and harness connector.**
- **Never to damage A/T fluid cooler hoses.**

NOTE:
Write a short note to describe the harness layout.

19. Remove the following parts after removing radiator core support.

a. Remove condenser assembly, cooling fan assembly, and radiator.

i. Disconnect refrigerant pressure sensor harness connector.

ii. Remove condenser pipe assembly. Refer to HA-39, "CONDENSER PIPE ASSEMBLY : Removal and Installation".

iii. Remove hood lock control cable (front) fixing clips from radiator core upper support. Refer to DLK-219, "HOOD LOCK CONTROL CABLE : Removal and Installation".

iv. Remove radiator core upper support mounting bolts, and then remove radiator core upper support.

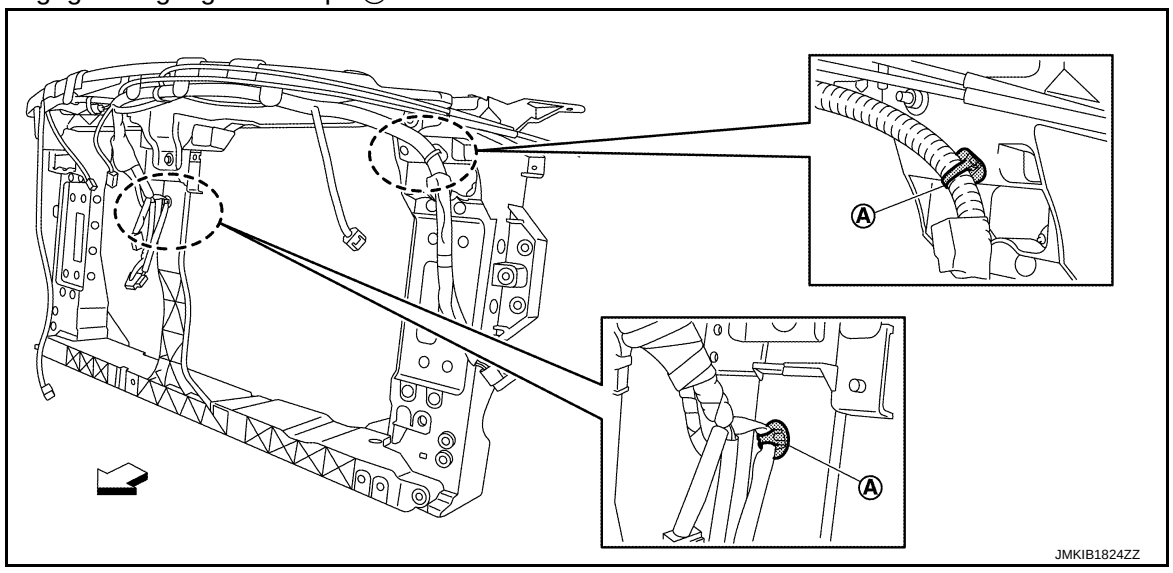
v. Remove condenser assembly, cooling fan assembly together with radiator.

b. Remove the following parts.
- Ambient sensor: Refer to HAC-115, "Removal and Installation".
- Exhaust gas/outside odor sensor: Refer to HAC-119, "Removal and Installation".
- Horn: Refer to HRN-6, "EXCEPT FOR MEXICO : Removal and Installation" (Except for Mexico) or HRN-8, "FOR MEXICO : Removal and Installation" (For Mexico).
- Crash zone sensor: Refer to SR-30, "Removal and Installation".

c. Remove front bumper upper retainer.

i. Disconnect hood lock switch harness connector.

ii. Disengage fixing highness clips Ⓐ.



⇦ : Vehicle front

iii. Remove hood lock control cable (front) fixing clips. Refer to DLK-215, "Exploded View".

iv. Remove hood lock control cable (front) from cable clip. Refer to DLK-215, "Exploded View".

v. Remove front bumper upper retainer mounting bolts, and then front bumper upper retainer together with harness.

vi. Remove front bumper side retainer mounting nut, and then remove front bumper side retainer.

d. Remove hood lock support stay mounting bolt, and then hood lock support stay.

e. Remove hood lock bracket mounting bolts, and then remove hood lock (LH and RH) and hood lock control cable (front) together with hood lock bracket.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

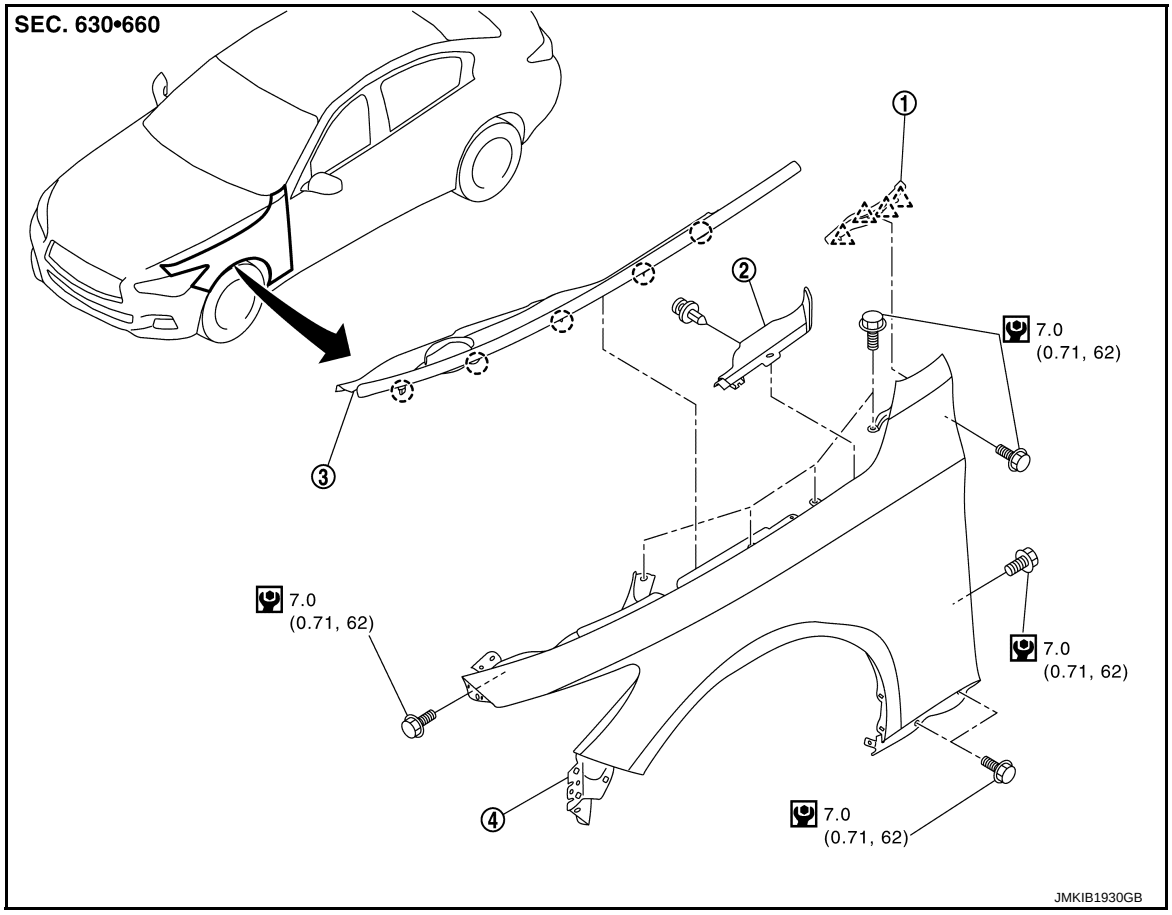
CAUTION:

- **Replenish the following parts.**
- **Refrigerant: Refer to HA-21, "Charge Refrigerant".**
- **Engine coolant: Refer to CO-9, "Refilling".**
- **A/T fluid: Refer to TM-202, "Changing".**

FRONT FENDER

Exploded View

INFOID:0000000011283335



① Front fender cover
② Front fender drip cover
③ Hood side seal assembly
④ Front fender assembly
: Clip
: Pawl
: N·m (kg-m, in-lb)

FRONT FENDER

FRONT FENDER : Removal and Installation

INFOID:0000000011283336

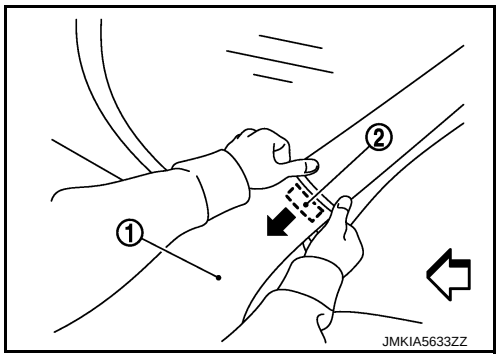
CAUTION:
Use a shop cloth to protect the body from being damaged during removal and installation.

REMOVAL

1. Remove front fender protector front and front fender protector rear. Refer to EXT-30, "FENDER PROTECTOR : Removal and Installation".
2. Remove sill cover. Refer to EXT-55, "Removal and Installation".
3. Remove front fender drip cover and hood side seal assembly. Refer to DLK-188, "HOOD SEAL : Removal and Installation".
4. Remove front bumper fascia assembly and bumper side bracket. Refer to EXT-15, "Removal and Installation".
5. Remove front combination lamp. Refer to EXL-169, "Removal and Installation".

6. Remove front fender cover. Refer to DLK-187, "FENDER COVER : Removal and Installation".
7. Remove mounting bolts of front fender assembly.
8. Remove front fender stiffener ② from the vehicle body while carefully pulling upper portion of front fender ① toward vehicle outside.

⇦ : Vehicle front



9. Remove front fender assembly.

CAUTION:
A viscous urethane foam is installed on the back surface of front fender. When removing the front fender, be careful to not deform the front fender while performing the procedure and removing the viscous urethane foam a little at a time.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:
- **After installing, perform fitting adjustment of hood assembly and front door assembly.**
- **Hood assembly: Refer to DLK-176, "HOOD ASSEMBLY : Adjustment".**
- **Front door assembly: Refer to DLK-193, "DOOR ASSEMBLY : Adjustment".**
- **After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.**

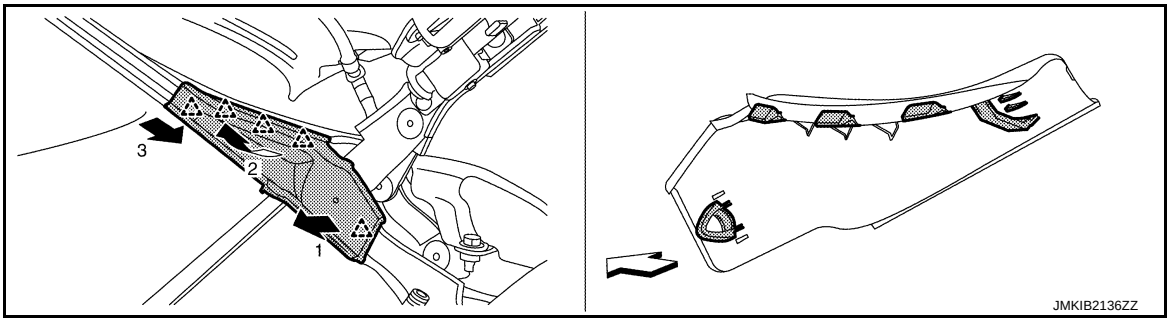
FENDER COVER

FENDER COVER : Removal and Installation

INFOID:0000000011283337

REMOVAL

1. Fully open hood assembly.
2. Disengage fixing pawls according to the numerical order 1 → 3 indicated by arrows as shown in the figure, and then remove front fender cover.



△ : Pawl

⇦ : Vehicle front

CAUTION:
When performing the procedure after removing fender cover, protect the lower of windshield glass with urethane etc.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:
Install so that there is no clearance between windshield glass and cowl top cover.

HOOD SEAL

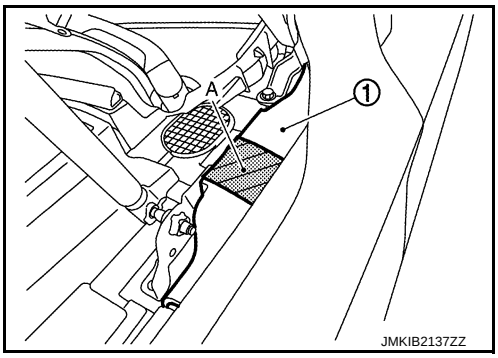
HOOD SEAL : Removal and Installation

INFOID:0000000011283338

REMOVAL

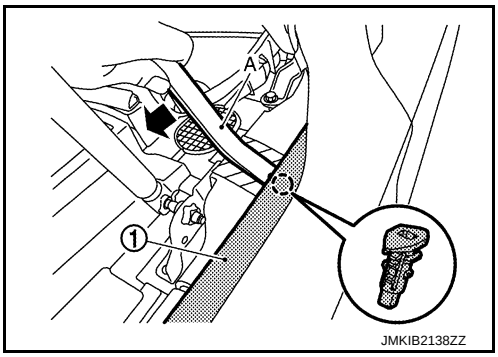
1. Remove front fender drip cover.

a. Apply protective tape (A) to front fender drip cover ① to protect it from damage.

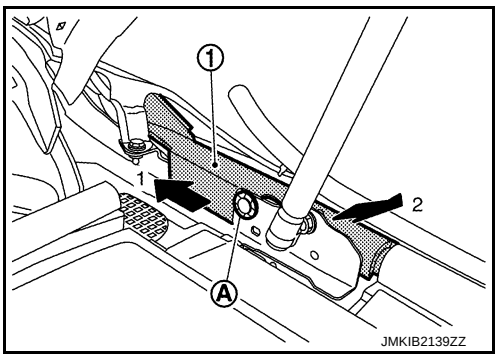


b. Disengage fixing clips on the reverse side of hood side seal assembly ① using a remover tool (A).

: Clip



c. Remove fixing clip Ⓐ, and then remove front fender drip cover ① according to the numerical order 1 → 2 indicated by arrows as shown in the figure.

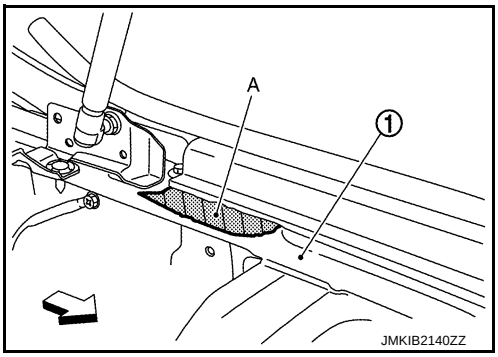


2. Remove hoodledge cover. Refer to EXT-27, "Removal and Installation".
3. Remove hood side seal assembly.

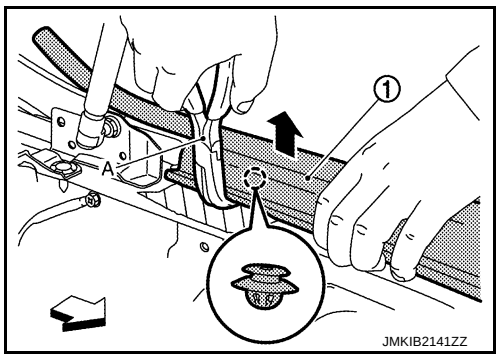
a. Disengage rear fixing clip of hood side seal assembly.

i. Apply protective tape (A) to vehicle body side ① to protect it from damage.

⇦ : Vehicle front



ii. Disengage fixing clips on the reverse side of hood side seal assembly ① using a remover tool (A).

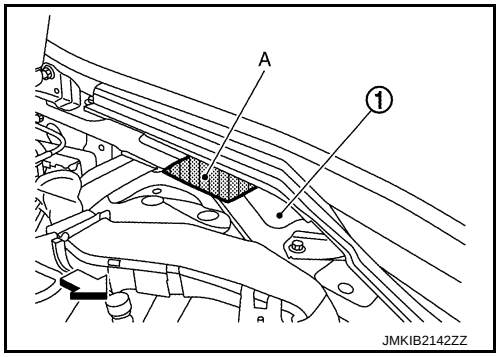


: Clip

: Vehicle front

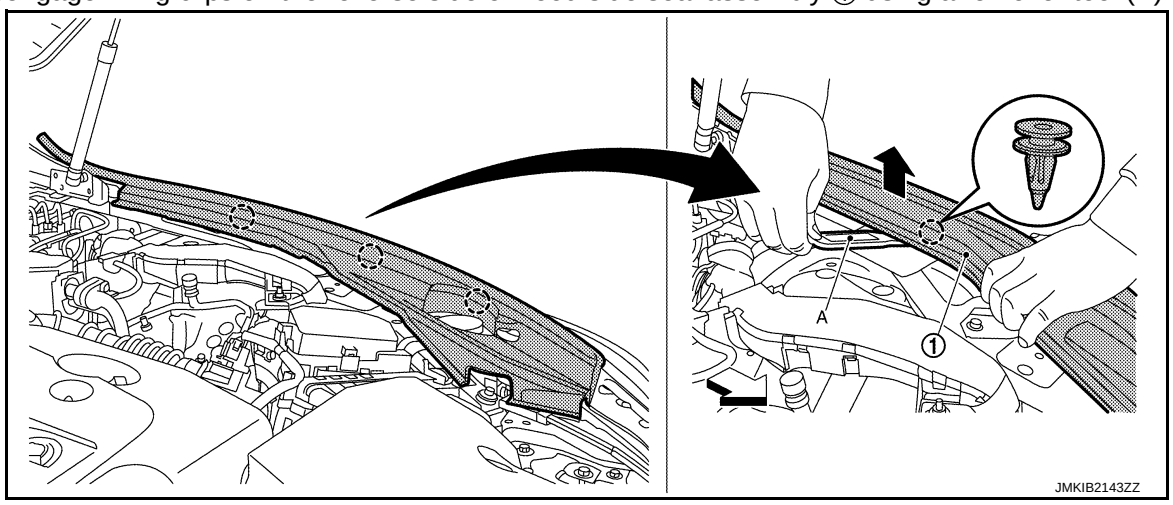
b. Remove the fixing clips located at the center of hood side seal assembly.

i. Apply protective tape (A) to vehicle body side ① to protect it from damage.



: Vehicle front

ii. Disengage fixing clips on the reverse side of hood side seal assembly ① using a remover tool (A).

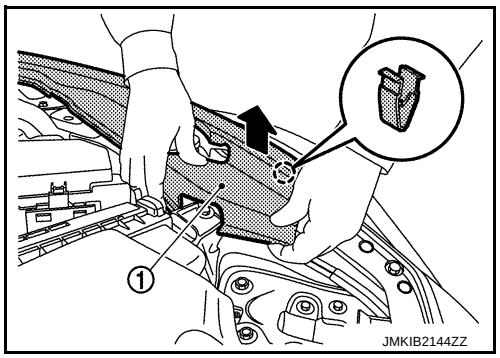


: Clip

: Vehicle front

c. Disengage front fixing clip of hood side seal assembly, and then remove hood side seal assembly.

i. Pull up hood side seal assembly ①, and then disengage fixing clip.



: Clip

ii. Remove hood side seal assembly.

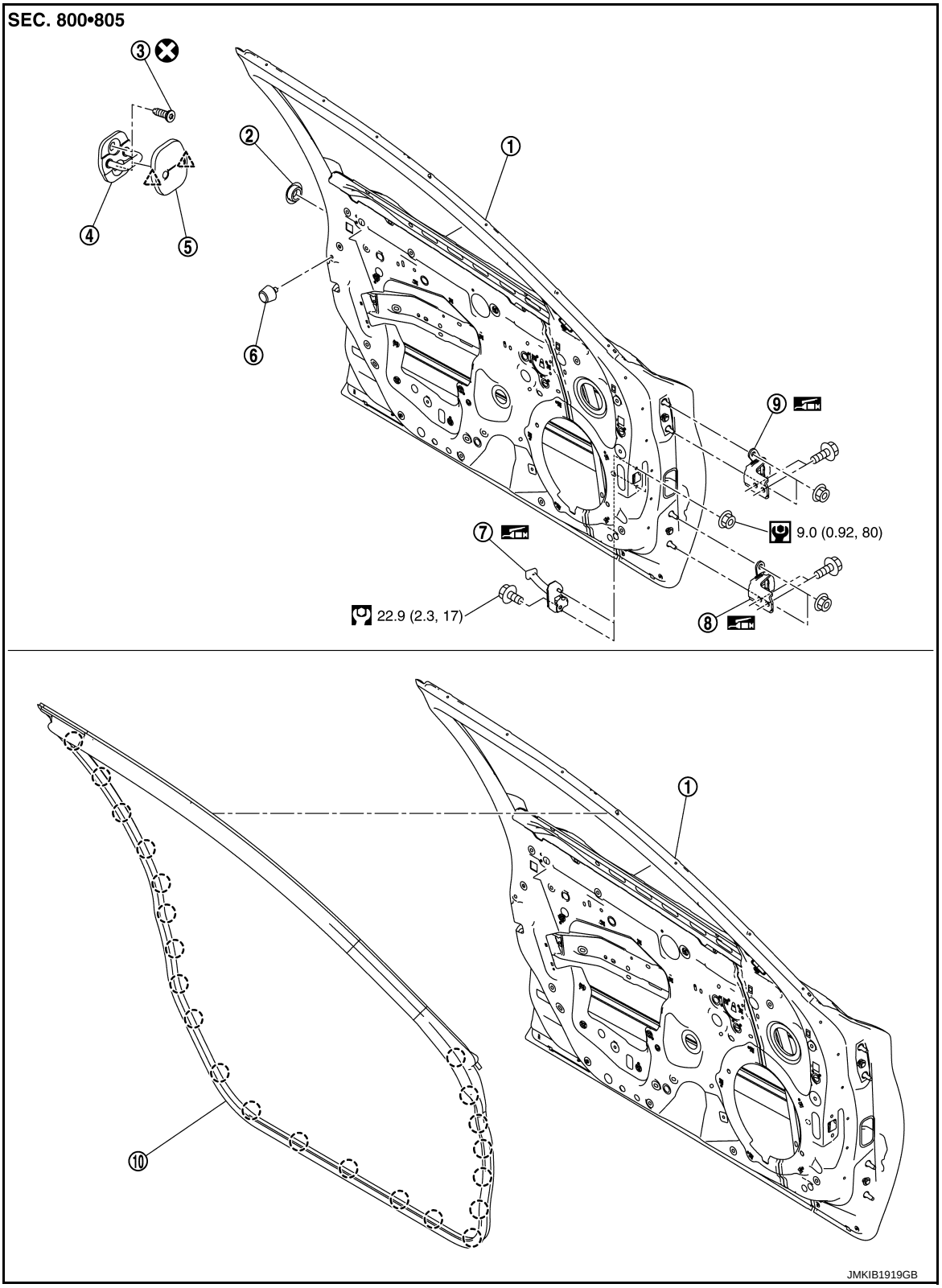
INSTALLATION

Install in the reverse order of removal.

FRONT DOOR

Exploded View

INFOID:0000000011283339



① Front door panel	② Grommet	③ TORX bolt
④ Door striker	⑤ Door striker cover	⑥ Bumper rubber

⑦ Door check link ⑧ Door hinge (lower) ⑨ Door hinge (upper)
⑩ Front door weather-strip
: Clip
: Pawl
: Always replace after every disassembly.
: N·m (kg-m, in-lb)
: N·m (kg-m, ft-lb)
: Body grease

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

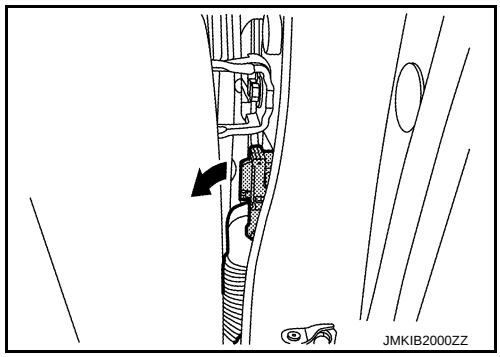
INFOID:0000000011283340

WARNING:
- **Before servicing, push ignition switch OFF, disconnect battery negative terminal and wait for 3 minutes or more.**
- **Never use air tools or electric tools for servicing.**

CAUTION:
- **Perform work with 2 workers, because of its heavy weight.**
- **When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.**

REMOVAL

1. Disconnect front door harness connector.



2. Remove door check link mounting bolt on vehicle body side.
3. Remove door hinge mounting nuts of door side, and then remove front door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:
- **Apply anticorrosive agent onto the mounting surface.**
- **After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.**
- **After installation, check that door opens and closes normally. Refer to DLK-192, "DOOR ASSEMBLY : Inspection".**
- **If malfunction is detected by the air bag warning lamp, after repair or replacement of the malfunctioning parts, reset the memory using self-diagnosis or CONSULT. Refer to SRC-16, "On Board Diagnosis Function" or SRC-21, "CONSULT Function".**
- **After the work is completed, check that no system malfunction is detected by air bag warning lamp.**

NOTE:
Adjustment of front door for installation is not necessary if front door assembly is removed by removing door hinge mounting nuts.

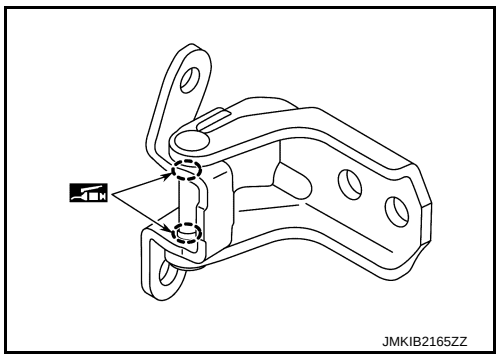
DOOR ASSEMBLY : Inspection

INFOID:0000000011283341

1. Open and close the door. Check that door hinge and check link rotation portion moves smoothly.

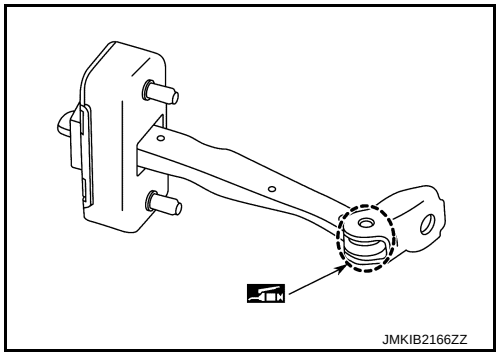
2. Check door hinge rotating part for poor lubrication. If necessary, apply body grease.

: Body grease


JMKIB2165ZZ

3. Check door check link rotating part for poor lubrication. If necessary, apply body grease.

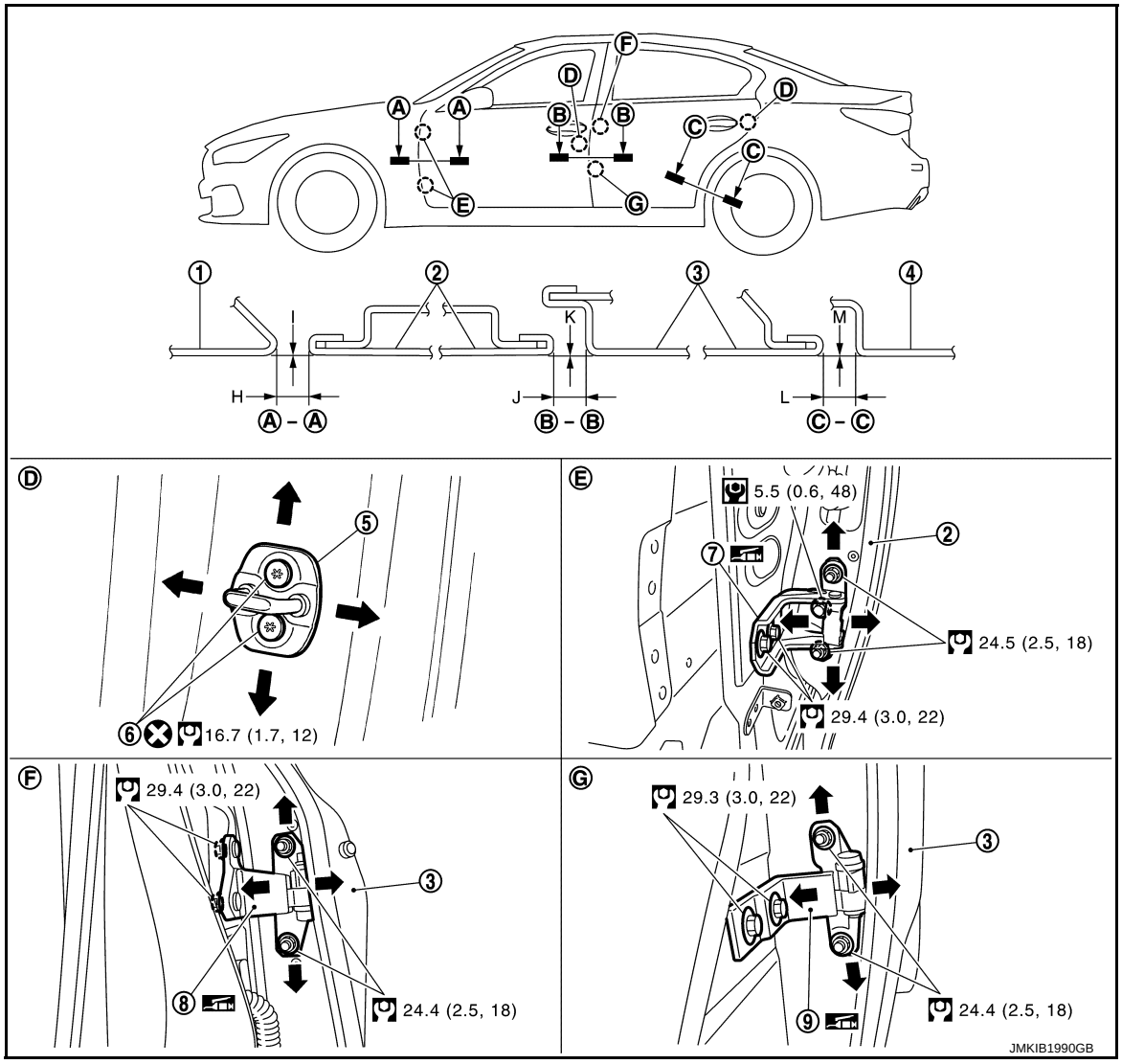
: Body grease


JMKIB2166ZZ

DOOR ASSEMBLY : Adjustment

INFOID:0000000011283342

FITTING ADJUSTMENT



① Front fender
② Front door
③ Rear door
④ Body side outer
⑤ Door striker
⑥ TORX bolt
⑦ Front door hinge
⑧ Rear door hinge (upper)
⑨ Rear door hinge (lower)

: Always replace after every disassembly
: N·m (kg-m, ft-in)
: N·m (kg-m, ft-lb)
: Body grease

Fitting Adjustment Standard
Check the clearance and surface height between front door and each part by visually and touching.
If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

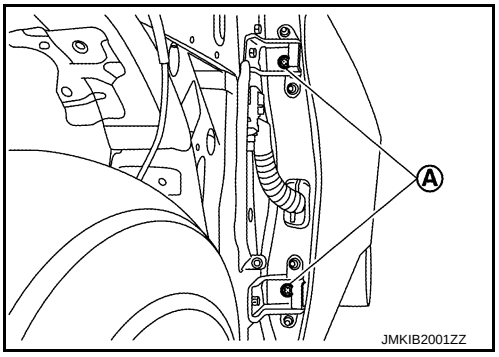
Unit: mm [in]

Portion				Standard
Front fender – Front door	Ⓐ – Ⓐ	H	Clearance	2.5 – 3.5 [0.098 – 0.138]
		I	Surface height	(–1.0) – (+0.5) [(–0.039) – (+0.020)]

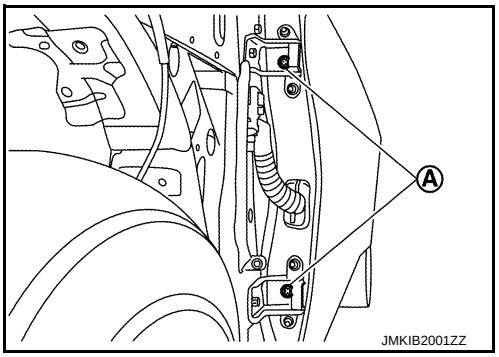
Portion				Standard
Front door – Rear door	Ⓑ – Ⓑ	J	Clearance	2.5 – 3.5 [0.098 – 0.138]
		K	Surface height	(–0.5) – (+1.0) [(–0.020) – (+0.039)]

Fitting Adjustment Procedure

1. Remove front fender assembly. Refer to DLK-186, "FRONT FENDER : Removal and Installation".
2. Loosen door hinge mounting nuts on door side.
3. Loosen bolts Ⓐ.



4. Adjust the surface height of front door according to the fitting standard dimension.
5. Tighten bolts Ⓐ.



6. Temporarily tighten door hinge mounting nuts on door side.
7. Loosen door hinge mounting bolts on body side.
8. Raise front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
9. After adjustment tighten bolts and nuts to the specified torque.
   CAUTION:
   Apply touch-up paint to the body color if the paint around door hinge, door hinge mounting bolts, or nuts is peeled off.
10. Install front fender assembly. Refer to DLK-186, "FRONT FENDER : Removal and Installation".

CAUTION:
After adjusting, perform the camera image calibration (models with side camera). Refer to AV-370, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Work Procedure"

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

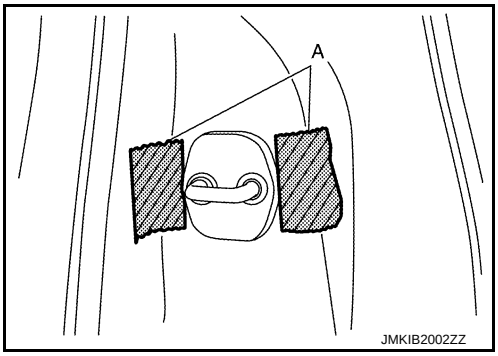
DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:0000000011283343

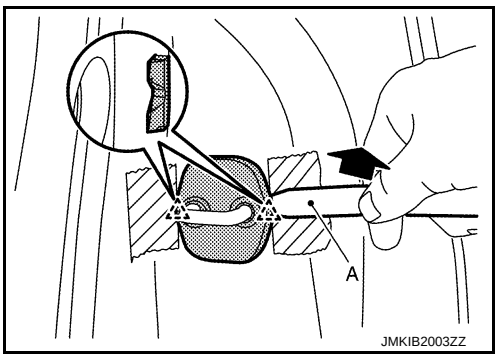
REMOVAL

1. Apply protective tapes (A) to vehicle body for preventing damage.



2. Disengage fixing pawls of door striker cover using a remover tool (A), and then remove door striker cover.

: Pawl



3. Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **Never reuse mounting TORX bolt. Always replace it with a new one when it is removed.**
- **After installation, perform the fitting adjustment. Refer to DLK-193, "DOOR ASSEMBLY : Adjustment".**
- **After installation, check that door opens and closes normally. Refer to DLK-192, "DOOR ASSEMBLY : Inspection".**

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:0000000011283344

REMOVAL

1. Remove front fender. Refer to DLK-186, "FRONT FENDER : Removal and Installation".
2. Remove front door assembly. Refer to DLK-192, "DOOR ASSEMBLY : Removal and Installation".
3. Remove front door hinge mounting bolts, and then remove front door hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **Apply anticorrosive agent onto the mounting surface.**
- **After installation, perform the fitting adjustment. Refer to DLK-193, "DOOR ASSEMBLY : Adjustment".**

DOOR CHECK LINK

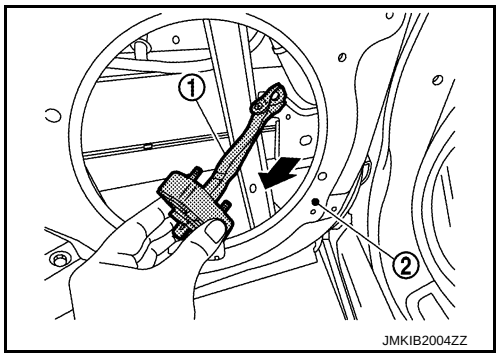
DOOR CHECK LINK : Removal and Installation

INFOID:0000000011283345

REMOVAL

1. Fully close the front door glass.
2. Remove front door finisher. Refer to INT-13, "FRONT DOOR FINISHER : Removal and Installation".
3. Remove front door speaker or woofer. Refer to the following.
   - Without BOSE audio: Refer to AV-285, "Removal and Installation".
   - With BOSE audio: Refer to AV-281, "Removal and Installation".

4. Remove door check link mounting bolt of vehicle body side.
5. Remove door check link mounting nuts of door side, and then remove door check link ① from door panel ② inside.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check that door opens and closes normally. Refer to DLK-192, "DOOR ASSEMBLY : Inspection".

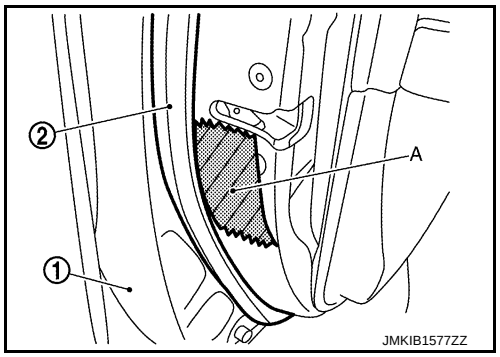
DOOR WEATHER-STRIP

DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000011283346

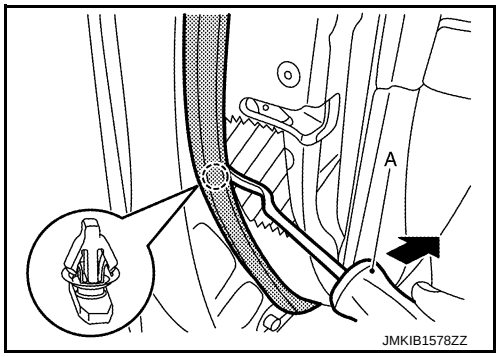
REMOVAL

1. Apply protective tape (A) to front door panel ① around front door weather-strip ② fixing clips for preventing damage.



2. Disengage fixing clips on the reverse side of front door weather-strip using a remover tool (A).

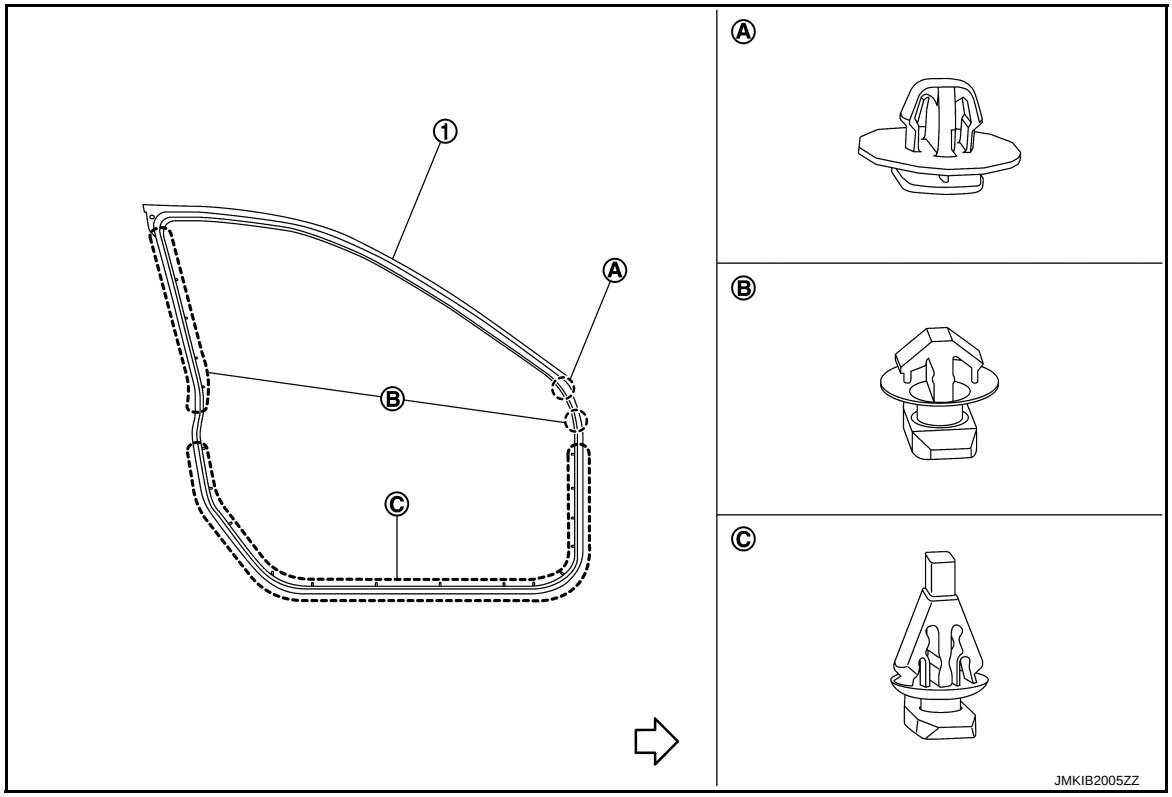
: Clip



CAUTION:

- **Never to damage front door panel.**

- **When removing, be careful not to confuse the 3 types of front door weather-strip fixing clips (Ⓐ, Ⓑ and Ⓒ).**



⇦ : Vehicle front

3. Remove front door sash cover fixing screw. Refer to EXT-40, "Exploded View".
4. Remove door check link mounting bolt of vehicle body side.
5. Remove front door weather-strip from front door panel.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

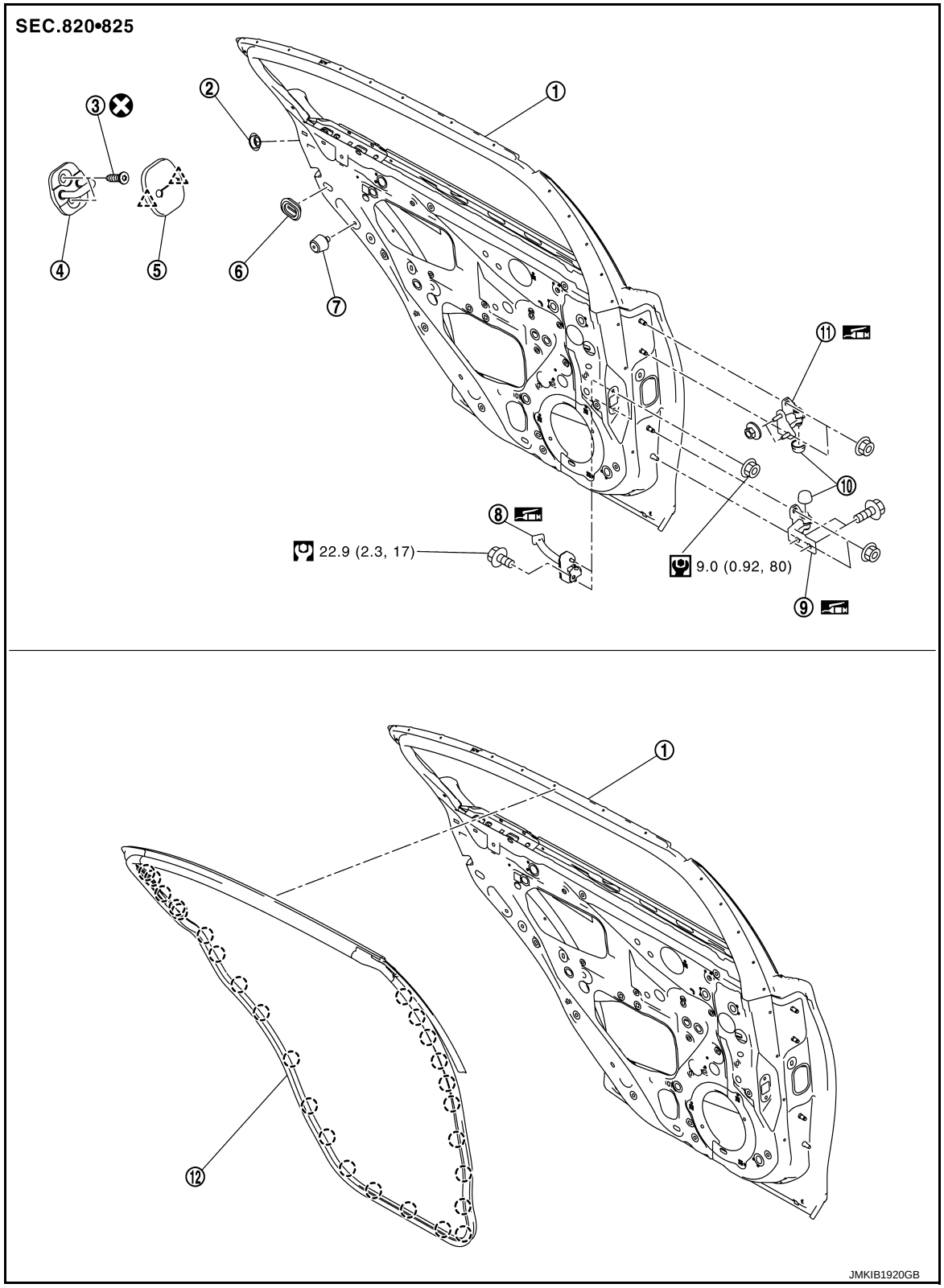
CAUTION:

Visually check clips for deformation and damage during installation. Replace with new ones if necessary.

REAR DOOR

Exploded View

INFOID:0000000011283347



① Rear door panel	② Grommet	③ TORX bolt
④ Door striker	⑤ Door striker cover	⑥ Child lock lever cover

⑦ Bumper rubber
⑧ Door check link
⑨ Door hinge (lower)
⑩ Nut cap
⑪ Door hinge (upper)
⑫ Rear door weather-strip
: Clip
: Pawl
: Always replace after every disassembly.
: N·m (kg-m, in-lb)
: N·m (kg-m, ft-lb)
: Body grease

DOOR ASSEMBLY

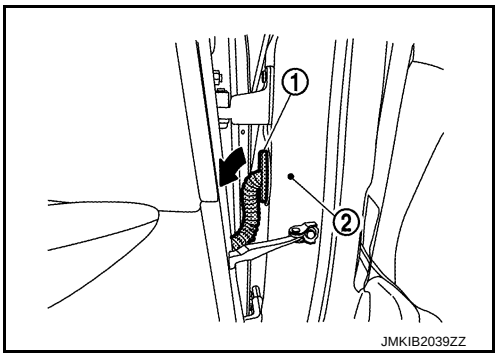
DOOR ASSEMBLY : Removal and Installation

INFOID:0000000011283348

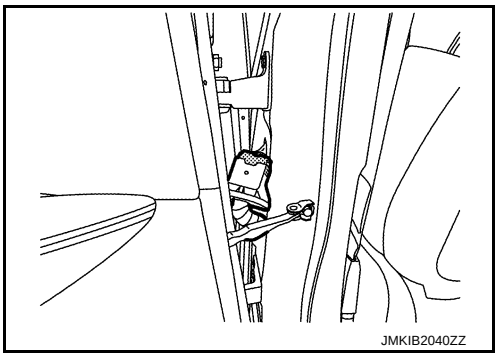
CAUTION:
- **Perform work with 2 workers, because of it's heavy weight.**
- **When removing and installing rear door assembly, support door with a jack and cloth to protect door and body.**

REMOVAL

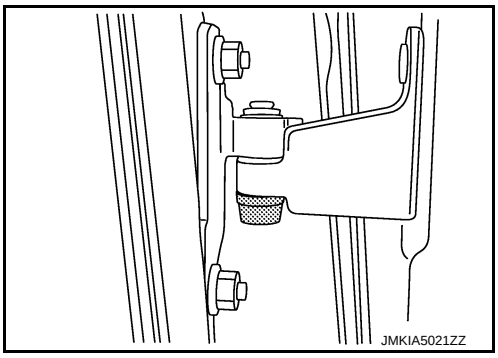
1. Remove rear door harness grommet ① from body side outer ②, and then pull out rear door harness.



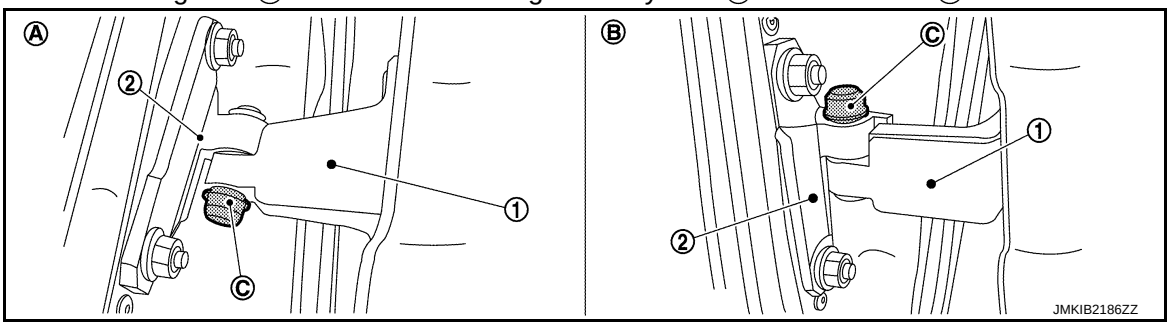
2. Disconnect rear door harness connector.



3. Remove nut caps.



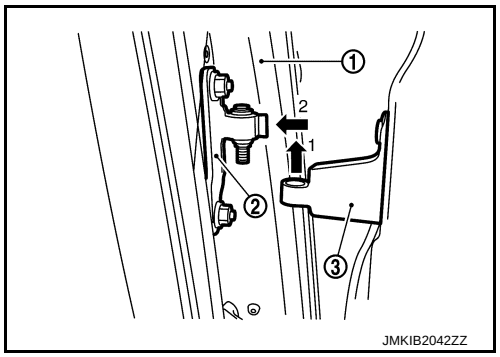
4. Remove mounting nuts Ⓒ located on door hinge of body side ① and door side ②.



Ⓐ Door hinge (upper side) Ⓑ Door hinge (lower side) Ⓒ Nut

Mounting nut tightening torque : 27.0 N·m (2.8 kg-m, 20 ft-lb)

5. Remove mounting bolts of door check link on the vehicle.
6. Lift up rear door assembly ①. Disconnect door hinge [male-side (door side)] ② from door hinge [female-side (body side)] ③ and remove toward outside of vehicle.



INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **After installation, check that door opens and closes normally. Refer to DLK-201, "DOOR ASSEMBLY : Inspection".**
- **After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.**

NOTE:

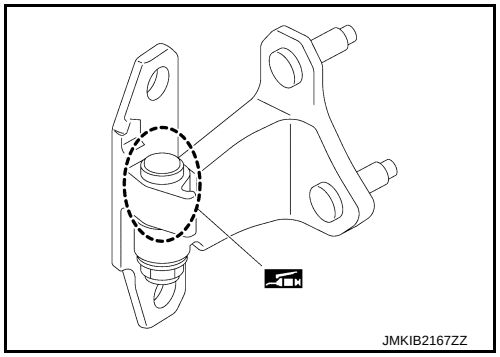
Adjustment of rear door assembly for installation is not necessary if rear door assembly is removed by disconnecting door hinge [male-side (door side)] from door hinge [female-side (body side)].

DOOR ASSEMBLY : Inspection

INFOID:0000000011283349

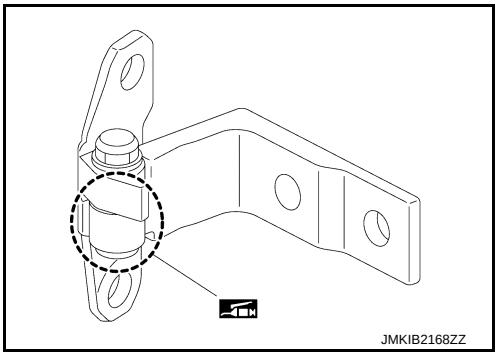
1. Open and close the door. Check that door hinge and check link rotation portion moves smoothly.
2. Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
   - Door hinge (upper)

: Body grease



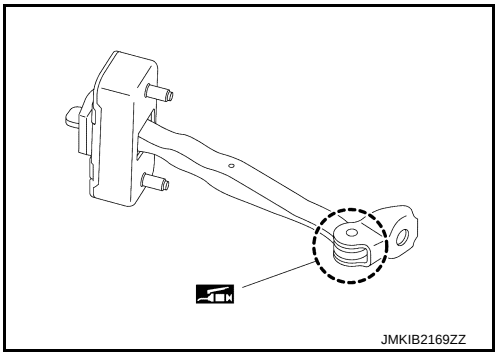
- Door hinge (lower)

: Body grease


JMKIB2168ZZ

3. Check door check link rotating part for poor lubrication. If necessary, apply body grease.

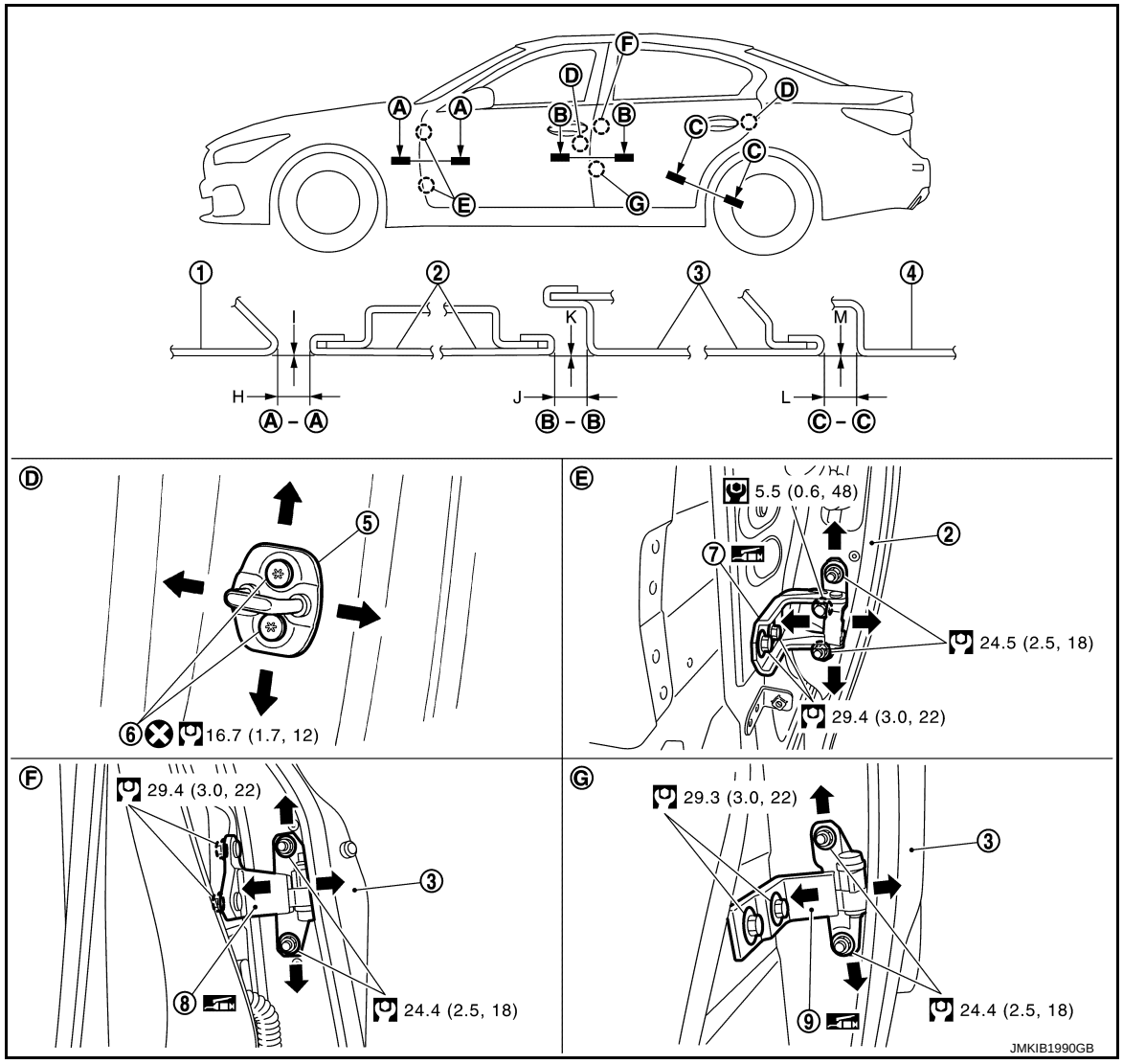
: Body grease


JMKIB2169ZZ

DOOR ASSEMBLY : Adjustment

INFOID:0000000011283350

FITTING ADJUSTMENT



① Front fender	② Front door	③ Rear door
④ Body side outer	⑤ Door striker	⑥ TORX bolt
⑦ Front door hinge	⑧ Rear door hinge (upper)	⑨ Rear door hinge (lower)

: Always replace after every disassembly

: N·m (kg-m, ft-in)

: N·m (kg-m, ft-lb)

: Grease

Fitting Adjustment Standard

Check the clearance and surface height between rear door and each part by visually and touching.

If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

Fitting Adjustment Procedure

Unit: mm [in]

Portion				Standard
Front door – Rear door	Ⓑ – Ⓑ	J	Clearance	2.5 – 3.5 [0.098 – 0.138]
		K	Surface height	(+0.5) – (–1.0) [(+0.020) – (–0.039)]
Rear door – Body side outer	Ⓒ – Ⓒ	L	Clearance	2.5 – 3.5 [0.098 – 0.138]
		M	Surface height	(–0.5) – (+1.0) [(–0.020) – (+0.039)]

CAUTION:
When performing adjustment for installation, check that door hinge [male-side (door side)] is connected to door hinge [female-side (body side)].

1. Remove center pillar lower garnish. Refer to INT-28, "CENTER PILLAR LOWER GARNISH : Removal and Installation".
2. Loosen door hinge mounting nuts on door side.
3. Adjust the surface height of rear door according to the fitting standard dimension.
4. Temporarily tighten door hinge mounting nuts on door side.
5. Loosen door hinge mounting nuts and bolts on body side.
6. Raise rear door at rear end to adjust clearance of rear door according to the fitting standard dimension.
7. After adjustment tighten bolts and nuts to the specified torque.
   CAUTION:
   Apply touch-up paint to the body color if the paint around door hinge, door hinge mounting bolts, or nuts is peeled off.
8. Install center pillar lower garnish. Refer to INT-28, "CENTER PILLAR LOWER GARNISH : Removal and Installation".

DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

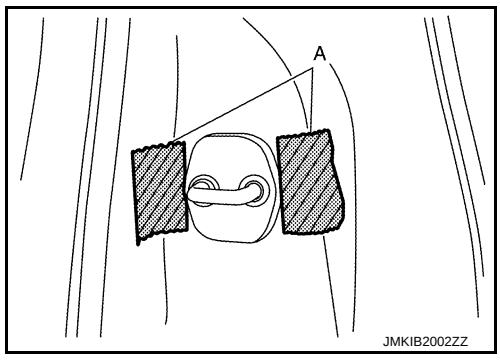
DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:0000000011283351

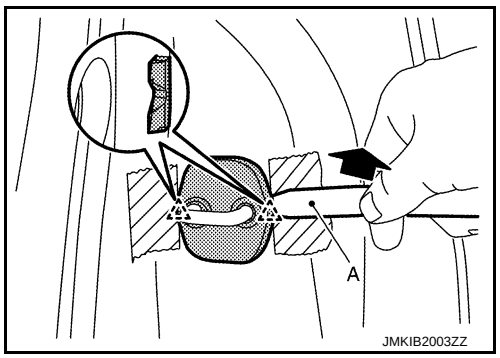
REMOVAL

1. Apply protective tapes (A) to vehicle body for preventing damage.



2. Disengage fixing pawls of door striker cover using a remover tool (A), and then remove door striker cover.

: Pawl



3. Remove TORX bolts, and then remove door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **Never reuse mounting TORX bolt. Always replace it with a new one when it is removed.**
- **After installation, perform the fitting adjustment. Refer to DLK-202, "DOOR ASSEMBLY : Adjustment".**
- **After installation, check that door opens and closes normally. Refer to DLK-201, "DOOR ASSEMBLY : Inspection".**

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:0000000011283352

REMOVAL

Door Hinge (Upper)

1. Remove rear door assembly from door hinge. Refer to DLK-200, "DOOR ASSEMBLY : Removal and Installation".
2. Remove center pillar lower garnish. Refer to INT-28, "CENTER PILLAR LOWER GARNISH : Removal and Installation".
3. Remove door hinge mounting nuts of body side, and then remove door hinge (upper).

Door Hinge (Lower)

1. Remove rear door assembly from door hinge. Refer to DLK-200, "DOOR ASSEMBLY : Removal and Installation".
2. Remove rear door hinge mounting bolts of body side, and then remove door hinge (lower).

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

Apply anticorrosive agent onto the mounting surface.

DOOR CHECK LINK

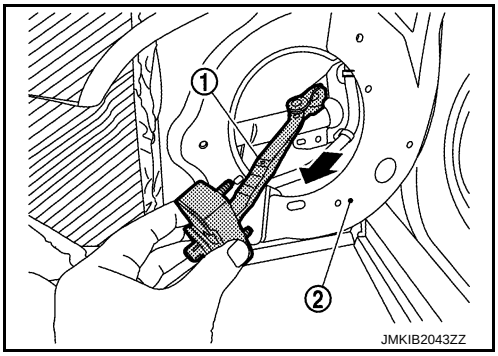
DOOR CHECK LINK : Removal and Installation

INFOID:0000000011283353

REMOVAL

1. Fully close the rear door glass.
2. Remove rear door finisher. Refer to INT-18, "REAR DOOR FINISHER : Removal and Installation".
3. Remove rear door speaker. Refer to AV-282, "Removal and Installation".
4. Remove door check link mounting bolt of vehicle body side.

5. Remove door check link mounting nuts of door side, and then remove door check link ① from door panel ② inside.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check that door opens and closes normally. Refer to DLK-192, "DOOR ASSEMBLY : Inspection".

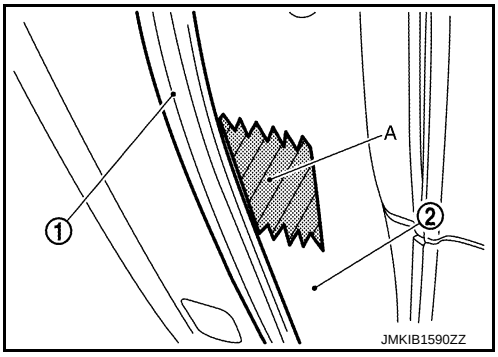
DOOR WEATHER-STRIP

DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000011283354

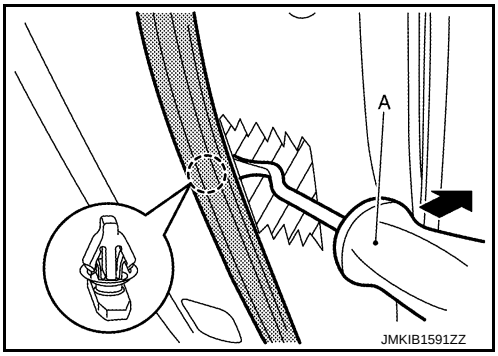
REMOVAL

1. Apply protective tape (A) to rear door panel ② around rear door weather-strip ① fixing clips for preventing damage.



2. Disengage fixing clips on the reverse side of rear door weather-strip using a remover tool (A).

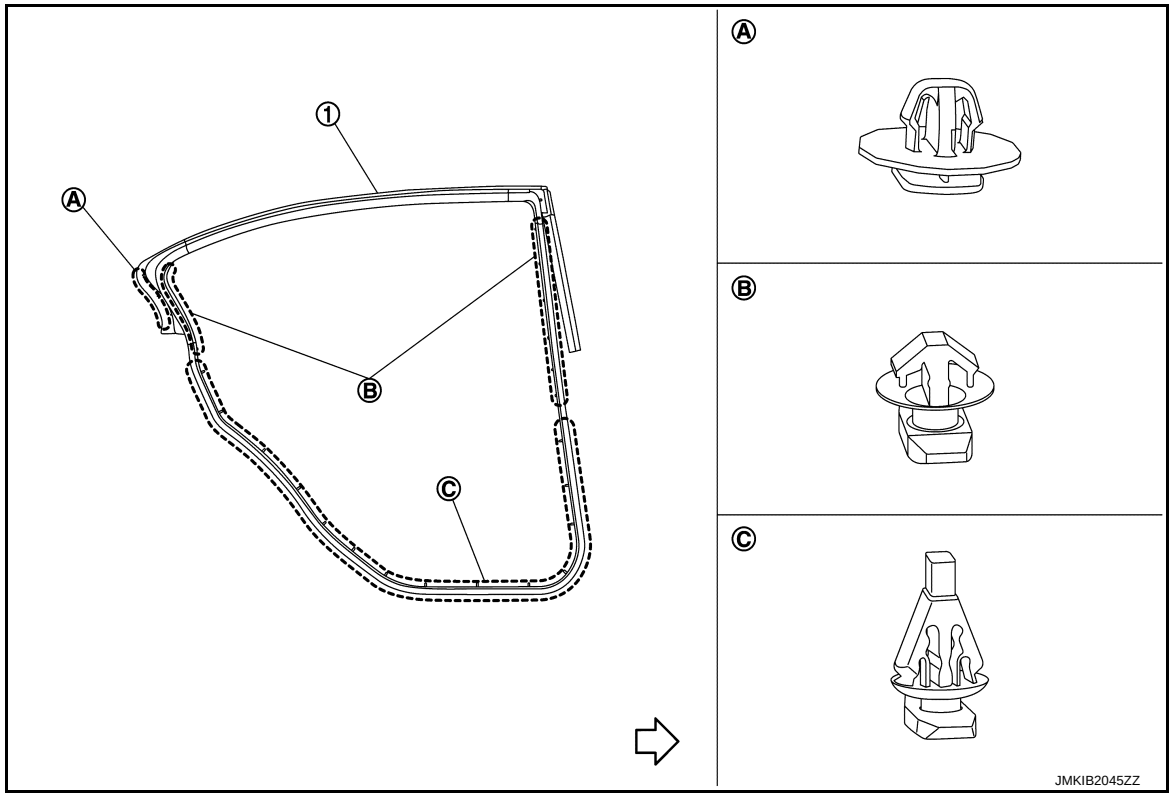
: Clip



CAUTION:

- **Never to damage rear door panel.**

- **When removing, be careful not to confuse the 3 types of rear door weather-strip ① fixing clips (Ⓐ, Ⓑ and Ⓒ).**



⇦ : Vehicle front

3. Remove rear door sash cover fixing screw. Refer to EXT-44, "Exploded View".
4. Remove door check link mounting bolt of vehicle body side.
5. Remove rear door weather-strip from rear door panel.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

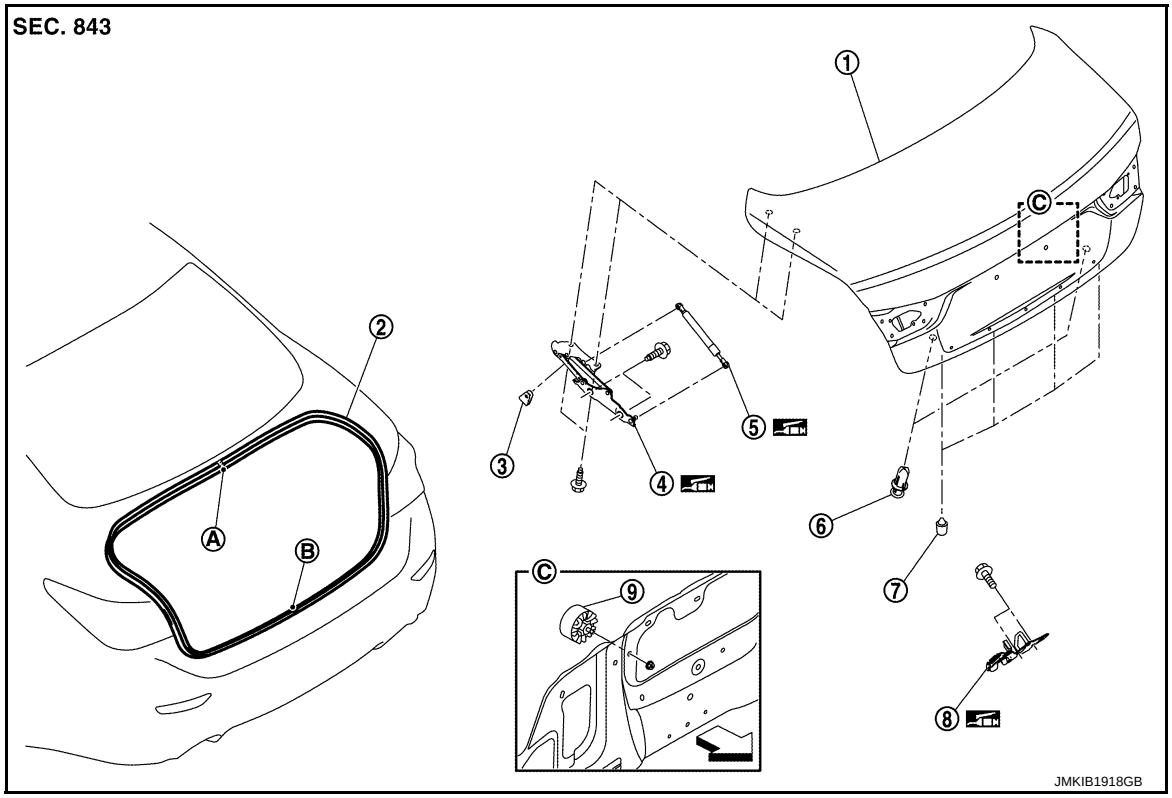
CAUTION:

Visually check clips for deformation and damage during installation. Replace with new ones if necessary.

TRUNK LID

Exploded View

INFOID:0000000011283355



① Trunk lid assembly	② Trunk lid weather-strip	③ Trunk lid stopper
④ Trunk lid hinge	⑤ Trunk lid stay	⑥ Lift spring
⑦ Bumper rubber	⑧ Trunk lid striker	⑨ Trunk lid damper
Ⓐ : Center mark		
Ⓑ : Seam		
⇦ : Vehicle front		
: Body grease		

TRUNK LID ASSEMBLY

TRUNK LID ASSEMBLY : Removal and Installation

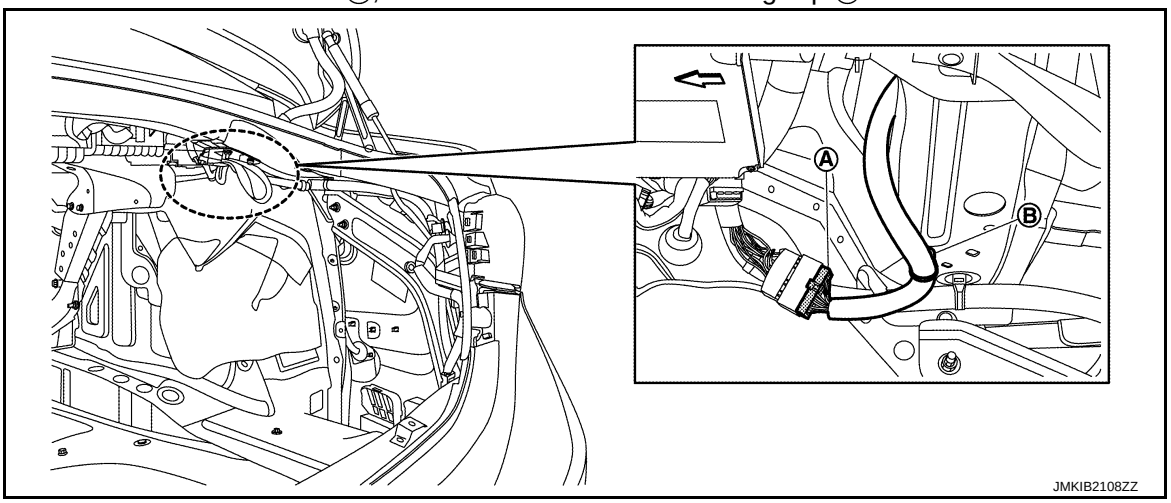
INFOID:0000000011283356

CAUTION:
Operate with 2 workers, because of its heavy weight.

REMOVAL

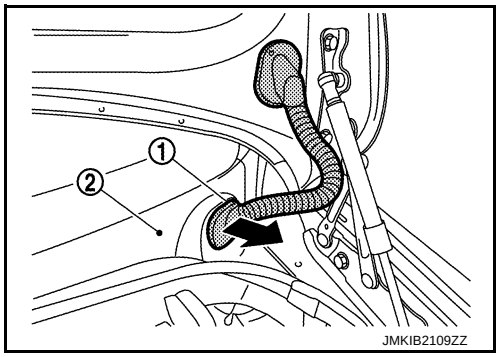
1. Remove trunk side finisher RH. Refer to INT-49, "TRUNK SIDE FINISHER : Removal and Installation"

2. Disconnect harness connector Ⓐ, and then remove harness fixing clip Ⓑ.



⇦ : Vehicle front

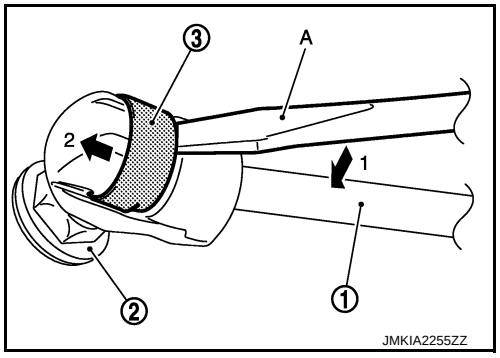
3. Remove grommet ①, and then pull harness throughout body panel ②.



4. In the order of 1 → 2 as shown in the figure, remove the metal clip ③ located on the connection between the trunk lid stay ① and the stud ball ② (trunk lid assembly side of trunk lid hinge), by using remover tool (A).

CAUTION:

Two workers are required to support the trunk lid assembly.



5. Disengage trunk lid stay from stud ball (trunk lid assembly side of trunk lid hinge).
6. Remove trunk lid assembly mounting bolts, and then remove trunk lid assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **After installation, perform trunk lid fitting adjustment. Refer to DLK-210, "TRUNK LID ASSEMBLY : Adjustment".**
- **After installation, check that trunk lid opens and closes normally. Refer to DLK-209, "TRUNK LID ASSEMBLY : Inspection".**
- **Apply touch-up paint to the body color if the paint around trunk lid hinge, trunk lid hinge mounting bolts is peeled off.**

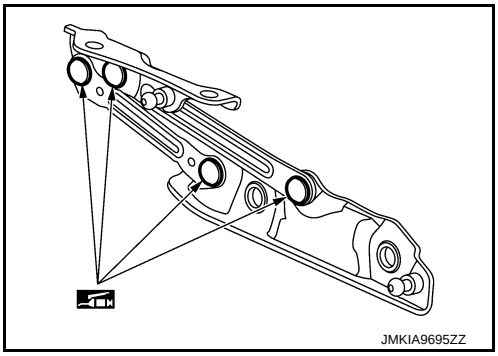
TRUNK LID ASSEMBLY : Inspection

INFOID:0000000011283357

1. Open and close the trunk lid. Check that trunk lid hinge rotation portion moves smoothly.

2. Check trunk lid hinge rotating part for poor lubrication. If necessary, apply body grease.

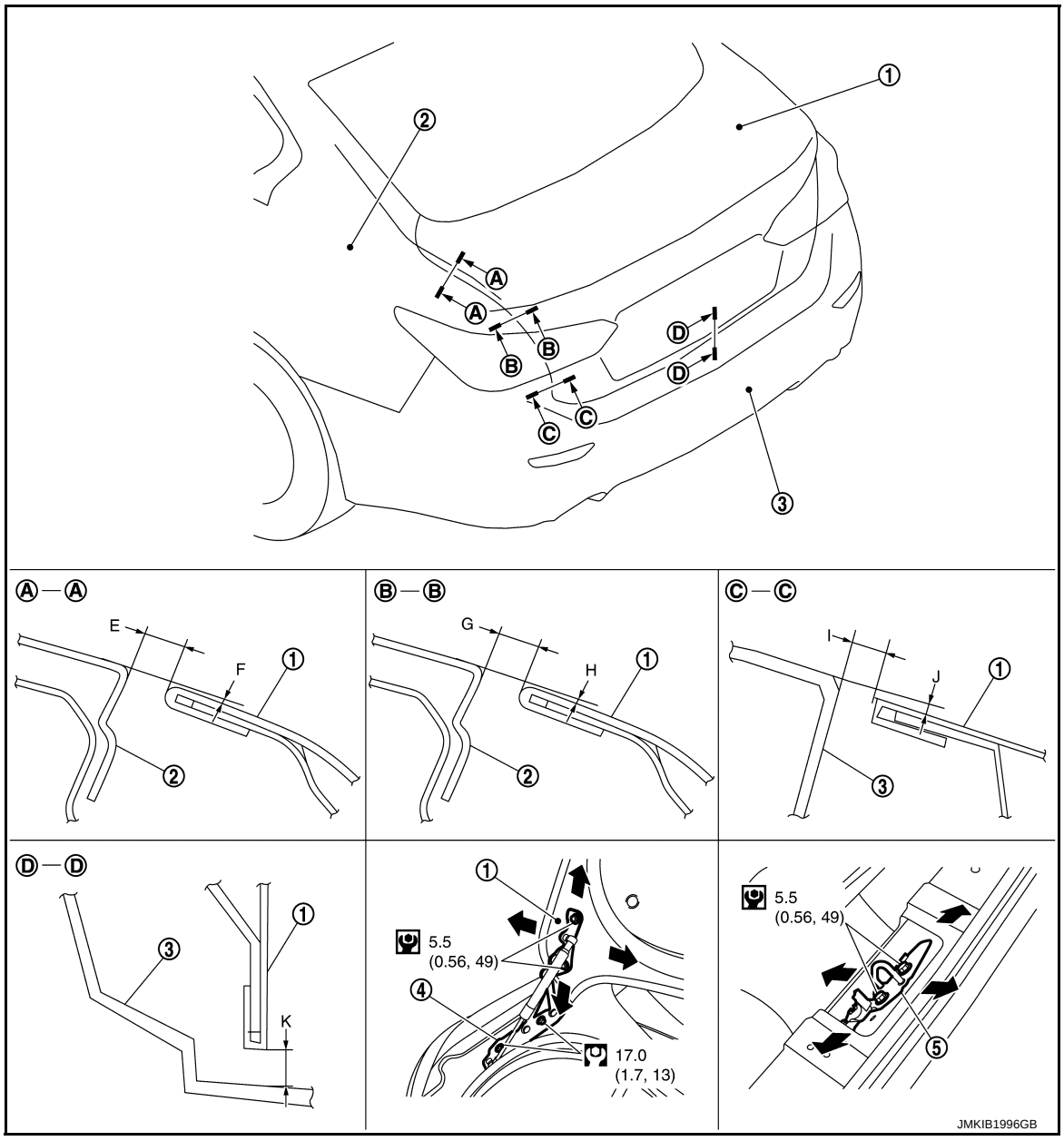
: Body grease



TRUNK LID ASSEMBLY : Adjustment

INFOID:0000000011283358

FITTING ADJUSTMENT



① Trunk lid assembly ② Body side outer ③ Rear bumper fascia
④ Trunk lid hinge ⑤ Trunk lid striker

: N·m (kg-m, in-lb)

: N·m (kg-m, in-ft)

Fitting Adjustment Standard

Check the clearance and surface height between trunk lid and each part by visually and touching.
If the clearance and surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm [in]

Portion				Standard	Difference (RH/LH, MAX)
Trunk lid – Body side outer	Ⓐ – Ⓐ	E	Clearance	2.5 – 3.5 [0.098 – 0.138]	0.75 [0.030]
		F	Surface height	(–0.5) – (+1.0) [(–0.020) – (+0.039)]	1.5 [0.059]
	Ⓑ – Ⓑ	G	Clearance	2.6 – 3.6 [0.102 – 0.142]	0.75 [0.030]
		H	Surface height	(–0.5) – (+1.0) [(–0.020) – (+0.039)]	1.5 [0.059]
Trunk lid – Rear bumper fascia	Ⓒ – Ⓒ	I	Clearance	2.0 – 6.0 [0.079 – 0.236]	2.5 [0.098]
		J	Surface height	(–3.5) – (+0.5) [(–0.138) – (+0.020)]	2.5 [0.098]
	Ⓓ – Ⓓ	K	Clearance	4.0 – 8.0 [0.157 – 0.315]	—

Fitting Adjustment Procedure

1. Loosen trunk lid hinge mounting bolts (trunk lid side).
2. Remove trunk rear plate. Refer to INT-48, "TRUNK REAR PLATE : Removal and Installation".
3. Loosen trunk lid striker mounting bolts.
4. Lift up trunk lid approximately 100 – 150 mm (3.937 – 5.906 in) height then close it lightly and check that it is engaged firmly with trunk lid closed.
5. Check the clearance and surface height.
6. Finally tighten trunk lid hinge and trunk lid striker.
   CAUTION:
   Apply touch-up paint to the body color if the paint around trunk lid hinge, trunk lid hinge mounting bolts is peeled off.
7. Install trunk rear plate. Refer to INT-48, "TRUNK REAR PLATE : Removal and Installation".

CAUTION:
After adjusting, perform the camera image calibration (models with rear camera).
- **AROUND VIEW MONITOR SYSTEM: Refer to AV-370, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Work Procedure".**
- **REAR VIEW MONITOR SYSTEM: Refer to AV-514, "Adjustment".**

TRUNK LID STRIKER ADJUSTMENT

Adjust trunk lid striker so that it becomes parallel with trunk lid lock insertion direction.

TRUNK LID STRIKER

TRUNK LID STRIKER : Removal and Installation

INFOID:0000000011283359

REMOVAL

1. Remove trunk rear plate. Refer to INT-48, "TRUNK REAR PLATE : Removal and Installation".
2. Remove trunk lid striker mounting bolts, and then remove trunk lid striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **After installation, perform trunk lid fitting adjustment. Refer to DLK-210, "TRUNK LID ASSEMBLY : Adjustment".**
- **After installation, check that trunk lid opens and closes normally. Refer to DLK-209, "TRUNK LID ASSEMBLY : Inspection".**

TRUNK LID HINGE

TRUNK LID HINGE : Removal and Installation

INFOID:0000000011283360

REMOVAL

1. Remove trunk lid assembly. Refer to DLK-208, "TRUNK LID ASSEMBLY : Removal and Installation".
2. Remove trunk lid stay. Refer to DLK-212, "TRUNK LID STAY : Removal and Installation".
3. Remove trunk lid hinge mounting bolts, and then remove trunk lid hinge.

INSTALLATION

Install in the reverse order of removal.

TRUNK LID STAY

TRUNK LID STAY : Removal and Installation

INFOID:0000000011283361

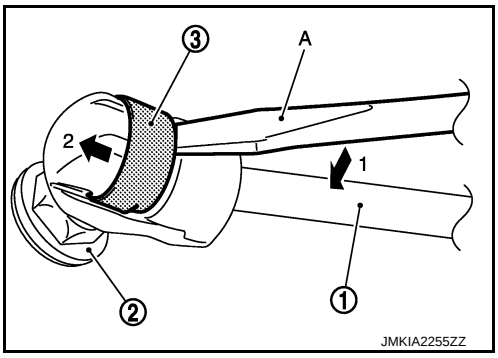
REMOVAL

1. Support trunk lid with the proper material to prevent it from falling.

   WARNING:
   Bodily injury may occur if no supporting rod is holding the trunk lid open when removing the trunk lid stay.

2. In the order of 1 → 2 as shown in the figure, remove the metal clip ③ located on the connection between the trunk lid stay ① and the stud ball ② (trunk lid assembly side of trunk lid hinge), by using remover tool (A).

   CAUTION:
   Two workers are required to support the trunk lid assembly.



3. Disengage trunk lid stay from stud ball (trunk lid assembly side of trunk lid hinge).
4. Repeat the same operation to disengage the stud ball (vehicle body side of trunk lid hinge) from trunk lid stay, then remove trunk lid stay.

INSTALLATION

Note the following item, and install in the reverse order of removal.

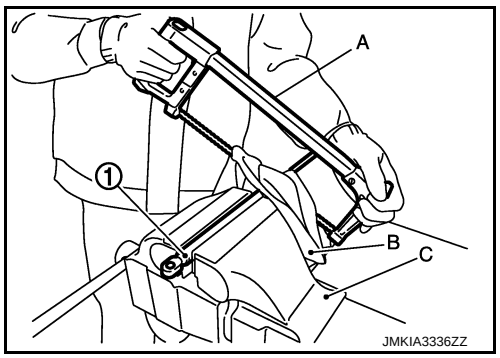
CAUTION:
After installation, check that trunk lid opens and closes normally. Refer to DLK-209, "TRUNK LID ASSEMBLY : Inspection".

TRUNK LID STAY : Disposal

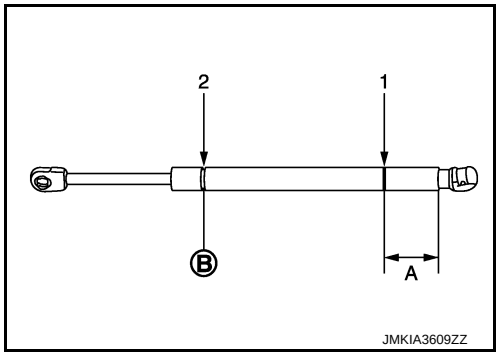
INFOID:0000000011283362

CAUTION:
When performing disposal operation, wear the protective glasses and protective gloves.

1. Fix trunk lid stay ① using a vise (C).
2. Using hacksaw (A) slowly make 2 holes in the trunk lid stay, in numerical order 1 → 2 as shown in the figure.
   CAUTION:
   When cutting a hole on hood stay, always cover a hacksaw using a shop cloth (B) to avoid scattering metal fragments or oil.



A : 20.0 mm (0.787 in)
Ⓑ : Cut at the groove.



TRUNK LID WEATHER-STRIP

TRUNK LID WEATHER-STRIP : Removal and Installation

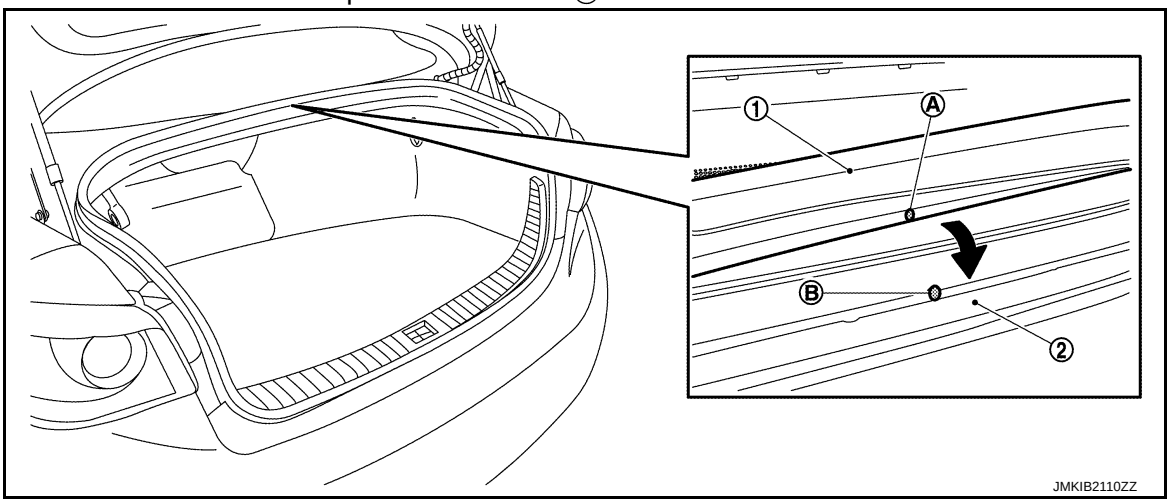
INFOID:0000000011283363

REMOVAL

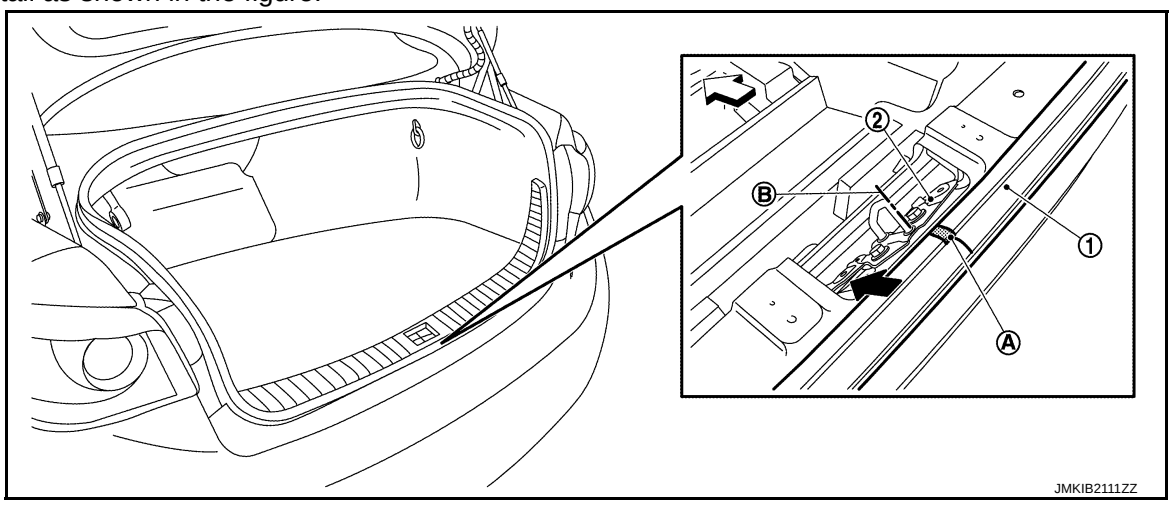
1. Remove trunk rear plate. Refer to INT-48, "TRUNK REAR PLATE : Removal and Installation".
2. Pull up and remove engagement with body from weather-strip joint.
   CAUTION:
   Never pull strongly on weather-strip.

INSTALLATION

1. Working from the upper section, align trunk lid weather-strip ① center mark Ⓐ with vehicle center mark Ⓑ and install trunk lid weather-strip onto the vehicle ②.



2. Align the connecting point Ⓐ of trunk lid weather-strip ① to the center Ⓑ of trunk lid striker ②, and then install as shown in the figure.



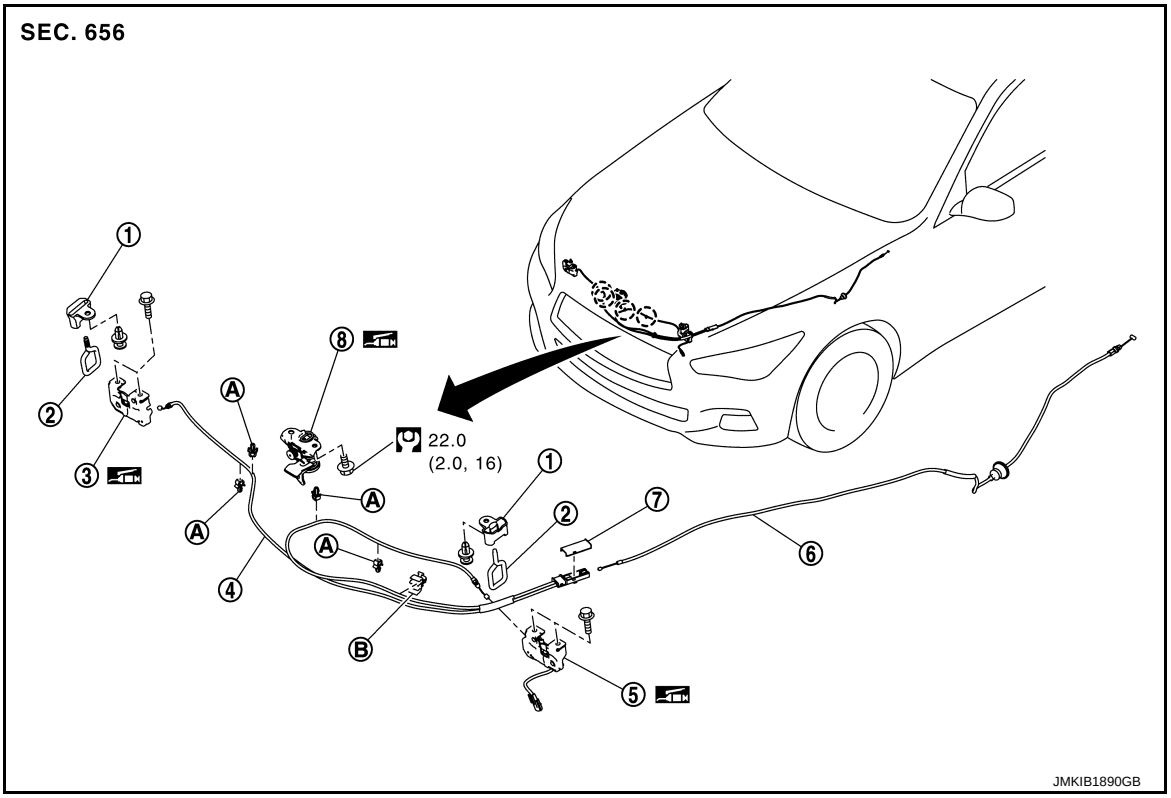
⇦ : Vehicle front

3. Pull trunk lid weather-strip gently to ensure that there is no loose section.
NOTE:
Check that trunk lid weather-strip fits tightly in each corner and trunk rear plate.
4. Install trunk rear plate. Refer to INT-48, "TRUNK REAR PLATE : Removal and Installation".

HOOD LOCK

Exploded View

INFOID:0000000011283364



① Hood lock cover	② Hood lock striker	③ Hood lock RH
④ Hood lock control cable (front)	⑤ Hood lock LH	⑥ Hood lock control cable (rear)
⑦ Hood control cable protector	⑧ Hood lock control secondary assembly	
Ⓐ Clip	Ⓑ Tube clip	

: Clip

: N·m (kg-m, ft-lb)

: Body grease

HOOD LOCK

HOOD LOCK : Removal and Installation

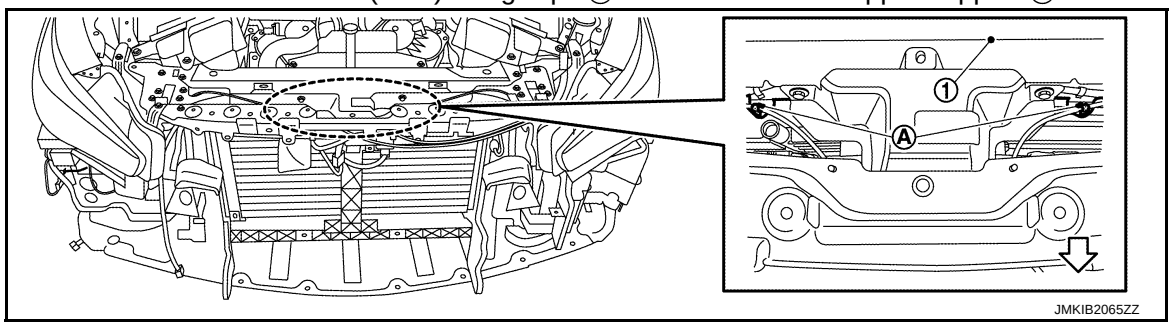
INFOID:0000000011283365

REMOVAL

Hood Lock

1. Remove front bumper fascia assembly. Refer to EXT-15, "Removal and Installation".
2. Remove radiator core upper support.

a. Remove hood lock control cable (front) fixing clips Ⓐ from radiator core upper support ①.



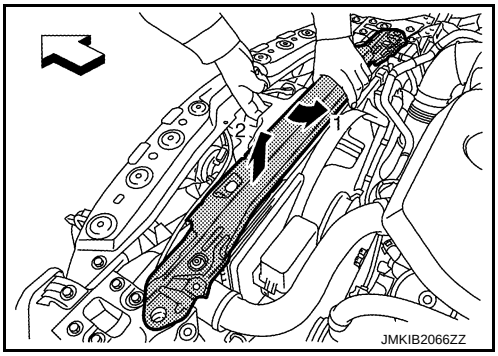
⇦ : Vehicle front

b. Remove upper mounting bolts of hood lock support stay. Refer to DLK-181, "Exploded View".

c. Remove radiator core upper support mounting bolts. Refer to DLK-181, "Exploded View".

d. Remove radiator core upper support according to the numerical order 1 → 2 indicated by arrows as shown in the figure.

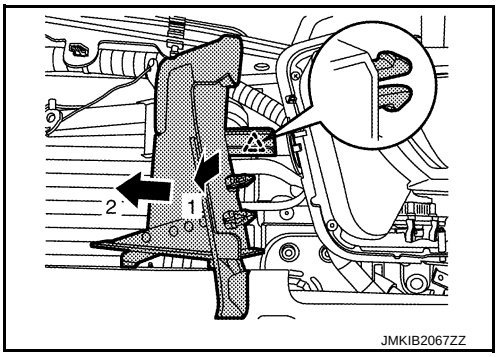
⇦ : Vehicle front



3. Remove front bumper side retainer.

a. In the order of 1 → 2 as shown in the figure, disengage upper pawl of condenser side seal, and then move to vehicle center.

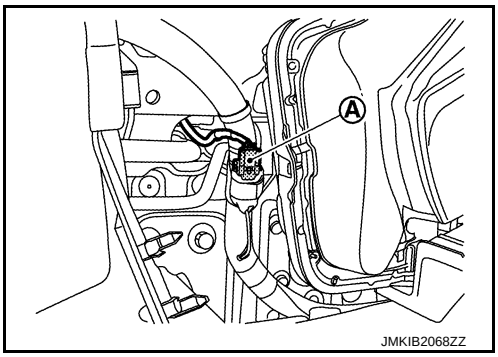
△ : Pawl



b. Remove front bumper side retainer mounting bolt and nuts, and then remove front bumper side retainer. Refer to DLK-181, "Exploded View".

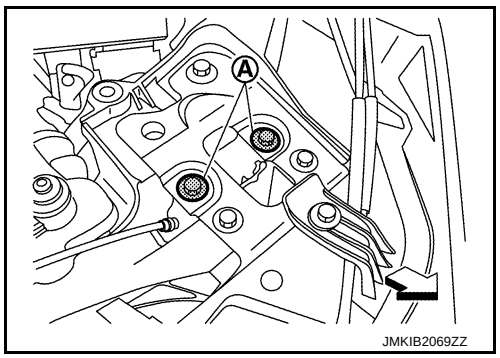
4. Remove hood lock bracket together with hood lock.

a. Disconnect hood lock switch harness connector Ⓐ. (Hood lock LH only)



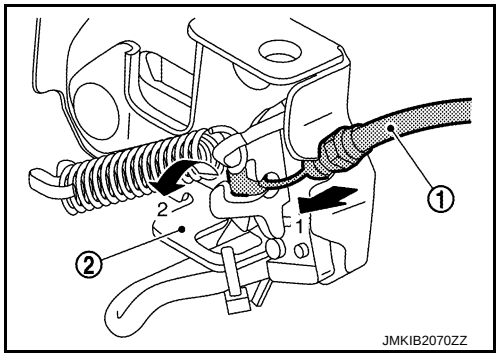
b. Loosen hood lock mounting bolts Ⓐ.

⇦ : Vehicle front



c. Remove hood lock bracket mounting bolts. Refer to DLK-181, "Exploded View".

5. Disconnect hood lock control cable (front) ① from hood lock ② according to the numerical order 1 → 2 indicated by arrows as shown in the figure.



6. Remove hood lock mounting bolts, and then remove hood lock.

Hood Lock Control Secondary assembly

Remove hood lock control secondary assembly mounting bolts, and then remove hood lock control secondary assembly.

Hood Lock Striker

1. Remove hood lock cover fixing clip, and then remove hood lock cover.
2. Remove hood lock striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **Check that hood lock control cables is properly engaged with hood lock.**
- **After installation, perform hood lock control inspection. Refer to DLK-217, "HOOD LOCK : Inspection".**

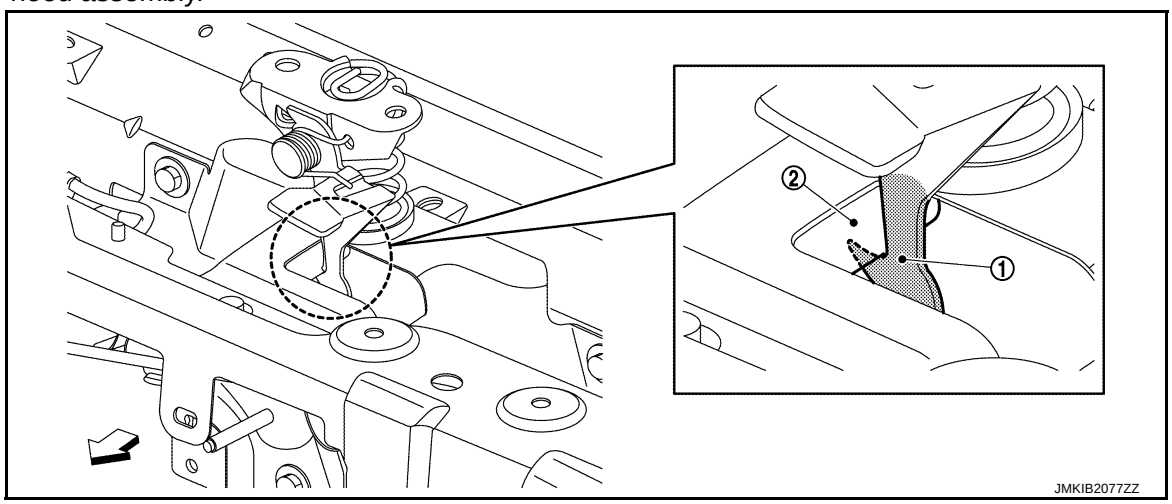
HOOD LOCK : Inspection

INFOID:0000000011283366

NOTE:

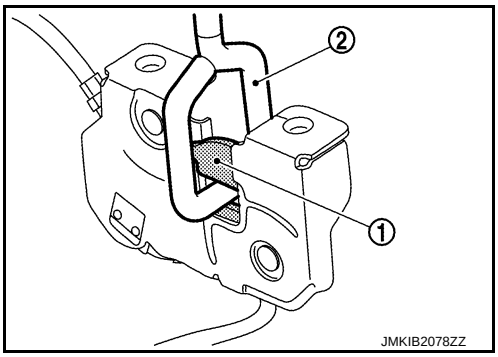
If the hood lock control cable is bent or deformed, replace it.

1. Check that secondary latch ① is securely engaged with hood lock support stay ② from the dead load of the hood assembly.

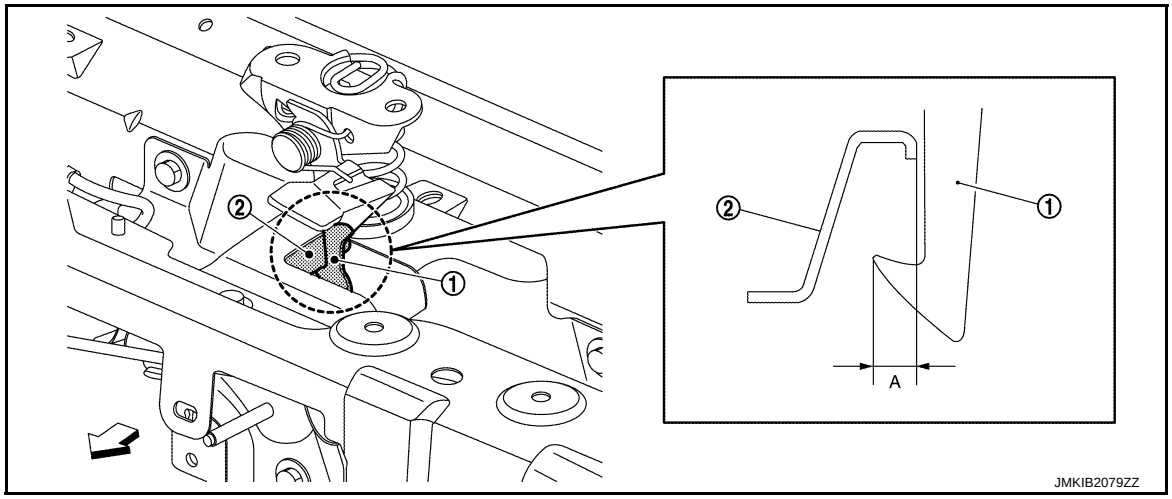


⇦ : Vehicle front

2. Check that primary latch ① is securely engaged with hood lock striker ② when hood assembly is closed (when close it in 1.5 m/sec at the latest).



3. While operating the hood opener carefully, check that the front end of the hood is lifted by approximately 20 mm (0.787 in) (A). Also, check that the hood opener returns to the original position.
4. Check that secondary latch ① is properly engaged with hood lock support stay ② [6.8 mm (0.268 in) MIN] (A).

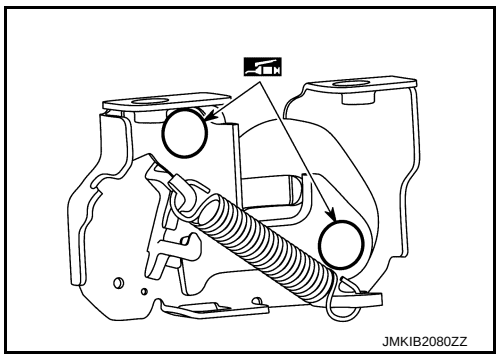


⇦ : Vehicle front

5. Check that the tension of hood opener lever is less than 49.0 N (5.0 kg, 11.02 lb).
6. Check hood lock and hood lock control secondary assembly lubrication condition. If necessary, apply body grease.

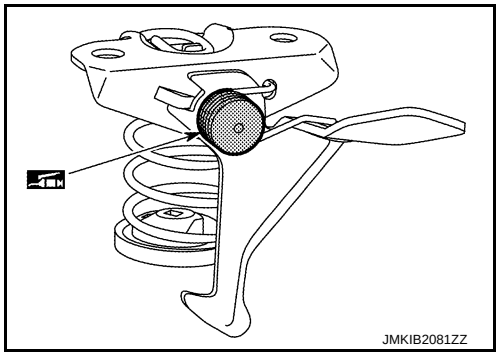
- Hood lock

: Body grease



- Hood lock control secondary assembly

: Body grease



HOOD LOCK CONTROL CABLE

HOOD LOCK CONTROL CABLE : Removal and Installation

INFOID:0000000011283367

REMOVAL

Hood Lock Control Cable (Front)

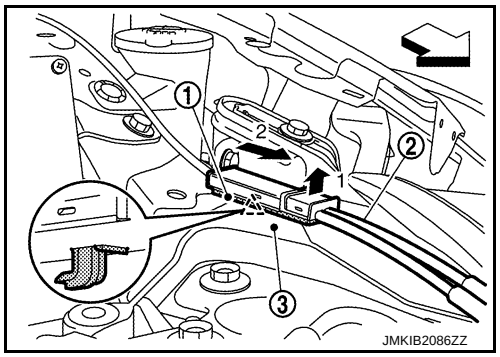
1. Disconnect hood lock control cable (front) from hood lock LH and RH. Refer to DLK-215, "HOOD LOCK : Removal and Installation".
2. Separate hood lock control cable (front) and hood lock control cable (rear).

a. Remove hood side seal assembly (Driver side). Refer to DLK-188, "HOOD SEAL : Removal and Installation".

b. Disengage case ① fixing pawl of hood lock control cable (front) ② from radiator core support assembly ③ according to the numerical order 1 → 2 indicated by arrows as shown in the figure.

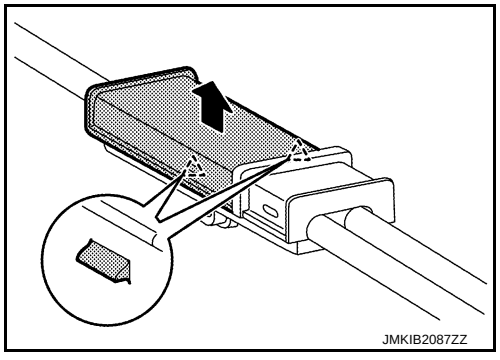
: Pawl

: Vehicle front

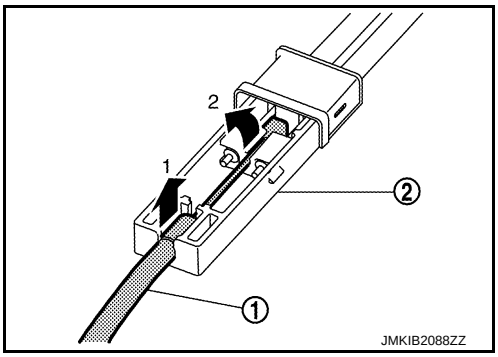


c. Disengage case pawl of hood lock control cable (front) and remove hood control cable protector.

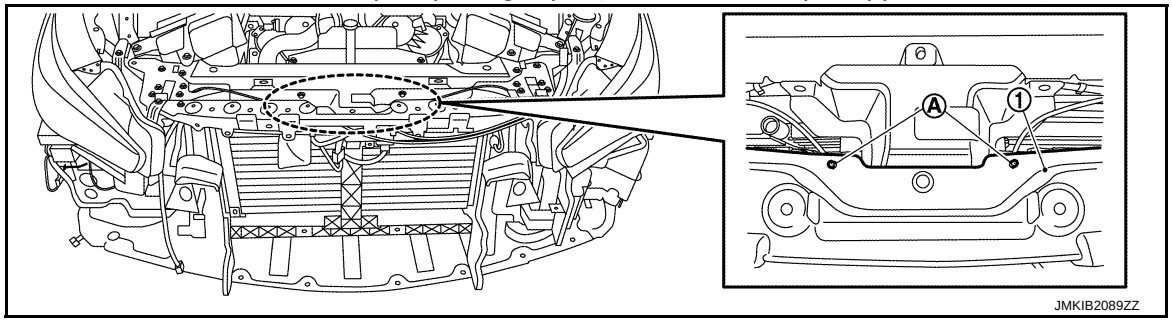
: Pawl



d. Disconnect hood lock control cable (rear) ① from hood lock control cable (front) ② according to the numerical order 1 → 2 indicated by arrows as shown in the figure.



3. Remove hood lock control cable (front) fixing clips Ⓐ from front bumper upper retainer ①.



4. Remove hood lock control cable (front) from tube clip of front bumper upper retainer.
5. Remove hood lock control cable (front) from the vehicle body.

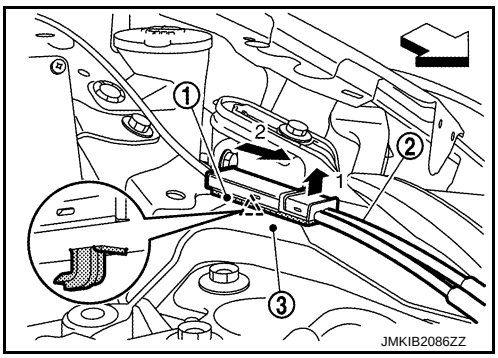
Hood Lock Control Cable (Rear)

1. Remove front fender protector front (driver side) and front fender protector rear (driver side). Refer to EXT-30, "FENDER PROTECTOR : Removal and Installation".
2. Separate hood lock control cable (front) and hood lock control cable (rear).

a. Remove hood side seal assembly (driver side). Refer to DLK-188, "HOOD SEAL : Removal and Installation".

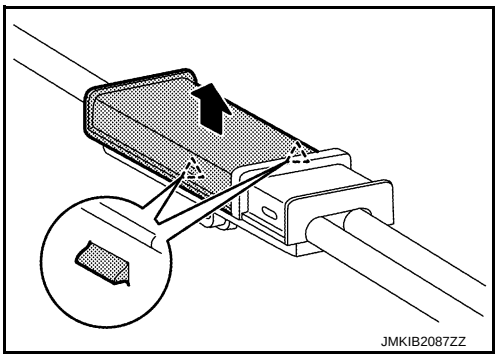
b. Disengage case ① fixing pawl of hood lock control cable (front) ② from radiator core support assembly ③ according to the numerical order 1 → 2 indicated by arrows as shown in the figure.

△ : Pawl
⇦ : Vehicle front

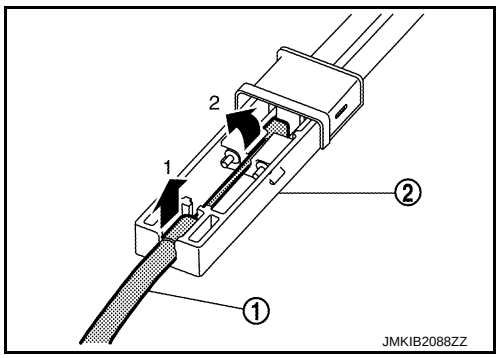


c. Disengage case pawl of hood lock control cable (front) and remove hood control cable protector.

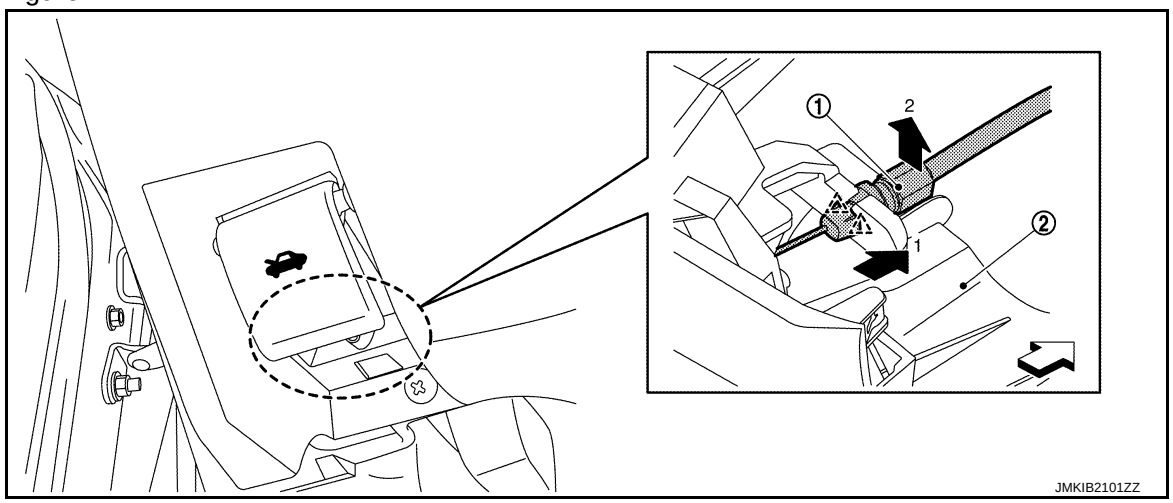
△ : Pawl



d. Disconnect hood lock control cable (rear) ① from hood lock control cable (front) ② according to the numerical order 1 → 2 indicated by arrows as shown in the figure.



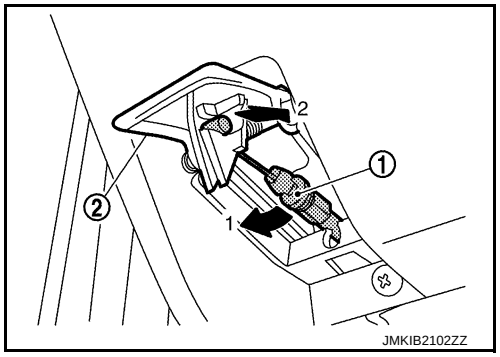
3. Disengage hood lock control cable (rear) ① fixing pawls, and then remove hood lock control cable (rear) from instrument lower panel ② according to the numerical order 1 → 2 indicated by arrows as shown in the figure.



: Pawl

: Vehicle front

4. Disconnect hood lock control cable (rear) ① from hood opener lever ② according to the numerical order 1 → 2 indicated by arrows as shown in the figure.



5. Remove dash side finisher (driver side). Refer to INT-28, "DASH SIDE FINISHER : Removal and Installation".
6. Remove grommet on the lower dash, pull hood lock control cable (rear) toward the passenger compartment.

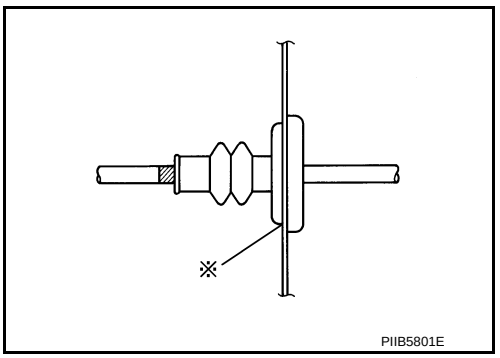
CAUTION:
While pulling, never to damage (peeling) the outside of the hood lock control cable (rear).

INSTALLATION

Note the following items, and install in the reverse order of removal.

CAUTION:
- **Never to bend cable too much, keeping the radius 100 mm (3.937 in) or more.**

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

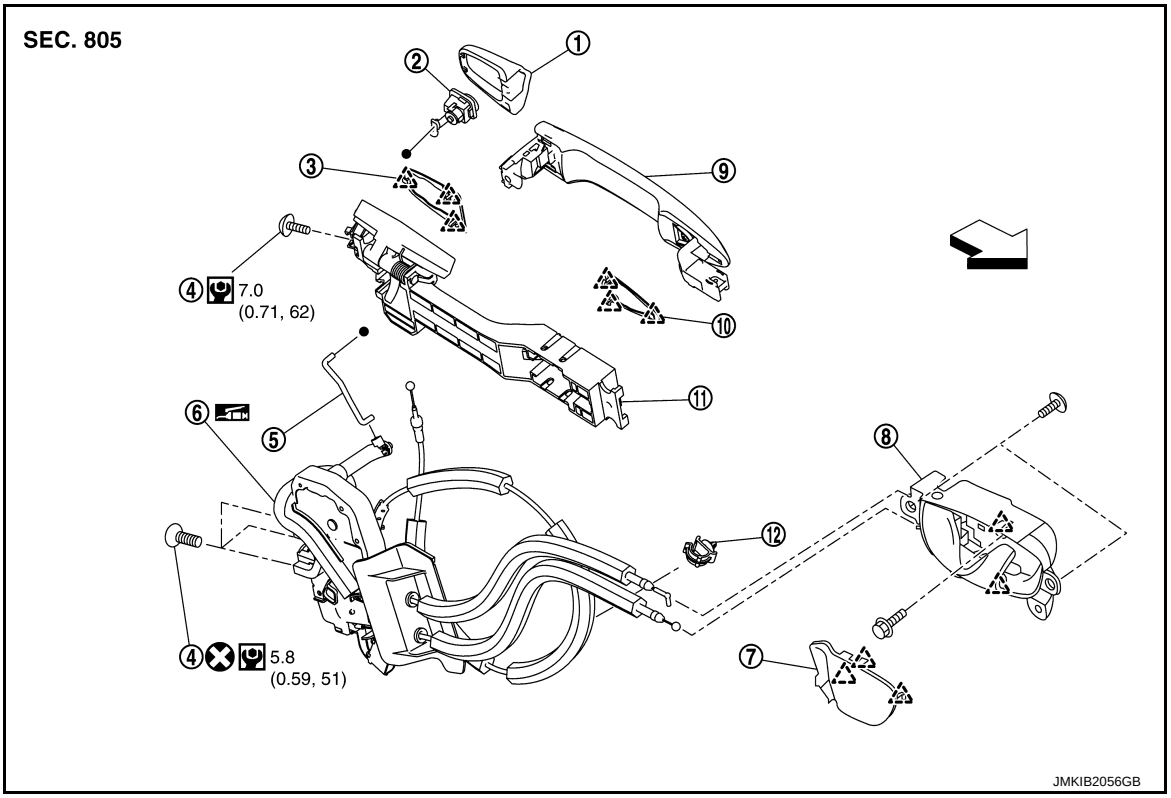


- **Check that hood lock control cables is properly engaged with hood lock.**
- **After installation, perform hood lock control inspection. Refer to DLK-217, "HOOD LOCK : Inspection".**

FRONT DOOR LOCK

Exploded View

INFOID:0000000011283368



① Outside handle escutcheon	② Door lock cylinder	③ Rear gasket
④ TORX bolt	⑤ Key rod (driver side)	⑥ Door lock assembly
⑦ Inside handle escutcheon	⑧ Inside handle	⑨ Outside handle grip
⑩ Front gasket	⑪ Outside handle bracket	⑫ Cable clip

: Pawl

: Vehicle front

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

: Body grease

●: Indicates that the part is connected at points with same symbol in actual vehicle.

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:0000000011283369

REMOVAL

1. Disconnect outside handle cable from outside handle bracket. Refer to DLK-224, "OUTSIDE HANDLE : Removal and Installation".
2. Disconnect door lock assembly harness connector.
3. Remove door lock assembly mounting TORX bolts, and then remove door lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

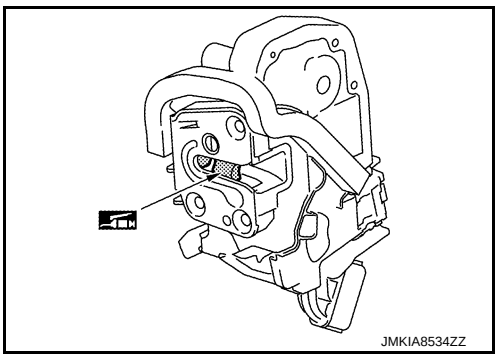
- **Never reuse TORX bolt. Always replace it with a new one when it is removed.**
- **After installation, check door lock. Refer to DLK-224, "DOOR LOCK : Inspection".**

DOOR LOCK : Inspection

INFOID:0000000011283370

1. After opening and closing the door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.
3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

: Body grease



INSIDE HANDLE

INSIDE HANDLE : Removal and Installation

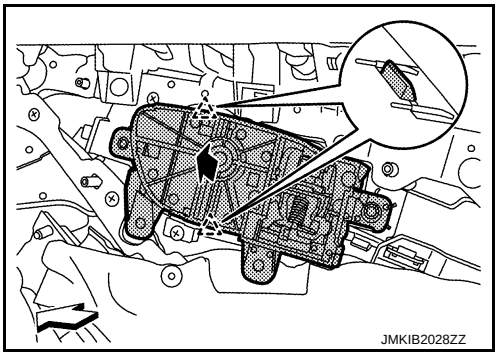
INFOID:0000000011283371

REMOVAL

1. Remove front door finisher. Refer to INT-13, "FRONT DOOR FINISHER : Removal and Installation".
2. Remove inside handle fixing screws.
3. Disengage inside handle fixing pawls, and then remove inside handle.

: Pawl

: Vehicle front



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check door lock. Refer to DLK-224, "DOOR LOCK : Inspection".

OUTSIDE HANDLE

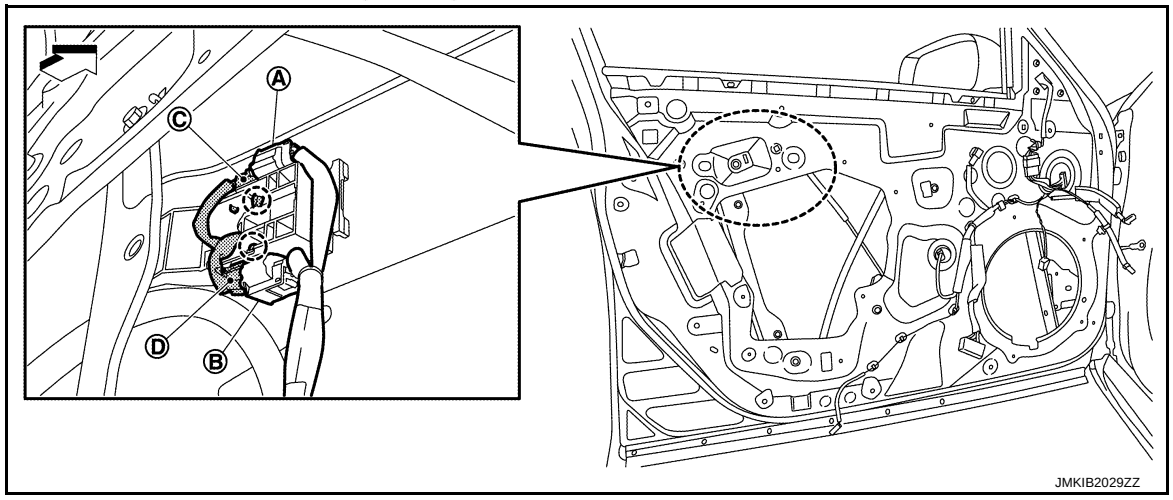
OUTSIDE HANDLE : Removal and Installation

INFOID:0000000011283372

REMOVAL

1. Fully close the front door glass.
2. Remove front door finisher. Refer to INT-13, "FRONT DOOR FINISHER : Removal and Installation".
3. Remove front door inner frame. Refer to GW-35, "Exploded View".

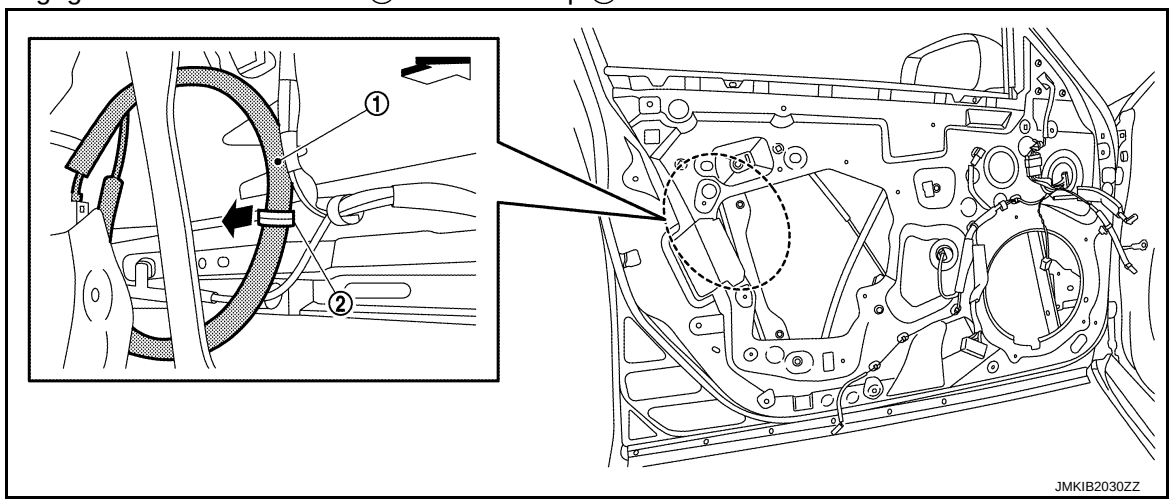
4. Disconnect door harness connector Ⓐ and Ⓑ, and then disengage connector fixing clip and remove outside handle harness connector Ⓒ and Ⓓ.



◌ : Clip

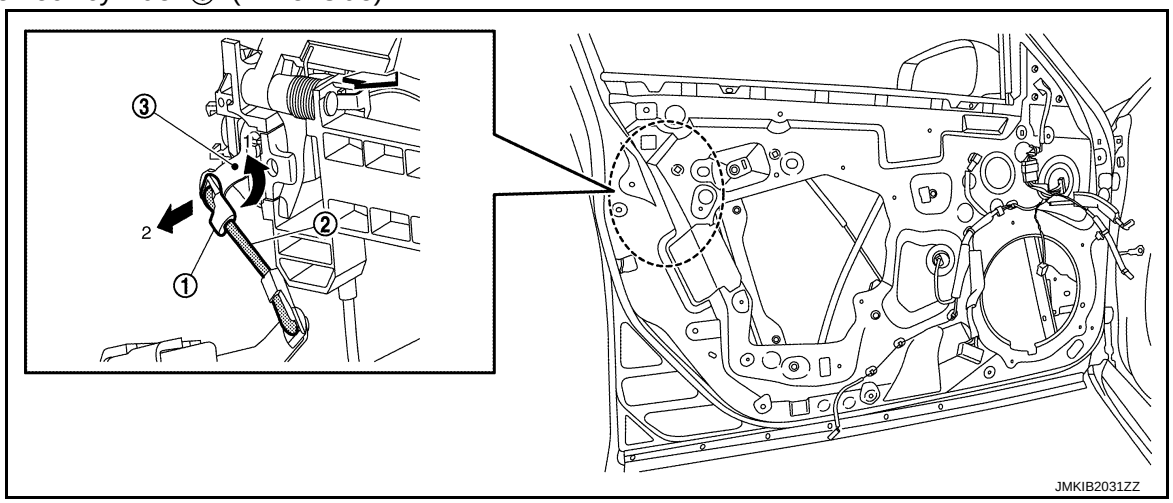
⇦ : Vehicle front

5. Disengage outside handle cable ① from cable clip ②.



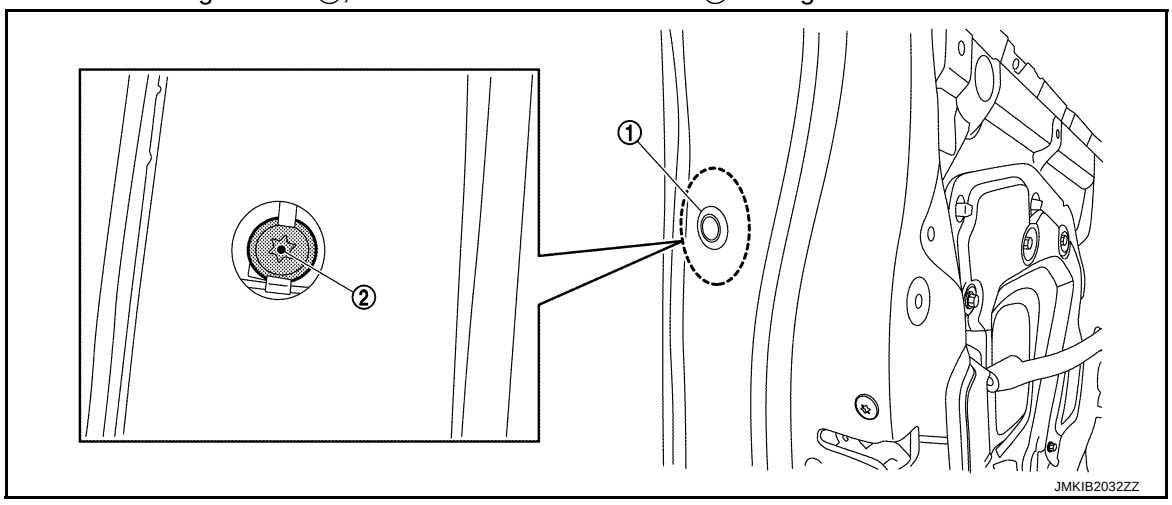
⇦ : Vehicle front

6. In the order of 1 → 2 as shown in the figure, disengage rod holder ①, and then disconnect key rod ② from door lock cylinder ③. (Driver side)

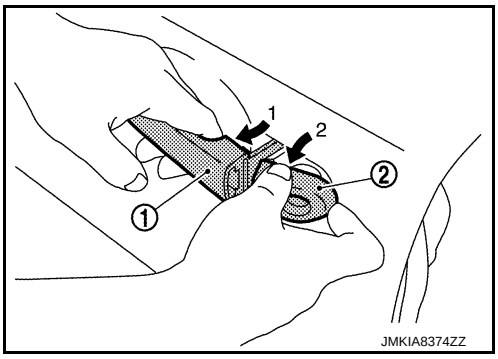


⇦ : Vehicle front

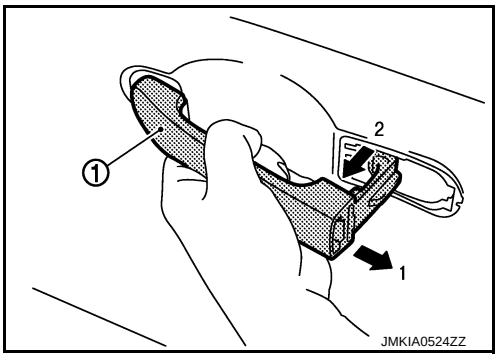
7. Remove door side grommet ①, and then loosen TORX bolt ② from grommet hole.



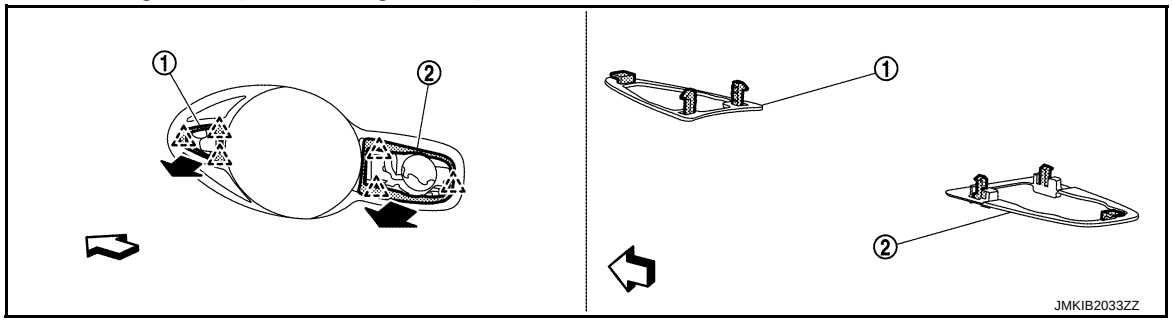
8. In the order of 1 → 2 as shown in the figure, while pulling outside handle grip ①, remove outside handle escutcheon ②.



9. In the order of 1 → 2 as shown in the figure, while pulling outside handle grip ①, slide toward rear of vehicle to remove outside handle grip.



10. Remove front gasket ① and rear gasket ②.

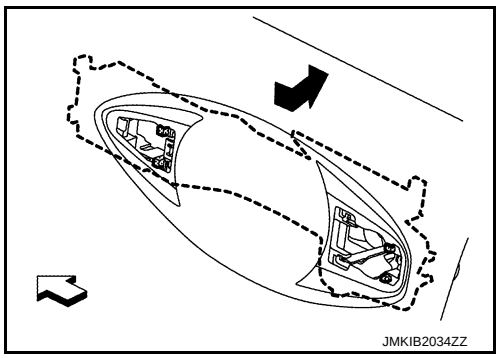


△ : Pawl

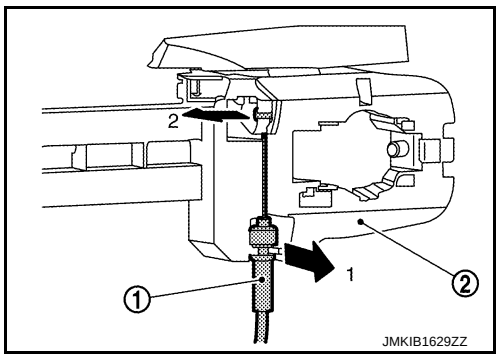
⇦ : Vehicle front

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

⇦ : Vehicle front



12. Disconnect outside handle cable ① according to the numerical order 1 → 2 indicated by arrows as shown in the figure from outside handle bracket ②.



INSTALLATION

Note the following items, and then install in the reverse order of removal.

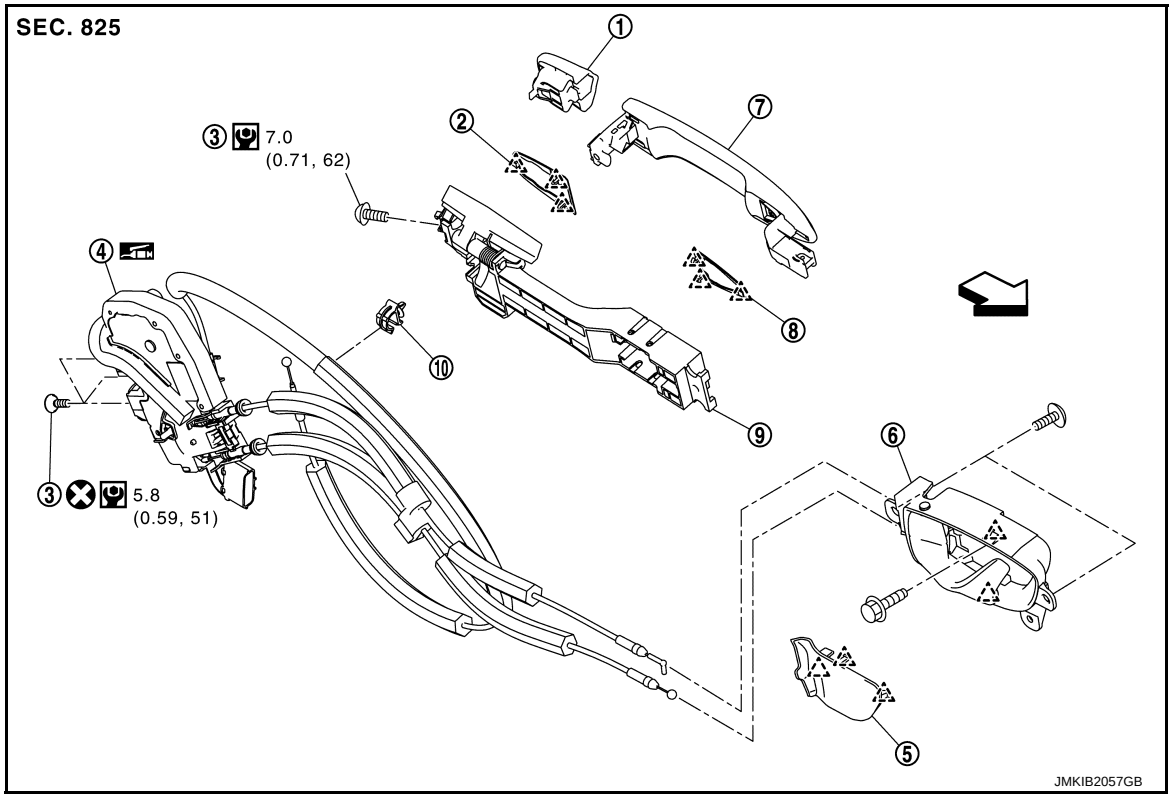
CAUTION:

- **Be careful that outside handle cable is routed normally when installing outside handle cable to outside handle.**
- **Check that door lock cables are normally engaged with inside handle and outside handle.**
- **Rotate rod holder until it clicks to securely install key rod.**
- **After installation, check door lock. Refer to DLK-224, "DOOR LOCK : Inspection".**

REAR DOOR LOCK

Exploded View

INFOID:0000000011283373



① Outside handle escutcheon	② Rear gasket	③ TORX bolt
④ Door lock assembly	⑤ Inside handle escutcheon	⑥ Inside handle
⑦ Outside handle grip	⑧ Front gasket	⑨ Outside handle bracket
⑩ Cable clip		

: Pawl

: Vehicle front

: Always replace after every disassembly.

: N·m (kg-m, in-lb)

: Body grease

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:0000000011283374

REMOVAL

1. Disconnect outside handle cable from outside handle bracket. Refer to DLK-229, "OUTSIDE HANDLE : Removal and Installation".
2. Remove door lock assembly mounting TORX bolts.
3. Disconnect door lock assembly harness connector, and then remove door lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

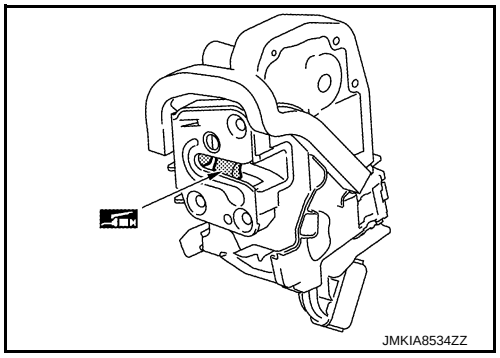
- **Never reuse TORX bolt. Always replace it with a new one when it is removed.**
- **After installation, check door lock. Refer to DLK-229, "DOOR LOCK : Inspection".**

DOOR LOCK : Inspection

INFOID:0000000011283375

1. After opening and closing the door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.
3. Check door lock assembly for poor lubrication. Apply body grease to door lock if necessary.

: Body grease



INSIDE HANDLE

INSIDE HANDLE : Removal and Installation

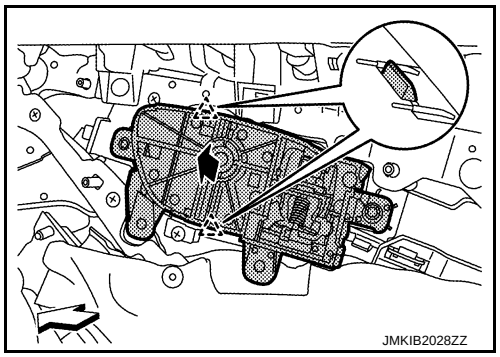
INFOID:0000000011283376

REMOVAL

1. Remove rear door finisher. Refer to INT-18, "REAR DOOR FINISHER : Removal and Installation".
2. Remove inside handle fixing screws.
3. Disengage inside handle fixing pawls, and then remove inside handle.

: Pawl

: Vehicle front



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check door lock. Refer to DLK-229, "DOOR LOCK : Inspection".

OUTSIDE HANDLE

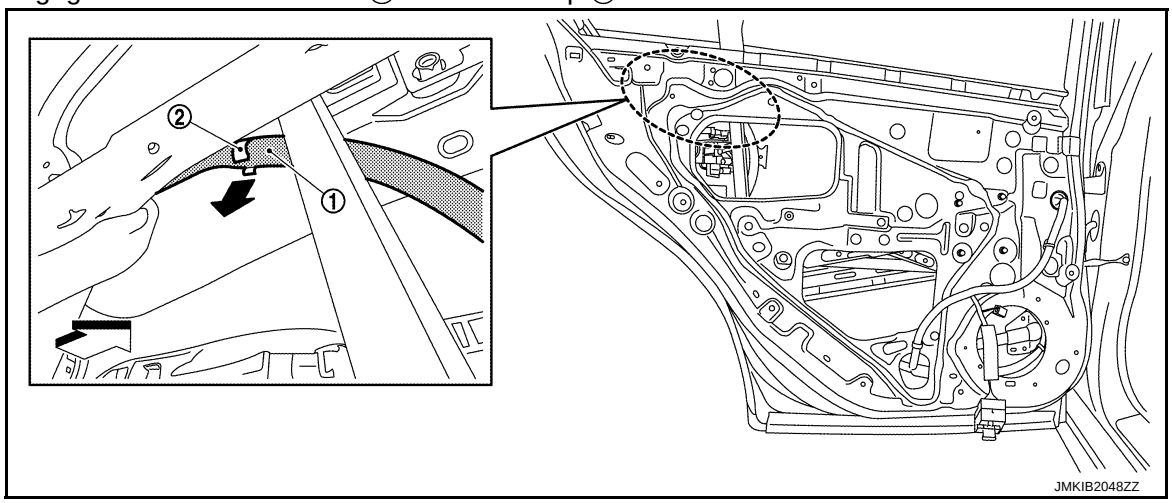
OUTSIDE HANDLE : Removal and Installation

INFOID:0000000011283377

REMOVAL

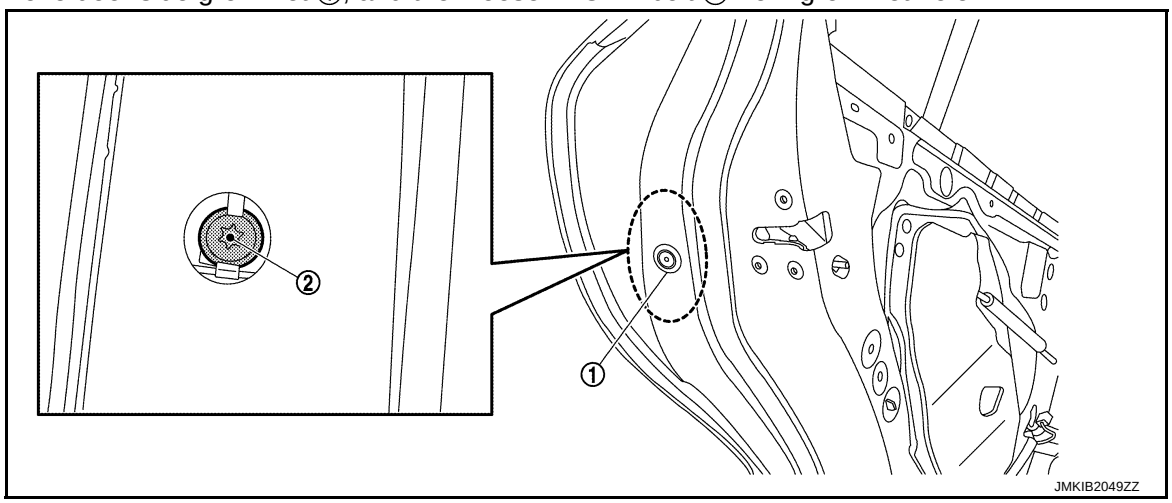
1. Fully close rear door glass.
2. Remove rear door finisher. Refer to INT-18, "REAR DOOR FINISHER : Removal and Installation".
3. Remove rear side of sealing screen.
   NOTE:
   Cut the butyl-tape so that some parts of the butyl-tape do not remain on the sealing screen, if the sealing screen is reused.

4. Disengage outside handle cable ① from cable clip ②.

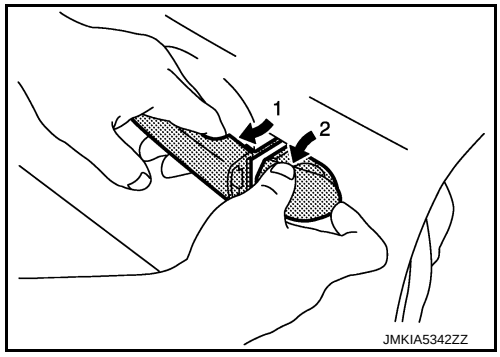


⇦ : Vehicle front

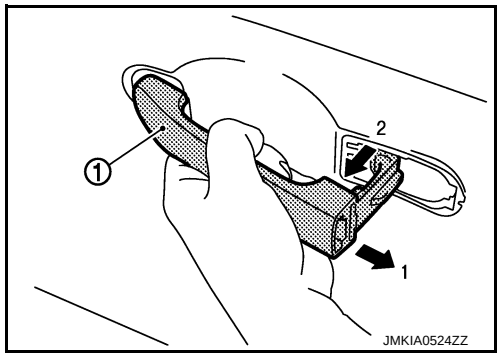
5. Remove door side grommet ①, and then loosen TORX bolt ② from grommet hole.



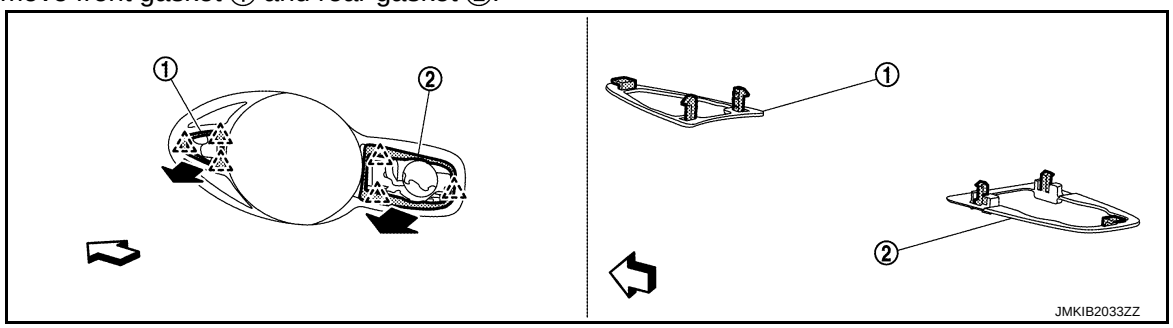
6. In the order of 1 → 2 as shown in the figure, while pulling outside handle grip, remove outside handle escutcheon.



7. In the order of 1 → 2 as shown in the figure, while pulling outside handle grip ①, slide toward rear of vehicle to remove outside handle grip.



8. Remove front gasket ① and rear gasket ②.

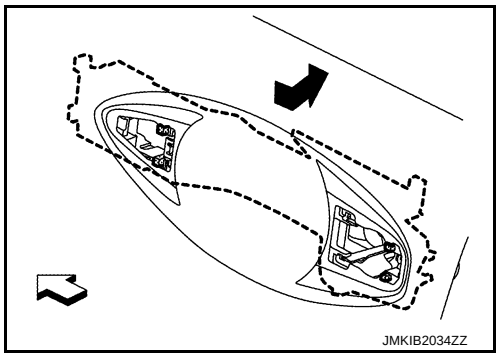


: Pawl

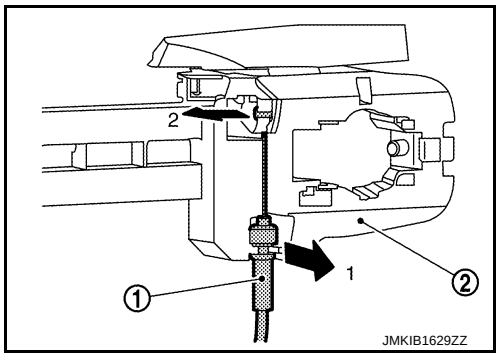
: Vehicle front

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

: Vehicle front



10. Disconnect outside handle cable ① according to the numerical order 1 → 2 indicated by arrows as shown in the figure from outside handle bracket ②.



INSTALLATION

Note the following items, and then install in the reverse order of removal.

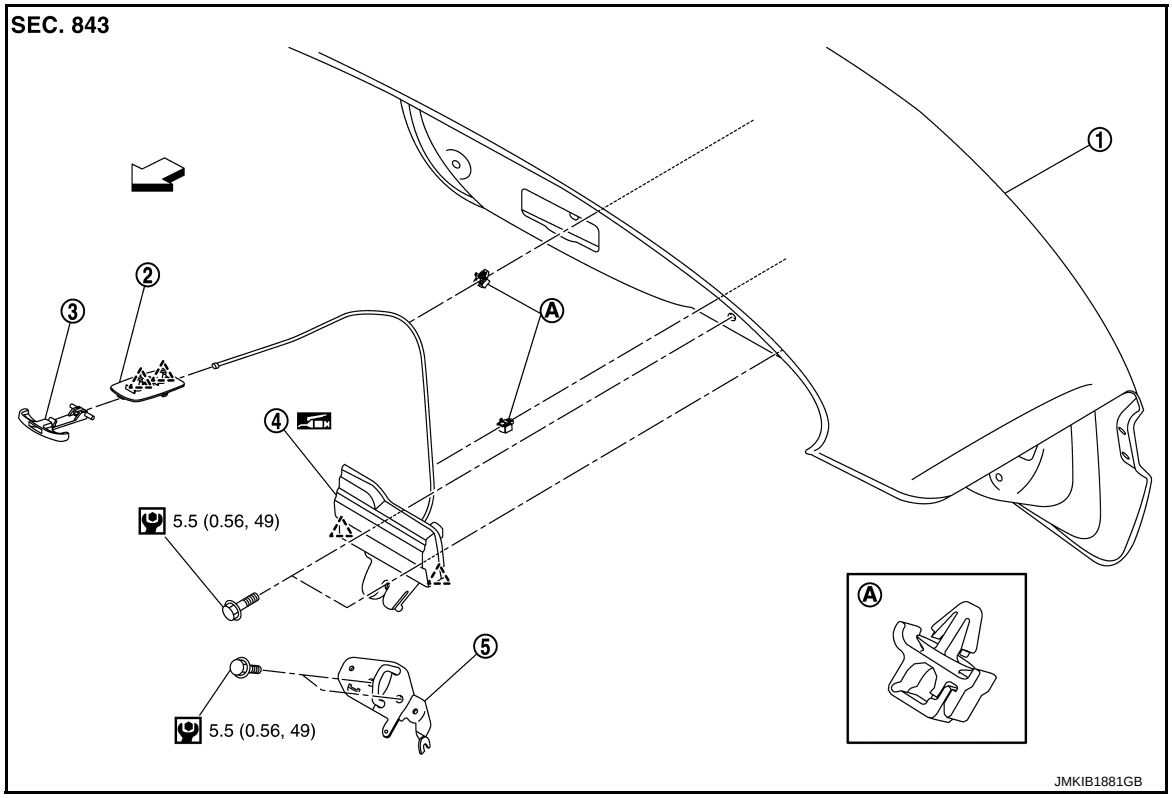
CAUTION:

- **Be careful that outside handle cable is routed normally when installing outside handle cable to outside handle.**
- **Check that door lock cables are normally engaged with inside handle and outside handle.**
- **After installation, check door lock. Refer to DLK-229, "DOOR LOCK : Inspection".**

TRUNK LID LOCK

Exploded View

INFOID:0000000011283378



① Trunk lid assembly
② Inside handle holder
③ Trunk lid inside handle
④ Trunk lid lock assembly
⑤ Trunk lid striker
Ⓐ Clip
: Pawl
: Vehicle front
: N·m (kg-m, in-lb)
: Body grease

TRUNK LID LOCK

TRUNK LID LOCK : Removal and Installation

INFOID:0000000011283379

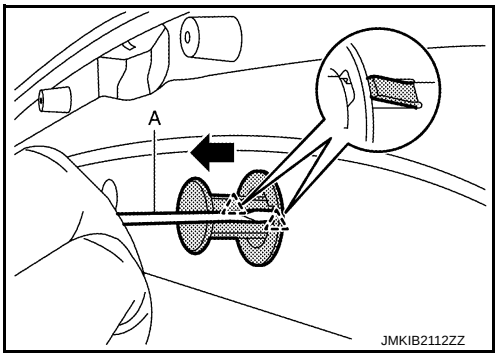
REMOVAL

1. Remove lift spring.

a. Insert a remover tool (A) between lift spring and trunk lid assembly, and then disengage fixing pawls.

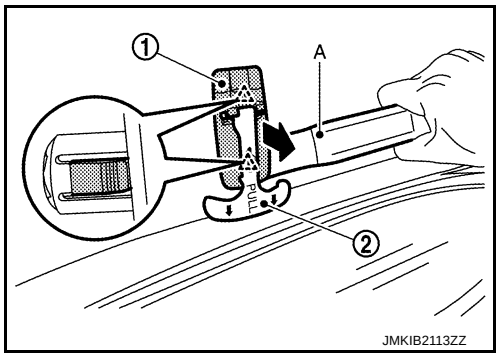
: Pawl

b. Pull back lift spring and remove lift spring.

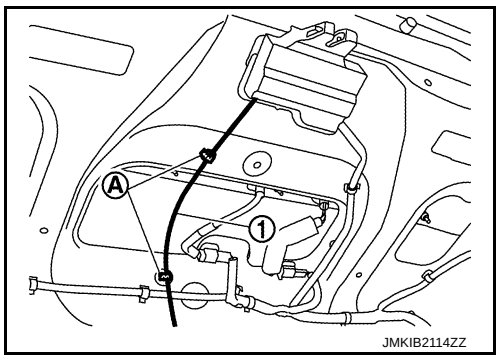


2. Disengage inside handle holder ① fixing pawls using a remover tool (A), and then remove inside handle holder together with trunk lid inside handle ②.

: Pawl

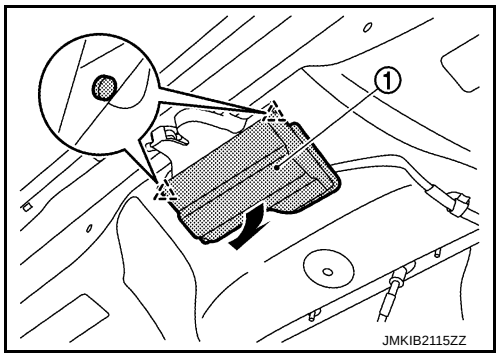


3. Remove trunk lid inner finisher. Refer to INT-53, "Removal and Installation".
4. Remove wire ① of trunk lid lock assembly from clips Ⓐ.



5. Disengage pawls of trunk lid lock cover ①. Open trunk lid lock cover in direction indicated by the arrow as shown in the figure.

: Pawl



6. Disconnect harness connector from trunk lid lock assembly.
7. Remove trunk lid lock assembly mounting bolts, and then remove trunk lid lock assembly.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check that trunk lid locks and unlocks normally. Refer to DLK-233, "TRUNK LID LOCK : Inspection".

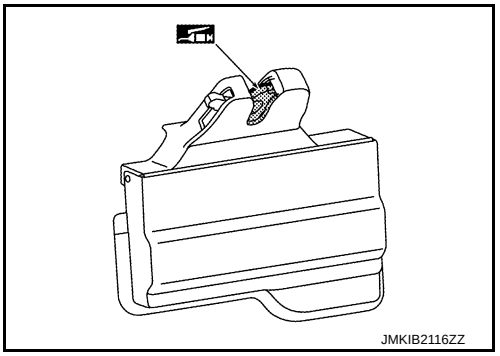
TRUNK LID LOCK : Inspection

INFOID:0000000011283380

1. After opening and closing the trunk lid, check that trunk lid is fixed to the vehicle body normally.
2. Check the lock/unlock operation of trunk lid.

3. Check trunk lid lock assembly for poor lubrication. Apply body grease if necessary.

: Body grease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TRUNK LID LOCK : Unlock procedures

INFOID:0000000011283381

UNLOCK PROCEDURES

NOTE:

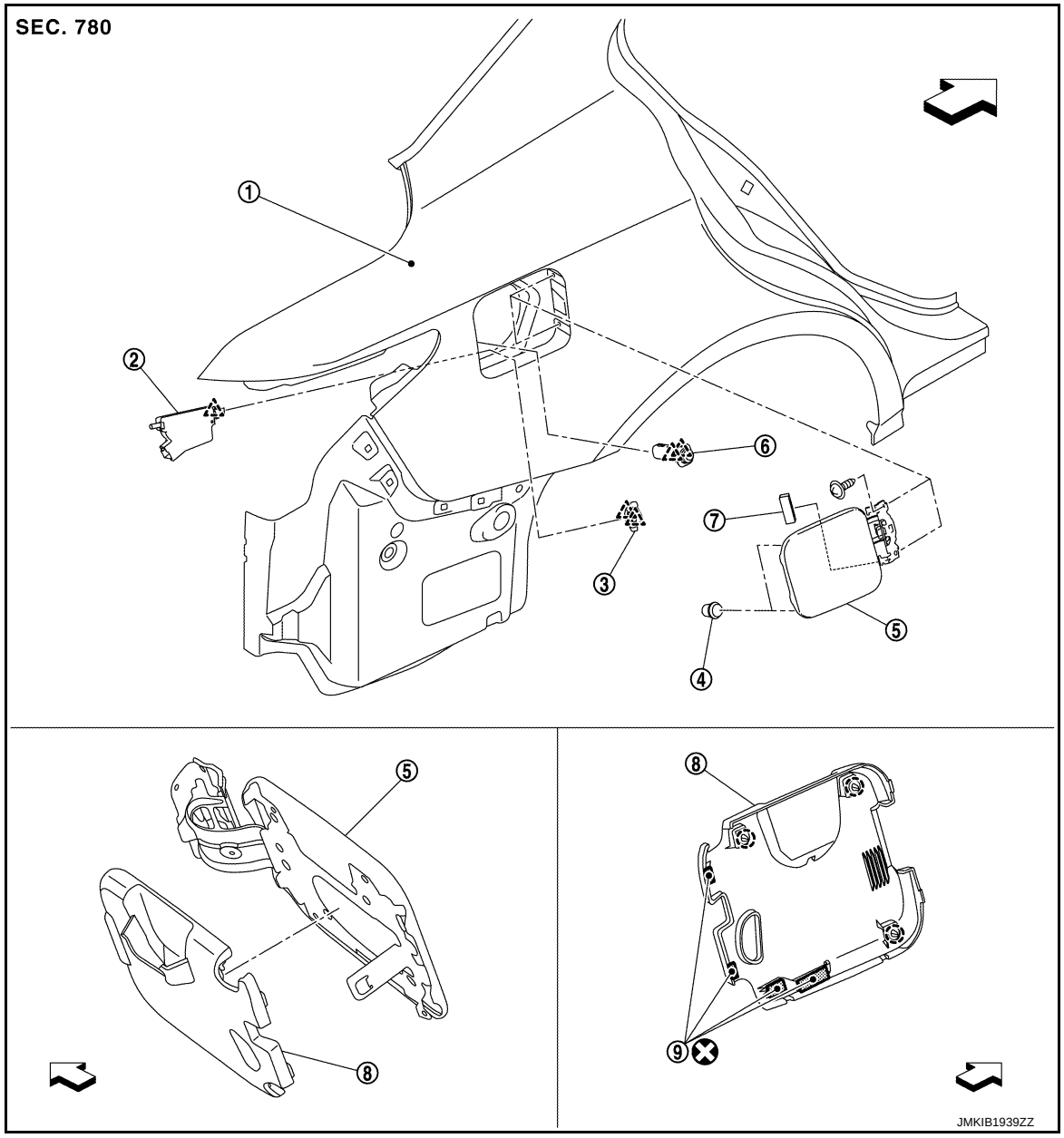
Release lock according to the following procedures when lock cannot be unlocked due to a malfunction of trunk lid lock assembly or battery discharge.

1. Fold rear seat center armrest and seatback lid toward vehicle front.
2. Pull the trunk lid inside handle to unlock.

FUEL FILLER LID OPENER

Exploded View

INFOID:0000000011283382



① Rear fender	② Fuel lid lock actuator	③ Lock nut
④ Bumper rubber	⑤ Fuel filler lid assembly	⑥ Fuel opener lock & rod
⑦ Bumper rubber	⑧ Fuel filler hinge cover	⑨ Double-sided tape [t: 2.5 mm (0.098 in)]

: Clip
: Pawl
: Vehicle front
: Always replace after every disassembly.

FUEL FILLER LID

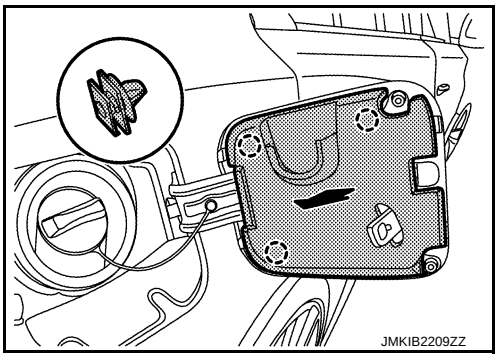
FUEL FILLER LID : Removal and Installation

INFOID:0000000011283383

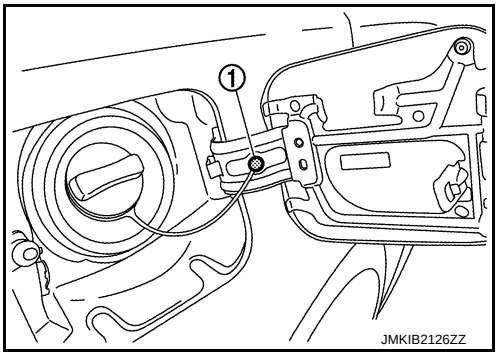
REMOVAL

1. Fully open fuel filler lid assembly.
2. Disengage fuel filler hinge cover fixing clip, and then remove fuel filler hinge cover.

: Clip



3. Remove fuel mounting pin ①.



4. Remove fixing screws, and then remove fuel filler lid assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **Replace the double-sided tape on the back surface with new double-sided tape when reusing the fuel filler hinge cover.**
- **Never wash the vehicle within 24 hour after installing so as keep adhesive.**
- **After installation, check fuel filler lid assembly open/close, lock/unlock operation.**

NOTE:

- The following table shows the specified values for checking normal installation status.
- Fitting adjustment cannot be performed.

Unit: mm [in]

Portion	Clearance	Evenness
Fuel filler lid – Body side outer	**2.5 – 3.5 [0.098 – 0.138]**	**(-1.0) – (+1.0) [(-0.039) – (+0.039)]**

FUEL LID LOCK ACTUATOR

FUEL LID LOCK ACTUATOR : Removal and Installation

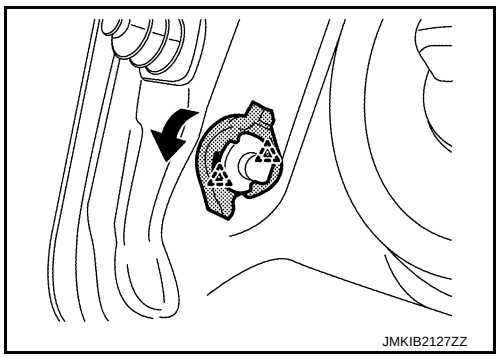
INFOID:0000000011283384

REMOVAL

1. Fully open fuel filler lid.
2. Remove trunk side finisher RH. Refer to INT-49, "TRUNK SIDE FINISHER : Removal and Installation".

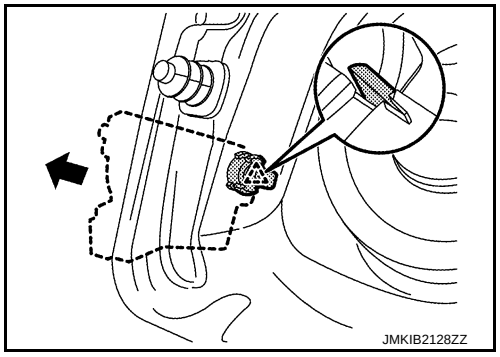
3. Rotate lock nut counterclockwise, and then remove lock nut.

: Pawl



4. Push fuel lid lock actuator behind the vehicle, while pushing the pawl.

: Pawl



5. Disconnect fuel lid lock actuator harness connector, and then remove fuel lid lock actuator.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly lock/unlock operation.

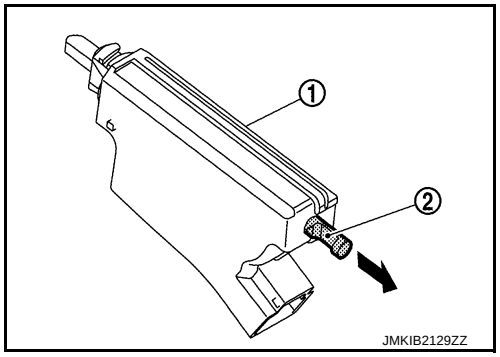
FUEL LID LOCK ACTUATOR : Unlock procedure

INFOID:0000000011283385

NOTE:

Release lock according to the following procedures when fuel lid lock actuator does not operate normally.

1. Remove trunk side finisher RH. Refer to INT-49, "TRUNK SIDE FINISHER : Removal and Installation".
2. When fuel lid lock actuator ① is a defective operation, pull the rod ② to unlock fuel filler lid.



FUEL OPENER LOCK & ROD

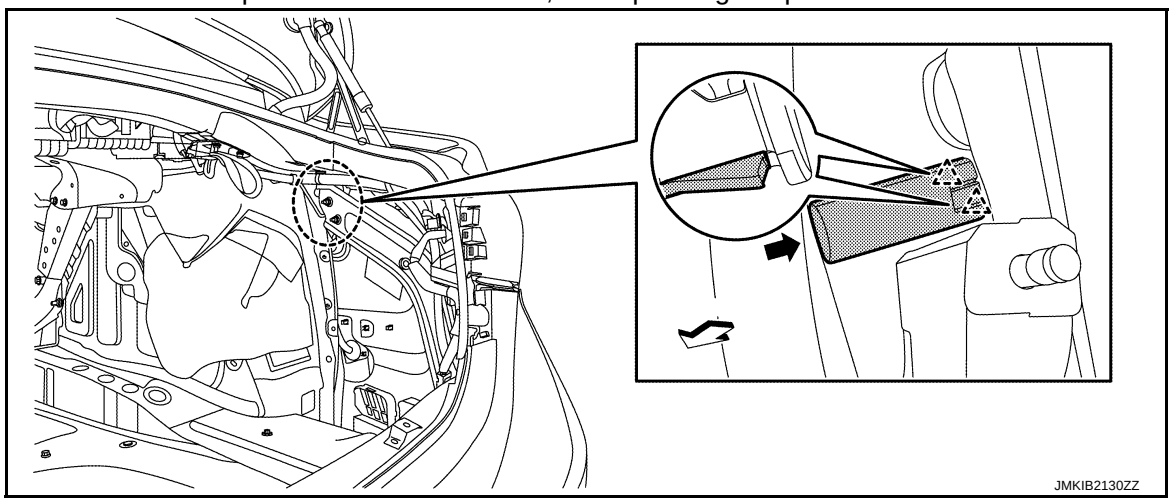
FUEL OPENER LOCK & ROD : Removal and Installation

INFOID:0000000011283386

REMOVAL

1. Fully open fuel filler lid.
2. Remove trunk side finisher RH. Refer to INT-49, "TRUNK SIDE FINISHER : Removal and Installation".

3. Pull and remove fuel opener lock & rod forward, while pushing the pawls.



: Pawl

: Vehicle front

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

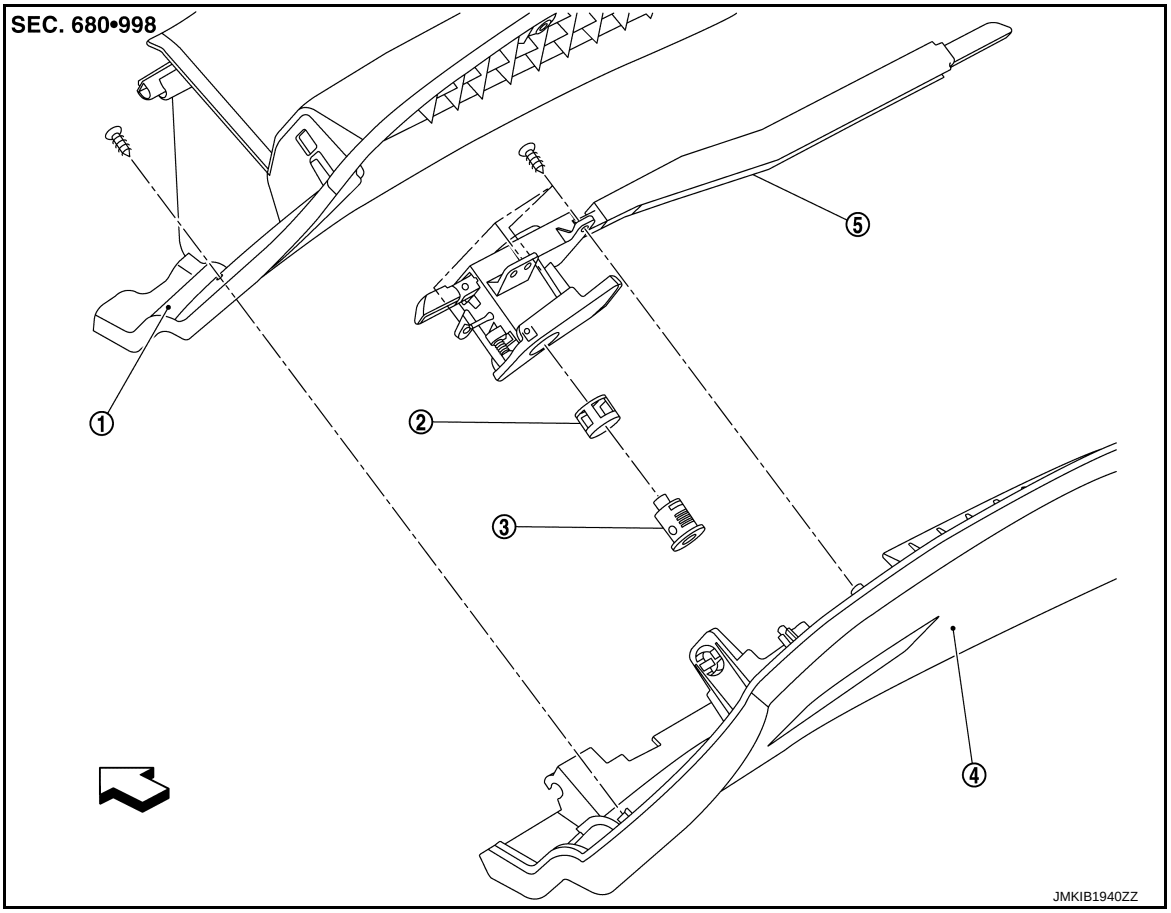
After installation, check fuel filler lid assembly open/close operation.

KEY CYLINDER

GLOVE BOX LID LOCK CYLINDER

GLOVE BOX LID LOCK CYLINDER : Exploded View

INFOID:0000000011283387



① Glove box inner lid
② Sleeve
③ Glove box lid lock cylinder
④ Glove box outer lid
⑤ Glove box lock assembly
⇦ : Vehicle front

GLOVE BOX LID LOCK CYLINDER : Removal and Installation

INFOID:0000000011283388

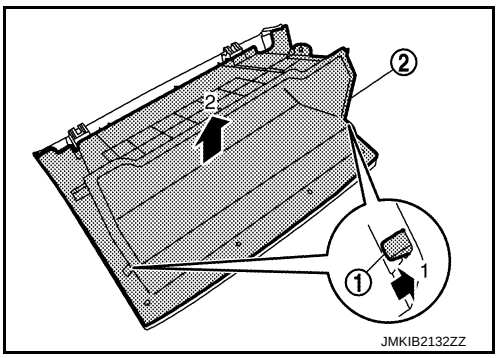
REMOVAL

CAUTION:

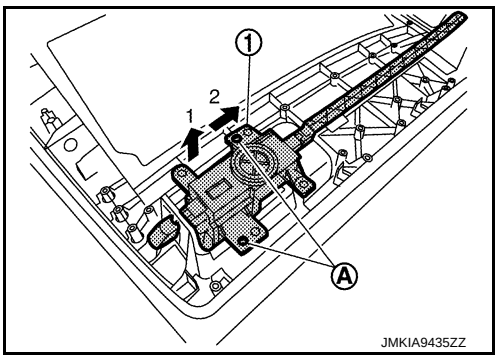
Replace glove box lock assembly when replacing glove box lid lock cylinder.

1. Remove glove box assembly. Refer to IP-13, "Removal and Installation".
2. Remove glove box inner lid fixing screws.

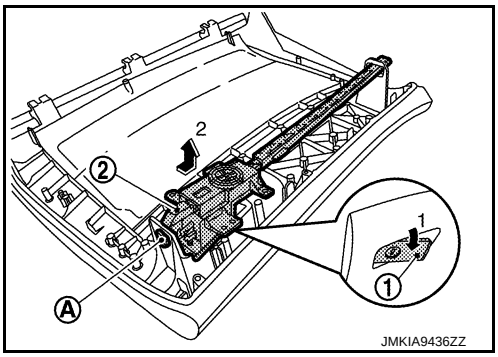
3. In the order of 1 → 2 as shown in the figure, push rod ① of glove box lock assembly into the inside of glove box inner lid ②. Remove glove box inner lid.



4. Remove glove box lock assembly fixing screws.
5. While preventing contact with the pin portion Ⓐ, slightly lift up the glove box lock assembly ① and move it according to the numerical order 1 → 2 indicated by arrows as shown in the figure.



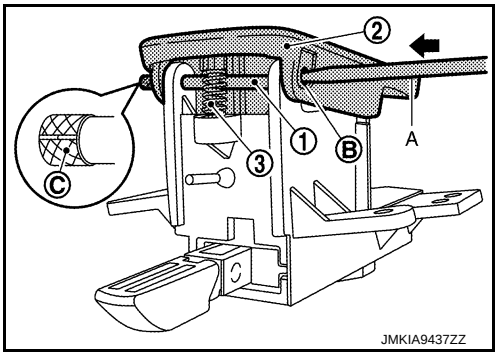
6. In the order of 1 → 2 as shown in the figure, disconnect rod ② from rod slide hole portion Ⓐ while pulling handle ① of glove box lock assembly.



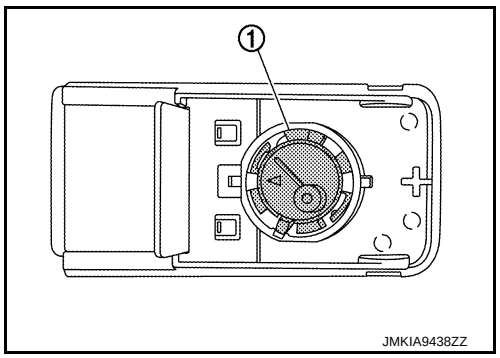
7. Remove glove box lock assembly.
8. Using a screwdriver (A), insert shaft ① from portion Ⓑ as shown in the figure. Remove shaft, handle ②, and handle spring ③.

CAUTION:

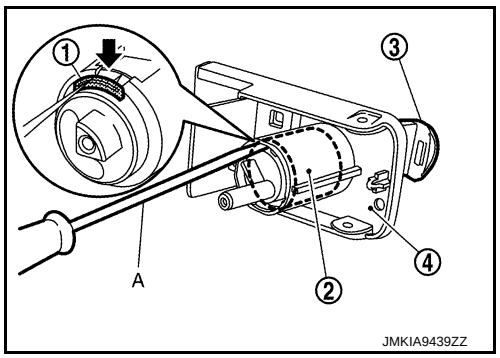
- **Be sure to push shaft toward the specified direction, because treatment Ⓒ is applied on one side of shaft so that shaft can be fixed.**
- **Caulking processing is applied at the end of the shaft. Shaft and handle are damaged when removing the shaft. Therefore, replace glove box lock assembly when replacing glove box lid lock cylinder.**



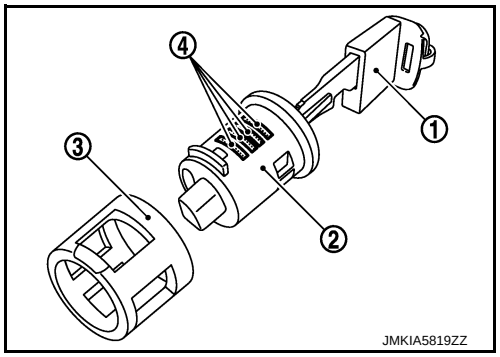
9. Insert mechanical key into glove box lid lock cylinder. Align the position of striker ① to the same position as shown in the figure.



10. Press tumbler stopper ① into glove box lid lock cylinder ② using a hook and pick tool (A), and then remove mechanical key ③ and glove box lid lock cylinder together from handle ④.
NOTE:
When removing glove box lid lock cylinder, write a short note describing its position against handle.



11. Remove sleeve ③ from handle, and then install sleeve to glove box lid lock cylinder ②.
NOTE:
When removing sleeve, write a short note describing its position against handle.
CAUTION:
Never pull out mechanical key ① from glove box lid lock cylinder while sleeve is uninstalled. Otherwise, tumbler ④ pops out of glove box lid lock cylinder.



INSTALLATION

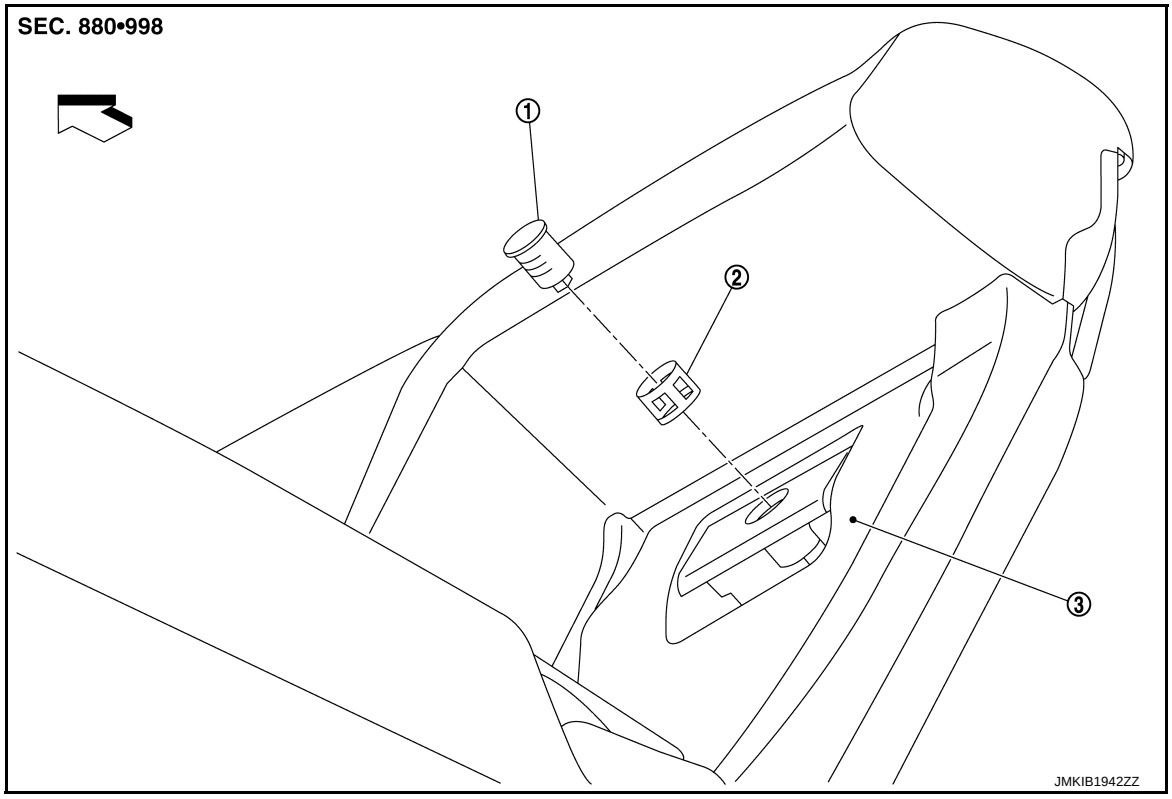
Note the following item, and then install in the reverse order of removal.

CAUTION:
After installation, check glove box assembly open/close, lock/unlock operation.

SEATBACK LID LOCK CYLINDER

SEATBACK LID LOCK CYLINDER : Exploded View

INFOID:0000000011283389



① Seatback lid lock cylinder ② Sleeve ③ Seatback lid

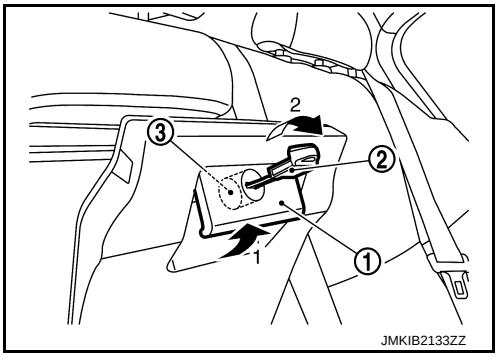
⇦ : Vehicle front

SEATBACK LID LOCK CYLINDER : Removal and Installation

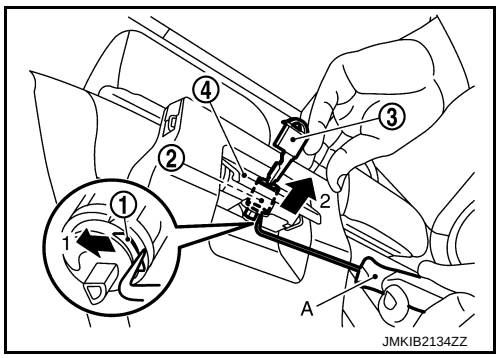
INFOID:0000000011283390

REMOVAL

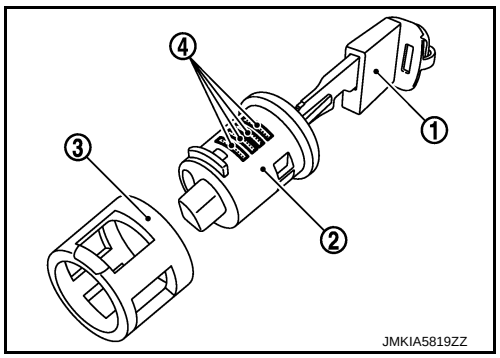
1. Open seatback lid.
2. Insert mechanical key into seatback lid lock cylinder.
3. In the order of 1 → 2 as shown in the figure, set seatback lid knob ① to the pulled-up status, and then rotate mechanical key ② and turn seatback lid lock cylinder ③ to the lock position.



4. In the order of 1 → 2 as shown in the figure, press tumbler stopper ① into seatback lid lock cylinder ② using a hook and pick tool (A), and then remove mechanical key ③ and seatback lid lock cylinder together from seatback lid knob ④.
NOTE:
When removing seatback lid lock cylinder, write a short note describing its position against seatback lid knob.



5. Remove sleeve ③ from seatback lid knob, and then install sleeve to seatback lid lock cylinder ②.
NOTE:
When removing sleeve, write a short note describing its position against seatback lid knob.
CAUTION:
Never pull out mechanical key ① from seatback lid lock cylinder while sleeve is uninstalled. Otherwise, tumbler ④ pops out of seatback lid lock cylinder.



INSTALLATION

Note the following item, and then install in the reverse order of removal.
CAUTION:
After installation, check seatback lid lock/unlock operation.

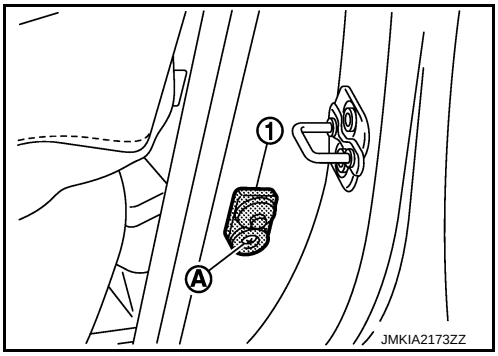
DOOR SWITCH

Removal and Installation

INFOID:0000000011283391

REMOVAL

1. Remove the TORX bolt Ⓐ.
2. Disconnect door switch connector and then remove door switch ①.



INSTALLATION

Install in the reverse order of removal.

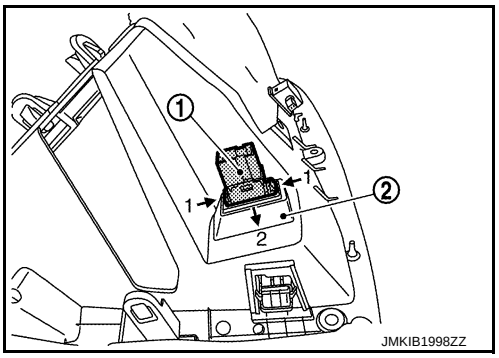
TRUNK LID OPENER CANCEL SWITCH

Removal and Installation

INFOID:0000000011283392

REMOVAL

1. Remove the instrument lower panel RH. Refer to IP-13, "Removal and Installation".
2. Pinch trunk lid opener cancel switch ① from both side (in the direction shown by arrow 1) and disengage tab. Press toward outside (in the direction shown by arrow 2) to remove from instrument lower panel RH ②.



INSTALLATION

Install in the reverse order of removal.

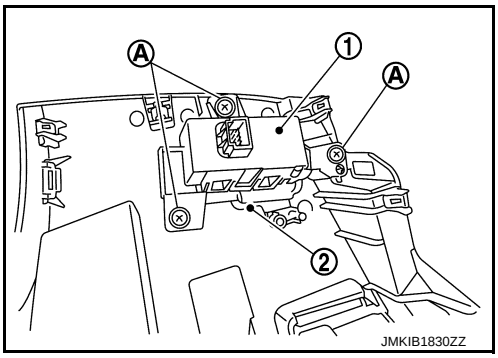
TRUNK LID OPENER SWITCH

Removal and Installation

INFOID:0000000011283393

REMOVAL

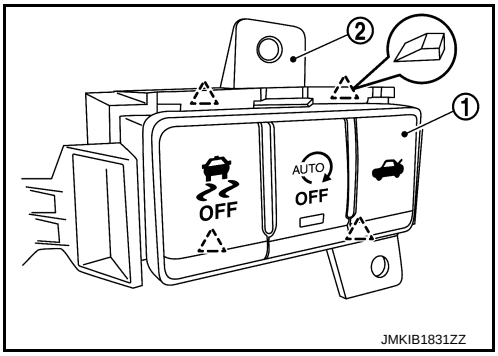
1. Remove the instrument lower panel LH. Refer to IP-13, "Removal and Installation".
2. Remove screws Ⓐ that retain the triple switch bracket ① to the instrument lower panel LH ②.



JMKIB1830ZZ

3. Remove trunk lid opener switch ① from triple switch bracket ②.

△ : Pawl



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INSTALLATION

Install in the reverse order of removal.

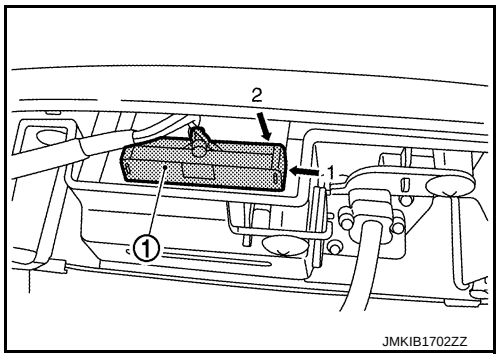
TRUNK LID OPENER REQUEST SWITCH

Removal and Installation

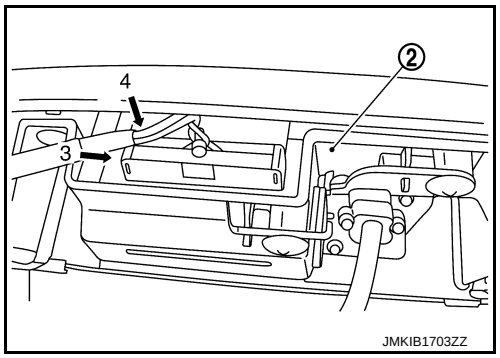
INFOID:0000000011283394

REMOVAL

1. Remove trunk lid finisher. Refer to EXT-57, "TRUNK LID FINISHER : Removal and Installation".
2. Pinch trunk lid opener request switch ① from right side (in the direction shown by arrow 1) and disengage tab. Press toward outside (in the direction shown by arrow 2).



3. Pinch trunk lid opener request switch from left side (in the direction shown by arrow 3) and disengage tab. Press toward outside (in the direction shown by arrow 4) to remove from trunk lid finisher ②.



INSTALLATION

Install in the reverse order of removal.

INSIDE KEY ANTENNA

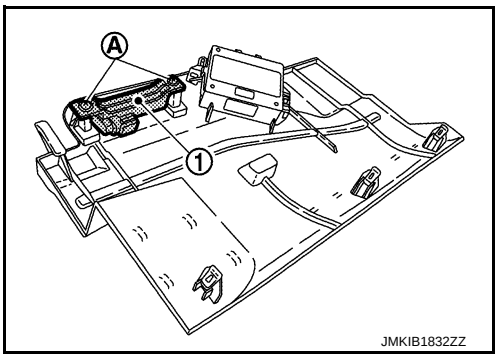
INSTRUMENT

INSTRUMENT : Removal and Installation

INFOID:0000000011283395

REMOVAL

1. Remove instrument lower cover. Refer to IP-13, "Removal and Installation".
2. Remove the mounting screw Ⓐ, and then remove inside key antenna (instrument lower) ①.



INSTALLATION

Install in the reverse order of removal.

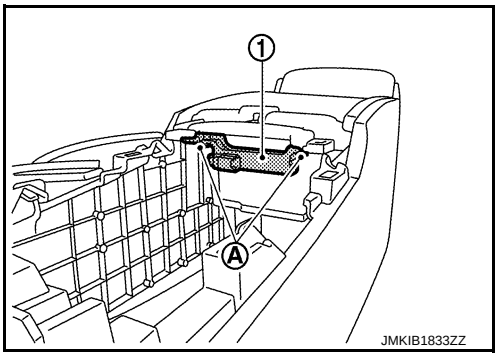
CONSOLE

CONSOLE : Removal and Installation

INFOID:0000000011283396

REMOVAL

1. Remove the center console assembly. Refer to IP-24, "Removal and Installation".
2. Remove the mounting screw Ⓐ, and then remove inside key antenna (console) ①.



INSTALLATION

Install in the reverse order of removal.

TRUNK ROOM

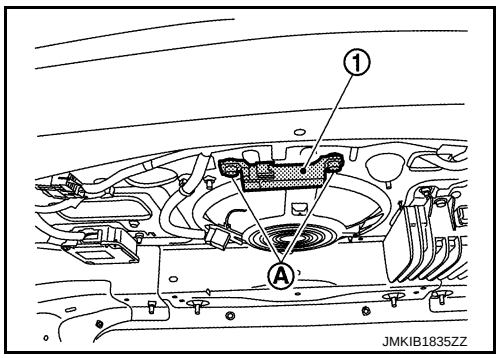
TRUNK ROOM : Removal and Installation

INFOID:0000000011283397

REMOVAL

1. Remove the trunk lid front finisher. Refer to INT-50, "TRUNK UPPER FINISHER : Removal and Installation".
2. Disconnect inside key antenna (trunk room) connector.

3. Remove the mounting clips Ⓐ and then remove inside key antenna (trunk room) ①.



INSTALLATION

Install in the reverse order of removal.

OUTSIDE KEY ANTENNA

OUTSIDE HANDLE

OUTSIDE HANDLE : Removal and Installation

INFOID:0000000011283398

REMOVAL

Remove the outside handle grip. Refer to DLK-224, "OUTSIDE HANDLE : Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

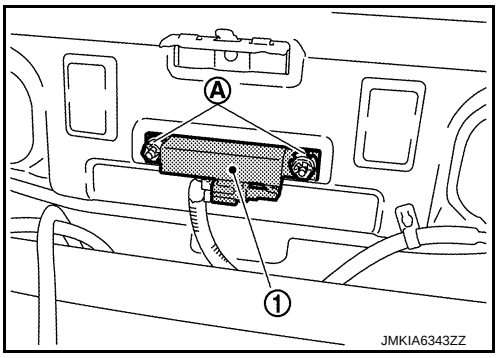
REAR BUMPER

REAR BUMPER : Removal and Installation

INFOID:0000000011283399

REMOVAL

1. Remove the rear bumper fascia assembly. Refer to EXT-22, "Removal and Installation".
2. Remove the outside key antenna (rear bumper) mounting clips Ⓐ and then remove outside key antenna (rear bumper) ①.



INSTALLATION

Install in the reverse order of removal.

ONE TOUCH UNLOCK SENSOR

DRIVER SIDE

DRIVER SIDE : Removal and Installation

INFOID:0000000011283400

REMOVAL

Remove the front door outside handle grip (driver door). Refer to DLK-224, "OUTSIDE HANDLE : Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Removal and Installation

INFOID:0000000011283401

REMOVAL

Remove the front door outside handle grip (passenger door). Refer to DLK-224, "OUTSIDE HANDLE : Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

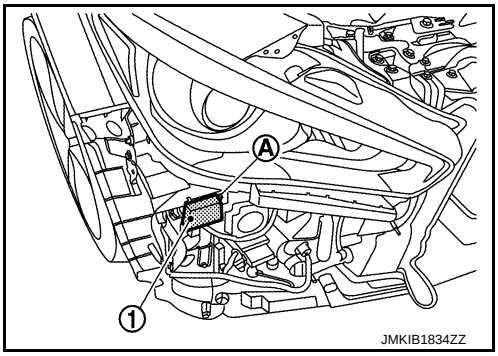
INTELLIGENT KEY WARNING BUZZER

Removal and Installation

INFOID:0000000011283402

REMOVAL

1. Remove the front bumper fascia assembly. Refer to EXT-15, "Removal and Installation".
2. Disconnect Intelligent Key warning buzzer connector.
3. Remove the mounting bolt Ⓐ, and then remove the Intelligent Key warning buzzer bracket and Intelligent Key warning buzzer ①.



INSTALLATION

Install in the reverse order of removal.

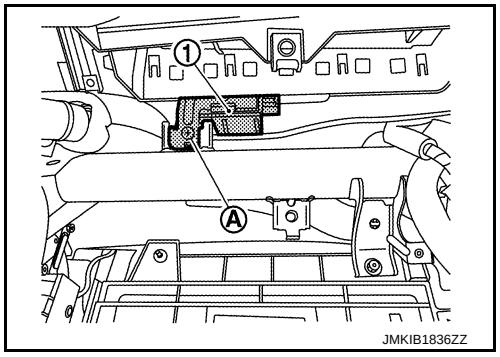
REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

INFOID:0000000011283403

REMOVAL

1. Remove the instrument lower panel RH. Refer to IP-13, "Removal and Installation".
2. Remove the front passenger air bag module. Refer to SR-25, "Removal and Installation".
3. Remove the mounting bolt Ⓐ, and then remove remote keyless entry receiver bracket and remote keyless entry receiver ①.



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INSTALLATION

Install in the reverse order of removal.

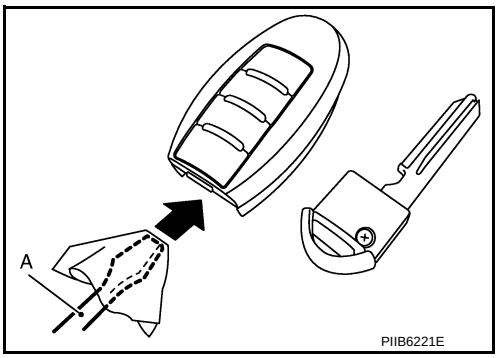
INTELLIGENT KEY BATTERY

Removal and Installation

INFOID:0000000011283404

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.

2. Insert remover 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:
   - **Never touch the circuit board or battery terminal.**
   - **The keyfob is water-resistant. However, if it does get wet, immediately wipe it dry.**



3. Replace the battery with new one.

Battery replacement	**:Coin-type lithium battery (CR2032)**

4. Align the tips of the upper and lower parts, and then push them together until it is securely closed.
   CAUTION:
   - **When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.**
   - **After replacing the battery, check that all Intelligent Key functions work normally.**