SECTION DLK
DOOR & LOCK

CONTENTS

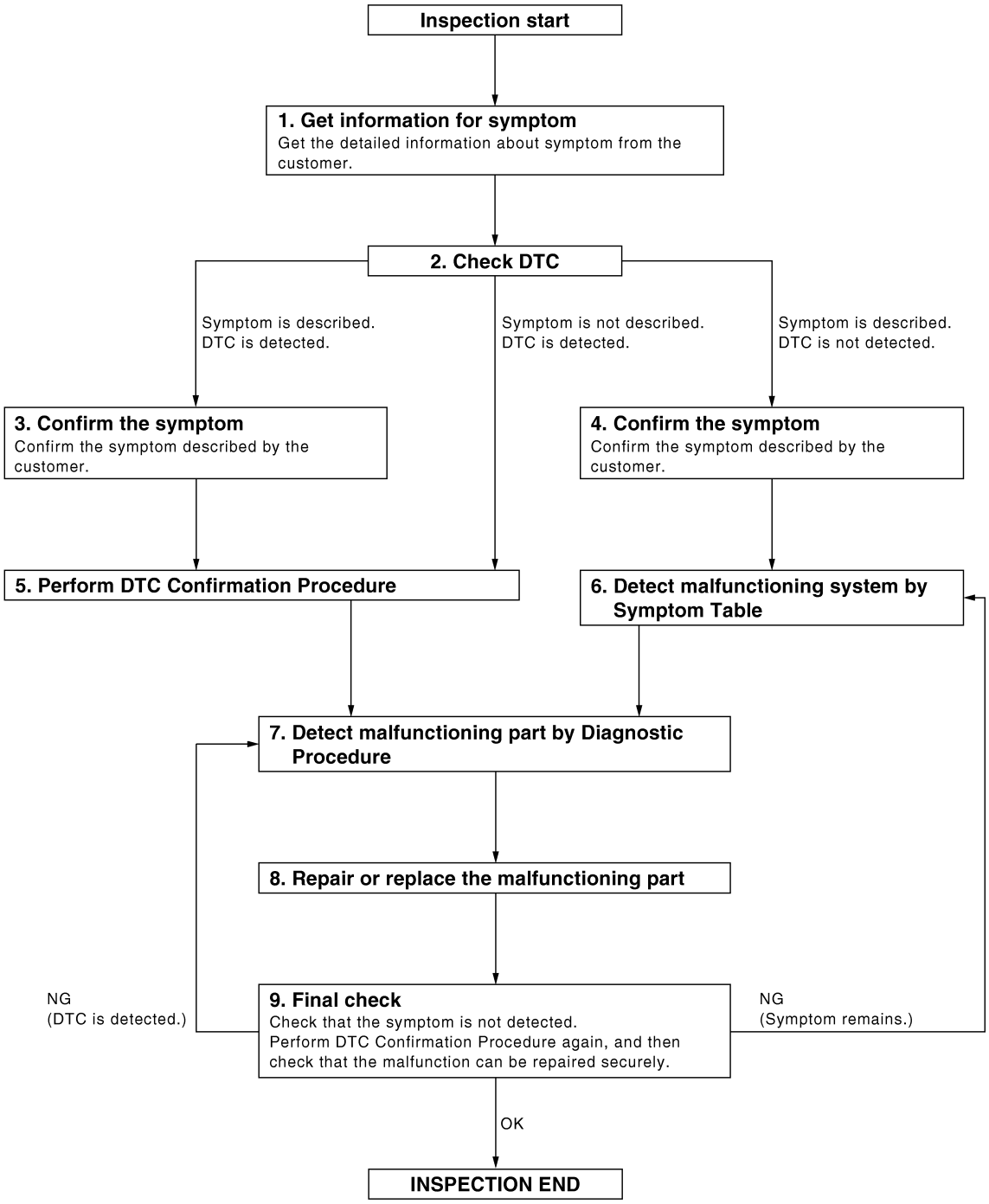
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000001683007

OVERALL SEQUENCE



JMKIA0676GB

DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2.CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is displayed.
- Record DTC and freeze frame data (Print them out with CONSULT-III.)
- 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.

Is any symptom described and 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.
Connect CONSULT-III to the vehicle in “DATA MONITOR” mode and check real time diagnosis results.
Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in “DATA MONITOR ” mode and check real time diagnosis results.
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 displayed DTC, and then check that DTC is detected again.
At this time, always connect CONSULT-III to the vehicle, and check diagnostic results in real time.
If two or more DTCs are detected, refer to DLK-154, "DTC Inspection Priority Chart" and determine trouble diagnosis order.

NOTE:
Perform Component Function Check if DTC Confirmation Procedure is not included in Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.
If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC Confirmation Procedure.

Is DTC detected?

YES >> GO TO 7.
NO >> Refer to GI-38, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

Detect malfunctioning system according to DLK-158, "Symptom Table" based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom.

>> GO TO 7.

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:
The Diagnostic Procedure described based on open circuit inspection. A short circuit inspection is also required for the circuit check in the Diagnostic Procedure.

Is malfunctioning part detected?

YES >> GO TO 8.
NO >> Check voltage of related BCM terminals using CONSULT-III.

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

When DTC was detected in step 2, perform DTC Confirmation Procedure or Component Function Check again, and then check that the malfunction has been repaired securely.
When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Does the symptom reappear?

YES (DTC is detected)>>GO TO 7.
YES (Symptom remains)>>GO TO 6.
NO >> **INSPECTION END**

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000001683008

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement

INFOID:0000000001683009

Refer to the CONSULT-III operation manual for the initialization procedure.

ECM RE-COMMUNICATING FUNCTION

ECM RE-COMMUNICATING FUNCTION : Description

INFOID:0000000001907894

Performing following procedure can automatically perform re-communication of ECM and BCM, but only when the ECM has been replaced with a new one (*1).
*1: New one means a virgin ECM which has never been energized on-board.
(In this step, initialization procedure by CONSULT-III is not necessary)

NOTE:

- **When registering new Key IDs or replacing the ECM that is not brand new, refer to CONSULT-III Operation Manual NATS-IVIS/NVIS.**
- **If multiple keys are attached to the key holder, separate them before work.**
- **Distinguish keys with unregistered key ID from those with registered ID.**

ECM RE-COMMUNICATING FUNCTION : Special Repair Requirement

INFOID:0000000001907895

1. PERFORM ECM RE-COMMUNICATING FUNCTION

1. Install ECM.
2. Insert the registered Intelligent Key (*2), turn ignition switch to “ON”.
   *2: To perform this step, use the key that has been used before performing ECM replacement.
3. Maintain ignition switch in “ON” position for at least 5 seconds.
4. Turn ignition switch to “OFF”.
5. Start engine.

Can engine be started?

YES >> Procedure is completed.
NO >> Initialize control unit. Refer to CONSULT-III Operation Manual NATS-IVIS/NVIS.

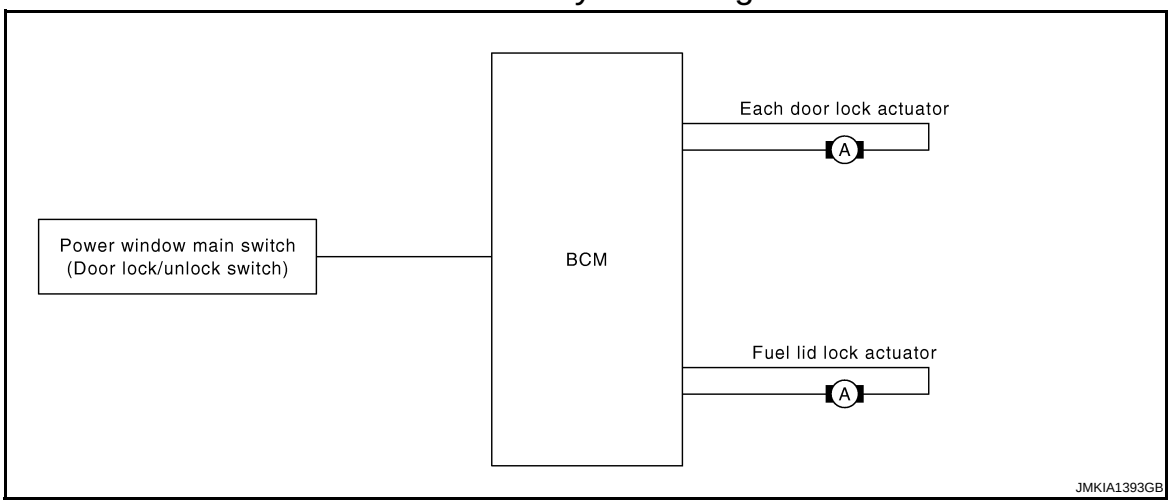
FUNCTION DIAGNOSIS

DOOR LOCK FUNCTION

DOOR LOCK AND UNLOCK SWITCH

DOOR LOCK AND UNLOCK SWITCH : System Diagram

INFOID:0000000001683010



DOOR LOCK AND UNLOCK SWITCH : System Description

INFOID:0000000001683011

Switch	Input/output signal to BCM	BCM function	Actuator
Door lock and unlock switch (Driver side)	Door lock/unlock signal	Door lock /unlock control	Door lock actuator
Door lock and unlock switch (Passenger side)			
Door key cylinder switch			

DOOR LOCK FUNCTION

Functions Available by Operating the Door Lock and Unlock Switches on Driver Door and Passenger Door
- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all doors and fuel lid lock actuator are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors and fuel lid lock actuator are unlocked.

Functions Available by Operating the Key Cylinder Switch on Driver Door
- Interlocked with the locking operation of door key cylinder, door lock actuators of all doors and fuel lid lock actuator are locked.

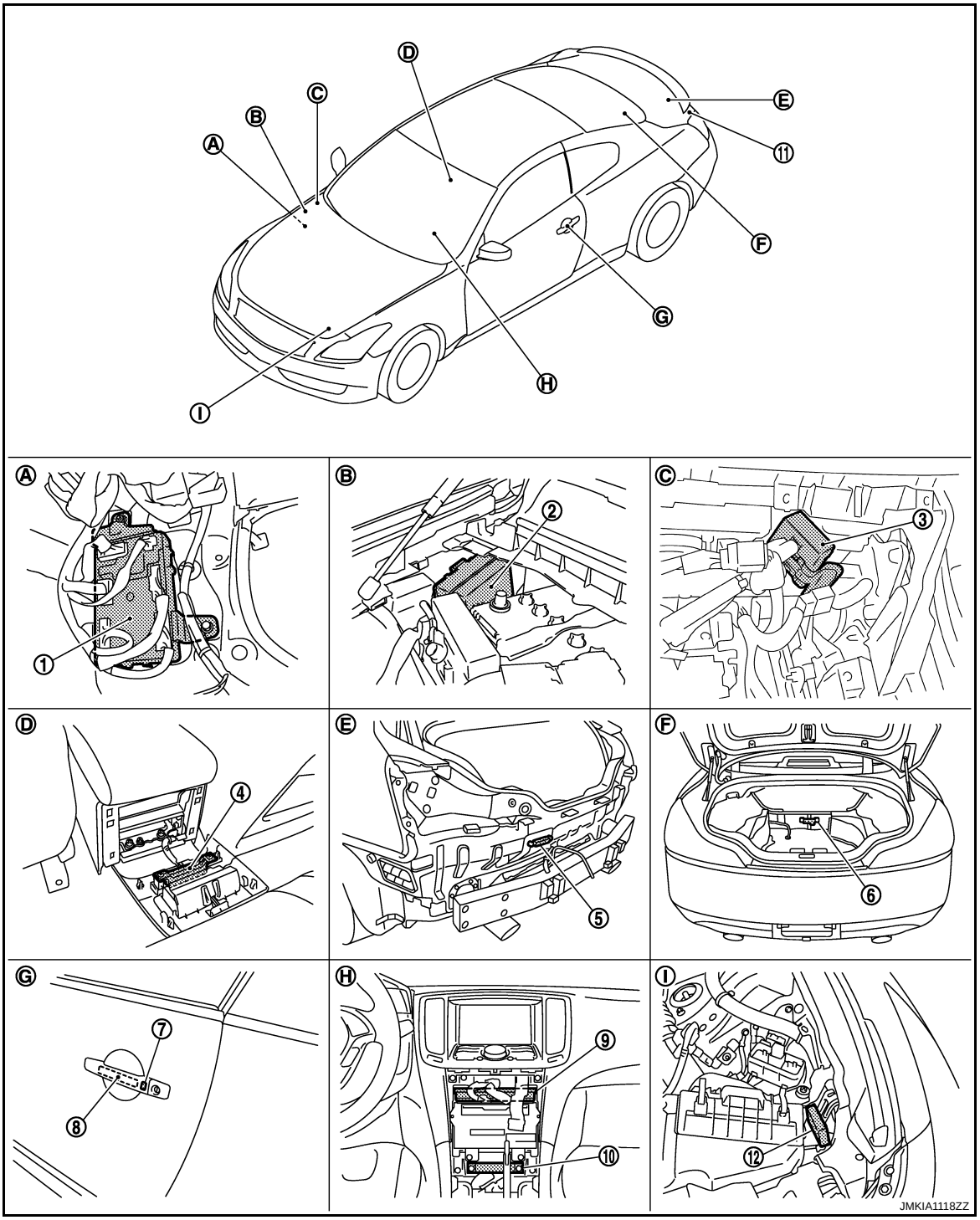
Selective Unlock Operation
- When door key cylinder is unlocked, door lock actuator driver side and fuel lid lock actuator are unlocked.
- When door key cylinder is unlocked for the second time within 5 seconds after the first operation, door lock actuators on all doors are unlocked.

Select unlock operation mode can be changed using “DOOR LOCK-UNLOCK SET” mode in “WORK SUPPORT”. Refer to DLK-51, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Key Reminder System
Refer to DLK-46, "System Description".

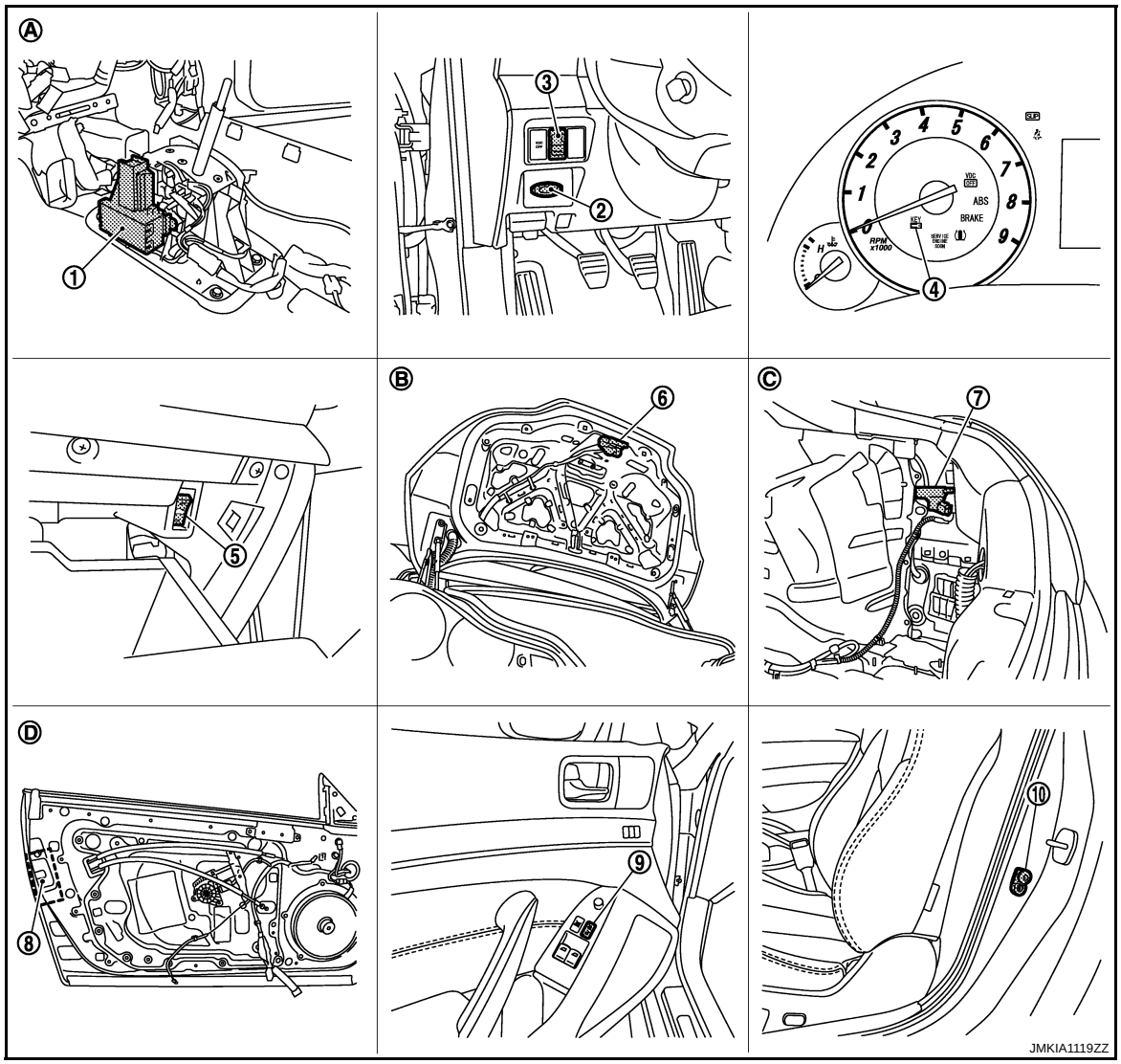
DOOR LOCK AND UNLOCK SWITCH : Component Parts Location

INFOID:0000000001683012



1. BCM M118,M119,M120,M121,M122,M123
2. IPDM E/R E5,E6,E7
3. Remote keyless entry receiver M104
4. Inside key antenna (console) M146
5. Outside key antenna (rear bumper) B63
6. Inside key antenna (trunk room) B49
7. Outside handle LH (request switch) D13
8. Outside handle LH (outside key antenna) D14
9. Unified meter and A/C AMP M66,M67
10. Inside key antenna (instrument center) M131
11. Rear combination lamp LH (Trunk lid opener request switch) B60
12. Intelligent Key warning buzzer (engine room) E57

A. Dash side lower (Passenger side).
B. Engine room dash panel (RH).
C. View with instrument assist lower panel removed.
D. View with console rear finisher removed.
E. View with rear bumper removed.
F. View with trunk front finisher removed.
G. View of driver side door LH.
H. Behind cluster lid C.
I. View with hood seal assembly removed.



1. A/T device (detention switch) M137
2. Key slot M22
3. Trunk lid opener switch M20
4. Combination meter (Key warning lamp) M53
5. Trunk opener cancel switch M105
6. Trunk lid lock assembly (trunk lid opener actuator) B303
7. Fuel lid lock actuator B242
8. Door lock assembly (door lock actuator) D15
9. Power window main switch (door lock unlock switch) D8
10. Driver side door switch B16

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D View with driver side door finisher removed.

DOOR LOCK AND UNLOCK SWITCH : Component Description

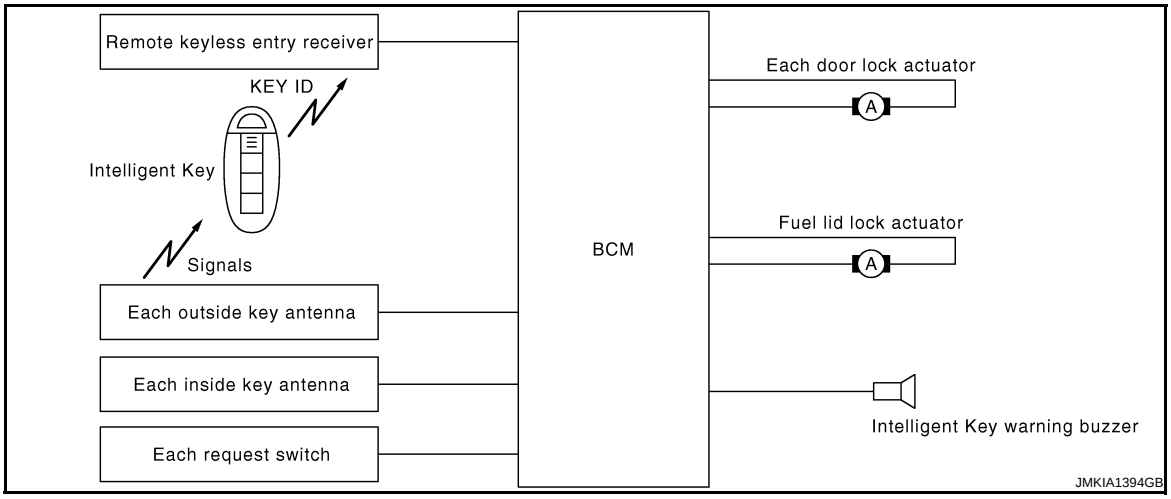
INFOID:0000000001683013

Item	Function
BCM	Controls the door lock function and room lamp function.
Door lock and unlock switch	Transmits lock or unlock signal to BCM.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Transmits door open/close condition to BCM.

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH : System Diagram

INFOID:0000000001683014



DOOR REQUEST SWITCH : System Description

INFOID:0000000001683015

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

- 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 communications between the Intelligent Key and the vehicle (BCM).

CAUTION:

The driver should always carry the Intelligent Key

- If an action that does not meet the operating conditions of the Intelligent Key system is taken, the buzzer goes on to inform the driver (Warning chime function).
- When a door lock is locked, unlocked or trunk open with request switch or remote controller button operation, the hazard lamps flash and the Intelligent Key warning buzzer or horn sounds (Hazard and buzzer/horn reminder function).
- The settings for each function can be changed with the CONSULT-III.
- 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 the CONSULT-III.

OPERATION DESCRIPTION/DOOR LOCK/UNLOCK

- 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 sends the door lock/unlock signal and sounds Intelligent Key buzzer warning (lock: 2 times, unlock: 1 time) at the same time as a reminder.

OPERATION CONDITION

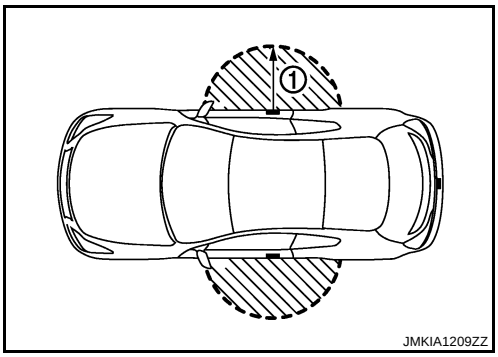
If the following conditions are not satisfied, door lock/unlock operation is not performed even if the request switch is operated.

Each request switch operation	Operation condition
Lock operation	• All doors are closed • Ignition switch is in OFF position • Intelligent Key is out of key slot • Intelligent Key is outside the vehicle • Intelligent Key is within outside key antenna detection area
Unlock Operation	• 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.

OUTSIDE KEY ANTENNA DETECTION AREA

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



SELECTIVE UNLOCK FUNCTION

When an LOCK signal is sent from door request switch (driver side or passenger side), all doors will be locked.
When an UNLOCK signal is sent from door request switch (driver side or passenger side) once, driver's door will be unlocked.
Then, if an UNLOCK signal is sent from door request switch (driver side and passenger side) again within 5 seconds, all other doors will be unlocked.

HAZARD AND BUZZER REMINDER FUNCTION

During lock, unlock, or trunk opening operation by each request switch, the hazard warning lamps and Intelligent Key warning buzzer will blink or honk as a reminder.
When doors are locked, unlocked by each request switch, IPDM E/R honks Intelligent Key warning buzzer as a reminder and transmits hazard request signal to BCM via CAN communication line.
BCM flashes hazard warning lamps as a reminder.

Operating function of hazard and buzzer reminder

Operation	Hazard warning lamp flash	Intelligent Key warning buzzer honk
Unlock	Once	Once
Lock	Twice	Twice

How to change hazard and buzzer reminder mode

With CONSULT-III

Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

AUTO DOOR LOCK FUNCTION

When all doors are locked, ignition switch is in OFF position and key switch is OFF (Intelligent Key is not inserted in key slot), doors are unlocked with door request switch
When BCM does not receive the following signals within 60 seconds, all doors are locked.
- Door switch is ON (door is opened)
- Door is locked
- Ignition switch is ON (ignition switch is pressed)
- Key switch is ON (Intelligent Key is inserted in key slot)

Auto door lock mode can be changed by “AUTO LOCK SET” mode in “WORK SUPPORT”. Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

ROOM LAMP OPERATION

When the following conditions are met:
- Condition of interior lamp switch is in DOOR position
- Door switch OFF (all the doors are closed)

Intelligent Key system turns on interior lamp (for 15 seconds) by receiving UNLOCK signal from door request switch. For detailed description, refer to INL-5, "System Description".

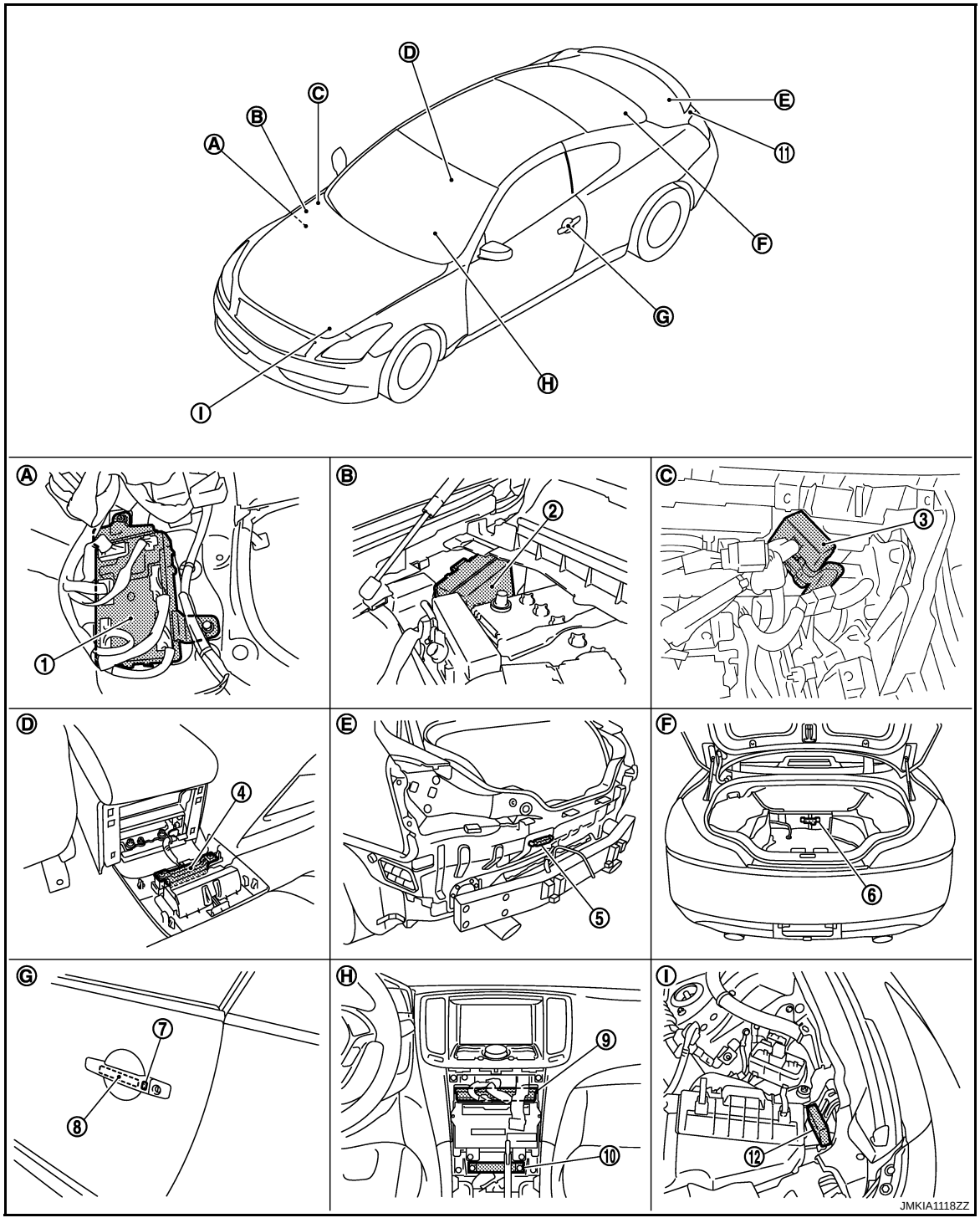
LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Door lock function	Intelligent Key	Key slot	Remote keyless entry receiver	Door switch	Door request switch (Driver, Passenger)	Door lock actuator	Inside key antenna	Outside key antenna (Driver, Passenger)	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamp	Push-button ignition switch
Door lock/unlock function by request switch	×	×	×	×	×	×	×	×		×	×		
Hazard and buzzer reminder function for door lock/unlock operation									×	×	×	×	
Key reminder function	×	×	×	×	×	×	×	×	×	×	×	×	
Selective unlock function by request switch (Driver side)	×				×	×	×	×		×	×		
Selective unlock function by request switch (Passenger side)	×				×	×	×	×		×	×		
Auto door lock function	×	×		×	×	×				×	×		×

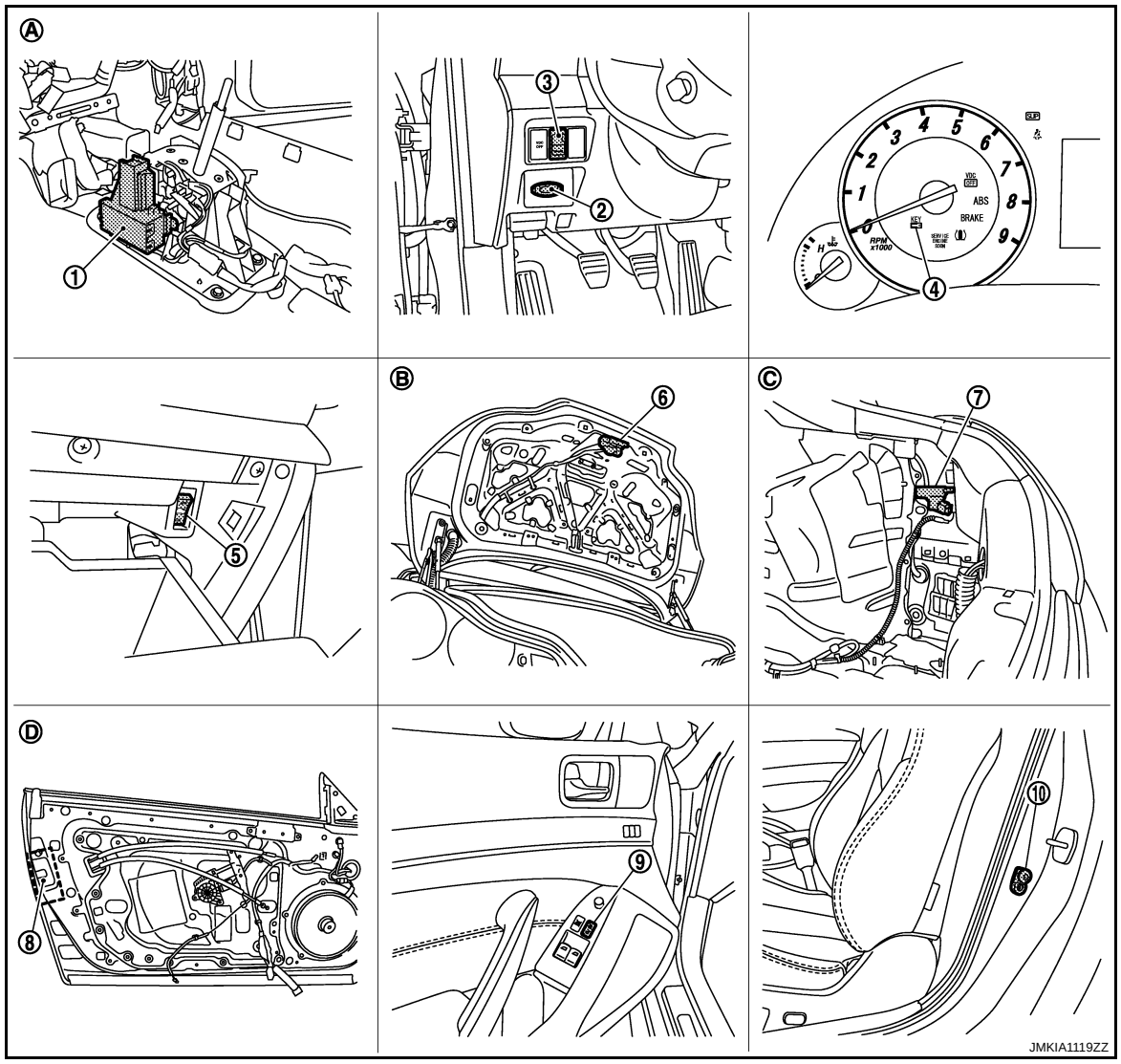
DOOR REQUEST SWITCH : Component Parts Location

INFOID:0000000001735255



1. BCM M118,M119,M120,M121,M122,M123
2. IPDM E/R E5,E6,E7
3. Remote keyless entry receiver M104
4. Inside key antenna (console) M146
5. Outside key antenna (rear bumper) B63
6. Inside key antenna (trunk room) B49
7. Outside handle LH (request switch) D13
8. Outside handle LH (outside key antenna) D14
9. Unified meter and A/C AMP M66,M67
10. Inside key antenna (instrument center) M131
11. Rear combination lamp LH (Trunk lid opener request switch) B60
12. Intelligent Key warning buzzer (engine room) E57

A. Dash side lower (Passenger side).
B. Engine room dash panel (RH).
C. View with instrument assist lower panel removed.
D. View with console rear finisher removed.
E. View with rear bumper removed.
F. View with trunk front finisher removed.
G. View of driver side door LH.
H. Behind cluster lid C.
I. View with hood seal assembly removed.



1. A/T device (detention switch) M137
2. Key slot M22
3. Trunk lid opener switch M20
4. Combination meter (Key warning lamp) M53
5. Trunk opener cancel switch M105
6. Trunk lid lock assembly (trunk lid opener actuator) B303
7. Fuel lid lock actuator B242
8. Door lock assembly (door lock actuator) D15
9. Power window main switch (door lock unlock switch) D8
10. Driver side door switch B16

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D View with driver side door finisher removed.

DOOR REQUEST SWITCH : Component Description

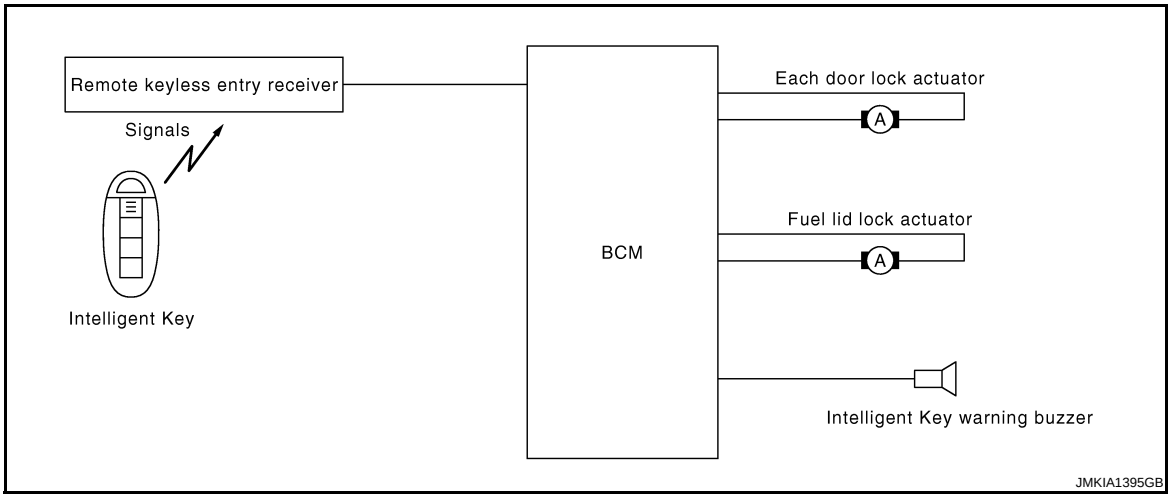
INFOID:0000000001683017

Item	Function
BCM	Controls the door lock function and room lamp function.
Door lock and unlock switch	Transmits lock or unlock signal to BCM.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Transmits door open/close condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Request switch	Transmits lock/unlock operation to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Outside key antenna	Detects if Intelligent Key is outside the vehicle.
Inside key antenna	Detects if Intelligent Key is inside the vehicle.
Fuel lid opener actuator	Performs lock/unlock of the fuel lid.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

INTELLIGENT KEY

INTELLIGENT KEY : System Diagram

INFOID:0000000001683018



INTELLIGENT KEY : System Description

INFOID:0000000001683019

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

OPERATION DESCRIPTION/DOOR LOCK/UNLOCK FUNCTION

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

OPERATION CONDITION

Remote controller operation	Operation condition	Operation
Lock	• All doors closed	All doors lock
Unlock	• Intelligent Key is out of key slot	All doors unlock

OPERATION AREA

- Operating Range

- To ensure the Intelligent Key works effectively, use within 80 cm range of each door, however the operable range may differ according to surroundings.

SELECTIVE UNLOCK FUNCTION

When an LOCK signal is transmitted from Intelligent Key, all doors will be locked.
When an UNLOCK signal is transmitted from Intelligent Key once, driver door will be unlocked.
Then, if an UNLOCK signal is transmitted from Intelligent Key again within 5 seconds, all other door will be unlocked.

HAZARD AND HORN REMINDER FUNCTION

When doors are locked or unlocked by Intelligent Key, BCM flashes hazard warning lamps as a reminder and transmits horn chirp signal to IPDM E/R. IPDM E/R sounds horn as a reminder.
The hazard and horn reminder has a horn chirp mode (C mode) and a non-horn chirp mode (S mode).

Operating function of hazard and horn reminder

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

Hazard and horn reminder does not operate if any door switch is ON (any door is OPEN).

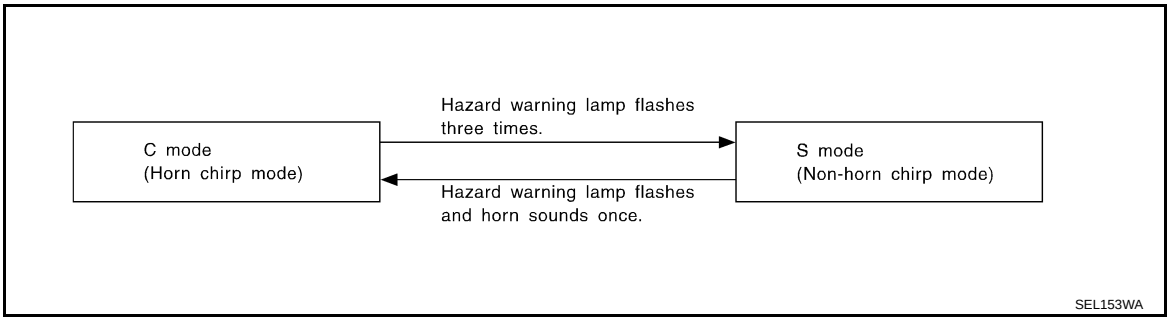
How to change hazard and horn reminder mode

With CONSULT-III

Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Without CONSULT-III

When LOCK and UNLOCK signals are transmitted from the Intelligent Key for more than 2 seconds at the same time, the hazard and horn reminder mode is changed and hazard warning lamp flashes and horn sounds as follows:



AUTO DOOR LOCK FUNCTION

Auto Door Lock Function

When all doors are locked, ignition switch is OFF (ignition switch is not pressed) and key switch is OFF (Intelligent Key is not inserted in key slot), doors are unlocked with Intelligent Key button. When BCM does not receive the following signals within 60 seconds, all doors are locked.

- Door switch is ON (door is opened)
- Door is locked
- Ignition switch is ON
- Key switch is ON (Intelligent Key is inserted in key slot)

Auto door lock mode can be changed by “AUTO LOCK SET” mode in “WORK SUPPORT”. Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

PANIC ALARM FUNCTION

When ignition switch is OFF (ignition switch is not pressed) and key switch is OFF (Intelligent Key is not inserted in key slot), BCM receives PANIC ALARM signal from Intelligent Key.
BCM turns on and off headlamp intermittently and transmits theft warning horn signal to IPDM E/R. Then, IPDM E/R turns on and off horn intermittently.
The headlamp flashes and the horn sounds intermittently.
The alarm automatically turns off:

- After 25 seconds
- When BCM receives any signal from Intelligent Key

Panic alarm function mode can be changed by “PANIC ALARM SET” mode in “WORK SUPPORT”. Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

KEYLESS POWER WINDOW DOWN (OPEN) FUNCTION

All power windows open when the unlock button on Intelligent Key is activated and kept pressed for more than 3 seconds with the ignition switch OFF. The windows keep opening if the unlock button is continuously pressed.

The power window opening stops when the following operations are performed:

- When the unlock button is kept pressed more than 15 seconds.
- When the ignition switch is turned ON while the power window opening is operated.
- When the unlock button is released.

While retained power operation activates, keyless power window down (open) function cannot be operated.

Keyless power window down operation mode can be changed by “PW DOWN SET” mode in “WORK SUPPORT”. Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

ROOM LAMP ILLUMINATION OPERATION

When the following conditions are met:

- Condition of interior lamp switch is in DOOR position
- Door switch OFF (all the doors are closed)

Intelligent Key system turns on interior lamp (for 15 seconds) by receiving UNLOCK signal from Intelligent Key. For detailed description, refer to INL-5, "System Description".

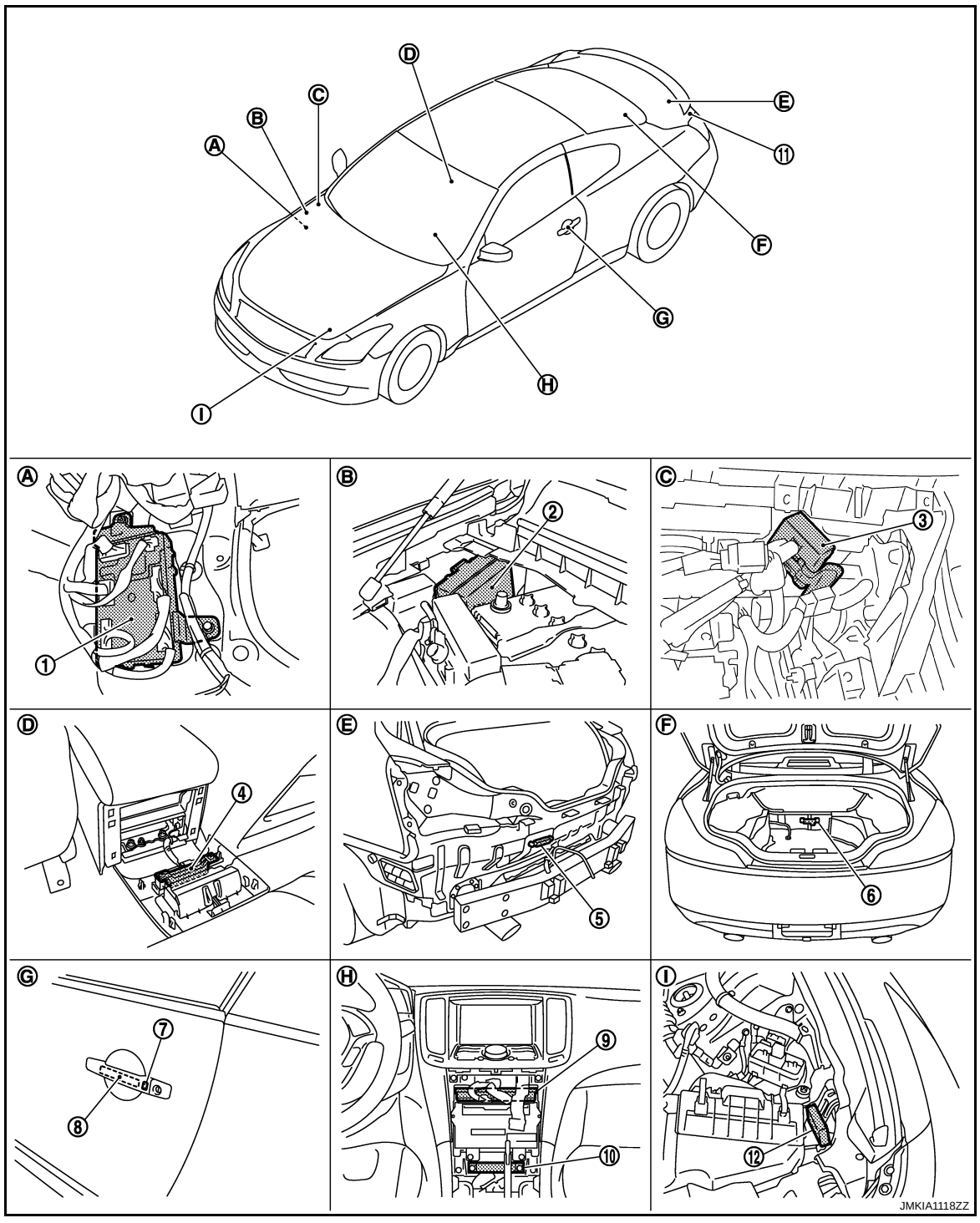
LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Remote keyless entry functions	Intelligent Key	Key slot	Door request switch (Driver, Passenger)	Door switch	Door lock actuator	Intelligent Key warning buzzer	CAN communication system	BCM	Combination meter	Hazard warning lamp	Horn	IPDM E/R	Head lamp
Door lock/unlock function by remote control button	×	×		×	×		×	×					
Hazard and horn reminder function	×					×	×	×	×	×	×	×	
Selective unlock function	×			×	×		×	×					
Keyless power window down (open) function	×	×					×	×					
Auto door lock function	×	×		×			×	×					
Panic alarm function	×		×				×	×			×	×	×

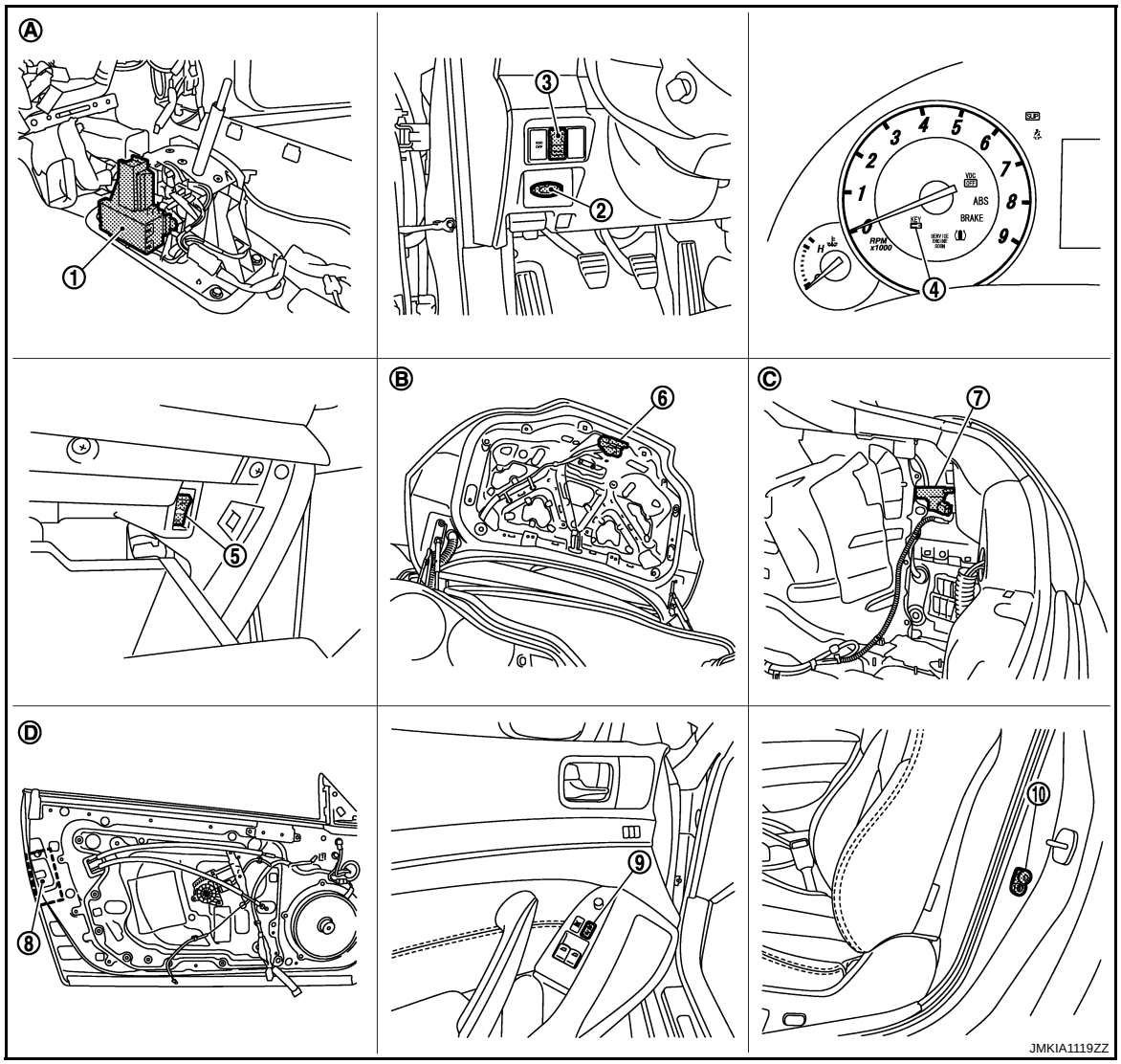
INTELLIGENT KEY : Component Parts Location

INFOID:0000000001825947



1. BCM M118,M119,M120,M121,M122,M123
2. IPDM E/R E5,E6,E7
3. Remote keyless entry receiver M104
4. Inside key antenna (console) M146
5. Outside key antenna (rear bumper) B63
6. Inside key antenna (trunk room) B49
7. Outside handle LH (request switch) D13
8. Outside handle LH (outside key antenna) D14
9. Unified meter and A/C AMP M66,M67
10. Inside key antenna (instrument center) M131
11. Rear combination lamp LH (Trunk lid opener request switch) B60
12. Intelligent Key warning buzzer (engine room) E57

A. Dash side lower (Passenger side).
B. Engine room dash panel (RH).
C. View with instrument assist lower panel removed.
D. View with console rear finisher removed.
E. View with rear bumper removed.
F. View with trunk front finisher removed.
G. View of driver side door LH.
H. Behind cluster lid C.
I. View with hood seal assembly removed.



1. A/T device (detention switch) M137
2. Key slot M22
3. Trunk lid opener switch M20
4. Combination meter (Key warning lamp) M53
5. Trunk opener cancel switch M105
6. Trunk lid lock assembly (trunk lid opener actuator) B303
7. Fuel lid lock actuator B242
8. Door lock assembly (door lock actuator) D15
9. Power window main switch (door lock unlock switch) D8
10. Driver side door switch B16

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D View with driver side door finisher removed.

INTELLIGENT KEY : Component Description

INFOID:0000000001683021

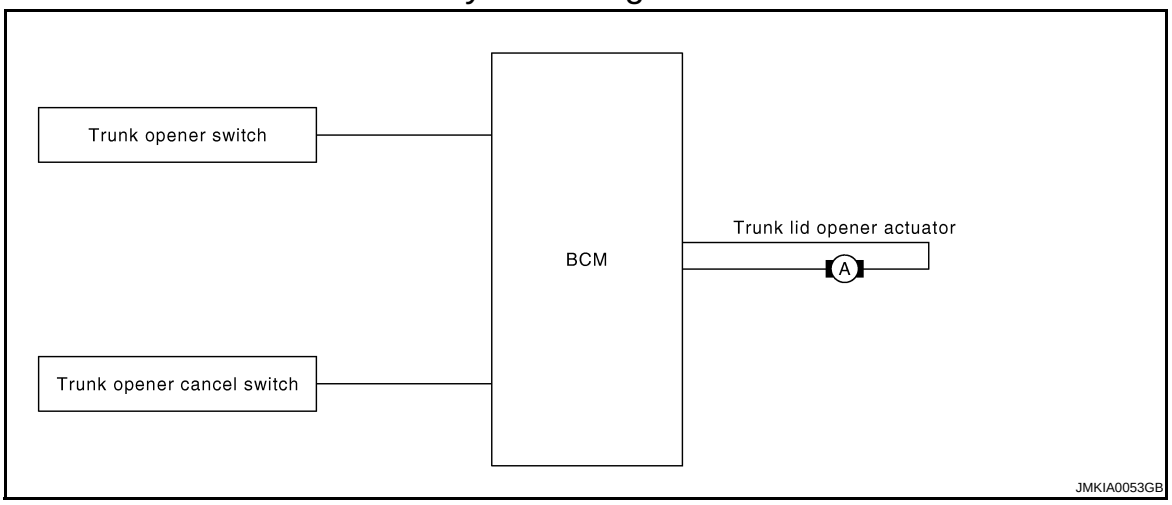
Item	Function
BCM	Controls the door lock function and room lamp function.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Fuel lid opener actuator	Performs lock/unlock of the fuel lid.
Intelligent key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

TRUNK OPEN FUNCTION

TRUNK LID OPENER SWITCH

TRUNK LID OPENER SWITCH : System Diagram

INFOID:0000000001683022



TRUNK LID OPENER SWITCH : System Description

INFOID:0000000001683023

Switch	Input/output signal to BCM	BCM function	Actuator
Trunk lid opener switch	Trunk open signal	Trunk open control	Trunk lid opener actuator
Trunk lid opener cancel switch			
Door key cylinder switch			

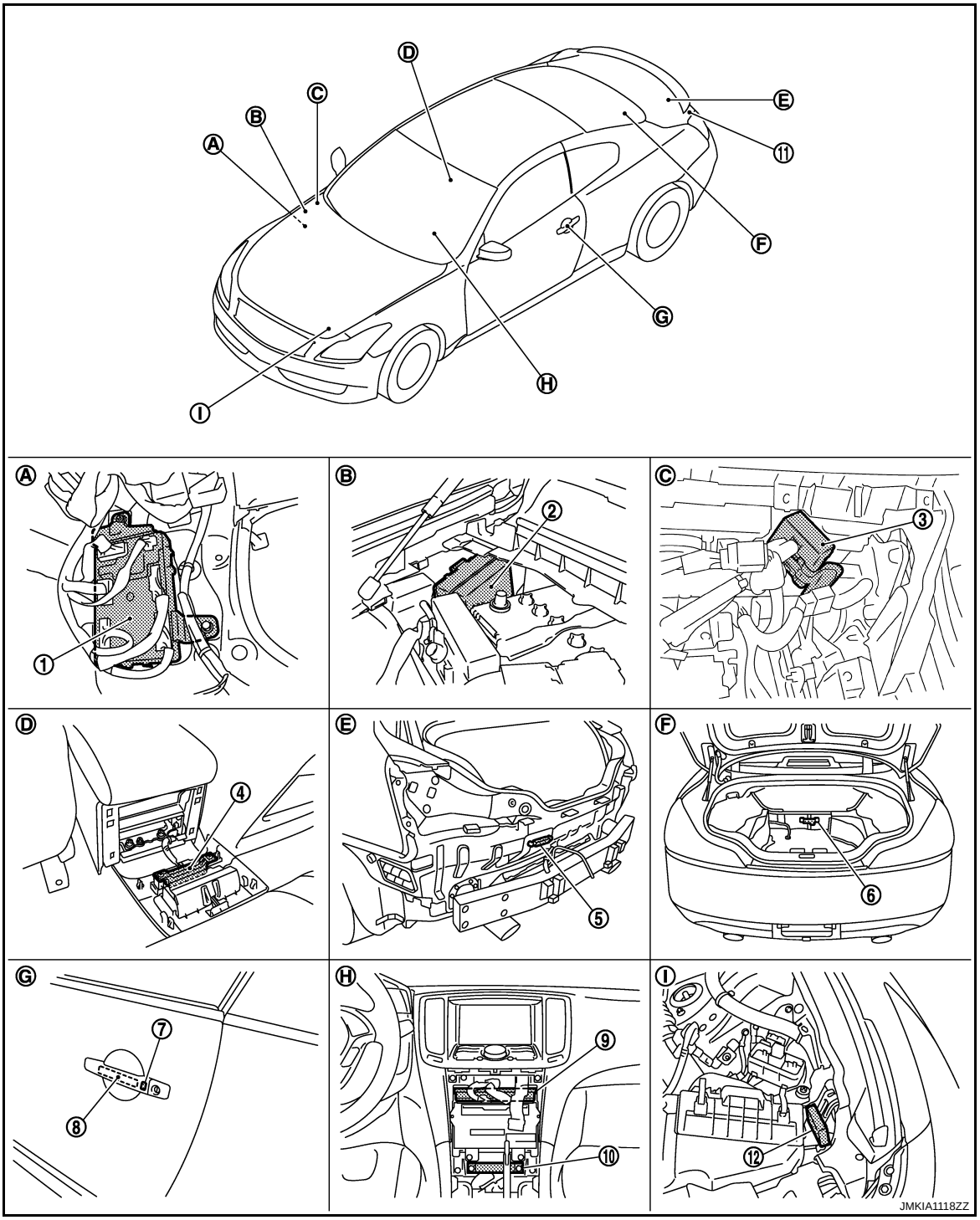
TRUNK LID OPENER OPERATION

When trunk lid opener switch is ON, BCM opens trunk opener actuator.
BCM can open trunk lid opener actuator when
- vehicle speed is less than 5 km/h (3 MPH)
- vehicle security system is in disarmed or pre-armed phase

BCM does not open trunk lid opener actuator when
- trunk lid opener cancel switch is OFF (CANCEL)
- vehicle speed is more than 5 km/h (3 MPH)
- vehicle security system is in armed or alarm phase

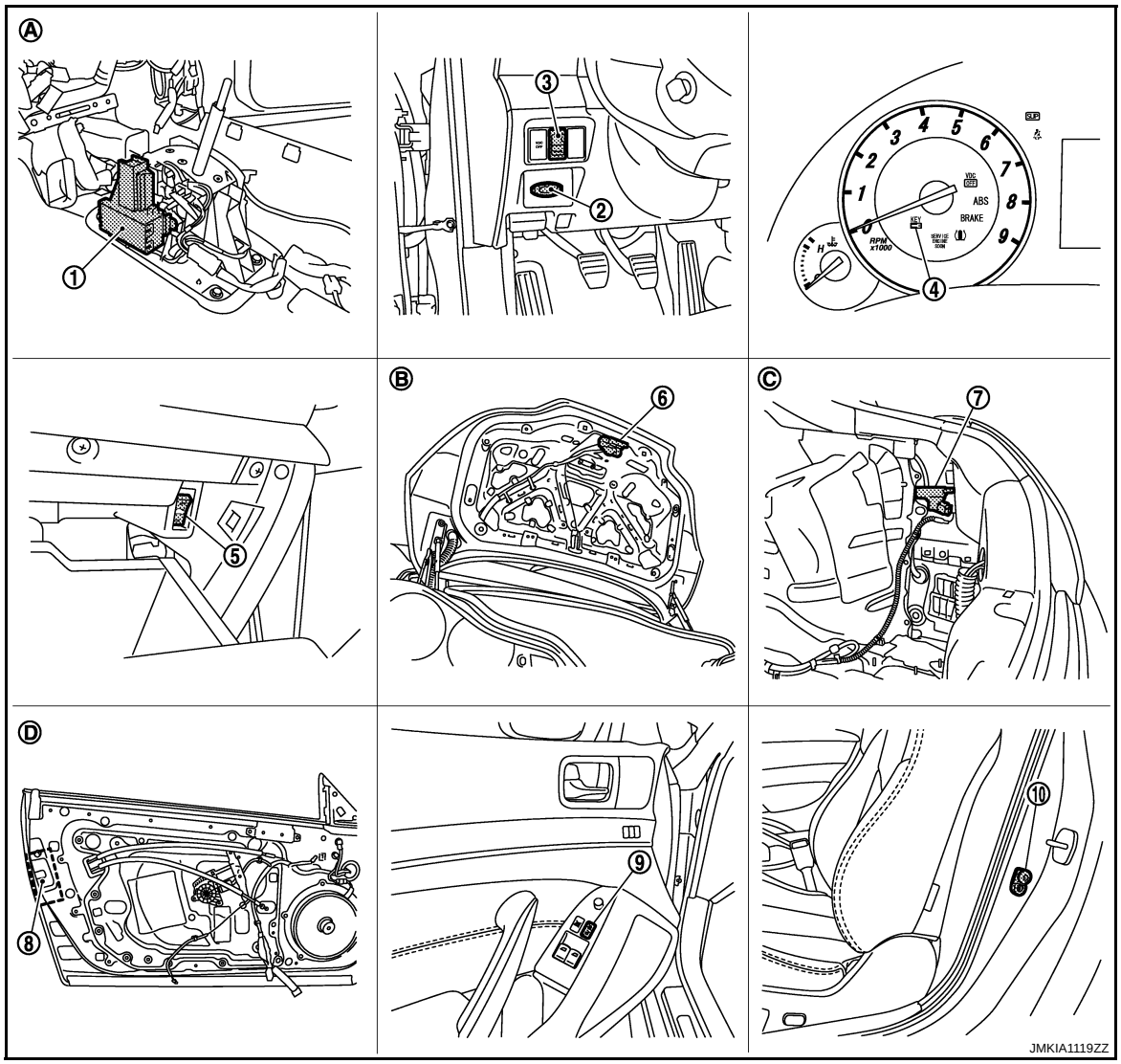
TRUNK LID OPENER SWITCH : Component Parts Location

INFOID:0000000001735257



1. BCM M118,M119,M120,M121,M122,M123
2. IPDM E/R E5,E6,E7
3. Remote keyless entry receiver M104
4. Inside key antenna (console) M146
5. Outside key antenna (rear bumper) B63
6. Inside key antenna (trunk room) B49
7. Outside handle LH (request switch) D13
8. Outside handle LH (outside key antenna) D14
9. Unified meter and A/C AMP M66,M67
10. Inside key antenna (instrument center) M131
11. Rear combination lamp LH (Trunk lid opener request switch) B60
12. Intelligent Key warning buzzer (engine room) E57

A. Dash side lower (Passenger side).
B. Engine room dash panel (RH).
C. View with instrument assist lower panel removed.
D. View with console rear finisher removed.
E. View with rear bumper removed.
F. View with trunk front finisher removed.
G. View of driver side door LH.
H. Behind cluster lid C.
I. View with hood seal assembly removed.



1. A/T device (detention switch) M137
2. Key slot M22
3. Trunk lid opener switch M20
4. Combination meter (Key warning lamp) M53
5. Trunk opener cancel switch M105
6. Trunk lid lock assembly (trunk lid opener actuator) B303
7. Fuel lid lock actuator B242
8. Door lock assembly (door lock actuator) D15
9. Power window main switch (door lock unlock switch) D8
10. Driver side door switch B16

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D View with driver side door finisher removed.

TRUNK LID OPENER SWITCH : Component Description

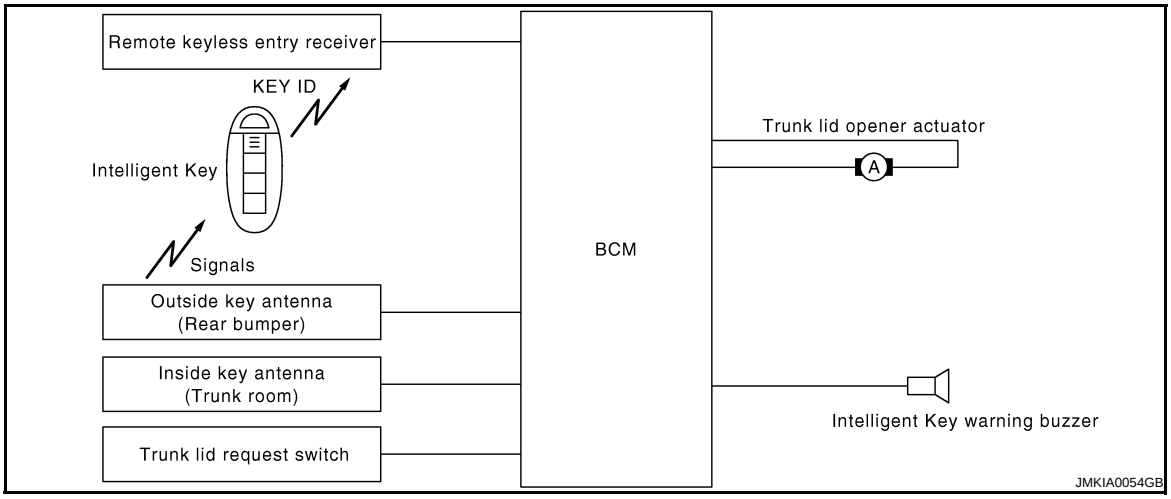
INFOID:0000000001683025

Item	Function
BCM	Controls trunk open operation to BCM.
Trunk lid opener switch	Transmits trunk open operation to BCM.
Trunk lid opener actuator	Opens the trunk with the open signal from BCM
Trunk lid opener cancel switch	Cancels the trunk open operation.

TRUNK REQUEST SWITCH

TRUNK REQUEST SWITCH : System Diagram

INFOID:0000000001683026



TRUNK REQUEST SWITCH : System Description

INFOID:0000000001683027

Only when pressing the request switch, it is possible to open the trunk by carrying the Intelligent Key.

- The Intelligent Key system makes it possible to open the trunk (trunk open function) by carrying the Intelligent Key which operates based on the results of electronic ID verification using two-way communications between the Intelligent Key and the vehicle. (BCM)

CAUTION:

The driver should always carry the Intelligent Key

- If an action that does not meet the operating conditions of the Intelligent Key system is taken, the buzzer goes on to inform the driver. (Warning chime functions)
- When trunk opens with request switch or remote controller button operation, the hazard lamps flash and the Intelligent Key warning buzzer or horn sounds (Hazard and buzzer/horn reminder function).
- The settings for each function can be changed with the CONSULT-III.
- 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 the CONSULT-III.

OPERATION DESCRIPTION/TRUNK OPEN

- When the BCM detects that trunk open request switch is pressed, it starts the outside key antenna (trunk room) and inside key antenna corresponding to the pressed trunk open request switch and transmits the request signal to the Intelligent Key. Then, it checks that the Intelligent Key is near the trunk.
- If the Intelligent Key is within the outside key antenna (trunk room) 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 the trunk open request signal and sounds Intelligent Key warning buzzer 4 times at the same time.
- When BCM receives the trunk open request signal, it operates the trunk lid opener actuator and opens the trunk.

OPERATION CONDITION

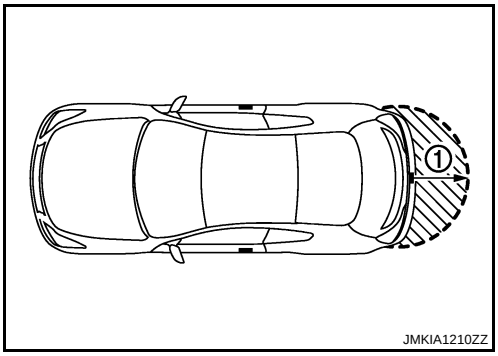
If the following conditions are not satisfied, trunk open operation is not performed even if the request switch is operated.

Each request switch operation	Operation condition
Trunk open operation	• Intelligent Key is within outside key antenna (trunk room) detection area* • Trunk cancel switch is ON • Key reminder functions operate (trunk)

*: 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.

OUTSIDE KEY ANTENNA DETECTION AREA

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



KEY REMINDER FUNCTION

Key remainder function	Operation condition	Operation
Trunk is closed	Right after trunk is closed under the following conditions • Intelligent Key is inside trunk room • All doors are closed • All doors are locked	• 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 will be perform at these cases.

CAUTION:

- **The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function will 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.**
- **When the key reminder function is operated when the trunk is opened/closed and the buzzers sound, if the following operations are performed, the key reminder function is cleared and buzzer sounds are stopped.**

- Remote controller door lock button operation of Intelligent Key
- Remote controller door unlock button operation of Intelligent Key
- When the trunk is closed, the Intelligent Key is not inside the vehicle
- When any door is open

BUZZER REMINDER FUNCTION

During trunk opening operation by request switch, the Intelligent Key warning buzzer will honk as a reminder. When trunk open by each request switch, IPDM E/R honks Intelligent Key warning buzzer as a reminder.

Operating function of buzzer reminder

Operation	Intelligent Key warning buzzer honk
Trunk open	Fourth

How to change buzzer reminder mode

With CONSULT-III

Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

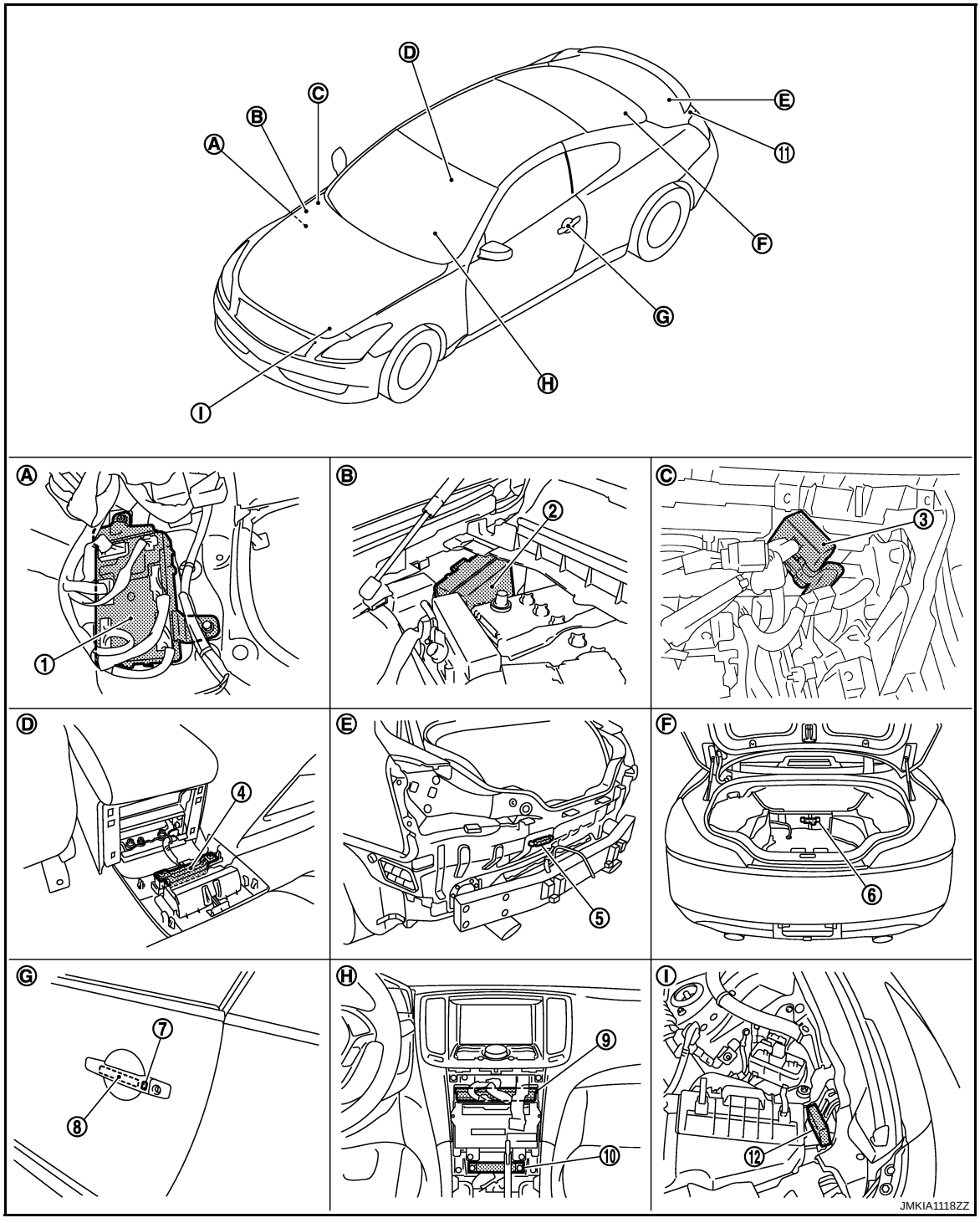
LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Trunk open function	Intelligent Key	Key slot	Remote keyless entry receiver	Door switch	Trunk room lamp switch	Trunk opener request switch	Trunk lid opener actuator	Inside key antenna	Outside key antenna (Trunk)	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamp	Trunk lid opener cancel switch
Trunk open function by the trunk opener request switch	×	×	×		×	×	×	×	×		×	×		×
Buzzer reminder for trunk open operation										×	×	×		
Key reminder function	×	×	×	×				×	×	×	×	×	×	

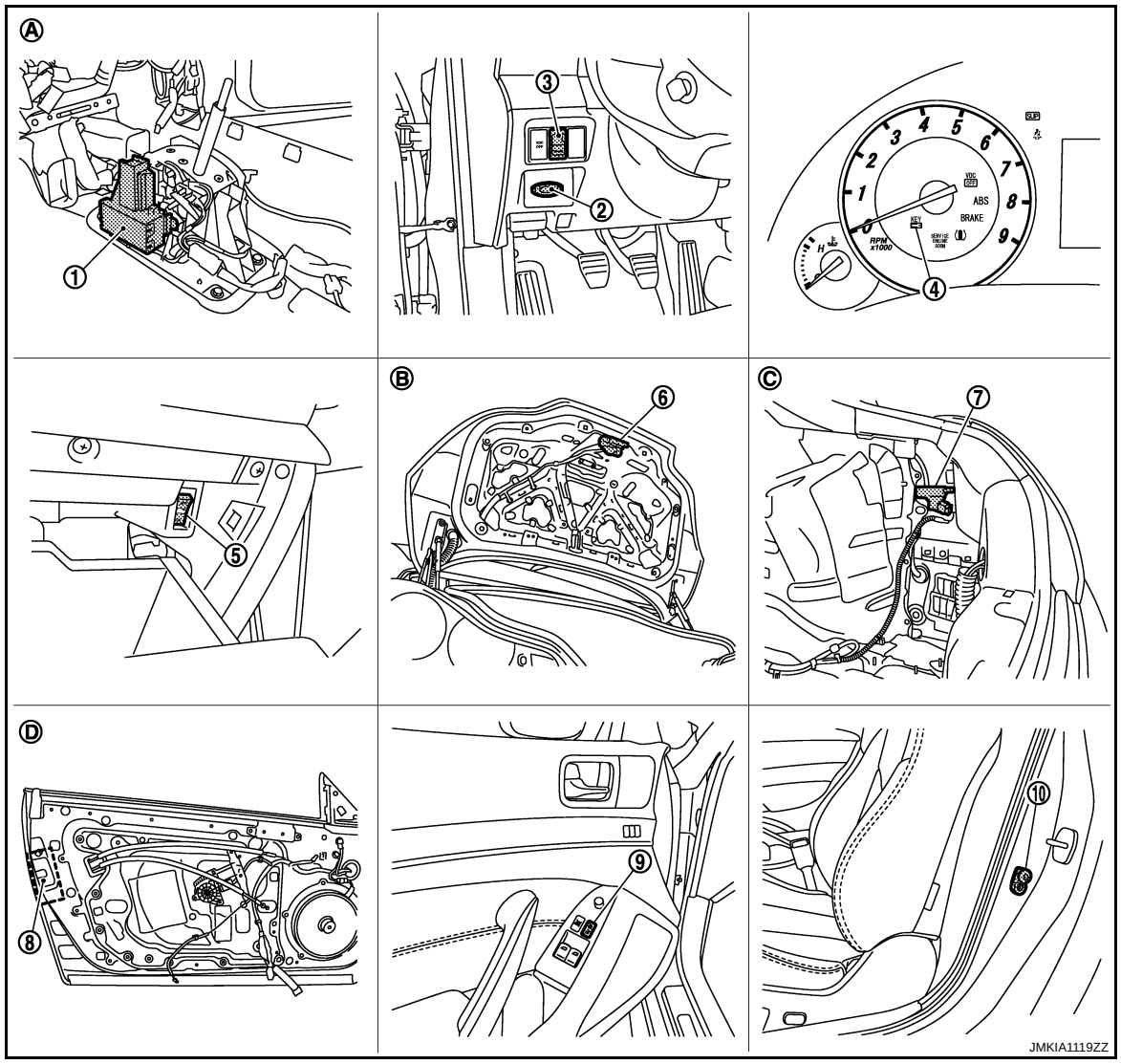
TRUNK REQUEST SWITCH : Component Parts Location

INFOID:0000000001735258



1. BCM M118,M119,M120,M121,M122,M123
2. IPDM E/R E5,E6,E7
3. Remote keyless entry receiver M104
4. Inside key antenna (console) M146
5. Outside key antenna (rear bumper) B63
6. Inside key antenna (trunk room) B49
7. Outside handle LH (request switch) D13
8. Outside handle LH (outside key antenna) D14
9. Unified meter and A/C AMP M66,M67
10. Inside key antenna (instrument center) M131
11. Rear combination lamp LH (Trunk lid opener request switch) B60
12. Intelligent Key warning buzzer (engine room) E57

A. Dash side lower (Passenger side).
B. Engine room dash panel (RH).
C. View with instrument assist lower panel removed.
D. View with console rear finisher removed.
E. View with rear bumper removed.
F. View with trunk front finisher removed.
G. View of driver side door LH.
H. Behind cluster lid C.
I. View with hood seal assembly removed.



1. A/T device (detention switch) M137
2. Key slot M22
3. Trunk lid opener switch M20
4. Combination meter (Key warning lamp) M53
5. Trunk opener cancel switch M105
6. Trunk lid lock assembly (trunk lid opener actuator) B303
7. Fuel lid lock actuator B242
8. Door lock assembly (door lock actuator) D15
9. Power window main switch (door lock unlock switch) D8
10. Driver side door switch B16

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D View with driver side door finisher removed.

TRUNK REQUEST SWITCH : Component Description

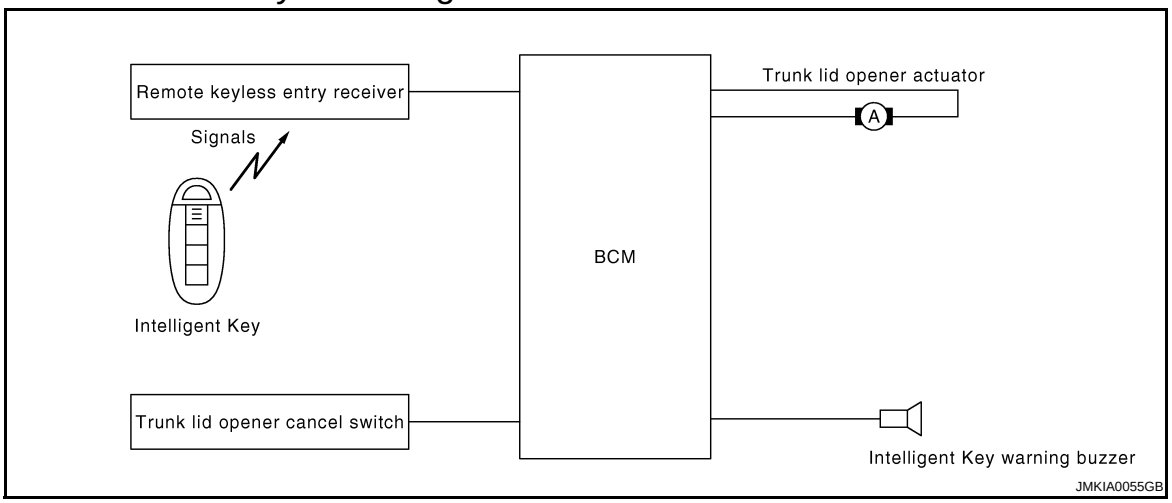
INFOID:0000000001683029

Item	Function
BCM	Controls trunk open function.
Trunk lid opener actuator	Transmits trunk open operation to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Trunk request switch	Transmits trunk open operation to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Outside key antenna	Detects if Intelligent Key is outside the vehicle.
Inside key antenna	Detects if Intelligent Key is inside the vehicle.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

INTELLIGENT KEY

INTELLIGENT KEY : System Diagram

INFOID:0000000001683030



INTELLIGENT KEY : System Description

INFOID:0000000001683031

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

OPERATION DESCRIPTION/TRUNK OPEN FUNCTION

- 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.

OPERATION CONDITION

Remote controller operation	Operation condition	Operation
Trunk open	• Press and hold the trunk open button for 0.5 second or more	Trunk open

OPERATION AREA

- Operating Range
- To ensure the Intelligent Key works effectively, use within 80 cm range of each door, however the operable range may differ according to surroundings.

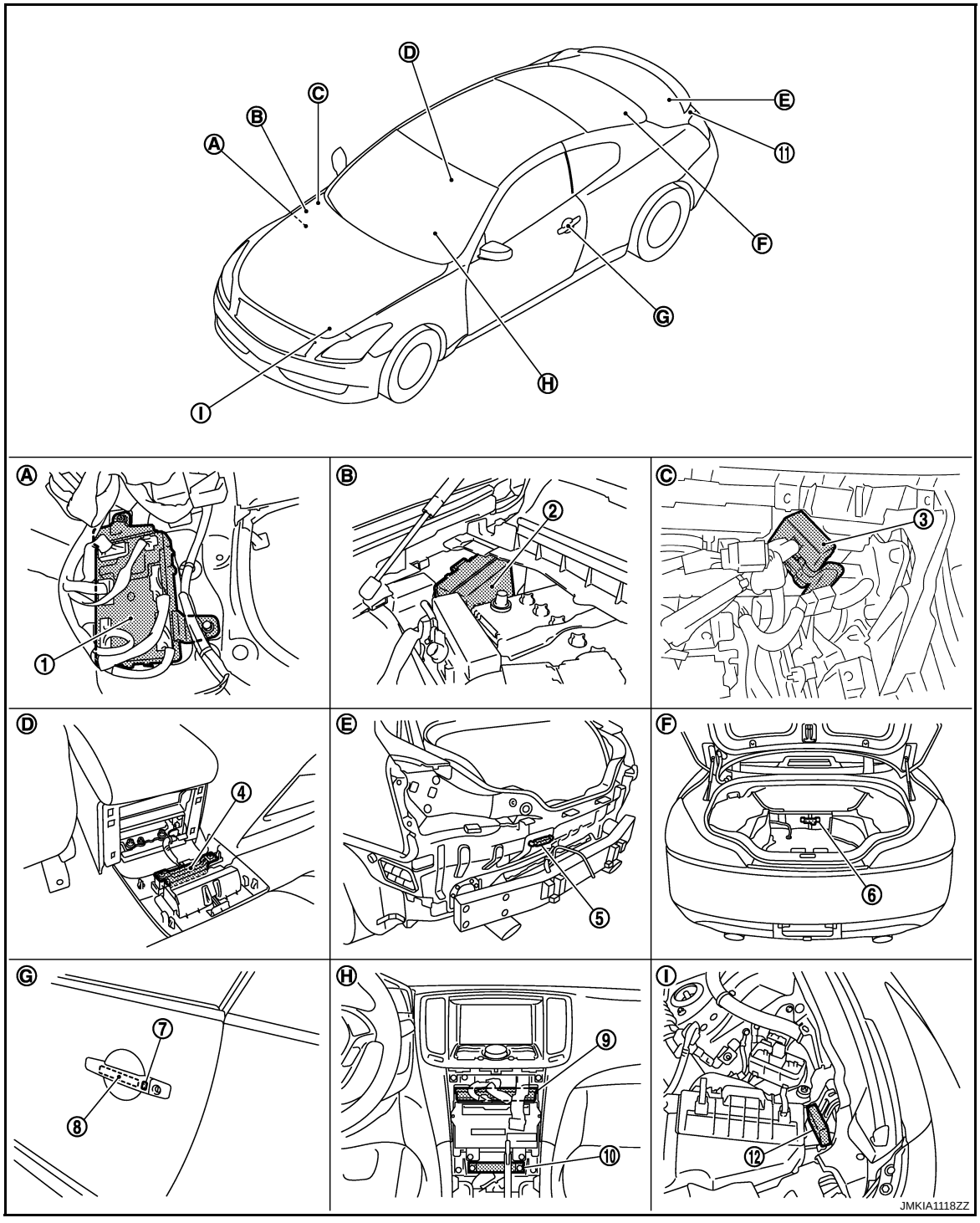
LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Remote keyless entry functions	Intelligent Key	Key slot	Trunk room lamp switch	Trunk lid opener actuator	Intelligent Key warning buzzer	CAN communication system	BCM	Combination meter	Hazard warning lamp	Horn	IPDM E/R	Head lamp
Trunk open function by remote control button	×	×	×	×		×	×					
Hazard and horn reminder function	×				×	×	×	×	×	×	×	

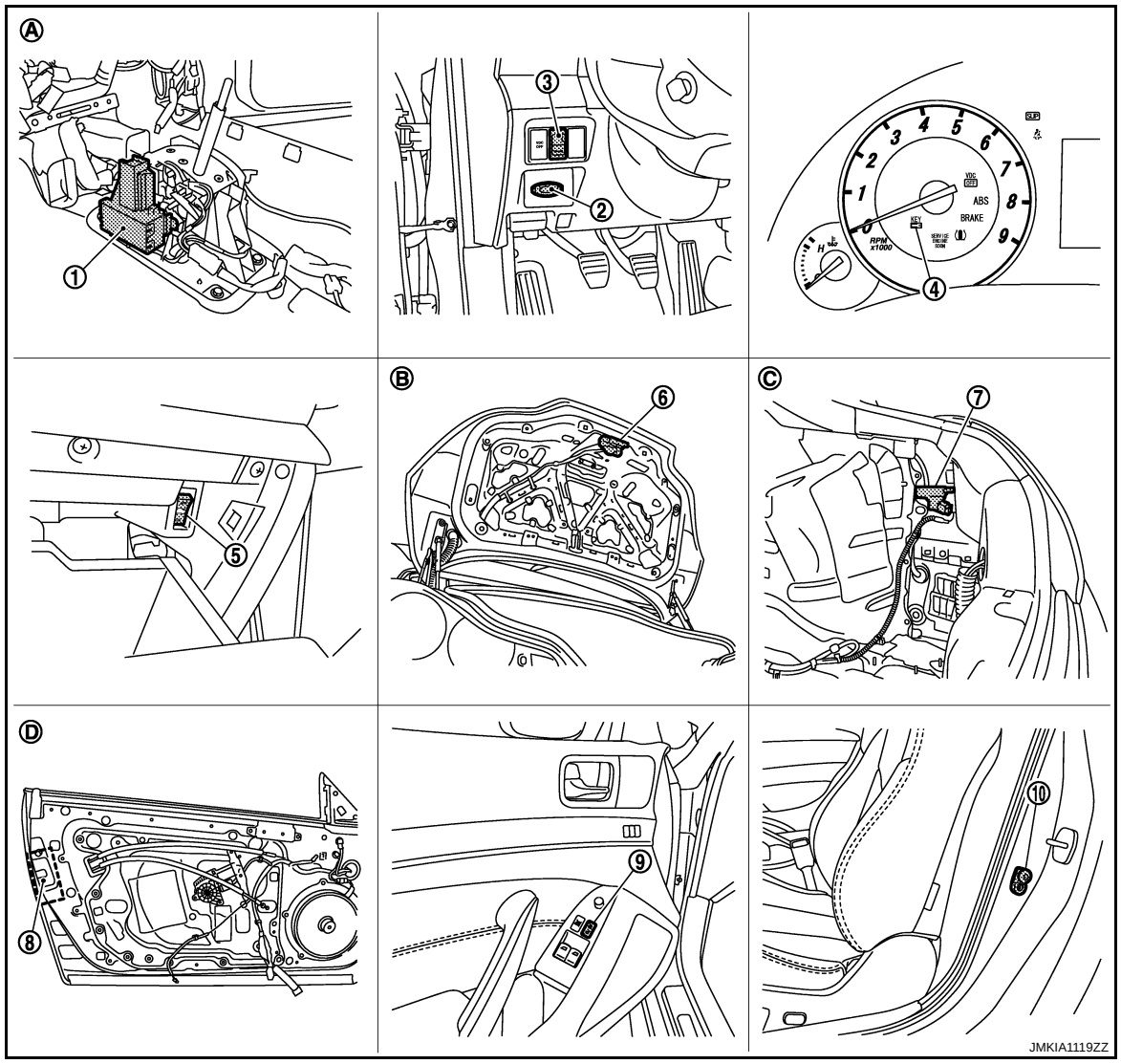
INTELLIGENT KEY : Component Parts Location

INFOID:0000000001826419



1. BCM M118,M119,M120,M121,M122,M123
2. IPDM E/R E5,E6,E7
3. Remote keyless entry receiver M104
4. Inside key antenna (console) M146
5. Outside key antenna (rear bumper) B63
6. Inside key antenna (trunk room) B49
7. Outside handle LH (request switch) D13
8. Outside handle LH (outside key antenna) D14
9. Unified meter and A/C AMP M66,M67
10. Inside key antenna (instrument center) M131
11. Rear combination lamp LH (Trunk lid opener request switch) B60
12. Intelligent Key warning buzzer (engine room) E57

A. Dash side lower (Passenger side).
B. Engine room dash panel (RH).
C. View with instrument assist lower panel removed.
D. View with console rear finisher removed.
E. View with rear bumper removed.
F. View with trunk front finisher removed.
G. View of driver side door LH.
H. Behind cluster lid C.
I. View with hood seal assembly removed.



1. A/T device (detention switch) M137
2. Key slot M22
3. Trunk lid opener switch M20
4. Combination meter (Key warning lamp) M53
5. Trunk opener cancel switch M105
6. Trunk lid lock assembly (trunk lid opener actuator) B303
7. Fuel lid lock actuator B242
8. Door lock assembly (door lock actuator) D15
9. Power window main switch (door lock unlock switch) D8
10. Driver side door switch B16

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D View with driver side door finisher removed.

INTELLIGENT KEY : Component Description

INFOID:0000000001683033

Item	Function
BCM	Controls trunk open function.
Trunk lid opener actuator	Opens the trunk with the open signal from BCM.
Remote keyless entry receiver	Receives trunk open signal from the Intelligent Key, and then transmits to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

WARNING FUNCTION

System Description

INFOID:0000000001683034

OPERATION DESCRIPTION

The warning functions are as follows and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, KEY warning lamp, key slot illumination and combination meter display in combination meter.

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

OPERATION CONDITION

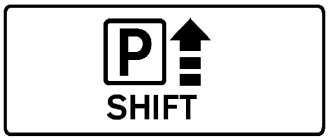
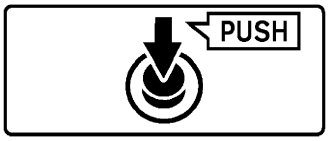
Once the following condition from below is established, alert or warning will be executed.

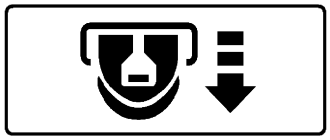
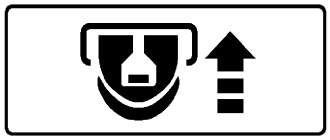
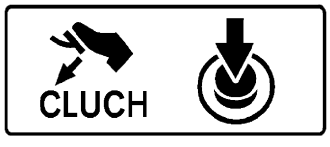
Warning/Information functions		Operation procedure
Intelligent Key system malfunction		When a malfunction is detected on BCM, “KEY” warning lamp will illuminate.
OFF position warning	For internal	• Ignition switch: ACC position. • Door switch (driver side): ON (Door is open).
	For external	OFF position warning (For internal) is in active mode, driver side door has been closed. **NOTE:** OFF position (For external) active only when each of the sequence has occurred as below: P position warning → ACC warning → OFF position warning (For internal) → OFF position warning (For internal)
P position warning		• Shift position: Except P position • Engine is running to stopped (Ignition switch is ON to OFF)
ACC warning		• During P position warning is in active mode, shift position has changed to P position. • Ignition switch: Except OFF position.
Take away warning	Door is open to close	• Ignition switch: Except LOCK position. • Door switch: ON to OFF (Door is open to close). • Intelligent Key cannot be detected inside the vehicle.
	Door is open	• Door switch: ON (Door is open) • Key ID verification every 5 seconds when registered Intelligent Key cannot be detected inside the vehicle.
	Push-ignition switch operation	• Ignition switch: Except LOCK position. • Press ignition switch. • Intelligent Key cannot be detected inside the vehicle.
	Take away through window	• Engine is running. • Key ID verification every 30 seconds when registered Intelligent Key cannot be detected inside the vehicle. • After vehicle speed verification, the registered Intelligent Key cannot be detect inside the vehicle.
	Intelligent Key is removed from key slot	• When Intelligent Key is removed from key slot, Intelligent Key cannot be detected inside the vehicle.

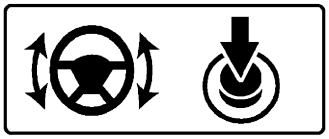
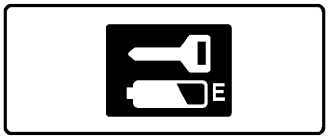
Warning/Information functions		Operation procedure
Door lock operation warning	Request switch operation	When request switch is pushed (lock operation) under the following conditions. • Door switch: ON (Any door is open). • Intelligent Key is inside vehicle.
	Intelligent Key button operation	When Intelligent Key button is pushed (lock operation) under the following conditions. • Door switch: ON (Any door is open). • For 3 seconds after Intelligent Key is removed from key slot.
Key warning		• Ignition switch is OFF position. • Driver side door switch: ON (Driver side door is open). • Intelligent Key is inserted in key slot.
Intelligent Key insert information		• Door switch: ON to OFF (Door is open to close). • Ignition switch: OFF to ON position. • Intelligent Key is out of key slot. • Intelligent Key cannot be detected inside the vehicle.
Engine start information	Ignition switch is in ON position	• Ignition switch: ON position. • Shift position: P position • Engine is stopped
	Ignition switch is in any position except ON	• Ignition switch: Except ON position. • Shift position: P position • Intelligent Key is inserted in key slot. • Intelligent Key can be detected inside the vehicle.
Steering lock information		When steering lock cannot be released after ignition switch is turned ON.
Intelligent Key low battery warning		When Intelligent Key battery is low, BCM is detected after ignition switch is turned ON.
Key ID warning		When registered intelligent Key cannot be detected inside the vehicle after ignition switch is turned ON.

WARNING METHOD

The following table signals the alarm or warning methods with chime.
Meter display, “KEY” indicator or key slot illumination when the warning conditions are met.

Warning/Information functions		“KEY” warning lamp	Combination meter display	Key slot illumination	Warning chime	
					Combination meter buzzer	Intelligent Key warning buzzer
Intelligent Key system malfunction		Illuminate	—	—	—	—
OFF position warning	For internal	—	—	—	Activate	—
	For external	—	—	—	—	Activate
P position warning		—	 JMKIA0037GB	—	Activate	—
ACC warning		—	 JMKIA0047GB	—	Activate	—

Warning/Information functions		"KEY" warning lamp	Combination meter display	Key slot illumination	Warning chime	
					Combination meter buzzer	Intelligent Key warning buzzer
Take away warning	Door is open to close	—	 JMKIA0036GB	Flash	Activate	Activate
	Door is open	—		Flash	—	—
	Push-ignition switch operation	—		Flash	Activate	—
	Take away through window	—		Flash	Activate	—
	Intelligent Key is removed from key slot	—		Flash	—	—
Door lock operation warning	Request switch operation	—	—	—	—	Activate
	Intelligent Key operation	—	—	—	—	Activate
Key ID warning		—	 JMKIA0036GB	—	—	—
Key warning		—	 JMKIA0035GB	Flash	Activate	—
Intelligent Key insert information		—	 JMKIA0034GB	Flash	—	—
Engine start information	Automatic transmission models	—	 JMKIA0032GB	—	—	—
	Manual transmission models	—	 JMKIA0049GB	—	—	—

Warning/Information functions	"KEY" warning lamp	Combination meter display	Key slot illumination	Warning chime	
				Combination meter buzzer	Intelligent Key warning buzzer
Steering lock information	—	 JMKIA0033GB	—	—	—
Intelligent Key low battery warning	—	 JMKIA0048GB	—	—	—

LIST OF OPERATION RELATED PARTS

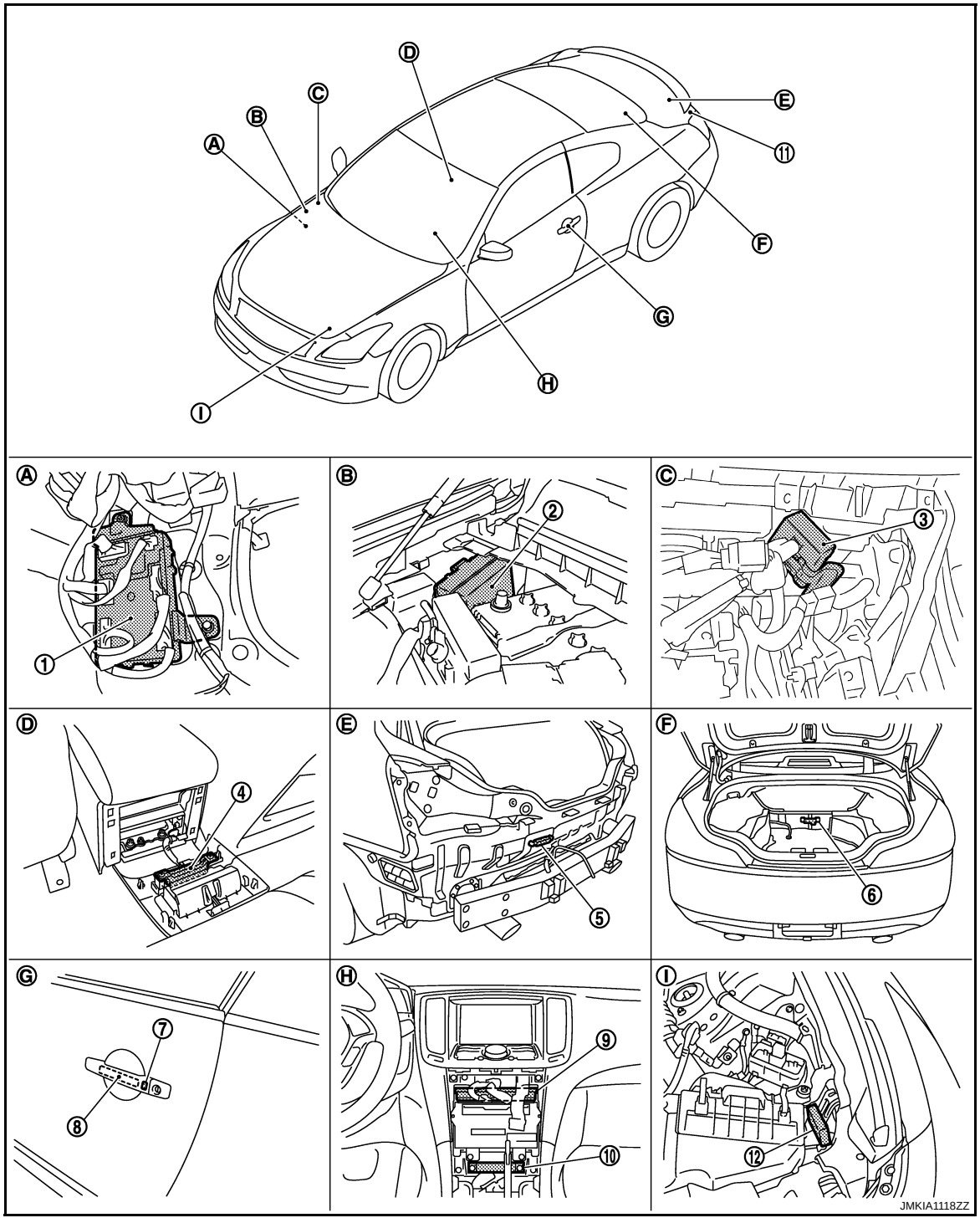
Parts marked with × are the parts related to operation.

Warning function		Intelligent Key	Key slot	Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter warning buzzer	CAN communication system	BCM	Combination meter display	Key slot illumination	Park position switch	"KEY" warning lamp
Intelligent Key system malfunction											×	×				×
OFF position warning	For internal				×					×	×	×				
	For external				×				×		×	×				
P position warning				×						×	×	×	×		×	
ACC warning				×						×	×	×	×		×	
Take away warning	Door is open or closed	×			×		×		×	×	×	×	×	×		
	Door is open	×			×		×				×	×	×	×		
	Push-ignition switch operation	×		×			×			×	×	×	×	×		
	Take away through window	×					×			×	×	×	×	×		
	Intelligent Key is removed from key slot	×	×				×				×	×	×	×		
Door lock operation warning		×	×		×	×	×	×	×		×	×				
Key ID warning		×	×	×			×				×	×	×			
Key warning		×	×		×					×	×	×	×	×		
Intelligent Key insert information		×	×	×	×		×				×	×	×	×		

Warning function		Intelligent Key	Key slot	Ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter warning buzzer	CAN communication system	BCM	Combination meter display	Key slot illumination	Park position switch	"KEY" warning lamp
Engine start information	Ignition switch is in ON position	×	×	×			×				×	×	×		×	
	Ignition switch is in any position except ON	×	×	×			×				×	×	×			
Steering lock information				×							×	×	×			
Intelligent Key low battery warning		×					×				×	×	×			

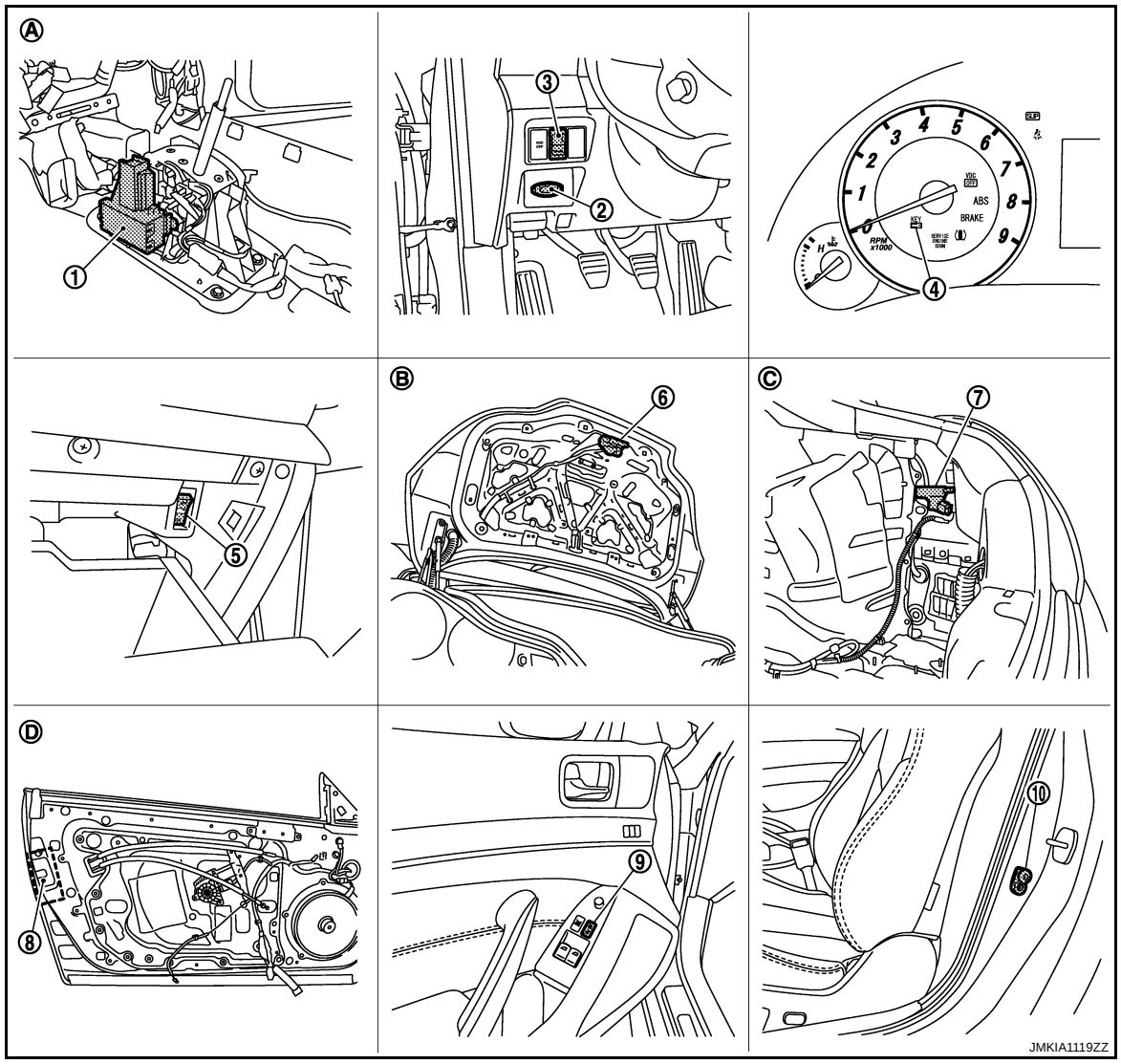
Component Parts Location

INFOID:0000000001735260



1. BCM M118,M119,M120,M121,M122,M123
2. IPDM E/R E5,E6,E7
3. Remote keyless entry receiver M104
4. Inside key antenna (console) M146
5. Outside key antenna (rear bumper) B63
6. Inside key antenna (trunk room) B49
7. Outside handle LH (request switch) D13
8. Outside handle LH (outside key antenna) D14
9. Unified meter and A/C AMP M66,M67
10. Inside key antenna (instrument center) M131
11. Rear combination lamp LH (Trunk lid opener request switch) B60
12. Intelligent Key warning buzzer (engine room) E57

A. Dash side lower (Passenger side).
B. Engine room dash panel (RH).
C. View with instrument assist lower panel removed.
D. View with console rear finisher removed.
E. View with rear bumper removed.
F. View with trunk front finisher removed.
G. View of driver side door LH.
H. Behind cluster lid C.
I. View with hood seal assembly removed.



1. A/T device (detention switch) M137
2. Key slot M22
3. Trunk lid opener switch M20
4. Combination meter (Key warning lamp) M53
5. Trunk opener cancel switch M105
6. Trunk lid lock assembly (trunk lid opener actuator) B303
7. Fuel lid lock actuator B242
8. Door lock assembly (door lock actuator) D15
9. Power window main switch (door lock unlock switch) D8
10. Driver side door switch B16

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D View with driver side door finisher removed.

KEY REMINDER FUNCTION

System Description

INFOID:0000000001683036

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

Key remainder function	Operation condition	Operation
Driver door closed*	Right after driver side door is closed under the following conditions • Door lock operation is performed • Driver side door is opened • Driver side door is in unlock state	All doors unlock
Door is open or closed	Right after all doors are closed under the following conditions • Intelligent Key is inside the vehicle • Any door is opened • All doors are locked by door lock and unlock switch or door lock knob	• All doors unlock • Honk Intelligent Key warning buzzer
Trunk is closed	Right after trunk is closed under the following conditions • Intelligent Key is inside trunk room • All doors are closed • All doors are locked	• 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 will be perform in these cases.

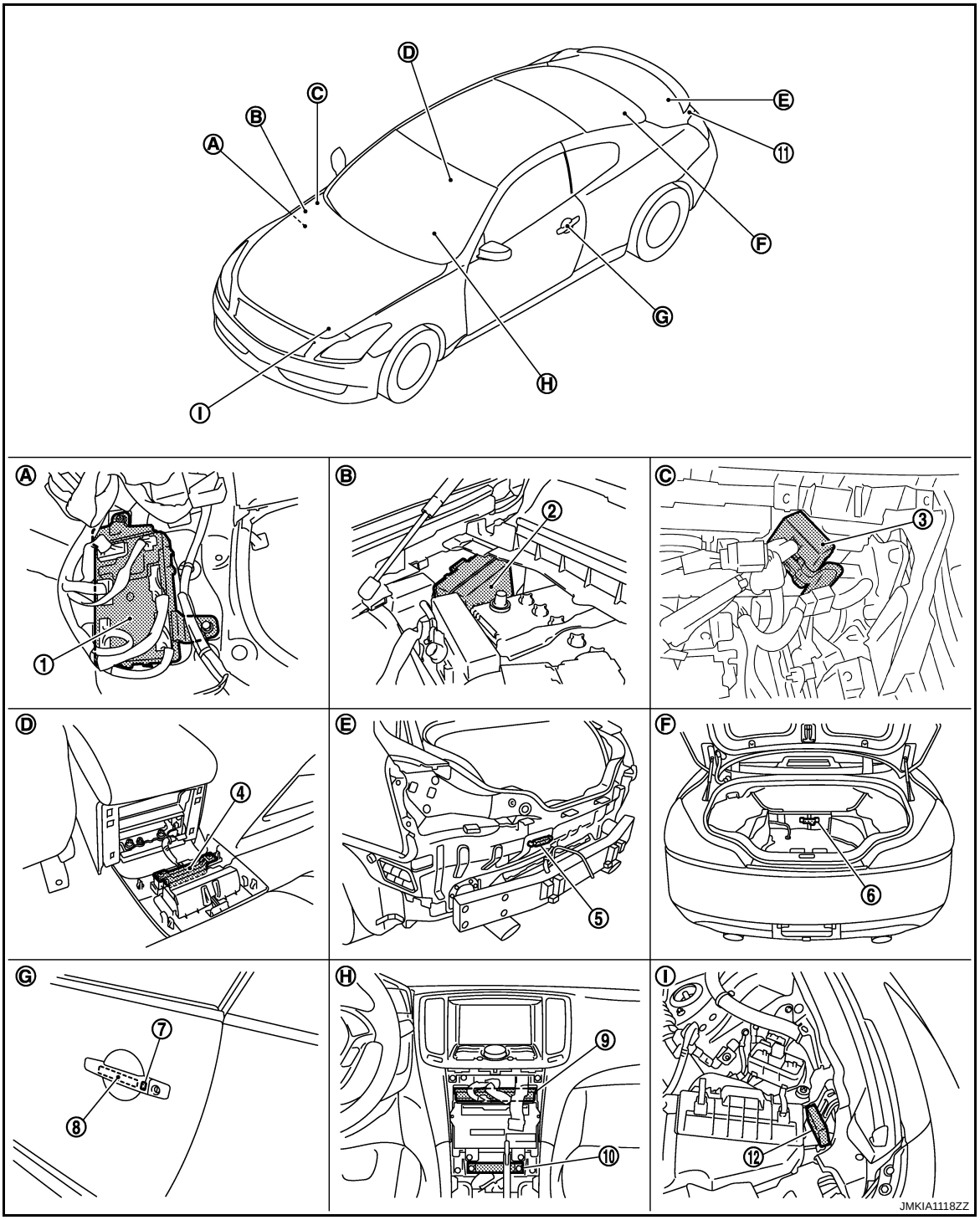
CAUTION:

- **The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function will 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.**
- **When the key reminder function is operated when the trunk is open/closed and the buzzers sound, if the following operations are performed, the key reminder function is cleared and buzzer sounds are stopped.**

- Remote controller door lock button operation of Intelligent Key
- Remote controller door unlock button operation of Intelligent Key
- When the trunk is closed, the Intelligent Key is not inside the vehicle
- When any door is open

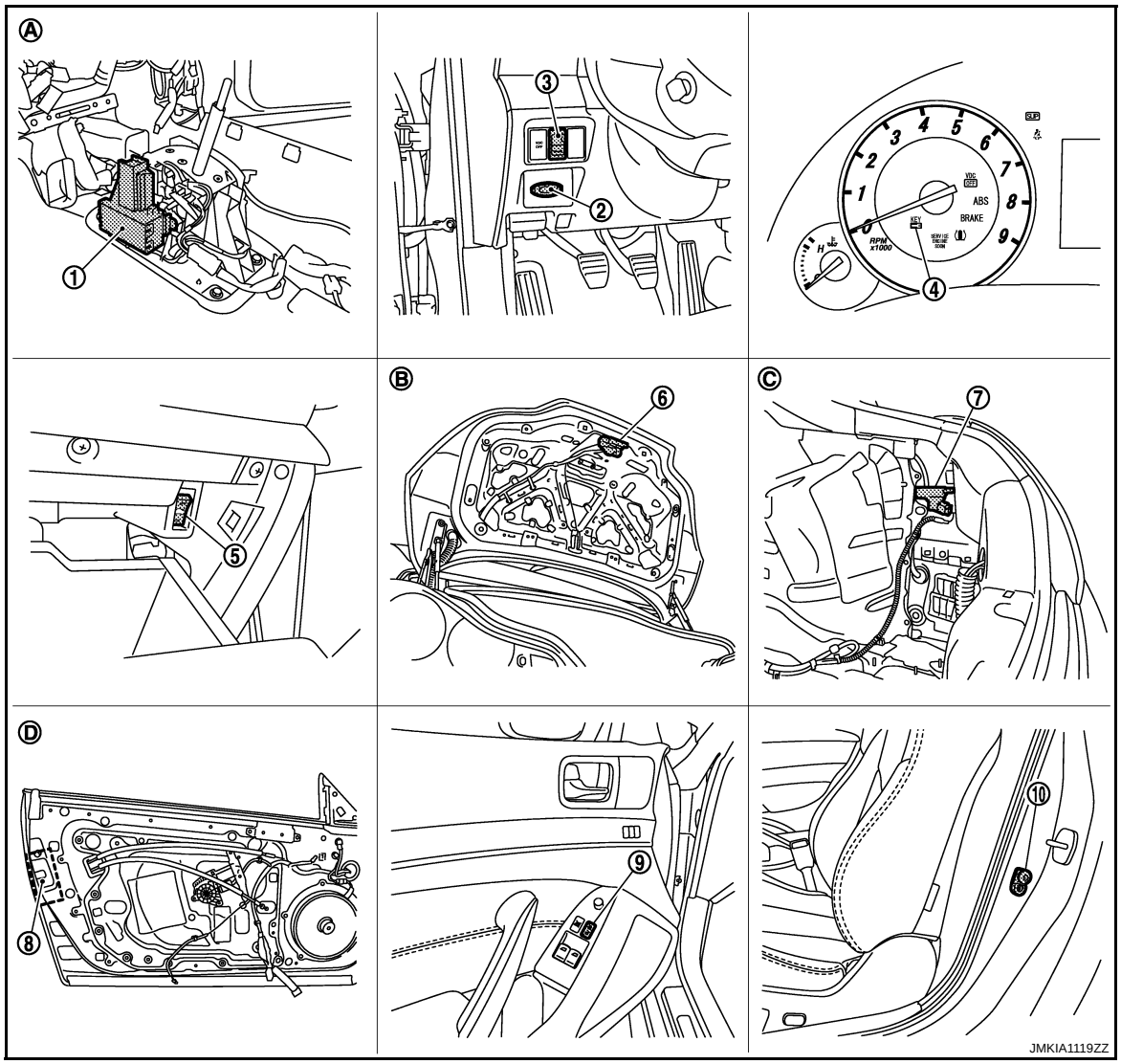
Component Parts Location

INFOID:0000000001735261



1. BCM M118,M119,M120,M121,M122,M123
2. IPDM E/R E5,E6,E7
3. Remote keyless entry receiver M104
4. Inside key antenna (console) M146
5. Outside key antenna (rear bumper) B63
6. Inside key antenna (trunk room) B49
7. Outside handle LH (request switch) D13
8. Outside handle LH (outside key antenna) D14
9. Unified meter and A/C AMP M66,M67
10. Inside key antenna (instrument center) M131
11. Rear combination lamp LH (Trunk lid opener request switch) B60
12. Intelligent Key warning buzzer (engine room) E57

A. Dash side lower (Passenger side).
B. Engine room dash panel (RH).
C. View with instrument assist lower panel removed.
D. View with console rear finisher removed.
E. View with rear bumper removed.
F. View with trunk front finisher removed.
G. View of driver side door LH.
H. Behind cluster lid C.
I. View with hood seal assembly removed.



1. A/T device (detention switch) M137
2. Key slot M22
3. Trunk lid opener switch M20
4. Combination meter (Key warning lamp) M53
5. Trunk opener cancel switch M105
6. Trunk lid lock assembly (trunk lid opener actuator) B303
7. Fuel lid lock actuator B242
8. Door lock assembly (door lock actuator) D15
9. Power window main switch (door lock unlock switch) D8
10. Driver side door switch B16

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D View with driver side door finisher removed.

INTEGRATED HOMELINK TRANSMITTER

Component Description

INFOID:0000000001683038

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

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

INFOID:0000000001737054

APPLICATION ITEM
CONSULT-III 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 MNTR	Monitors the reception status of CAN communication viewed from BCM. Refer to CONSULT-III operation manual.
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	This function is not used even though it is displayed.

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.

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 conditioner*	AIR CONDITONER		×	
Intelligent Key system	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
BCM	BCM	×		
IVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Trunk open	TRUNK		×	
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

*: This item is displayed, but is not used.

FREEZE FRAME DATA (FFD) AND IGN COUNTER

Freeze Frame Data
The BCM records the following condition at the moment a particular DTC is detected.
- Vehicle Speed
- Odd Trip Meter

• Vehicle Condition (BCM detected condition)

CONSULT screen terms	Description
SLEEP>LOCK	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 with steering is locked.)
OFF	Power supply position is “OFF” (Ignition switch OFF with steering is unlocked.)
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

IGN counter indicates 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.

DOOR LOCK

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

INFOID:0000000001737051

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

WORK SUPPORT

Monitor item	Description
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operate (WITH) or not operate (WITHOUT) with this mode.

DATA MONITOR

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 driver side door switch.
DOOR SW-AS	Indicated [ON/OFF] condition of passenger side door switch.
DOOR SW-RR	**NOTE:** This item is displayed, but cannot be monitored.
DOOR SW-RL	**NOTE:** This item is displayed, but cannot be monitored.
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 unlock switch.
CDL UNLOCK SW	Indicated [ON/OFF] condition of unlock signal from door lock unlock switch.
KEY CYL LK-SW	Indicated [ON/OFF] condition of lock signal from key cylinder.
KEY CYL UN-SW	Indicated [ON/OFF] condition of unlock signal from key cylinder.

ACTIVE TEST

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation. • The all door lock actuators are locked when “LOCK” on CONSULT-III screen is touched. • The all door lock actuators are unlocked when “ALL UNLK” on CONSULT-III screen is touched. • The driver side door lock actuator and fuel lid lock actuator are unlocked when “DR UNLK” on CONSULT-III screen is touched. • The passenger side door lock actuator is unlocked when “AS UNLK” on CONSULT- III screen is touched.

INTELLIGENT KEY

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

INFOID:0000000001737052

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
WORK SUPPORT	Changes the setting for each system function.
SELF-DIAG RESULTS	Displays the diagnosis results judged by BCM.
DATA MONITOR	The BCM input/output signals are displayed.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

WORK SUPPORT

Monitor item	Description
REMO CONT ID CONFIR	It can be checked whether Intelligent Key ID code is registered or not in this mode.
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch (driver side, passenger side and trunk) mode can be changed to operate (ON) or not operate (OFF) in this mode.
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (ON) or not operate (OFF) with this mode.
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by trunk opener request switch can be changed to operate (ON) or not operate (OFF) with this mode.

Monitor item	Description
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following with this mode. • 0.5 sec. • 1.5 sec. • OFF: Non-operation
TAKE OUT FROM WIN WARN	Take away warning chime (from window) mode can be changed to operate (ON) or not operate (OFF) with this mode.
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following with this mode. • 3 sec. • 5 sec. • OFF: Non-operation
TRUNK OPEN DELAY	Trunk button pressing time on Intelligent Key button can be selected from the following with this mode. • 0.5 sec. • 1.5 sec. • OFF: Non-operation
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (ON) or not operate (OFF) with this mode.
KEYLESS FUNCTION	Door lock function with Intelligent Key can be changed to operate (ON) or not operate (OFF) with this mode.
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (ON) or not operate (OFF) with this mode.
HAZARD ANSWER BACK	Hazard reminder function mode can be selected from the following with this mode. • LOCK ONLY: Door lock operation only • UNLOCK ONLY: Door unlock operation only • LOCK AND UNLOCK: Lock/unlock operation • OFF: Non-operation
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch (driver side and passenger side) can be selected from the following with this mode. • HORN CHIRP: Sound horn • BUZZER: Sound Intelligent Key warning buzzer • OFF: Non-operation
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch can be changed to operate (ON) or not operate (OFF) with this mode.
SHORT CRANKING OUTPUT	Starter motor can operate during the times below. • 70 msec. • 100 msec. • 200 msec.
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis.
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) with this mode.
AUTO LOCK SET	Auto door lock function mode can be changed to operate (ON) or not operate (OFF) with this mode.

SELF-DIAG RESULT

Refer to DLK-156, "DTC Index".

DATA MONITOR

Monitor Item	Condition
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, VDC or CVT by numerical value [Km/h].
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value starts changing.
RKE OPE COUN2	**NOTE:** This item is displayed, but cannot be monitored.

Monitor Item	Condition
REQ SW -DR	Indicates [ON/OFF] condition of door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW -BD/TR	Indicates [ON/OFF] condition of trunk opener request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2.
ACC RLY -F/B	Indicates [ON/OFF] condition of ACC relay.
CLUCH SW	Indicates [ON/OFF] condition of clutch switch.
BRAKE SW 1	Indicates [ON/OFF] condition of brake switch.
DETE/CANCL SW	Indicates [ON/OFF] condition of P position.
SFT PN/N SW	Indicates [ON/OFF] condition of P or N position.
S/L -LOCK	Indicates [ON/OFF] condition of steering lock (LOCK).
S/L -UNLOCK	Indicates [ON/OFF] condition of steering lock (UNLOCK).
S/L RELAY -F/B	Indicates [ON/OFF] condition of ignition switch.
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/START/CRANK/RUN] condition of engine states.
S/L LOCK-IPDM	Indicates [ON/OFF] condition of steering lock (LOCK).
S/L UNLK-IPDM	Indicates [ON/OFF] condition of steering lock (UNLOCK).
S/L RELAY-REQ	Indicates [ON/OFF] condition of steering lock relay.
DR DOOR STATE	Indicates [LOCK/READY/UNLK] condition of driver side door status.
AS DOOR STATE	Indicates [LOCK/READY/UNLK] condition of passenger side door status.
ID OK FLAG	Indicates [SET/RESET] condition of 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.
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk lid.
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 button of Intelligent Key.
RKE-P/W OPEN	Indicates [ON/OFF] condition of P/W DOWN signal from Intelligent Key.
RKE-MODE CHG	Indicates [ON/OFF] condition of MODE CHANGE signal from Intelligent Key.

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp will be activated after “ON” on CONSULT-III screen is touched.
PW REMOTO DOWN SET	This test is able to check power window down operation. The power window down will be activated after “ON” on CONSULT-III screen is touched.

Test item	Description
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. Intelligent Key warning buzzer sounds when “ON” on CONSULT-III screen is touched.
INSIDE BUZZER	This test is able to check warning chime in combination meter operation. • Take away warning chime sounds when “TAKE OUT” on CONSULT-III screen is touched. • Key warning chime sounds when “KEY WARN” on CONSULT-III screen is touched. • P position warning chime sounds when “P RNG WARN” on CONSULT-III screen is touched. • ACC warning chime sounds when “ACC WARN” on CONSULT-III screen is touched.
INDICATOR	This test is able to check warning lamp operation. • “KEY” Warning lamp illuminates when “KEY IND ON” on CONSULT-III screen is touched. • “KEY” Warning lamp flashes when “KEY IND FSH” on CONSULT-III screen is touched.
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp will be activated after “ON” on CONSULT-III screen is touched.
LCD	This test is able to check meter display information • Engine start information displays when “BRAKE/P” on CONSULT-III screen is touched. • Engine start information displays when “BRAKE/P/ON” on CONSULT-III screen is touched. • Key ID warning displays when “KEY ID NG” on CONSULT-III screen is touched. • Steering lock information displays when “STLCK RELES” on CONSULT-III screen is touched. • P position warning displays when “P RNG IND” on CONSULT-III screen is touched. • Intelligent Key insert information displays when “INSERT KEY” on CONSULT-III screen is touched. • Intelligent Key low battery warning displays when “KEY BAT LOW” on CONSULT-III screen is touched. • Take away through window warning displays when “TK AWAY WDW” on CONSULT-III screen is touched. • Take away warning display when “TAKE AWAY” on CONSULT-III screen is touched. • OFF position warning display when “IGN OFF WARN” on CONSULT-III screen is touched.
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation. This actuator opens when “ON” on CONSULT-III screen is touched.
FLASHER	This test is able to check security hazard lamp operation. The hazard lamps will be activated after “ON” on CONSULT-III screen is touched.
HORN	This test is able to check horn operation. The horn will be activated after “ON” on CONSULT-III screen is touched.
IGN CONT2	This test is able to check security hazard lamp operation. The hazard lamps will be activated after “ON” on CONSULT-III screen is touched.
P RANGE	This test is able to check A/T device power supply A/T device power is supplied when “ON” on CONSULT-III screen is touched.
ENGINE SW ILLUMI	This test is able to check push-ignition switch illumination operation. Push-ignition switch illumination illuminates when “ON” on CONSULT-III screen is touched.
LOCK INDCATOR	This test is able to check LOCK indicator in push-ignition switch operation. LOCK indicator in push-ignition switch illuminates when “ON” on CONSULT-III screen is touched.
ACC INDICATOR	This test is able to check ACC indicator in push-ignition switch operation. LOCK indicator in push-ignition switch illuminates when “ON” on CONSULT-III screen is touched.
IGNITION ON IND	This test is able to check INGITION ON indicator in push-ignition switch operation. LOCK indicator in push-ignition switch illuminates when “ON” on CONSULT-III screen is touched.
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination flash when “ON” on CONSULT-III screen is touched.

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK)

INFOID:0000000001737053

BCM CONSULT-III FUNCTION

CONSULT-III performs the following functions via CAN communication with BCM.

Diagnosis mode	Function Description
DATA MONITOR	The BCM input/output signals are displayed.

DATA MONITOR

Monitor Item	Contents
PUSH SW	Indicates [ON/OFF] condition of push switch.
UNLK SEN -DR	Indicates [ON/OFF] condition of unlock sensor.
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 remote controller button.

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000001683043

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicles are equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.
CAN Communication Signal Chart. Refer to LAN-25, "CAN Communication Signal Chart".

DTC Logic

INFOID:0000000001683044

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	In CAN communication system, any item (or items) of the following listed below is malfunctioning. • Transmission • Receiving (ECM) • Receiving (VDC/TCS/ABS) • Receiving (METER/M&A) • Receiving (TCM) • Receiving (MULTI AV) • Receiving (IPDM E/R)

Diagnosis Procedure

INFOID:0000000001683045

1.PERFORM SELF-DIAGNOSTIC

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

Is “CAN COMM CIRCUIT” displayed?

YES >> Refer to LAN-16, "Trouble Diagnosis Flow Chart".
NO >> Refer to GI-38, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:0000000001683046

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	BCM detected internal CAN communication circuit malfunction.	BCM

Diagnosis Procedure

INFOID:0000000001683047

1.REPLACE BCM

When DTC [U1010] is detected, replace BCM.

>> Replace BCM.

Special Repair Requirement

INFOID:0000000001683048

1.REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to CONSULT-III operation manual NATS-IVIS/NVIS.

>> Work end.

B2621 INSIDE KEY ANTENNA 1

Description

INFOID:0000000001683049

Detects whether Intelligent Key is inside the vehicle.
Installed in the instrument center.

DTC Logic

INFOID:0000000001683050

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2621	INSIDE ANTENNA 1 CIRCUIT	An excessive high or low voltage from inside antenna is sent to BCM.	• Inside key antenna (instrument center) • Between BCM and Inside key antenna (instrument center)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT-III

1. Perform inside key antenna (“INSIDE ANT DIAGNOSIS”) on Work Support” of “INTELLIGENT KEY”.
2. Perform “INTELLIGENT KEY” Self Diagnostic Result.

Is inside key antenna DTC detected?

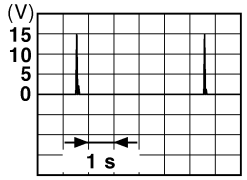
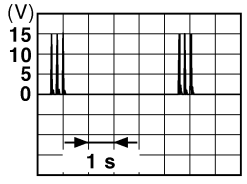
YES >> Refer to DLK-59, "Diagnosis Procedure".
NO >> Inside key antenna (instrument center) is OK.

Diagnosis Procedure

INFOID:0000000001683051

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

Terminals (+) BCM connector	Terminals (+) Terminal	Terminals (–)	Condition	Signal (Reference value)
M122	79	Ground	When Intelligent Key is in the passenger compartment.	 JMKIA0062GB
			When Intelligent Key is not in the passenger compartment.	 JMKIA0063GB

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK INSIDE KEY ANTENNA CIRCUIT

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

BCM connector	Terminal	Inside key antenna (Instrument center) connector	Terminal	Continuity
M122	78	M131	2	Existed
	79		1	

3. Check continuity between BCM harness connector and ground.

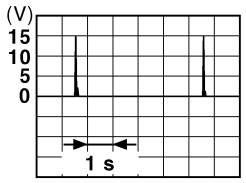
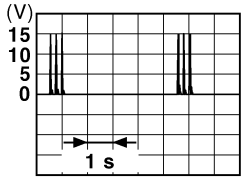
BCM connector	Terminal	Ground	Continuity
M122	78		Not existed
	79		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness between BCM and inside key antenna (instrument center).

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

Terminals (+) BCM connector	Terminals (+) Terminal	Terminals (–)	Condition	Signal (Reference value)
M122	79	Ground	When Intelligent Key is in the passenger compartment.	 JMKIA0062GB
			When Intelligent Key is not in the passenger compartment.	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (instrument center). Refer to DLK-239, "INSTRUMENT CENTER : Removal and Installation".
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

B2622 INSIDE KEY ANTENNA 2

Description

INFOID:0000000001683052

Detects whether Intelligent Key is inside the vehicle.
Installed in the center console.

DTC Logic

INFOID:0000000001683053

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA 2 CIRCUIT	An excessive high or low voltage from inside antenna is sent to BCM.	• Inside key antenna (console) • Between BCM and Inside key antenna (console)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT-III

1. Perform inside key antenna (“INSIDE ANT DIAGNOSIS”) on “Work Support” of “INTELLIGENT KEY”.
2. Perform “INTELLIGENT KEY” Self Diagnostic Result.

Is inside key antenna DTC detected?

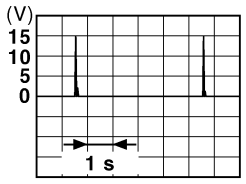
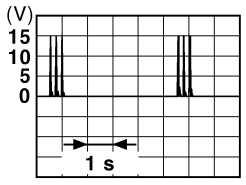
YES >> Refer to DLK-61, "Diagnosis Procedure".
NO >> Inside key antenna (console) is OK.

Diagnosis Procedure

INFOID:0000000001683054

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

Terminals (+) BCM connector	Terminals (+) Terminal	Terminals (–)	Condition	Signal (Reference value)
M122	73	Ground	When Intelligent Key is in the passenger compartment.	 JMKIA0062GB
			When Intelligent Key is not in the passenger compartment.	 JMKIA0063GB

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and inside key antenna (console) connector.

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

BCM connector	Terminal	Inside key antenna (console) connector	Terminal	Continuity
M122	72	M146	2	Existed
	73		1	

3. Check continuity between BCM harness connector and ground.

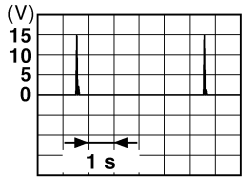
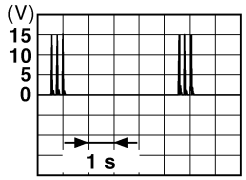
BCM connector	Terminal	Ground	Continuity
M122	72		Not existed
	73		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness between BCM and inside key antenna (console).

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

Terminals			Condition	Signal (Reference value)
(+)		(–)		
BCM connector	Terminal			
M122	73	Ground	When Intelligent Key is in the passenger compartment.	 JMKIA0062GB
			When Intelligent Key is not in the passenger compartment.	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to DLK-239, "CONSOLE : Removal and Installation".
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

B2623 INSIDE KEY ANTENNA 3

Description

INFOID:0000000001683055

Detects whether Intelligent Key is inside the vehicle.
Installed in the trunk room.

DTC Logic

INFOID:0000000001683056

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2623	INSIDE ANTENNA 3 CIRCUIT	An excessive high or low voltage from inside antenna is sent to BCM.	• Inside key antenna (trunk room) • Between BCM and Inside key antenna (trunk room)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT-III

1. Perform inside key antenna (“INSIDE ANT DIAGNOSIS”) on “Work Support” of “INTELLIGENT KEY”.
2. Perform “INTELLIGENT KEY” Self Diagnostic Result.

Is inside key antenna DTC detected?

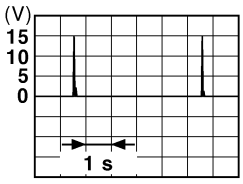
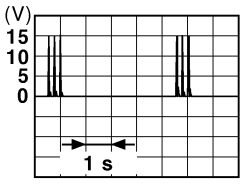
YES >> Refer to DLK-63, "Diagnosis Procedure".
NO >> Inside key antenna (trunk room) is OK.

Diagnosis Procedure

INFOID:0000000001683057

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

Terminals (+) BCM connector	Terminals (+) Terminal	Terminals (–)	Condition	Signal (Reference value)
M121	35	Ground	When Intelligent Key is in the passenger compartment.	 JMKIA0062GB
			When Intelligent Key is not in the passenger compartment.	 JMKIA0063GB

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and inside key antenna (trunk room) connector.

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

BCM connector	Terminal	Inside key antenna (trunk room) connector	Terminal	Continuity
M121	34	B49	2	Existed
	35		1	

3. Check continuity between BCM harness connector and ground.

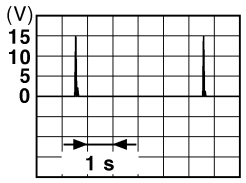
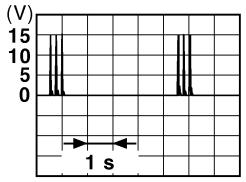
BCM connector	Terminal	Ground	Continuity
M121	34		Not existed
	35		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness between BCM and inside key antenna (trunk room).

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. Check signal between BCM harness connector and ground with oscilloscope.

Terminals (+) BCM connector	Terminals (+) Terminal	Terminals (–)	Condition	Signal (Reference value)
M121	35	Ground	When Intelligent Key is in the passenger compartment.	 JMKIA0062GB
			When Intelligent Key is not in the passenger compartment.	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (trunk room). Refer to DLK-240, "TRUNK ROOM : Removal and Installation".
NO >> Replace BCM. Refer to BCS-79, "Removal and Installation".

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000001683058

1.CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	K
11		10

Is the fuse blown?

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

2.CHECK POWER SUPPLY CIRCUIT

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

Terminals			Voltage (Approx.)
(+)		(–)	
BCM		Ground	
Connector	Terminal		
M118	1		Battery voltage
M119	11		

Is the measurement value normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	13		Existed

Does continuity exist?

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

DOOR SWITCH

Description

INFOID:0000000001683059

Detects door open/close condition.

Component Function Check

INFOID:0000000001683060

1.CHECK FUNCTION

With CONSULT-III

Check door switches (“DOOR SW-DR”, “DOOR SW-AS”) in Data Monitor” mode with CONSULT-III.

Monitor item	Condition
DOOR SW-DR	CLOSE → OPEN: OFF → ON
DOOR SW-AS	

Is the inspection result normal?

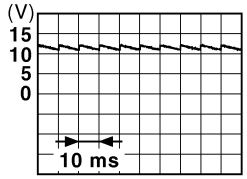
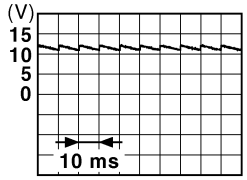
YES >> Door switch is OK.
NO >> Refer to DLK-66, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683061

1.CHECK DOOR SWITCH INPUT SIGNAL

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

Terminals (+) BCM connector	Terminals (+) Terminal	Terminals (–)	Door condition		Voltage (V) (Approx.)
M123	150	Ground	Driver side	OPEN	0
				CLOSE	 JPMIA0011GB
	124		Passenger side	OPEN	0
				CLOSE	 JPMIA0011GB

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

BCM connector	Terminal	Door switch connector	Terminal	Continuity
M123	150	B16 (Driver side)	2	Existed
	124	B216 (Passenger side)		

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M123	150		Not existed
	124		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Refer to DLK-67, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace malfunctioning door switch. Refer to DLK-238, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001683062

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check continuity between door switch terminal and ground.

Terminal		Door switch condition	Continuity
Door switch			
2	Ground part of door switch	Pressed	Not existed
		Released	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace malfunctioning door switch. Refer to DLK-238, "Removal and Installation".

DOOR LOCK AND UNLOCK SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001683063

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000001683064

1.CHECK FUNCTION

With CONSULT-III

Check door lock and unlock switch (“CDL LOCK SW ”, “CDL UNLOCK SW”) in Data Monitor mode with CONSULT-III.

Monitor item	Condition	
CDL LOCK SW	LOCK	: ON
	UNLOCK	: OFF
CDL UNLOCK SW	LOCK	: OFF
	UNLOCK	: ON

Is the inspection result normal?

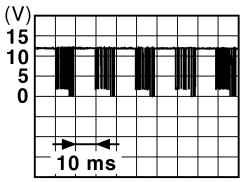
YES >> Door lock and unlock switch is OK.
NO >> Refer to DLK-68, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001879565

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Door of driver side and passenger side is closed.
2. Check signal between BCM harness connector and ground with oscilloscope when door lock and unlock switch (driver side) is turned to “LOCK” or “UNLOCK”.
3. Check that signals which are shown in the figure below can be detected during 10 seconds just after door lock and unlock switch (driver side) is turned to “LOCK” or “UNLOCK”.

Terminal			Signal (Reference value)
(+)		(–)	
BCM connector	Terminal		
M123	132	Ground	

JPMIA0013GB

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 2.

2.CHECK POWER WINDOW SWITCH GROUND

1. Turn ignition switch OFF.
2. Disconnect power window main switch connector.
3. Check continuity between power window main switch harness connector and ground.

Power window main switch connector	Description		Continuity
D8	15	Ground	Existed

Is the inspection result normal?

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

3.CHECK POWER WINDOW SERIAL LINK CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM connector and power window main switch connector.

BCM connector	Terminal	Power window main switch connector	Terminal	Continuity
M123	132	D8	12	Existed

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

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

4.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Special Repair Requirement

INFOID:0000000001683066

Refer to PWC-4, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001683067

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000001683068

1.CHECK FUNCTION

With CONSULT-III

Check door lock and unlock switch (“CDL LOCK SW ”, “CDL UNLOCK SW”) in Data Monitor mode with CONSULT-III.

Monitor item	Condition	
CDL LOCK SW	LOCK	: ON
	UNLOCK	: OFF
CDL UNLOCK SW	LOCK	: OFF
	UNLOCK	: ON

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.
NO >> Refer to DLK-69, "PASSENGER SIDE : Diagnosis Procedure".

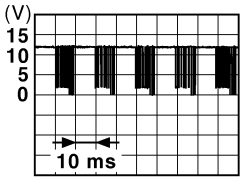
PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001879567

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Door of driver side and passenger side is closed.
2. Check signal between BCM harness connector and ground with oscilloscope when door lock and unlock switch (passenger side) is turned to “LOCK” or “UNLOCK”.

3. Check that signals which are shown in the figure below can be detected during 10 seconds just after door lock and unlock switch (passenger side) is turned to “LOCK” or “UNLOCK”.

Terminal			Signal (Reference value)
(+)		(–)	
BCM connector	Terminal		
M123	132	Ground	

JPMIA0013GB

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 2.

2.CHECK POWER WINDOW SWITCH GROUND

1. Turn ignition switch OFF.
2. Disconnect power window sub-switch connector.
3. Check continuity between power window sub-switch harness connector and ground.

Power window sub-switch connector	Terminal		Continuity
D38	11	Ground	Existed

Is the inspection result normal?

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

3.CHECK POWER WINDOW SERIAL LINK CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM connector and power window sub-switch connector.

BCM connector	Terminal	Power window sub-switch connector	Terminal	Continuity
M123	132	D38	16	Existed

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M123	132		Not existed

Is the inspection result normal?

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

4.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Special Repair Requirement

INFOID:0000000001683070

Refer to PWC-4, "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement".

KEY SLOT

Description

INFOID:0000000001683071

Detects whether Intelligent Key is inserted.
Immobilizer antenna amp checks Intelligent Key transponder.

Component Function Check

INFOID:0000000001683072

1.CHECK FUNCTION

With CONSULT-III
Check key slot (“KEY SW -SLOT”) in Data Monitor mode with CONSULT-III.

Monitor item	Condition
KEY SW-SLOT	Key is inserted in key slot: ON
	Key is removed from key slot: OFF

Is the inspection result normal?

YES >> Key slot is OK.
NO >> Refer to DLK-71, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683073

1.CHECK KEY SLOT POWER SUPPLY CIRCUIT

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

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Key slot connector	Terminal		
M22	1	Ground	Battery voltage
	5		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace key slot power supply circuit.

2.CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector and ground.

Key slot connector	Terminal	Ground	Continuity
M22	7		Existed

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace key slot ground circuit.

3.CHECK KEY SLOT CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and key slot harness connector.

BCM connector	Terminal	Key slot connector	Terminal	Continuity
M123	121	M22	11	Existed

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M123	121		Not existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness between BCM and key slot.

4.CHECK KEY SLOT

Refer to DLK-72, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace key slot. Refer to DLK-243, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001683074

1.CHECK KEY SLOT

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

Terminal		Condition	Continuity
Key slot			
1	11	Intelligent Key inserted	Existed
		Intelligent Key removed	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace key slot. Refer to DLK-243, "Removal and Installation".

KEY CYLINDER SWITCH

Description

INFOID:0000000001683075

Power window main switch detects condition of the door key cylinder switch and transmits to BCM as the LOCK or UNLOCK signals.

Component Function Check

INFOID:0000000001683076

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

With CONSULT-III

Check key cylinder switch (“KEY CYL LK-SW”, “KEY CYL UN-SW”) in “Data Monitor” mode for “POWER DOOR LOCK SYSTEM” with CONSULT-III. Refer to DLK-51, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Monitor item	Condition	
KEY CYL LK-SW	Lock	: ON
	Neutral / Unlock	: OFF
KEY CYL UN-SW	Unlock	: ON
	Neutral / Lock	: OFF

Is the inspection result normal?

YES >> Key cylinder switch is OK.
NO >> Refer to DLK-73, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683077

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between power window main switch connector and ground.

Terminals			Key position	Voltage (V) (Approx.)
(+)		(–)		
Power window main switch connector	Terminal			
D8	6	Ground	Lock	0
			Neutral / Unlock	5
	7		Unlock	0
			Neutral / Lock	5

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 2.

2.CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window main switch connector and driver side door lock assembly connector.
3. Check continuity between power window main switch harness connector and driver side door lock assembly harness connector.

Power window main switch connector	Terminal	Driver side door lock assembly connector	Terminal	Continuity
D8	6	D15	6	Existed
	7		5	

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

Power window main switch connector	Terminal	Ground	Continuity
D8	6		Not existed
	7		

Is the inspection result normal?

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

3.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

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

Driver side door lock assembly connector	Terminal	Ground	Continuity
D15	4		Existed

Is the inspection result normal?

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

4.CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.
Refer to DLK-74, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace driver side door lock assembly. Refer to DLK-230, "DOOR LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001683078

COMPONENT INSPECTION

1.CHECK DOOR KEY CYLINDER SWITCH

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

Terminal		Key position	Continuity
Driver side door lock assembly			
5	4	Unlock	Existed
		Neutral / Lock	Not existed
6		Lock	Existed
		Neutral / Unlock	Not existed

Is the inspection result normal?

YES >> Key cylinder switch is OK.
NO >> Replace driver side door lock assembly. Refer to DLK-230, "DOOR LOCK : Removal and Installation".

UNLOCK SENSOR

Description

INFOID:0000000001683080

Detects door lock condition of driver door.

Component Function Check

INFOID:0000000001683081

1.CHECK FUNCTION

With CONSULT-III

Check unlock sensor (“DOOR STAT SW”) in “Data Monitor” mode with CONSULT-III.

Monitor item	Condition
DOOR STAT SW	Front door lock (driver side) LOCK: OFF
	Front door lock (driver side) UNLOCK: ON

Is the inspection result normal?

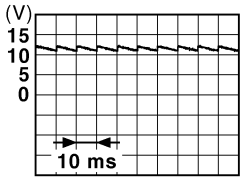
YES >> Unlock sensor is OK.
NO >> Refer to DLK-75, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683082

1.CHECK UNLOCK SENSOR POWER SUPPLY

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

Terminals			Driver side door lock condition	Voltage (V) (Approx.)
(+)		(–)		
BCM connector	Terminal			
M123	119	Ground	Locked	 JPMIA0011GB
			Unlocked	0

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 2.

2.CHECK UNLOCK SENSOR CIRCUIT

1. Disconnect BCM connector and driver side door lock assembly connector.
2. Check continuity between BCM harness connector and driver side door lock assembly harness connector.

BCM connector	Terminal	Driver side door lock assembly connector	Terminal	Continuity
M123	119	D15	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M123	119		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and driver side door lock assembly.

3.CHECK UNLOCK SENSOR GROUND CIRCUIT

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

Driver side door lock assembly connector	Terminal	Ground	Continuity
D15	4		Existed

Is the inspection result normal?

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

4.CHECK UNLOCK SENSOR

Refer to DLK-76, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace driver side door lock assembly. Refer to DLK-230, "DOOR LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001683083

1.CHECK UNLOCK SENSOR

1. Turn ignition switch OFF.
2. Disconnect driver side door lock assembly connector.
3. Check continuity between unlock sensor terminals.

Terminal		Condition	Continuity
Driver side door lock assembly			
3	4	Unlock	Existed
		Lock	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace driver side lock assembly. Refer to DLK-230, "DOOR LOCK : Removal and Installation".

TRUNK LID OPENER SWITCH

Description

INFOID:0000000001683084

Transmits trunk lid open signal to BCM.

Component Function Check

INFOID:0000000001683085

1.CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch position.

Does trunk lid opener cancel switch turn ON (CANCEL)?

YES >> Turn off trunk lid opener cancel switch.
NO >> GO TO 2.

2.CHECK FUNCTION

With CONSULT-III

Check trunk lid opener switch (“TR/BD OPEN SW”) in Data Monitor mode with CONSULT-III.

Monitor item	Condition
TR/BD OPEN SW	Trunk lid opener switch is pressed: ON
	Trunk lid opener switch is released: OFF

Is the inspection result normal?

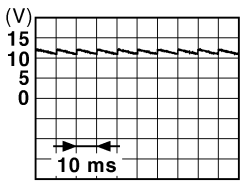
YES >> Trunk lid opener switch is OK.
NO >> Refer to DLK-77, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683086

1.CHECK TRUNK LID OPEN INPUT SIGNAL

1. Remove Intelligent Key from key slot.
2. Turn ON trunk lid opener cancel switch.
3. Check voltage between BCM harness connector and ground.

Terminals (+) BCM connector	Terminals (+) Terminal	Terminals (–)	Condition of trunk lid opener switch	Voltage (V) (Approx.)
M121	67	Ground	ON (press and hold)	0
			OFF (release)	

JPMIA0011GB

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 2.

2.CHECK TRUNK LID OPENER SWITCH CIRCUIT

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

BCM connector	Terminal	Trunk lid opener switch connector	Terminal	Continuity
M121	67	M20	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M121	67		Not existed

Is the inspection result normal?

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

3.CHECK TRUNK LID OPENER SWITCH GROUND CIRCUIT

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

Trunk lid opener switch connector	Terminal	Ground	Continuity
M20	2		Existed

Is the inspection result normal?

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

4.CHECK TRUNK LID OPENER SWITCH

Refer to DLK-78, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace trunk lid opener switch. Refer to DLK-245, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001683087

1.CHECK TRUNK LID OPENER SWITCH

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

Terminal		Condition	Continuity
Trunk lid opener switch			
1	2	ON (press and hold)	Existed
		OFF (release)	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace trunk lid opener switch. Refer to DLK-245, "Removal and Installation".

TRUNK LID OPENER CANCEL SWITCH

Description

INFOID:0000000001683088

Cancels trunk lid open operation.

Component Function Check

INFOID:0000000001683089

1.CHECK FUNCTION

With CONSULT-III

Check trunk lid opener cancel switch (“TR CANCEL SW”) in Data Monitor mode with CONSULT-III.

Monitor item	Condition
TR CANCEL SW	Trunk lid opener cancel switch is turned to “ON”: ON
	Trunk lid opener cancel switch is turned to “OFF”: OFF

Is the inspection result normal?

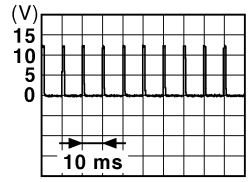
YES >> Trunk lid opener cancel switch is OK.
NO >> Refer to DLK-79, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683090

1.CHECK TRUNK LID OPENER CANCEL SIGNAL

1. Check voltage between BCM harness connector and ground.

Terminals			Condition of trunk lid opener cancel switch	Voltage (V) (Approx.)
(+)		(–)		
BCM connector	Terminal			
M123	129	Ground	ON (press and hold)	0
			OFF (cancel)	 JPMIA0012GB

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 2.

2.CHECK TRUNK LID OPENER CANCEL SWITCH CIRCUIT

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

BCM connector	Terminal	Trunk lid opener cancel switch connector	Terminal	Continuity
M123	129	M105	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M123	129		Not existed

Is the inspection result normal?

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

3.CHECK TRUNK LID OPENER CANCEL SWITCH GROUND CIRCUIT

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

Trunk lid opener cancel switch	Terminal	Ground	Continuity
M105	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-80, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace trunk lid opener cancel switch. Refer to DLK-246, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001683091

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 terminals.

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace trunk lid opener cancel switch. Refer to DLK-246, "Removal and Installation".

TRUNK ROOM LAMP SWITCH

Description

INFOID:0000000001683092

Detects trunk open/close condition.

Component Function Check

INFOID:0000000001683093

1.CHECK FUNCTION

With CONSULT-III

Check trunk room lamp switch (“TR/HAT MNTR”) in Data Monitor mode with CONSULT-III.

Monitor item	Condition	
TRNK/HAT MNTR	OPEN	: ON
	CLOSE	: OFF

Is the inspection result normal?

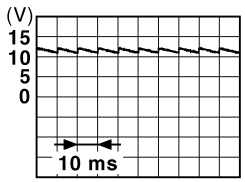
YES >> Trunk room lamp switch is OK.
NO >> Refer to DLK-81, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683094

1.CHECK TRUNK ROOM LAMP SWITCH INPUT SIGNAL

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

Terminals			Trunk condition	Voltage (V) (Approx.)
(+)		(–)		
BCM connector	Terminal			
M121	50	Ground	OPEN	0
			CLOSE	

JPMIA0011GB

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 2.

2.CHECK TRUNK ROOM LAMP SWITCH CIRCUIT

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

BCM connector	Terminal	Trunk lid lock assembly connector	Terminal	Continuity
M121	50	B303	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M121	50		Not existed

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness between BCM and trunk room lamp switch.

3.CHECK TRUNK ROOM LAMP SWITCH GROUND CIRCUIT

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

Trunk lid lock assembly connector	Terminal	Ground	Continuity
B303	2		Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace trunk room lamp switch ground circuit.

4.CHECK TRUNK ROOM LAMP SWITCH

Refer to DLK-82, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace trunk lid lock assembly. Refer to DLK-237, "TRUNK LID LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001683095

1.CHECK TRUNK ROOM LAMP SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid lock assembly connector.
3. Check continuity between trunk room lamp switch terminals.

Terminal		Trunk condition	Continuity
Trunk room lamp switch			
1	2	OPEN	Existed
		CLOSE	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace trunk lid lock assembly. Refer to DLK-237, "TRUNK LID LOCK : Removal and Installation".

DOOR REQUEST SWITCH

Description

INFOID:0000000001683096

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:0000000001683097

1.CHECK FUNCTION

With CONSULT-III

Check door request switch (“DR REQ SW” or “AS REQ SW”) in Data Monitor mode with CONSULT-III.

Monitor item	Condition
DR REQ SW AS REQ SW	Door request switch is pressed: ON
	Door request switch is released: OFF

Is the inspection result normal?

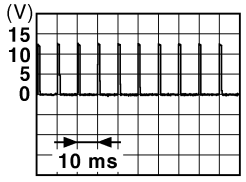
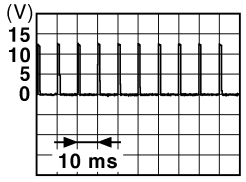
YES >> Door request switch is OK.
NO >> Refer to DLK-83, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683098

1.CHECK DOOR REQUEST SWITCH OUTPUT SIGNAL

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

Terminals (+) BCM connector		Terminal	Terminals (–)	Door request switch Condition	Voltage (V) (Approx.)
M122	Door request switch (LH)	101	Ground	Pressed	0
				Released	 JPMIA0016GB
	Door request switch (RH)	100		Pressed	0
				Released	 JPMIA0016GB

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect BCM connector and outside handle (request switch) connector.
2. Check continuity between BCM harness connector and outside handle (request switch) harness connector.

BCM connector	Terminal	Outside handle (request switch) connector	Terminal	Continuity
M122	101	D13 (LH)	1	Existed
	100	D43 (RH)		

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M122	101		Not existed
	100		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness between BCM and outside handle (request switch).

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between outside handle (request switch) harness connector and ground.

Outside handle (request switch) connector	Terminal	Ground	Continuity
D13 (LH)	2		Existed
D43 (RH)			

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace outside handle (request switch) ground circuit.

4.CHECK DOOR REQUEST SWITCH

Refer to DLK-84, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace malfunctioning outside handle (request switch). Refer to DLK-230, "DOOR LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001683099

1.CHECK DOOR REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect outside handle (request switch) connector.
3. Check continuity between outside handle (request switch) terminals.

Terminal		Door request switch condition	Continuity
Outside handle (request switch)			
1	2	Pressed	Existed
		Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace malfunction outside handle (request switch). Refer to DLK-230, "DOOR LOCK : Removal and Installation".

TRUNK LID OPENER REQUEST SWITCH

Description

INFOID:0000000001683100

Performs trunk lid open request when it is pressed.

Component Function Check

INFOID:0000000001683101

1.CHECK FUNCTION

With CONSULT-III

Check trunk lid opener request switch (“REQ SW -BD/TR ”) in Data Monitor mode with CONSULT-III.

Monitor item	Condition
REQ SW -BD/TR	Trunk lid opener request switch is pressed: ON
	Trunk lid opener request switch is released: OFF

Is the inspection result normal?

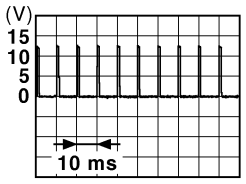
YES >> Trunk lid opener request switch is OK.
NO >> Refer to DLK-85, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683102

1.CHECK TRUNK LID OPENER REQUEST SWITCH OUTPUT SIGNAL

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

Terminals			Trunk lid opener request switch condition	Voltage (V) (Approx.)
(+)		(–)		
BCM connector	Terminal			
M121	61	Ground	Pressed	0
			Released	

JPMIA0016GB

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 2.

2.CHECK TRUNK LID OPENER REQUEST SWITCH CIRCUIT

1. Disconnect BCM connector and rear combination lamp LH (trunk lid opener request switch) connector.
2. Check continuity between BCM harness connector and rear combination lamp LH trunk lid opener request switch harness connector.

BCM connector	Terminal	Rear combination lamp LH (trunk lid opener request switch) connector	Terminal	Continuity
M121	61	B60	5	Existed

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M121	61		Not existed

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness between BCM and rear combination lamp LH (trunk lid opener request switch).

3.CHECK TRUNK LID OPENER REQUEST SWITCH GROUND CIRCUIT

Check continuity between rear combination lamp LH (trunk lid opener request switch) harness connector and ground.

Rear combination lamp LH (trunk lid opener request switch) connector	Terminal	Ground	Continuity
B60	3		Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace rear combination lamp LH (trunk lid opener request switch) ground circuit.

4.CHECK TRUNK LID OPENER REQUEST SWITCH

Refer to DLK-86, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace trunk lid opener request switch. Refer to DLK-230, "DOOR LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001683103

1.CHECK TRUNK LID OPENER REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect rear combination lamp LH (trunk lid opener request switch) connector.
3. Check continuity between trunk lid opener request switch terminals.

Terminal		Trunk lid opener request switch condition	Continuity
Trunk lid opener request switch			
5	3	Pressed	Existed
		Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace trunk lid opener request switch. Refer to DLK-244, "Removal and Installation".

DOOR LOCK ACTUATOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001683104

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000001683105

1.CHECK FUNCTION

1. Use CONSULT-III to perform Active Test (“DOOR LOCK”).
2. Touch “ALL LOCK” or “ALL UNLOCK” to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.
NO >> Refer to DLK-87, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001683106

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

Check voltage between driver side door lock assembly connector and ground.

Terminals			Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)		(–)		
Driver side door lock assembly connector	Terminal			
D15	1	Ground	Lock	0 → Battery voltage → 0
	2		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and driver side door lock assembly connector.
3. Check continuity between BCM harness connector and driver side door lock assembly harness connector.

BCM connector	Terminal	Driver side door lock assembly connector	Terminal	Continuity
M119	8	D15	1	Existed
	9		2	

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal		Continuity
M119	8	Ground	Not existed
	9		

Is the inspection result normal?

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

3.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001683107

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000001683108

1.CHECK FUNCTION

1. Use CONSULT-III to perform Active Test (“DOR LOCK”).
2. Touch “ALL LOCK” or “ALL UNLOCK” to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.
NO >> Refer to DLK-88, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001683109

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

Check voltage between passenger side door lock assembly harness connector and ground.

Terminals			Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)		(–)		
Passenger side door lock assembly connector	Terminal			
D45	2	Ground	Lock	0 → Battery voltage → 0
	1		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and passenger side door lock assembly connector.
2. Check continuity between BCM harness connector and passenger side door lock assembly harness connector.

BCM connector	Terminal	Passenger side door lock assembly connector	Terminal	Continuity
M119	8	D45	2	Existed
	5		1	

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal		Continuity
M119	8	Ground	Not existed
	5		

Is the inspection result normal?

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

3.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

TRUNK LID OPENER ACTUATOR

Description

INFOID:0000000001683116

Performs trunk lid open with signal from BCM.

Component Function Check

INFOID:0000000001683117

1.CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch position.

Does trunk lid opener cancel switch turn OFF (CANCEL)?

Yes >> Turn on trunk lid opener cancel switch.
No >> GO TO 2.

2.CHECK FUNCTION

1. Perform Active Test (“TRUNK/GLASS HATCH”) with CONSULT-III.
2. Touch “OPEN” and check that trunk lid opens.

Is the inspection result normal?

YES >> Trunk lid opener actuator is OK.
NO >> Refer to DLK-89, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683118

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals			Condition of trunk lid opener switch	Voltage (V) (Approx.)
(+)		(–)		
BCM connector	Terminal			
M120	23	Ground	ON	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK TRUNK LID OPENER ACTUATOR CIRCUIT

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

BCM connector	Terminal	Trunk lid lock assembly connector	Terminal	Continuity
M120	23	B303	3	Existed

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal		Continuity
M120	23	Ground	Not existed

Is the inspection result normal?

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

3.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

FUEL LID LOCK ACTUATOR

Description

INFOID:0000000001683119

Linked to door lock actuator, lock/unlock fuel lid.

Component Function Check

INFOID:0000000001683120

1.CHECK FUNCTION

1. Use CONSULT-III to perform Active Test (“DOOR LOCK”).
2. Touch “ALL LOCK” or “ALL UNLOCK” to check that it works normally.

Is the inspection result normal?

YES >> Fuel lid lock actuator is OK.
NO >> Refer to DLK-90, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683121

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals			Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)		(–)		
BCM connector	Terminal			
M119	8	Ground	Lock	0 → Battery voltage → 0
	9		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK FUEL LID LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and fuel lid lock actuator connector.
3. Check continuity between BCM harness connector and fuel lid lock actuator harness connector.

BCM connector	Terminal	Fuel lid lock actuator connector	Terminal	Continuity
M119	8	B242	2	Existed
	9		1	

4. Check continuity between BCM harness connector and ground.

BCM connector	Terminal		Continuity
M119	8	Ground	Not existed
	9		

Is the inspection result normal?

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

3.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

INTELLIGENT KEY WARNING BUZZER

Description

INFOID:0000000001683122

Warns when an inappropriate operation is performed.

Component Function Check

INFOID:0000000001683123

1.CHECK FUNCTION

With CONSULT-III

Check Intelligent Key warning buzzer (“OUTSIDE BUZZER”) in Active Test mode.

Is the inspection result normal?

YES >> Intelligent Key warning buzzer (engine room) is OK.
NO >> Refer to DLK-91, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683124

1.CHECK BCM OUTPUT SIGNAL

Check voltage between BCM harness connector and ground.

Terminals			Condition		Voltage (V) (Approx.)
(+)		(–)			
BCM connector	Terminal				
M121	64	Ground	Intelligent Key warning buzzer	Active	0
				Inactive	Battery voltage

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 2.

2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key warning buzzer connector.
3. Check voltage between Intelligent Key warning buzzer connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Intelligent Key warning buzzer connector	Terminal		
E57	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace Intelligent Key warning buzzer power supply circuit.

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 connector	Terminal	Intelligent Key warning buzzer connector	Terminal	Continuity
M121	64	E57	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M121	64		Not existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness between BCM and Intelligent Key warning buzzer.

4. CHECK INTELLIGENT KEY WARNING BUZZER

Check DLK-92, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace Intelligent Key warning buzzer. Refer to DLK-242, "Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Check GI-38, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000001683125

1. CHECK INTELLIGENT KEY WARNING BUZZER

Connect battery power supply to Intelligent Key warning buzzer terminals 1 and 3, and check the operation.

1 (BAT+) - 3 (BAT-) : The buzzer sounds

Is the inspection result normal?

YES >> INSPECTION END.
NO >> Replace Intelligent Key warning buzzer. Refer to DLK-242, "Removal and Installation".

OUTSIDE KEY ANTENNA

Description

INFOID:0000000001683126

Detects whether Intelligent Key is outside the vehicle.
Integrated in front outside handle (driver side, passenger side) and installed in rear bumper.

Component Function Check

INFOID:0000000001683127

1.CHECK DOOR REQUEST SWITCH

Check that door request switch operates normally.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Inspect door request switch. Refer to DLK-83, "Component Function Check".

2.CHECK FUNCTION

Be sure that Intelligent Key is in each outside key antenna detection range.

Does door lock/unlock when each request switch is pressed?

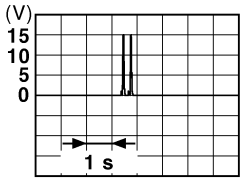
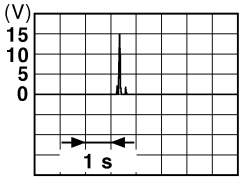
YES >> Outside key antenna is OK.
NO >> Refer to DLK-93, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683128

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

Terminals			Condition		Signal (Reference value)
(+)		(–)			
BCM connector	Terminal				
M122	77	Ground	Request switch is pushed	When Intelligent Key is in the antenna detection area.	 JMKIA0061GB
	75				
M121	39			When Intelligent Key is not in the antenna detection area.	 JMKIA0060GB

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and front outside handle connector.
2. Check continuity between BCM harness connector and outside key antenna harness connector.

BCM connector	Terminal	Outside key antenna connector	Terminal	Continuity
M122	77	D14 (driver side)	1	Existed
	76		2	
	75	D44 (passenger side)	1	
	74		2	
M121	39	B63 (rear bumper)	1	
	38		2	

3. Check continuity between BCM harness connector and ground.

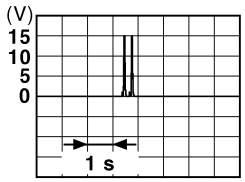
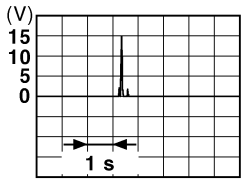
BCM connector	Terminal		Continuity
M122	74	Ground	Not existed
	75		
	76		
	77		
M121	39		
	38		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace harness between BCM and outside key antenna.

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

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

Terminals (+) BCM connector	Terminals (+) Terminal	Terminals (–)	Condition		Signal (Reference value)
M122	77	Ground	Door request switch is pushed	When Intelligent Key is in the antenna detection area.	 JMKIA0061GB
	75				
M121	39			When Intelligent Key is not in the antenna detection area.	 JMKIA0060GB

Is the inspection result normal?

YES >> Replace outside key antenna. Refer to DLK-230, "DOOR LOCK : Removal and Installation" (Driver side and passenger side), EXT-17, "Removal and Installation" (Rear bumper)
NO >> GO TO 4.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

REMOTE KEYLESS ENTRY RECEIVER

Description

INFOID:0000000001683129

Receives Intelligent Key operation and transmits to BCM.

Component Function Check

INFOID:0000000001683130

1.CHECK FUNCTION

With CONSULT-III

Check remote keyless entry receiver (“RKE OPE COUN1”) in Data Monitor mode with CONSULT-III.

Monitor item	Condition
RKE OPE COUN1	Checks whether value changes when operating Intelligent Key.

Is the inspection result normal?

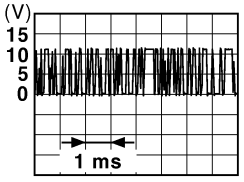
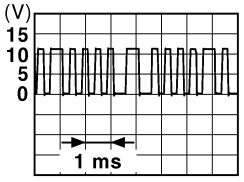
YES >> Remote keyless entry receiver is OK.
NO >> Refer to DLK-96, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683131

1.CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

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

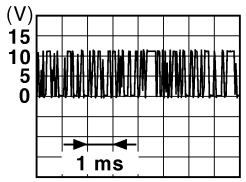
Terminals			Condition	Signal (Reference value)
(+)		(–)		
Remote keyless entry receiver connector	Terminal			
M104	2	Ground	Waiting (All door closed)	 JMKIA0064GB
			When signal is received (All door closed)	 JMKIA0065GB

Is the inspection result normal?

YES >> GO TO 7.
NO >> GO TO 2.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

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

Terminal			Signal (Reference value)
(+)		(–)	
Remote keyless entry receiver connector	Terminal		
M104	4	Ground	 JMKIA0064GB

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 3.

3. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

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

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M122	103	M104	4	Existed

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M122	103		Not existed

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace harness between BCM and remote keyless entry receiver.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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

Remote keyless entry receiver connector	Terminal	Ground	Continuity
M104	1		Existed

Is the inspection result normal?

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

5. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2

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

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M123	137	M104	1	Existed

2. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M122	137		Not existed

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace harness between BCM and remote keyless entry receiver.

6.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 3

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

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M122	83	M104	2	Existed

2. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M122	83		Not existed

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace harness between BCM and remote keyless entry.

7.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

INTELLIGENT KEY

Description

INFOID:0000000001683132

The following functions are available when carrying electronic ID.
- Door lock/unlock and trunk open
- Engine start

Remote control entry function and panic alarm function are available when operating on button.

Component Function Check

INFOID:0000000001683133

1.CHECK FUNCTION

With CONSULT-III

Check remote keyless entry receiver (“RKE OPE COUN1”) in Data Monitor mode with CONSULT-III.

Monitor item	Condition
RKE OPE COUN1	Check that the numerical value is changing while operating on the Intelligent Key.

Is the inspection result normal?

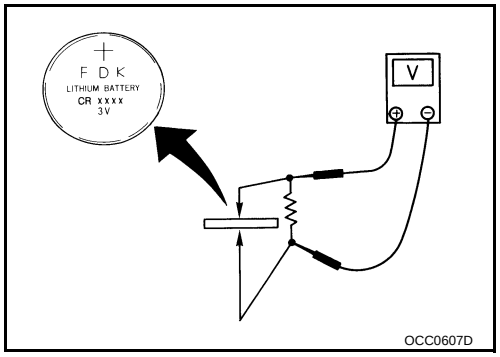
YES >> Intelligent Key is OK.
NO >> Refer to DLK-99, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683134

1.CHECK INTELLIGENT KEY BATTERY

Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA.



Standard : Approx. 2.5 - 3.0V

Is the measurement value within the specification?

YES >> Replace Intelligent Key.
NO >> Replace Intelligent Key battery. Refer to DLK-99, "Component Inspection".

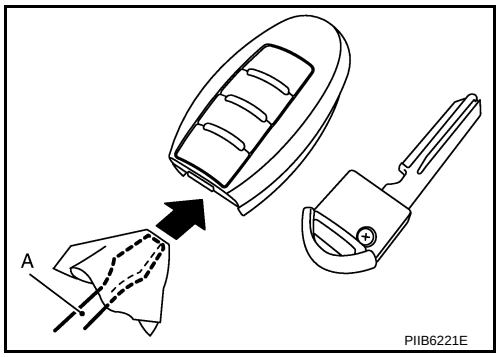
Component Inspection

INFOID:0000000001683135

1. REPLACE INTELLIGENT KEY BATTERY

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.
2. Insert a flat-blade screwdriver (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.

CAUTION:
- **Do not touch the circuit board or battery terminal.**
- **The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.**

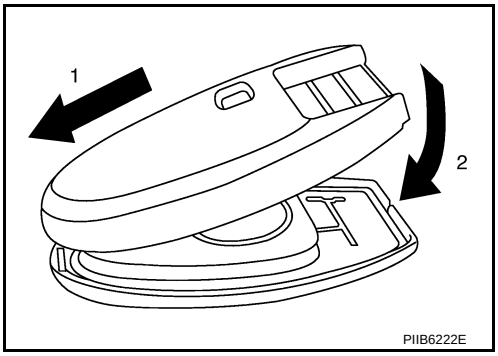


3. Replace the battery with new one.

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.**



Is the inspection result normal?

YES >> Intelligent Key is OK.
NO >> Check remote keyless entry receiver. Refer to DLK-96, "Component Function Check".

Special Repair Requirement

INFOID:0000000001683136

Refer to CONSULT-III Operation Manual NATS-IVIS/NVIS.

KEY SLOT ILLUMINATION

Description

INFOID:0000000001683137

Blinks when Intelligent Key insertion is required.

Component Function Check

INFOID:0000000001683138

1.CHECK FUNCTION

With CONSULT-III

Check key slot illumination (“KEY SLOT ILLUMI”) Active Test mode with CONSULT-III.

Is the inspection result normal?

YES >> Key slot function is OK.
NO >> Refer to DLK-101, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683139

1.CHECK KEY SLOT ILLUMINATION OUTPUT SIGNAL

Check voltage between key slot harness connector and ground.

Terminals			Condition	Key slot illumination	Voltage (V) (Approx.)
(+)		(–)			
Key slot connector	Terminal				
M22	6	Ground	Intelligent Key inserted	OFF	Battery voltage
			Intelligent Key removed	ON	0

Is the inspection result normal?

YES >> GO TO 6.
NO >> GO TO 2.

2.CHECK KEY SLOT POWER SUPPLY CIRCUIT

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

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Key slot connector	Terminal		
M22	1	Ground	Battery voltage
	5		

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace key slot power supply circuit.

3.CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector and ground.

Key slot connector	Terminal	Ground	Continuity
M22	7		Existed

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace key slot ground circuit.

4. CHECK KEY SLOT CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and key slot harness connector.

BCM connector	Terminal	Key slot connector	Terminal	Continuity
M122	92	M22	6	Existed

3. Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M122	92		Not existed

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness between BCM and key slot.

5. CHECK KEY SLOT

Refer to DLK-72, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 6.
NO >> Replace key slot. Refer to DLK-243, "Removal and Installation".

6. CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

COMBINATION METER DISPLAY FUNCTION

Description

INFOID:0000000001683143

Displays each operation method guide and warning for system malfunction.

Component Function Check

INFOID:0000000001683144

1.CHECK FUNCTION

With CONSULT-III

Check the operation with (“LCD”) in the Active Test with CONSULT-III.

Is each warning displayed on meter display?

Is the inspection result normal?

YES >> Meter display is OK.
NO >> Refer to DLK-103, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683145

1.CHECK COMBINATION METER

Refer to MWI-35, "Diagnosis Description".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check combination meter. Refer to MWI-4, "Work flow".

2.CHECK INTERMITTENT INCIDENT

Refer toGI-38, "Intermittent Incident".

>> INSPECTION END.

BUZZER (COMBINATION METER)

Description

INFOID:0000000001683146

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:0000000001683147

1.CHECK FUNCTION

With CONSULT-III

1. Check the operation with “INSIDE BUZZER” in the Active Test with CONSULT-III.
2. Touch “TAKE OUT”, “KNOB”or “KEY”on screen.

Is the inspection result normal?

Yes >> Warning buzzer into combination meter is OK.
No >> Refer to DLK-104, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683148

1.CHECK METER BUZZER CIRCUIT

Refer to WCS-23, "Component Function Check".

Is the inspection result normal?

Yes >> GO TO 2.
No >> Repair or replace meter buzzer circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END.

KEY WARNING LAMP

Description

INFOID:0000000001723453

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:0000000001723454

1.CHECK FUNCTION

With CONSULT-III

Check the operation with “INDICATOR” in “Active Test” mode with CONSULT-III.

Test item	Condition	
INDICATOR	:BLUE ON	Key warning lamp (green) illuminates
	:RED ON	Key warning lamp (red) illuminates
	:BLUE IND	Key warning lamp (green) flashes
	:RED IND	Key warning lamp (red) flashes

Is the inspection result normal?

Yes >> Key warning lamp in combination meter is OK.
No >> Refer to DLK-105, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001723455

1.CHECK KEY WARNING LAMP

Refer toMWI-50, "COMBINATION METER : Diagnosis Procedure" .

Is the inspection result normal?

Yes >> GO TO 2.
No >> Repair or replace key warning lamp circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

HORN FUNCTION

Description

INFOID:0000000001683140

Perform answer-back for each operation with horn.

Component Function Check

INFOID:0000000001683141

1.CHECK FUNCTION

1. Select “HORN” in “Active Test” mode with CONSULT-III.
2. Check the horn (high/low) operation.

Test item		Description	
HORN	ON	Horn relay 1 and 2	ON (for 20 ms)

Is the operation normal?

YES >> INSPECTION END
NO >> Refer to DLK-106, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683142

1.CHECK HORN FUNCTION

Check horn function with horn switch

Do the horns sound?

YES >> GO TO 2.
NO >> Refer to HRN-2, "Wiring Diagram - HORN -".

2.CHECK HORN RELAY POWER SUPPLY

1. Turn ignition switch ON.
2. Perform “ACTIVE TEST” (“HORN”) with CONSULT-Ill.
3. Check voltage between horn relay 1 and 2 harness connector and ground.

Horn relay1/2		Ground	Test item		Voltage (V) (Applox.)
Connector	Terminal				
E11	1	Ground	HORN	ON	0 → Battery voltage →0
				Other than above	0
E18	3			ON	0 → Battery voltage →0
				Other than above	0

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 3.

3.CHECK HORN RELAY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R and horn relay 1 and 2 connector.
3. Check continuity between IPDM E/R harness connector and horn relay 1 and 2 harness connector.

IPDM E/R		Horn relay 1 and 2		Continuity
Connector	Terminal	Connector	Terminal	
E46	44	E11	1	Existed
	45	E10	3	

4. Check continuity between driver seat control unit harness connector and ground.

IPDM E/R		Ground	Continuity
Connector	Terminal		

E46	44 45	Ground	Not existed

Is the inspection result normal?

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

4. CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-34, "Removal and Installation".
NO >> Repair or replace the malfunctioning parts.

HAZARD FUNCTION

Description

INFOID:0000000001683149

Perform answer-back for each operation with number of blinks.

Component Function Check

INFOID:0000000001683150

1.CHECK FUNCTION

Check hazard warning lamp (“FLASHER”) in Active Test with CONSULT-III.

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.
NO >> Refer to DLK-108, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001683151

1.CHECK HAZARD SWITCH CIRCUIT

Refer to EXL-82, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace hazard warning switch circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-38, "Intermittent Incident".

>> INSPECTION END.

INTEGRATED HOMELINK TRANSMITTER

Description

INFOID:0000000001683152

Integrated Homelink Transmitter can store and transmit a maximum of 3 radio signals.
Allows operation of garage doors, gates, home and office lighting, entry door locks and security system, etc.
Integrated Homelink Transmitter power supply uses vehicle battery, which enables it to maintain every program in case battery is discharged or removed.

Component Function Check

INFOID:0000000001683153

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> GO TO 2.
NO >> Receiver or hand-held transmitter is malfunctioning.

2.CHECK ILLUMINATION

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Refer to DLK-109, "Diagnosis Procedure".

3.CHECK TRANSMITTER

Check transmitter with Tool*.
*:For details, refer to Technical Service Bulletin.

Is the inspection result normal?

YES >> Receiver or hand-held transmitter malfunction, not vehicle related.
NO >> Replace auto anti-dazzling inside mirror (integrated homelink transmitter). Refer to MIR-48, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000001683154

1.CHECK POWER SUPPLY

1. Disconnect auto anti-dazzling inside mirror (integrated homelink transmitter) connector.
2. Check voltage between auto anti-dazzling inside mirror (integrated homelink transmitter) harness connector and ground.

Auto anti-dazzling inside mirror (Integrated homelink transmitter) connector	Terminal		Condition	Voltage (V) (Approx.)
R3	10	Ground	Ignition switch position: LOCK	Battery voltage
			Ignition switch position: ON	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check the following.
- 10A fuse [No. 6 located in the fuse block (J/B)]
- Harness for open or short between fuse and auto anti-dazzling inside mirror (integrated homelink transmitter).

2.CHECK GROUND CIRCUIT

Check continuity between auto anti-dazzling inside mirror (integrated homelink transmitter) harness connector and ground.

Auto anti-dazzling inside mirror (Integrated homelink transmitter) connector	Terminal	Ground	Continuity
R3	8		Existed

Is the inspection result normal?

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

3. CHECK INTERMITTENT INCIDENT

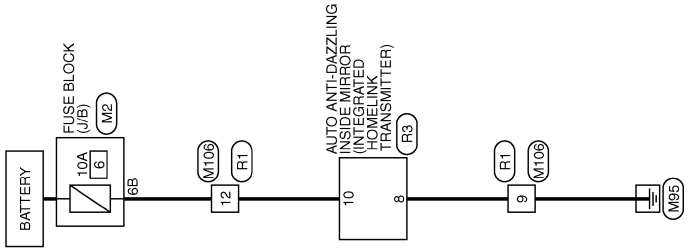
Refer to GI-38, "Intermittent Incident".

>> INSPECTION END

INTEGRATED HOMELINK TRANSMITTER SYSTEM

Wiring Diagram - INTEGRATED HOMELINK TRANSMITTER SYSTEM -

INFOID:0000000001683155



INTEGRATED HOMELINK TRANSMITTER

2007/05/18

JCKWA0630GE

INTEGRATED HOMELINK TRANSMITTER

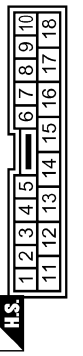
Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
6B	Y	–

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8

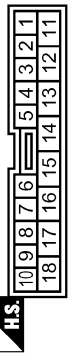
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
9	B	–
12	G	–

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
9	B	–
12	GR	–

Connector No.	R3
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH10FB-NH

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
8	B	GND
10	GR	BAT

JCKWA0631GE

ECU DIAGNOSIS

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000001911530

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
FR WIPER HI	Other than front wiper switch HI	Off
	Front wiper switch HI	On
FR WIPER LOW	Other than front wiper switch LO	Off
	Front wiper switch LO	On
FR WASHER SW	Front washer switch OFF	Off
	Front washer switch ON	On
FR WIPER INT	Other than front wiper switch INT	Off
	Front wiper switch INT	On
FR WIPER STOP	Front wiper is not in STOP position	Off
	Front wiper is in STOP position	On
INT VOLUME	Wiper intermittent dial is in a dial position 1 - 7	Wiper intermittent dial position
TURN SIGNAL R	Other than turn signal switch RH	Off
	Turn signal switch RH	On
TURN SIGNAL L	Other than turn signal switch LH	Off
	Turn signal switch LH	On
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off
	Lighting switch 1ST or 2ND	On
HI BEAM SW	Other than lighting switch HI	Off
	Lighting switch HI	On
HEAD LAMP SW 1	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
HEAD LAMP SW 2	Other than lighting switch 2ND	Off
	Lighting switch 2ND	On
PASSING SW	Other than lighting switch PASS	Off
	Lighting switch PASS	On
AUTO LIGHT SW	Other than lighting switch AUTO	Off
	Lighting switch AUTO	On
FR FOG SW	Front fog lamp switch OFF	Off
	Front fog lamp switch ON	On
RR FOG SW	**NOTE:** The item is indicated, but not monitored.	Off
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	**NOTE:** The item is indicated, but not monitored.	Off
DOOR SW-RL	**NOTE:** The item is indicated, but not monitored.	Off

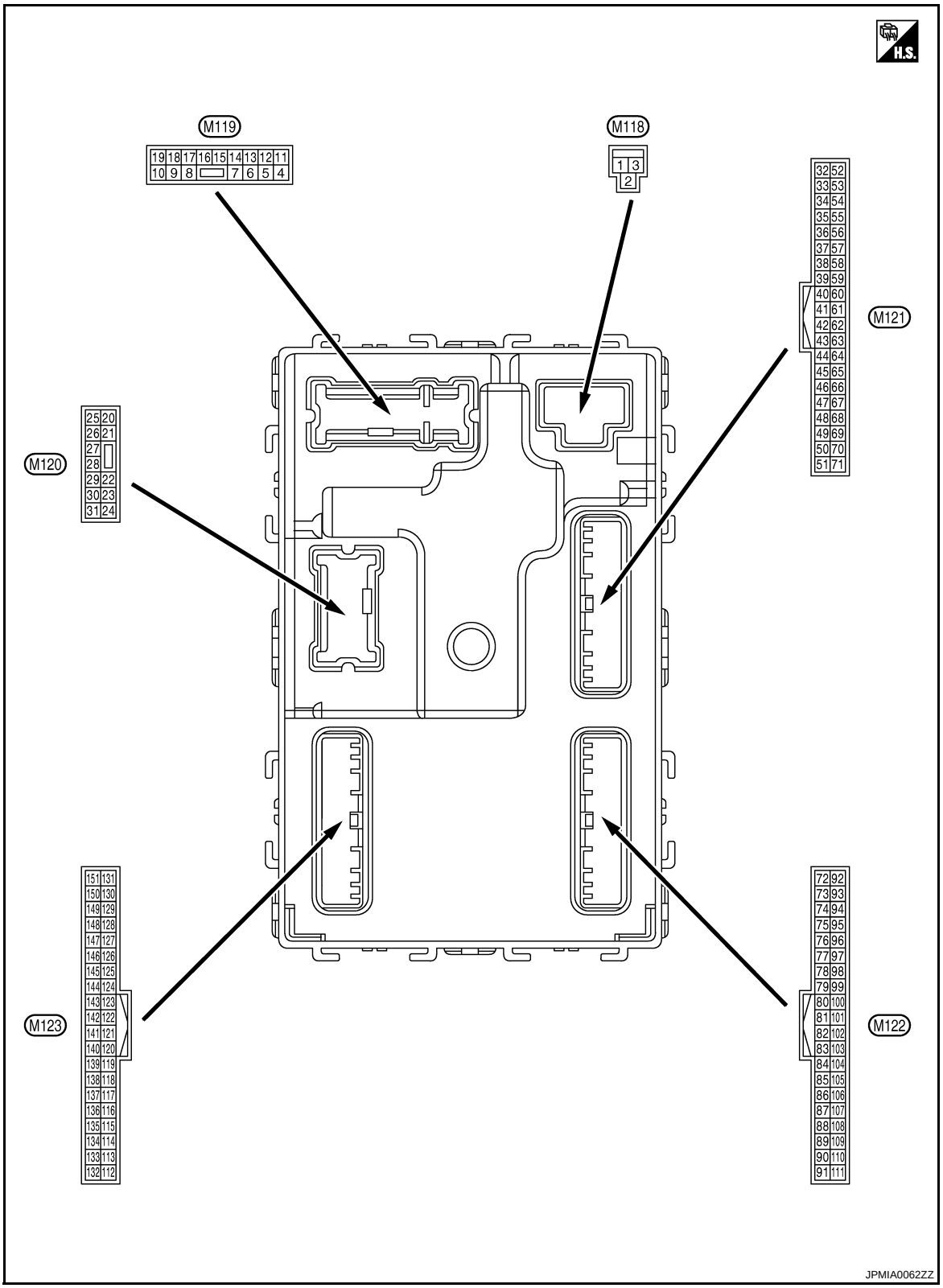
Monitor Item	Condition	Value/Status
DOOR SW-BK	**NOTE:** The item is indicated, but not monitored.	Off
CDL LOCK SW	Other than power door lock switch LOCK	Off
	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	**NOTE:** The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is not pressed	Off
	Hazard switch is pressed	On
REAR DEF SW	**NOTE:** The item is indicated, but not monitored.	Off
H/L WASH SW	**NOTE:** The item is indicated, but not monitored.	Off
TR CANCEL SW	Trunk lid opener cancel switch OFF	Off
	Trunk lid opener cancel switch ON	On
TR/BD OPEN SW	Trunk lid opener switch OFF	Off
	While the trunk lid opener switch is turned ON	On
TRNK/HAT MNTR	Trunk lid closed	Off
	Trunk lid opened	On
RKE-LOCK	LOCK button of Intelligent Key is not pressed	Off
	LOCK button of Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of Intelligent Key is not pressed	Off
	UNLOCK button of Intelligent Key is pressed	On
RKE-TR/BD	TRUNK OPEN button of Intelligent Key is not pressed	Off
	TRUNK OPEN button of Intelligent Key is pressed	On
RKE-PANIC	PANIC button of Intelligent Key is not pressed	Off
	PANIC button of Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of Intelligent Key is not pressed	Off
	UNLOCK button of Intelligent Key is pressed and held	On
RKE-MODE CHG	LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
	Dark outside of the vehicle	Close to 0 V
REQ SW-DR	Driver door request switch is not pressed	Off
	Driver door request switch is pressed	On
REQ SW-AS	Passenger door request switch is not pressed	Off
	Passenger door request switch is pressed	On
REQ SW-BD/TR	Trunk request switch is not pressed	Off
	Trunk request switch is pressed	On

Monitor Item	Condition	Value/Status
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
ACC RLY -F/B	Ignition switch in OFF position	Off
	Ignition switch in ACC or ON position	On
CLUCH SW	The clutch pedal is not depressed	Off
	The clutch pedal is depressed	On
BRAKE SW 1	The brake pedal is not depressed	On
	The brake pedal is depressed	Off
DETE/CANCL SW	Selector lever in P position	Off
	Selector lever in any position other than P	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
S/L -LOCK	Steering is locked	Off
	Steering is unlocked	On
S/L -UNLOCK	Steering is unlocked	Off
	Steering is locked	On
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
UNLK SEN-DR	Driver door is unlocked	Off
	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in P position	Off
	Selector lever in any position other than P	On
SFT PN -IPDM	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
SFT P -MET	Selector lever in any position other than P	Off
	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
	Selector lever in N position	On
ENGINE STATE	Engine stopped	Stop
	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is locked	Off
	Steering is unlocked	On
S/L UNLK-IPDM	Steering is unlocked	Off
	Steering is locked	On
S/L RELAY-REQ	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On

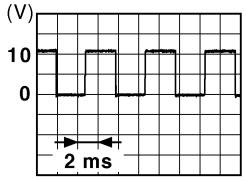
Monitor Item	Condition	Value/Status
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DR DOOR STATE	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLK
AR DOOR STATE	Passenger door is locked	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Passenger door is unlocked	UNLK
ID OK FLAG	Ignition switch in ACC or ON position	Reset
	Ignition switch in OFF position	Set
PRMT ENG STRT	The engine start is prohibited	Reset
	The engine start is permitted	Set
PRMT RKE STRT	**NOTE:** The item is indicated, but not monitored.	Reset
KEY SW -SLOT	Intelligent Key is not inserted into key slot	Off
	Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
RKE OPE COUN2	**NOTE:** The item is indicated, but not monitored.	—
CONFRM ID ALL	The key ID that the key slot receives does not accord with any key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with any key ID registered to BCM.	DONE
CONFIRM ID4	The key ID that the key slot receives does not accord with the fourth key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the fourth key ID registered to BCM.	DONE
CONFIRM ID3	The key ID that the key slot receives does not accord with the third key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the third key ID registered to BCM.	DONE
CONFIRM ID2	The key ID that the key slot receives does not accord with the second key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the second key ID registered to BCM.	DONE
CONFIRM ID1	The key ID that the key slot receives does not accord with the first key ID registered to BCM.	Yet
	The key ID that the key slot receives accords with the first key ID registered to BCM.	DONE
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
	The ID of fourth Intelligent Key is registered to BCM	DONE
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
	The ID of third Intelligent Key is registered to BCM	DONE
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
	The ID of second Intelligent Key is registered to BCM	DONE
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
	The ID of first Intelligent Key is registered to BCM	DONE

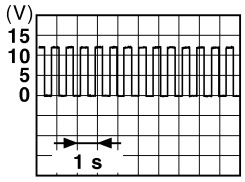
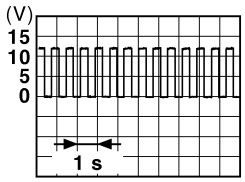
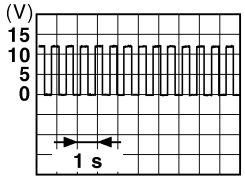
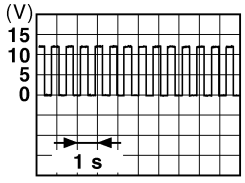
Monitor Item	Condition	Value/Status
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Green
	ID of front LH tire transmitter is not registered	Red
ID REGST FR1	ID of front RH tire transmitter is registered	Green
	ID of front RH tire transmitter is not registered	Red
ID REGST RR1	ID of rear RH tire transmitter is registered	Green
	ID of rear RH tire transmitter is not registered	Red
ID REGST RL1	ID of rear LH tire transmitter is registered	Green
	ID of rear LH tire transmitter is not registered	Red
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

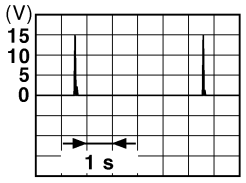
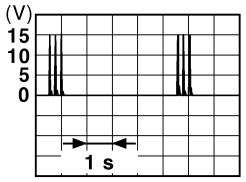
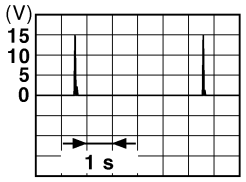
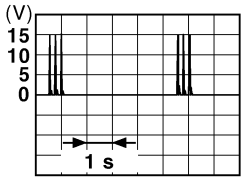
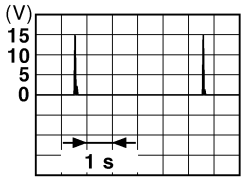
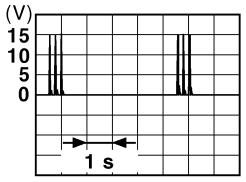
TERMINAL LAYOUT

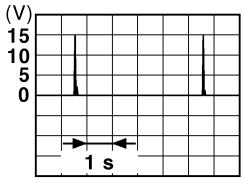
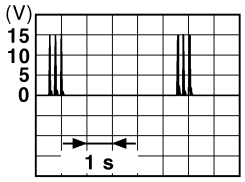
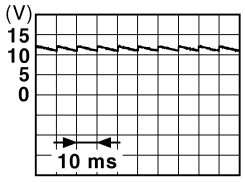
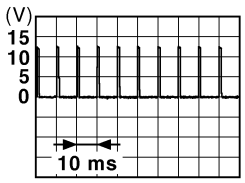


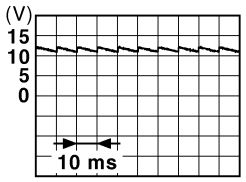
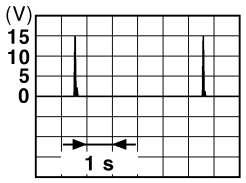
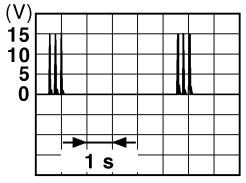
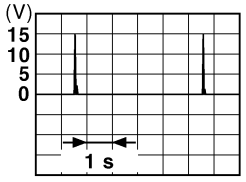
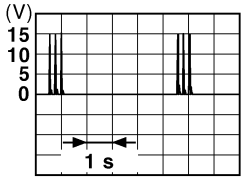
PHYSICAL VALUES

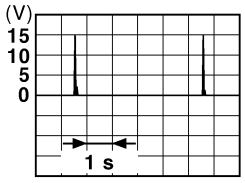
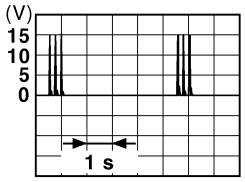
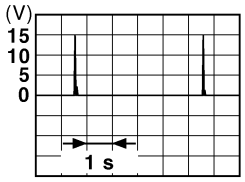
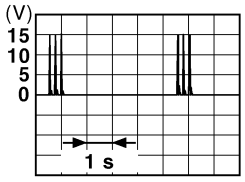
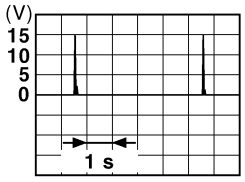
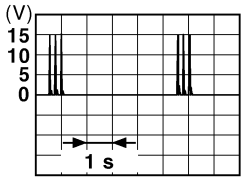
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
4 (LG)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time		0 V
				Any other time after passing the interior room lamp battery saver operation time		Battery voltage
5 (P)	Ground	Passenger door UNLOCK	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
7 (Y)	Ground	Step lamp	Output	Step lamp	ON	0 V
					OFF	Battery voltage
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	Battery voltage
					Other than LOCK (Actuator is not activated)	0 V
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	OFF	0 V
					ON	**NOTE:** When the illumination brightening/dimming level is in the neutral position  JSNIA0010GB
15 (O)	Ground	ACC indicator lamp	Output	Ignition switch	OFF	Battery voltage
					ACC or ON	0 V

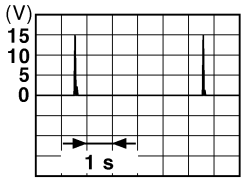
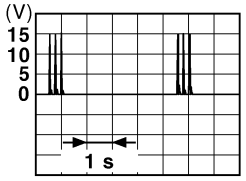
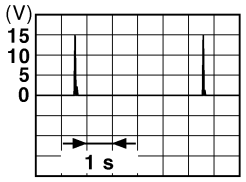
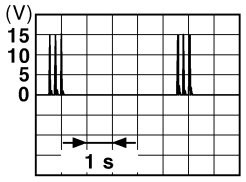
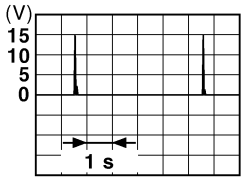
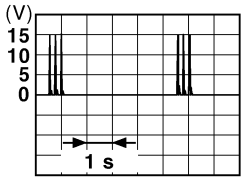
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
17 (V)	Ground	Turn signal (front RH)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V
18 (G)	Ground	Turn signal (front LH)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKID0926E 6.5 V
19 (V)	Ground	Room lamp timer control	Output	Interior room lamp	OFF	Battery voltage
					ON	0 V
20 (V)	Ground	Turn signal (rear RH)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V
23 (G)	Ground	Trunk lid opening.	Output	Trunk lid	Open (Trunk lid opener actuator is activated)	Battery voltage
					Close (Trunk lid opener actuator is not activated)	0 V
25 (G)	Ground	Turn signal (rear LH)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKID0926E 6.5 V
30 (R)	Ground	Trunk room lamp	Output	Trunk room lamp	ON	0 V
					OFF	Battery voltage

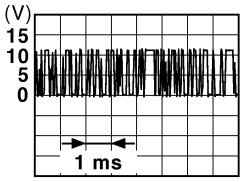
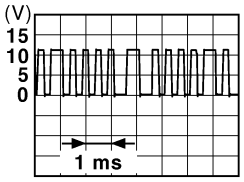
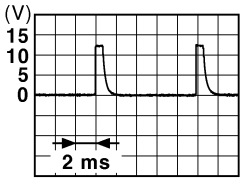
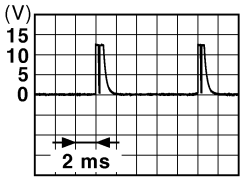
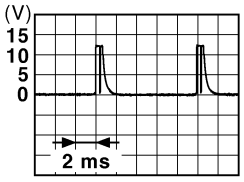
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
34 (SB)	Ground	Trunk room antenna 1 (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
35 (V)	Ground	Trunk room antenna 1 (+)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
38 (B)	Ground	Rear bumper antenna (-)	Output	When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB

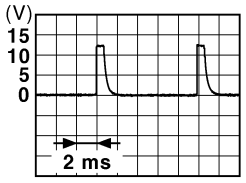
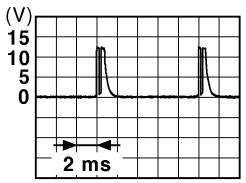
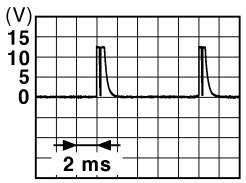
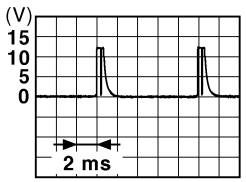
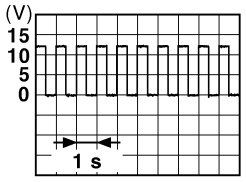
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
39 (W)	Ground	Rear bumper antenna (+)	Output	When the trunk lid request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
47 (Y)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V
50 (R)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk is closed)	 JPMIA0011GB 11.8 V
					ON (Trunk is open)	0 V
52 (SB)	Ground	Starter relay control	Output	Ignition switch OFF (M/T models)	When the clutch pedal is depressed	Battery voltage
					When the clutch pedal is not depressed	0 V
				Ignition switch ON (A/T models)	When selector lever is in P or N position and the brake is depressed	Battery voltage
					When selector lever is in P or N position and the brake is not depressed	0 V
61 (SB)	Ground	Trunk request switch	Input	Trunk request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
64 (L)	Ground	Request switch buzzer	Output	Request switch buzzer	Sounding	0 V
					Not sounding	Battery voltage

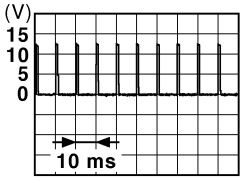
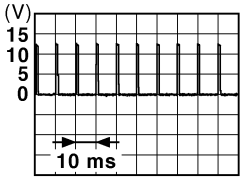
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	–					
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed	0 V
					Not pressed	 JPMIA0011GB 11.8 V
72 (R)	Ground	Room antenna 2 (-) (center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
73 (G)	Ground	Room antenna 2 (+) (center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB

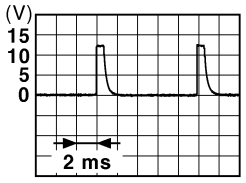
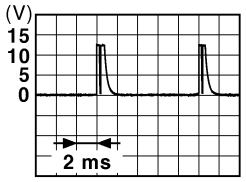
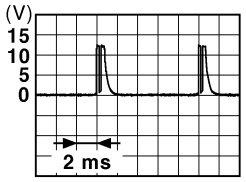
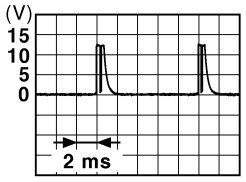
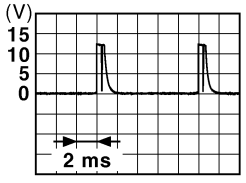
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
74 (SB)	Ground	Passenger door antenna (-)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
75 (BR)	Ground	Passenger door antenna (+)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
76 (V)	Ground	Driver door antenna (-)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB

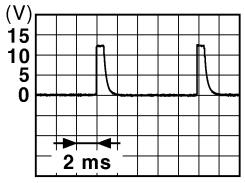
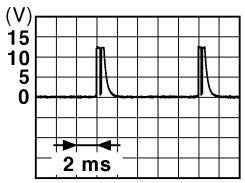
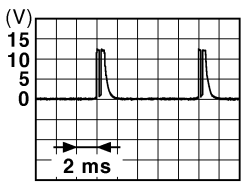
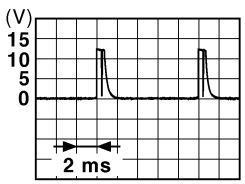
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
77 (LG)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
78 (Y)	Ground	Room antenna (-) (instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
79 (BR)	Ground	Room antenna (+) (instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB

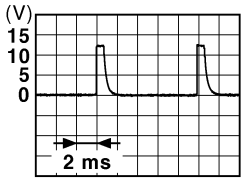
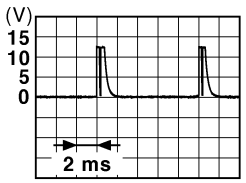
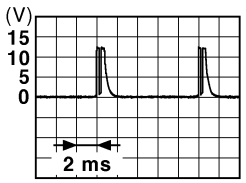
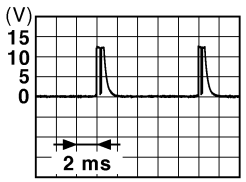
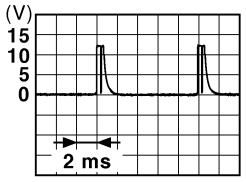
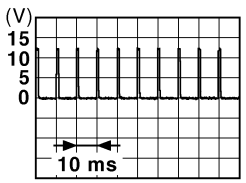
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
80 (GR)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp (built in key slot)	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (R)	Ground	Ignition relay [fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
83 (Y)	Ground	Remote keyless entry receiver signal	Input/ Output	During waiting		 JMKIA0064GB
				When operating either button on Intelligent Key		 JMKIA0065GB
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
					Front fog lamp switch ON (Wiper intermittent dial 4)	 JPMIA0037GB 1.3 V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	 JPMIA0040GB 1.3 V

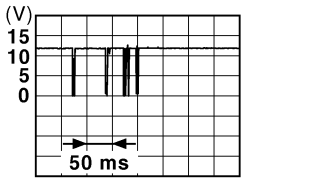
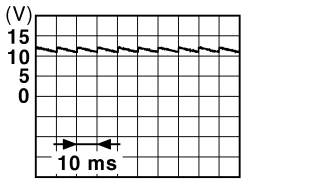
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
88 (O)	Ground	Combination switch INPUT 3	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
					Lighting switch HI (Wiper intermittent dial 4)	 JPMIA0036GB 1.3 V
					Lighting switch 2ND (Wiper intermittent dial 4)	 JPMIA0037GB 1.3 V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3	 JPMIA0040GB 1.3 V
89 (BR)	Ground	Push-button ignition switch (push switch)	Input	Push-button ignition switch (push switch)	Pressed	0 V
					Not pressed	Battery voltage
90 (P)	Ground	CAN - L	Input/ Output	—		—
91 (L)	Ground	CAN - H	Input/ Output	—		—
92 (LG)	Ground	Key slot illumination	Output	Key slot illumination	OFF	0 V
					Blinking	 JPMIA0015GB 6.5 V
					ON	Battery voltage

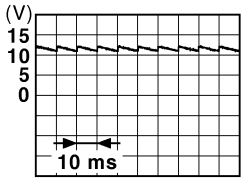
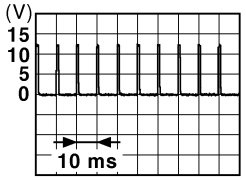
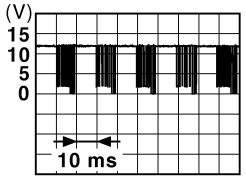
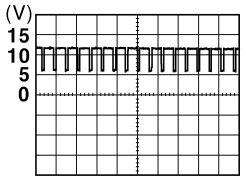
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
95 (O)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage
96 (Y)	Ground	A/T device (detention switch) power supply	Output	—		Battery voltage
97 (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status	0 V
					UNLOCK status	Battery voltage
98 (P)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	Battery voltage
					UNLOCK status	0 V
99 (R)	Ground	Selector lever P position switch (Except M/T models)	Input	Selector lever	P position	0 V
					Any position other than P	Battery voltage
		ASCD clutch switch (M/T models with ICC)		ASCD clutch switch	OFF (Clutch pedal is depressed)	0 V
					ON (Clutch pedal is not depressed)	Battery voltage
		ICC clutch switch (M/T models without ICC)		ICC clutch switch	OFF (Clutch pedal is depressed)	0 V
					ON (Clutch pedal is not depressed)	Battery voltage
100 (Y)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
101 (P)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
102 (O)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage
106 (W)	Ground	Steering wheel lock unit power supply	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V

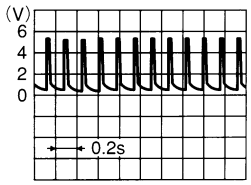
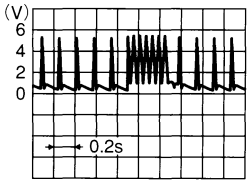
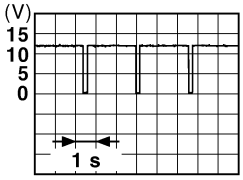
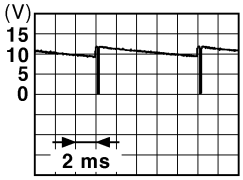
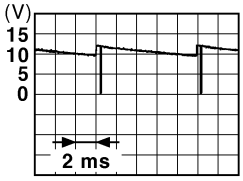
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	 JPMIA0041GB 1.4 V
					Turn signal switch LH	 JPMIA0037GB 1.3 V
					Turn signal switch RH	 JPMIA0036GB 1.3 V
					Front wiper switch LO	 JPMIA0038GB 1.3 V
					Front washer switch ON	 JPMIA0039GB 1.3 V

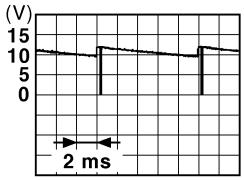
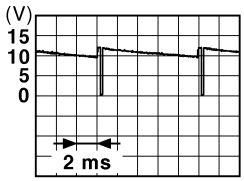
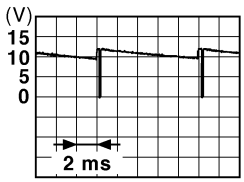
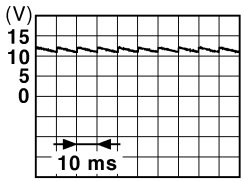
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switch OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
					Lighting switch AUTO (Wiper intermittent dial 4)	 JPMIA0038GB 1.3 V
					Lighting switch 1ST (Wiper intermittent dial 4)	 JPMIA0036GB 1.3 V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	 JPMIA0039GB 1.3 V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
109 (W)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	All switch OFF	 JPMIA0041GB 1.4 V
					Lighting switch PASS	 JPMIA0037GB 1.3 V
					Lighting switch 2ND	 JPMIA0036GB 1.3 V
					Front wiper switch INT	 JPMIA0038GB 1.3 V
					Front wiper switch HI	 JPMIA0040GB 1.3 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	Pressed	0 V
					Not pressed	 JPMIA0012GB 1.1 V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	–					
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	Battery voltage
					LOCK or UNLOCK	 JMKIA0066GB
					For 15 seconds after UNLOCK	Battery voltage
					15 seconds or later after UNLOCK	0 V
113 (P)	Ground	Optical sensor signal	Input	Ignition switch ON	When bright outside of the vehicle	Close to 5 V
					When dark outside of the vehicle	Close to 0 V
114 (R)	Ground	Clutch interlock switch	Input	Clutch interlock switch	OFF (Clutch pedal is not depressed)	0 V
					ON (Clutch pedal is depressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input	—		Battery voltage
118 (BR)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is depressed)	Battery voltage
				ICC brake hold relay (With ICC)	OFF	0 V
					ON	Battery voltage
119 (SB)	Ground	Front door lock assembly driver side (unlock sensor)	Input	Driver door	LOCK status	 JPMIA0011GB 11.8 V
					UNLOCK status	0 V
121 (SB)	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot		Battery voltage
				When Intelligent Key is not inserted into key slot		0 V
122 (P)	Ground	ACC feedback signal	Input	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage
123 (W)	Ground	IGN feedback signal	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closes)	 JPMIA0011GB 11.8 V
					ON (When passenger door opens)	0 V
129 (O)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	 JPMIA0012GB 1.1 V
					ON	0 V
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		 JPMIA0013GB 10.2 V
				Ignition switch OFF or ACC		0 V
133 (L)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (When tail lamps OFF)	5.5 V
					ON (When tail lamps ON)	**NOTE:** The pulse width of this wave is varied by the illumination brightening/dimming level.  JPMIA0159GB
					OFF	0 V
134 (LG)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON	0 V
					OFF	Battery voltage
137 (O)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138 (V)	Ground	Receiver and sensor power supply output	Output	Ignition switch	OFF	0 V
					ACC or ON	5.0 V

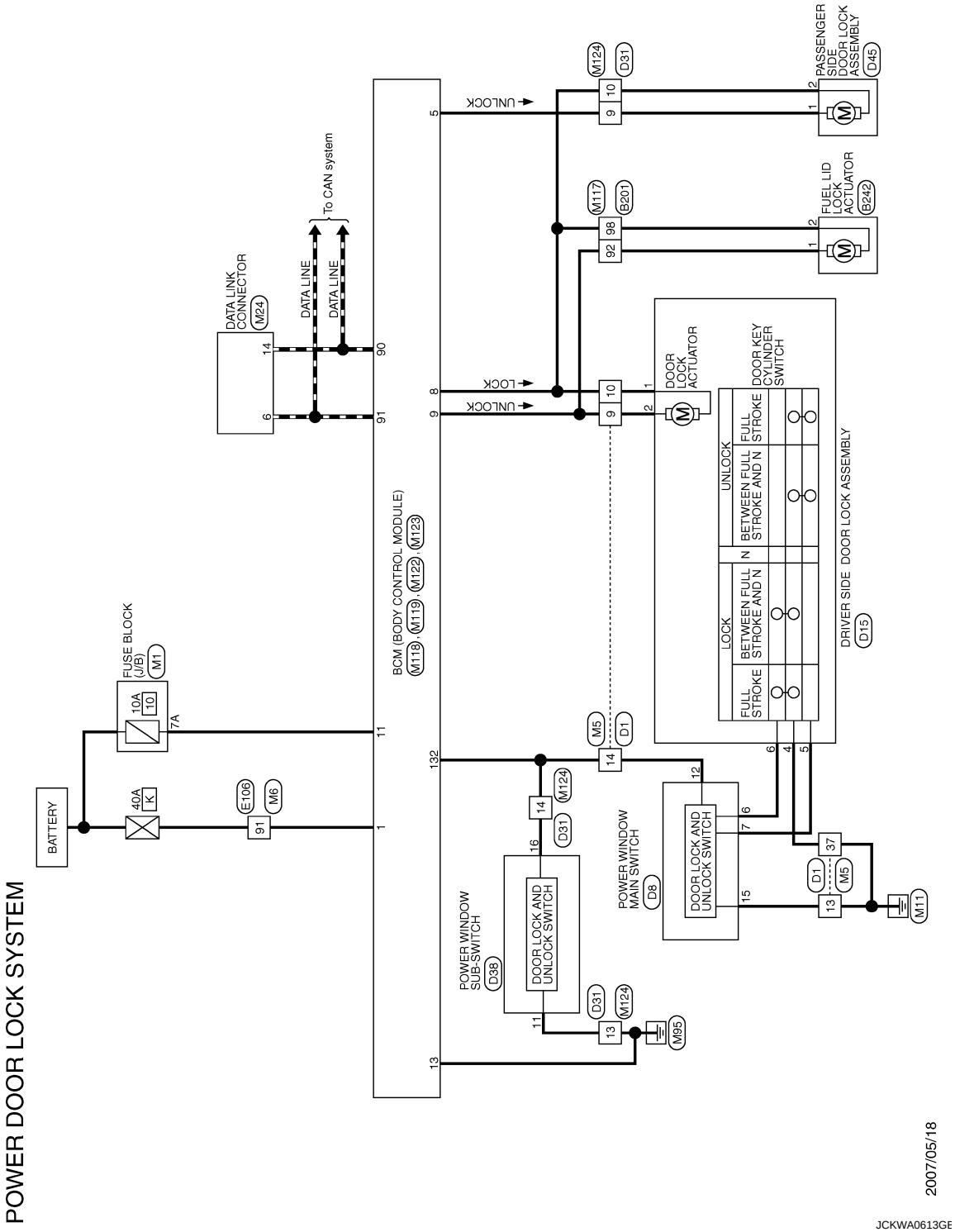
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
139 (L)	Ground	Tire pressure receiver signal	Input/ Output	Ignition switch ON	Standby state	 OCC3881D
					When receiving the signal from the transmitter	 OCC3880D
140 (GR)	Ground	Selector lever P/N position signal	Input	Selector lever	P or N position	12.0 V
					Except P and N positions	0 V
141 (R)	Ground	Security indicator signal	Output	Security indicator	ON	0 V
					Blinking	 JPMIA0014GB 11.3 V
					OFF	Battery voltage
142 (BR)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF	0 V
					Lighting switch 1ST	 JPMIA0031GB 10.7 V
					Lighting switch HI	
					Lighting switch 2ND	
					Turn signal switch RH	
143 (V)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front wiper switch HI (Wiper intermittent dial 4)	 JPMIA0032GB 10.7 V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switch OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	 JPMIA0033GB 10.7 V
					Any of the conditions below with all switch OFF • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6	
145 (L)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF	0 V
					Front wiper switch INT	 JPMIA0034GB 10.7 V
					Front wiper switch LO	
					Lighting switch AUTO	
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermittent dial 4)	All switch OFF	0 V
					Front fog lamp switch ON	 JPMIA0035GB 10.7 V
					Lighting switch 2ND	
					Lighting switch PASS	
					Turn signal switch LH	
149 (W)	Ground	Tire pressure warning check switch	Input	—		5 V
150 (R)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closes)	 JPMIA0011GB 11.8 V
					ON (When driver door opens)	0 V
151 (G)	Ground	Rear window defogger relay	Output	Rear window defogger	Active	0 V
					Not activated	Battery voltage

Wiring Diagram - POWER DOOR LOCK SYSTEM -

INFOID:0000000001683157

Click here to view the eWD.



POWER DOOR LOCK SYSTEM

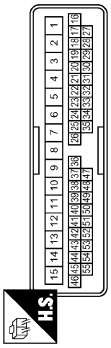
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
92	G	–
98	V	–

Connector No.	B242
Connector Name	FUEL LID LOCK ACTUATOR
Connector Type	M04FW-LC

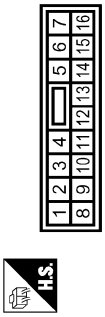
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	V	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



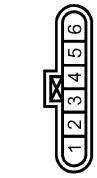
Terminal No.	Color of Wire	Signal Name [Specification]
9	P	–
10	LG	–
13	B	–
14	V	–
37	B	–

Connector No.	D8
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



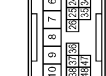
Terminal No.	Color of Wire	Signal Name [Specification]
6	GR	–
7	W	–
12	V	–
15	B	–

Connector No.	D15
Connector Name	DRIVER SIDE DOOR LOCK ASSEMBLY
Connector Type	E06FGY-RS



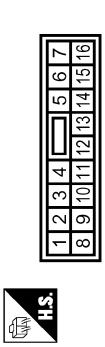
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	P	–
4	B	–
5	W	–
6	GR	–

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
9	P	–
10	LG	–
13	B	–
14	Y	–

Connector No.	D38
Connector Name	POWER WINDOW SUB-SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
11	B	–
16	Y	–

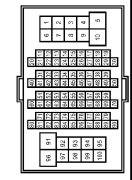
Connector No.	D45
Connector Name	PASSENGER SIDE DOOR LOCK ASSEMBLY
Connector Type	E06FGY-RS

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	LG	–

JCKWA0614GE

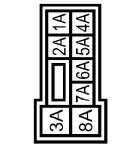
POWER DOOR LOCK SYSTEM

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



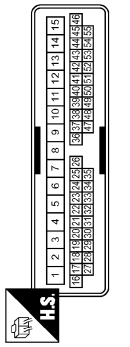
Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2



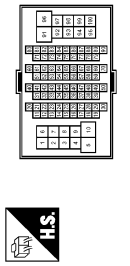
Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	–

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
9	G	–
10	V	–
13	B	–
14	V	–
37	B	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

Terminal No.	Color of Wire	Signal Name [Specification]
6	L	–
14	P	–

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
92	G	–
98	V	–

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
5	P	DOOR UNLOCK OUTPUT (AS)
8	V	DOOR LOCK OUTPUT (ALL)
9	G	DOOR UNLOCK OUTPUT (DR)
11	R	BAT (FUSE)
13	B	GND

JCKWA0615GE

POWER DOOR LOCK SYSTEM

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

H.S.

91	90	89	88	87	86	85	84	83	82	81	80	79	78	77	76	75	74	73	72
111	110	109	108	107	106	105	104	103	102	101	100	99	98	97	96	95	94	93	92

Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH

H.S.

151	150	149	148	147	146	145	144	143	142	141	140	139	138	137	136	135	134	133	132
151	150	149	148	147	146	145	144	143	142	141	140	139	138	137	136	135	134	133	132

Terminal No.	Color of Wire	Signal Name [Specification]
132	V	POWER WINDOW SERIAL LINK

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15

H.S.

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

31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
47	48	49	50	51	52	53	54	55							

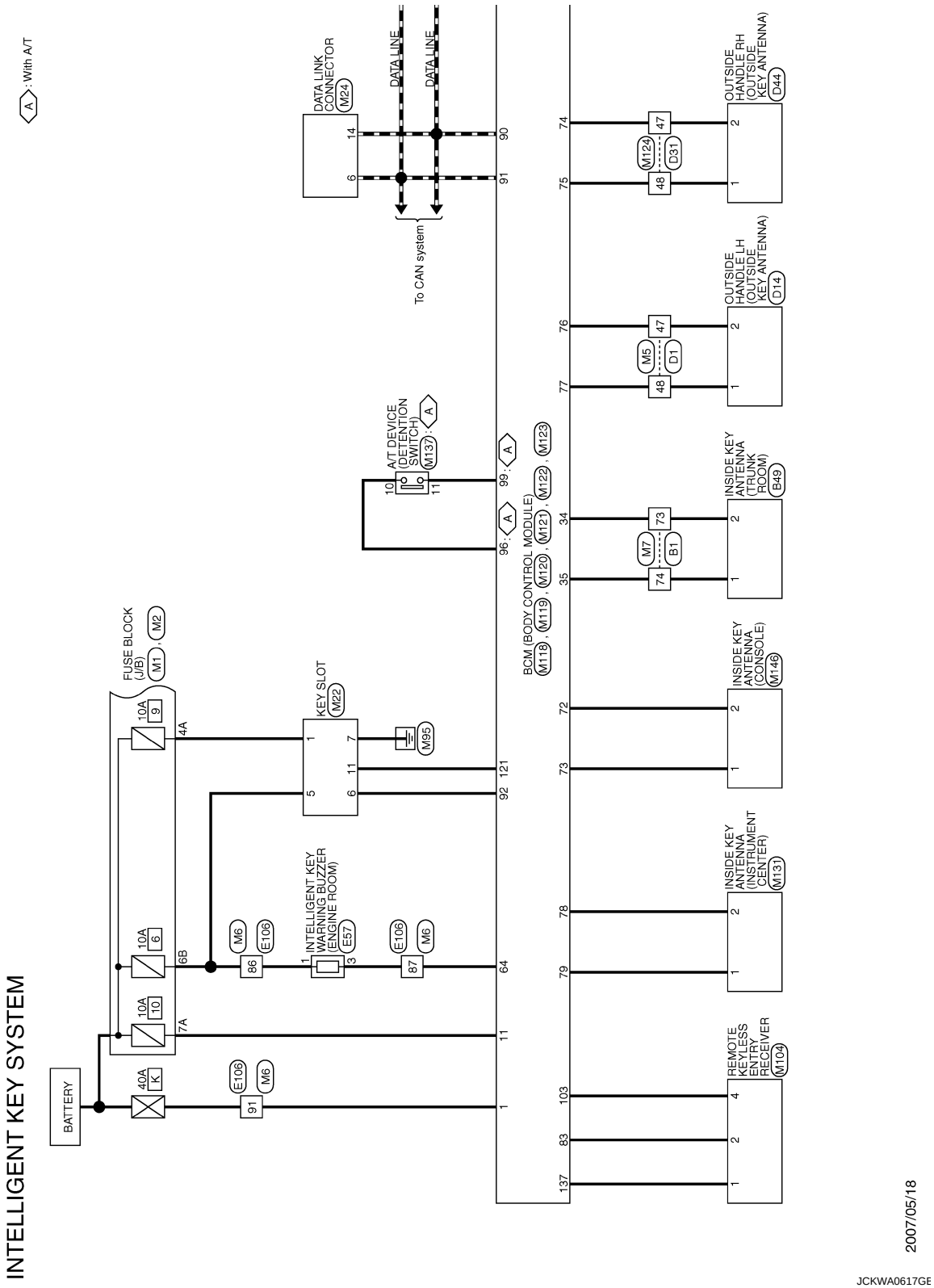
Terminal No.	Color of Wire	Signal Name [Specification]
9	P	–
10	V	–
13	B	–
14	G	–

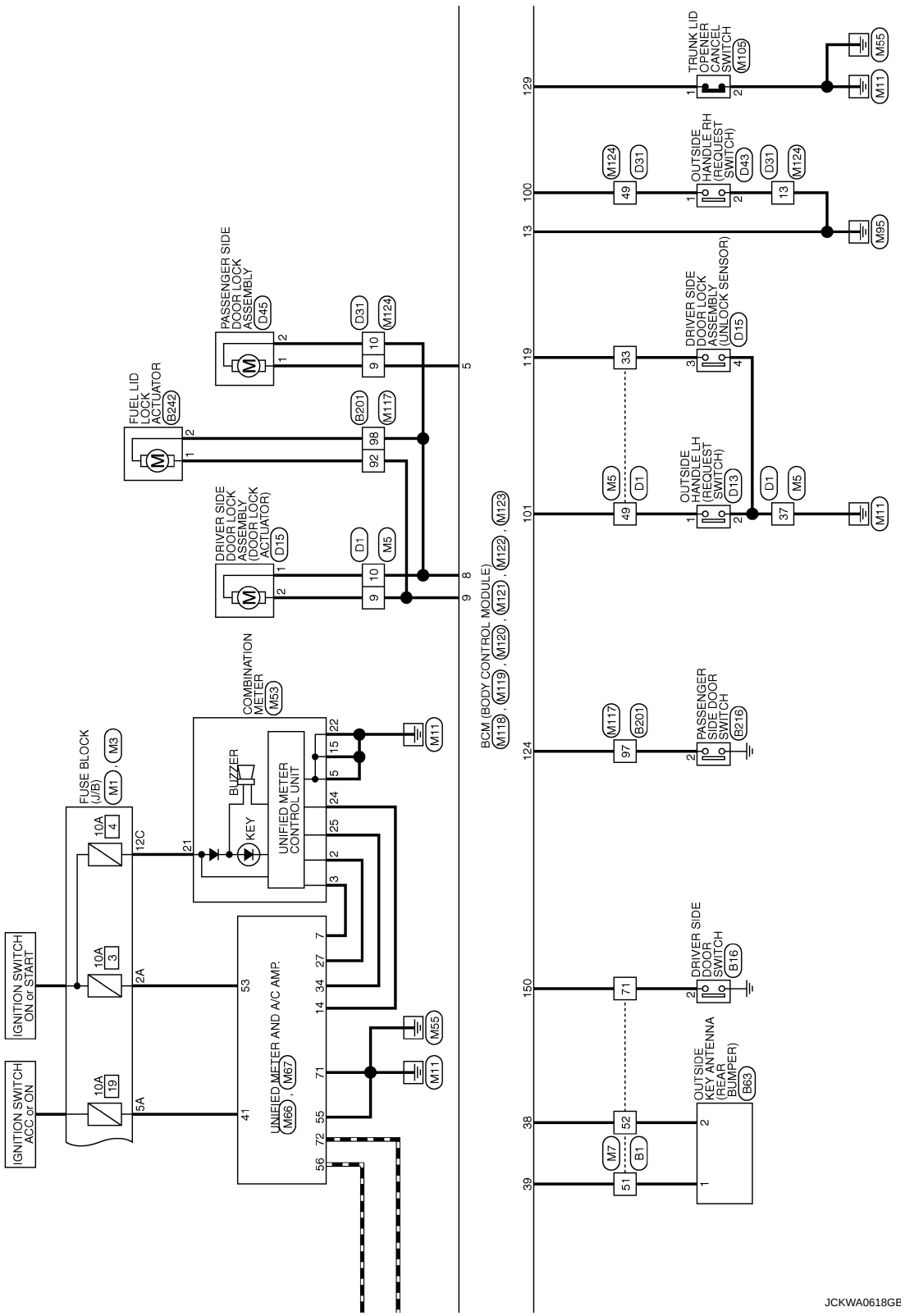
JCKWA0616GE

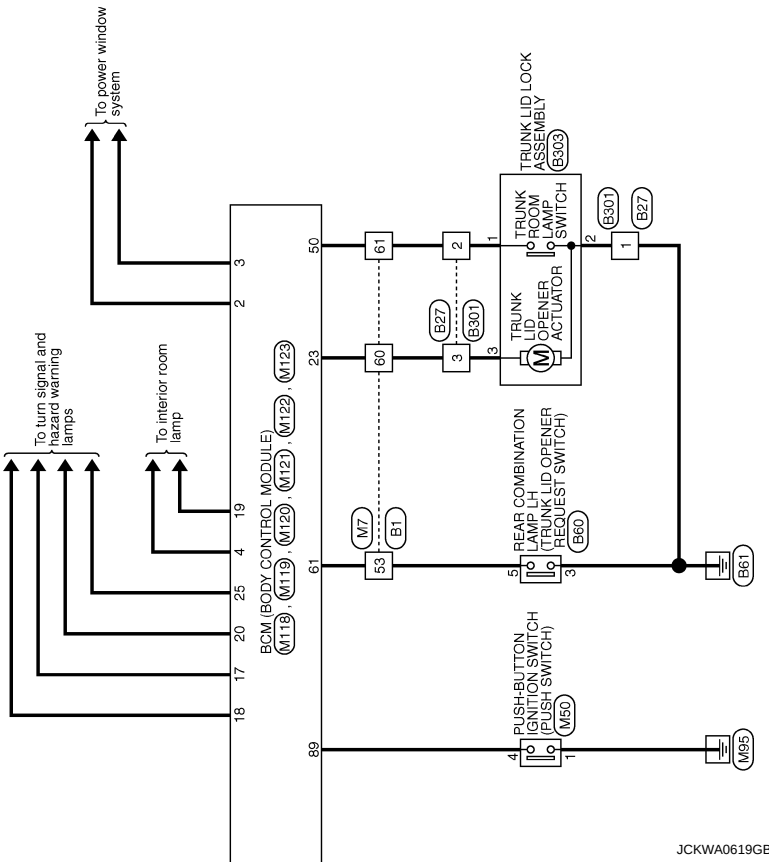
Wiring Diagram - INTELLIGENT KEY SYSTEM -

INFOID:0000000001683158

Click here to view the eWD.

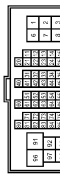



IGNITION SWITCH ACC or ON
IGNITION SWITCH ON or START
FUSE BLOCK (J/B) M1, M3
10A 19
10A 3
10A 4
5A
2A
12C
COMBINATION METER M53
BUZZER
KEY
UNIFIED METER CONTROL UNIT
UNIFIED METER AND A/C AMP. M66, M67
FUEL LID LOCK ACTUATOR B242
PASSENGER SIDE DOOR LOCK ASSEMBLY D45
DRIVER SIDE DOOR LOCK ASSEMBLY (DOOR LOCK ACTUATOR) D15
BCM (BODY CONTROL MODULE) M118, M119, M120, M121, M122, M123
TRUNK LID OPENER CANCEL SWITCH M103
OUTSIDE HANDLE RH (REQUEST SWITCH) D43
OUTSIDE HANDLE LH (REQUEST SWITCH) D13
DRIVER SIDE DOOR LOCK ASSEMBLY (UNLOCK SENSOR) D15
PASSENGER SIDE DOOR SWITCH B216
DRIVER SIDE DOOR SWITCH B16
OUTSIDE KEY ANTENNA (REAR BUMPER) B63
JCKWA0618GE


To power window system
To turn signal and hazard warning lamps
To interior room lamp
BCM (BODY CONTROL MODULE)
(M118), (M119), (M120), (M121), (M122), (M123)
TRUNK LID LOCK ASSEMBLY
B303
TRUNK ROOM LAMP SWITCH
TRUNK LID OPENER ACTUATOR
REAR COMBINATION LAMP LH (TRUNK LID OPENER REQUEST SWITCH)
B60
PUSH-BUTTON IGNITION SWITCH (PUSH SWITCH)
M50
B61
M95
JCKWA0619GE

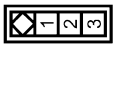
INTELLIGENT KEY SYSTEM

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
51	BR	–
52	R	–
53	W	–
60	Y	–
61	L	–
71	V	–
73	P	–
74	L	–

Connector No.	B16
Connector Name	DRIVER SIDE DOOR SWITCH
Connector Type	A03FW



Terminal No.	Color of Wire	Signal Name [Specification]
2	V	–

Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	L	–
3	Y	–

Connector No.	B49
Connector Name	INSIDE KEY ANTENNA (TRUNK ROOM)
Connector Type	RK02FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	P	–

Connector No.	B60
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS06MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
3	B	–
5	W	–

Connector No.	B63
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	–
2	R	–

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
92	G	–
97	GR	–
98	V	–

Connector No.	B216
Connector Name	PASSENGER SIDE DOOR SWITCH
Connector Type	A03FW

Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

JCKWA0620GB

INTELLIGENT KEY SYSTEM

Connector No.	B242
Connector Name	FUEL LID LOCK ACTUATOR
Connector Type	M04FW-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	V	–

Connector No.	D13
Connector Name	OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Type	RK02FL

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	B	–

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	L	–
3	G	–

Connector No.	D14
Connector Name	OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA)
Connector Type	RK02MGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	V	–

Connector No.	B303
Connector Name	TRUNK LID LOCK ASSEMBLY
Connector Type	TB03FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	B	–
3	G	–

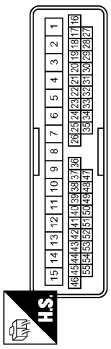
Connector No.	D15
Connector Name	DRIVER SIDE DOOR LOCK ASSEMBLY
Connector Type	E08FGY-RS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
2	P	–
3	L	–
4	B	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

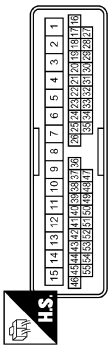
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
9	P	–
10	LG	–
33	L	–
37	B	–
47	V	–
48	P	–
49	W	–

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
9	P	–
10	LG	–
13	B	–
47	V	–
48	P	–
49	W	–

JCKWA0621GE

INTELLIGENT KEY SYSTEM

Connector No.	D43
Connector Name	OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Type	RK02FL

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	B	–

Connector No.	D44
Connector Name	OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA)
Connector Type	RK02MGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	V	–

Connector No.	D45
Connector Name	PASSENGER SIDE DOOR LOCK ASSEMBLY
Connector Type	E06FGY-RS

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
2	LG	–

Connector No.	E57
Connector Name	INTELLIGENT KEY WARNING BUZZER (ENGINE ROOM)
Connector Type	RK03FBR

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
3	SB	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
86	LG	–
87	SB	–
91	W	–

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

Terminal No.	Color of Wire	Signal Name [Specification]
2A	G	–
4A	P	–
5A	L	–
7A	R	–

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
6B	Y	–

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
12C	R	–

JCKWA0622GB

INTELLIGENT KEY SYSTEM

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15

Terminal No.	Color of Wire	Signal Name [Specification]
9	G	–
10	V	–
33	SB	–
37	B	–
47	V	–
48	LG	–
49	P	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
86	GR	–
87	L	–
91	W	–

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
51	W	–
52	B	–
53	SB	–
60	L	–
61	R	–
71	R	–
73	SB	–
74	V	–

Connector No.	M22
Connector Name	KEY SLOT
Connector Type	TH12FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	BAT
5	Y	ILL BAT
6	LG	ILL
7	B	GND
11	SB	KEY SWITCH SIGNAL

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

Terminal No.	Color of Wire	Signal Name [Specification]
6	L	–
14	P	–

Connector No.	M50
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
4	BR	–

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SAB40FW

Terminal No.	Color of Wire	Signal Name [Specification]
2	LG	COMM (METER->AMP.)
3	GR	COMM (AMP.->METER)
5	B	GND
15	B	GND
21	R	IGN
22	B	GND
24	BR	COMM (LCD->AMP.)
25	Y	COMM (AMP.->LCD)

Connector No.	M66
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH40FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
7	GR	COMM (AMP.->METER)
14	BR	COMM (LCD->AMP.)
27	LG	COMM (METER->AMP.)
34	Y	COMM (AMP.->LCD)

JCKWA0623GE

INTELLIGENT KEY SYSTEM

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
41	L	ACC
53	W	IGN
55	B	GND
56	L	CAN-H
71	GR	GND
72	P	CAN-L

Connector No.	M104
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	JAB04FB

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	GND
2	Y	SIGNAL OUTPUT
4	LG	BATTERY

Connector No.	M105
Connector Name	TRUNK LID OPENER CANCEL SWITCH
Connector Type	S02FW

H.S.

1	2

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–
2	B	–

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
92	G	–
97	LG	–
98	V	–

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M63FB-LC

H.S.

1	3
2	

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY(BAT)
3	O	POWER WINDOW POWER SUPPLY(RAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS

H.S.

4	5	6	7		8	9	10
11	12	13	14	15	16	17	18	19

Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	BAT SAVER OUTPUT
5	P	DOOR UNLOCK OUTPUT (AS)
8	V	DOOR LOCK OUTPUT (ALL)
9	G	DOOR UNLOCK OUTPUT (DR)
11	R	BAT (FUSE)
13	B	GND
17	W	FRONT FLASHER OUTPUT(RIGHT)
18	O	FRONT FLASHER OUTPUT(LEFT)
19	V	ROOM LAMP OUTPUT

Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS

H.S.

20	21		22	23	24
25	26	27	28	29	30	31

Terminal No.	Color of Wire	Signal Name [Specification]
20	V	REAR FLASHER OUTPUT(RIGHT)
23	L	TRUNK OPENER OUTPUT
25	Y	REAR FLASHER OUTPUT(LEFT)

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH

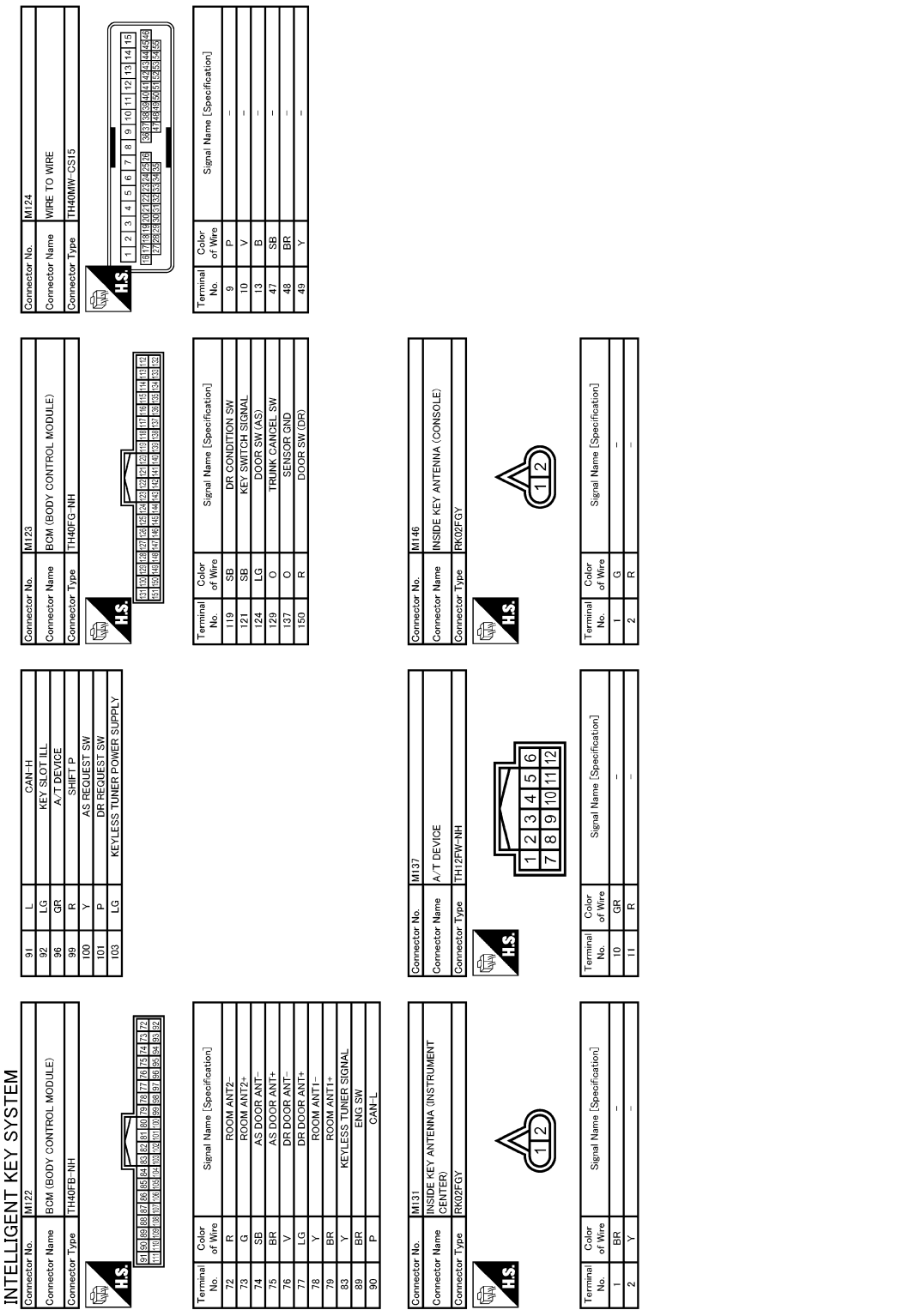
H.S.

31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70

Terminal No.	Color of Wire	Signal Name [Specification]
34	SB	TRUNK ANT1–
35	V	TRUNK ANT1+
38	B	BACK ANT–
39	W	BACK ANT+
50	R	TRUNK SW
61	SB	TRUNK REQUEST SW
64	L	BUZZER

JCKWA0624GE

INTELLIGENT KEY SYSTEM

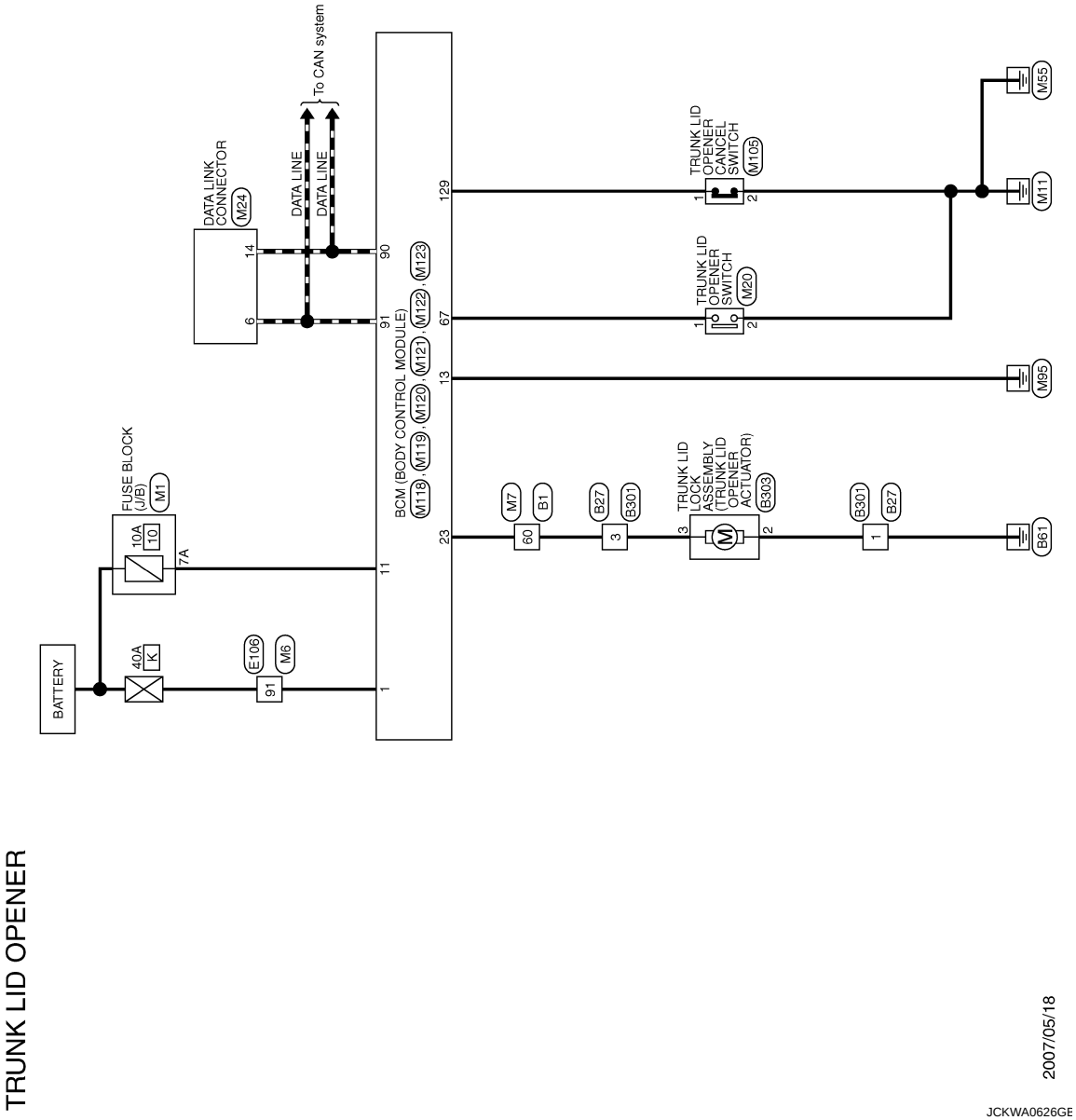


JCKWA0625GE

Wiring Diagram - TRUNK LID OPENER SYSTEM -

INFOID:0000000001683159

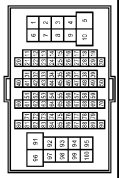
Click here to view the eWD.



TRUNK LID OPENER

TRUNK LID OPENER

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
60	Y	–

Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
3	Y	–

Connector No.	B301
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
3	G	–

Connector No.	B303
Connector Name	TRUNK LID LOCK ASSEMBLY
Connector Type	TB03FW

Terminal No.	Color of Wire	Signal Name [Specification]
2	B	–
3	G	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

Terminal No.	Color of Wire	Signal Name [Specification]
7A	R	–

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
91	W	–

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
60	L	–

JCKWA0627GE

TRUNK LID OPENER

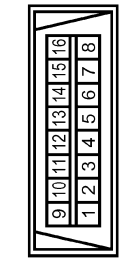
Connector No.	M20
Connector Name	TRUNK LID OPENER SWITCH
Connector Type	TK04FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–
2	B	–

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
6	L	–
14	P	–

Connector No.	M105
Connector Name	TRUNK LID OPENER CANCEL SWITCH
Connector Type	S02FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–
2	B	–

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
11	R	BAT (FUSE)
13	B	GND

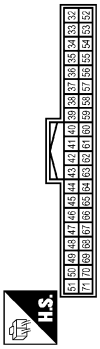
Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
23	L	TRUNK OPENER OUTPUT

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH

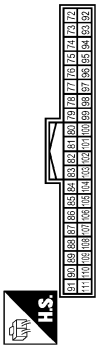
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
67	GR	INTERIOR TRUNK SW

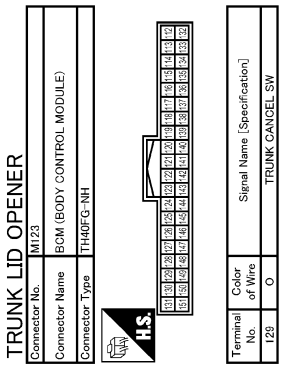
Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

JCKWA0628GE



JCKWA0629GE

Fail Safe

INFOID:0000000001911531

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTTENA AMP	Inhibit engine cranking	Erase DTC

Display contents of CONSULT	Fail-safe	Cancellation
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals have been received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Starter control relay signal • Starter relay status signal
B2563: HI VOLTAGE	• Inhibit engine cranking • Inhibit steering lock	500 ms after the power supply voltage decreases to less than 18 V
B2601: SHIFT POSITION	Inhibit steering lock	500 ms after the following signal reception status becomes consistent • Selector lever P position switch signal • P range signal (CAN)
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are fulfilled • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Vehicle speed: 4 /h or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	500 ms after the following BCM recognition conditions are fulfilled • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (battery voltage) • Selector lever P/N position signal: Except P and N positions (0 V)
B2604: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions is fulfilled • Status 1 - Ignition switch is in the ON position - Selector lever P/N position signal: P and N position (battery voltage) - P range signal or N range signal (CAN): ON • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions is fulfilled • Ignition switch is in the ON position - Power position: IGN - Selector lever P/N position signal: Except P and N positions (0 V) - Interlock/PNP switch signal (CAN): OFF • Status 2 - Ignition switch is in the ON position - Selector lever P/N position signal: P or N position (battery voltage) - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has become consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

Display contents of CONSULT	Fail-safe	Cancellation
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent • Starter motor relay control signal • Starter relay status signal (CAN)
B2609: S/L STATUS	• Inhibit engine cranking • Inhibit steering lock	When the following steering lock conditions agree • BCM steering lock control status • Steering lock condition No. 1 signal status • Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled • IGN relay (IPDM E/R) control signal: OFF (Battery voltage) • Ignition ON signal (CAN to IPDM E/R): OFF (Request signal) • Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)
B2612: S/L STATUS	• Inhibit engine cranking • Inhibit steering lock	When any of the following conditions is fulfilled • Steering lock unit status signal (CAN) is received normally • The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E1: ENG STATE NO RECIV	Inhibit engine cranking	When any of the following conditions is fulfilled • Power position changes to ACC • Receives engine status signal (CAN)

DTC Inspection Priority Chart

INFOID:0000000001911532

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

Priority	DTC
1	• B2562: LOW VOLTAGE • B2563: HI VOLTAGE
2	• U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN)
3	• B2190: NATS ANTTENA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM

Priority	DTC
4	• B2013: ID DISCORD BCM-S/L • B2014: CHAIN OF S/L-BCM • B2553: IGNITION RELAY • B2555: STOP LAMP • B2556: PUSH-BTN IGN SW • B2557: VEHICLE SPEED • B2560: STARTER CONT RELAY • B2601: SHIFT POSITION • B2602: SHIFT POSITION • B2603: SHIFT POSI STATUS • B2604: PNP SW • B2605: PNP SW • B2606: S/L RELAY • B2607: S/L RELAY • B2608: STARTER RELAY • B2609: S/L STATUS • B260A: IGNITION RELAY • B260B: STEERING LOCK UNIT • B260C: STEERING LOCK UNIT • B260D: STEERING LOCK UNIT • B260F: ENG STATE SIG LOST • B2611: ACC RELAY • B2612: S/L STATUS • B2614: ACC RELAY CIRC • B2615: BLOWER RELAY CIRC • B2616: IGN RELAY CIRC • B2617: STARTER RELAY CIRC • B2618: BCM • B2619: BCM • B261A: PUSH-BTN IGN SW • B261E: VEHICLE TYPE • B26E1: ENG STATE NO RECIV • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED SIG
5	• C1704: LOW PRESSURE FL • C1705: LOW PRESSURE FR • C1706: LOW PRESSURE RR • C1707: LOW PRESSURE RL • C1708: [NO DATA] FL • C1709: [NO DATA] FR • C1710: [NO DATA] RR • C1711: [NO DATA] RL • C1712: [CHECKSUM ERR] FL • C1713: [CHECKSUM ERR] FR • C1714: [CHECKSUM ERR] RR • C1715: [CHECKSUM ERR] RL • C1716: [PRESSDATA ERR] FL • C1717: [PRESSDATA ERR] FR • C1718: [PRESSDATA ERR] RR • C1719: [PRESSDATA ERR] RL • C1720: [CODE ERR] FL • C1721: [CODE ERR] FR • C1722: [CODE ERR] RR • C1723: [CODE ERR] RL • C1724: [BATT VOLT LOW] FL • C1725: [BATT VOLT LOW] FR • C1726: [BATT VOLT LOW] RR • C1727: [BATT VOLT LOW] RL • C1734: CONTROL UNIT
6	• B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA

DTC Index

INFOID:0000000001911533

NOTE:
The details of time display are as follows.
- CRNT: A malfunction is detected now
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. The details of Freeze Frame Data and IGN Counter. Refer to BCS-13, "COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
No DTC is detected. further testing may be required.	—	—	—	—	—
U1000: CAN COMM CIRCUIT	—	—	—	—	BCS-33
U1010: CONTROL UNIT (CAN)	—	—	—	—	BCS-34
U0415: VEHICLE SPEED SIG	—	—	—	—	BCS-35
B2013: ID DISCORD BCM-S/L	×	×	—	—	SEC-54
B2014: CHAIN OF S/L-BCM	×	×	—	—	SEC-55
B2190: NATS ANTTENA AMP	×	—	—	—	SEC-46
B2191: DIFFERENCE OF KEY	×	—	—	—	SEC-49
B2192: ID DISCORD BCM-ECM	×	—	—	—	SEC-50
B2193: CHAIN OF BCM-ECM	×	—	—	—	SEC-52
B2553: IGNITION RELAY	—	×	—	—	PCS-50
B2555: STOP LAMP	—	×	—	—	SEC-58
B2556: PUSH-BTN IGN SW	—	×	×	—	SEC-60
B2557: VEHICLE SPEED	×	×	×	—	SEC-62
B2560: STARTER CONT RELAY	×	×	×	—	SEC-63
B2562: LOW VOLTAGE	—	×	—	—	BCS-36
B2563: HI VOLTAGE	×	×	×	—	BCS-37
B2601: SHIFT POSITION	×	×	×	—	SEC-64
B2602: SHIFT POSITION	×	×	×	—	SEC-67
B2603: SHIFT POSI STATUS	×	×	×	—	SEC-69
B2604: PNP SW	×	×	×	—	SEC-72
B2605: PNP SW	×	×	×	—	SEC-74
B2606: S/L RELAY	×	×	×	—	SEC-76
B2607: S/L RELAY	×	×	×	—	SEC-77
B2608: STARTER RELAY	×	×	×	—	SEC-79
B2609: S/L STATUS	×	×	×	—	SEC-81
B260A: IGNITION RELAY	×	×	×	—	PCS-52
B260B: STEERING LOCK UNIT	—	×	×	—	SEC-85
B260C: STEERING LOCK UNIT	—	×	×	—	SEC-86
B260D: STEERING LOCK UNIT	—	×	×	—	SEC-87
B260F: ENG STATE SIG LOST	×	×	×	—	SEC-88
B2611: ACC RELAY	—	×	—	—	PCS-54
B2612: S/L STATUS	×	×	×	—	SEC-90
B2614: ACC RELAY CIRC	—	×	×	—	PCS-57
B2615: BLOWER RELAY CIRC	—	×	×	—	PCS-60

CONSULT display	Fail-safe	Freeze Frame Data	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference page
B2616: IGN RELAY CIRC	—	×	×	—	PCS-63
B2617: STARTER RELAY CIRC	×	×	×	—	SEC-94
B2618: BCM	×	×	×	—	PCS-66
B2619: BCM	×	×	×	—	SEC-96
B261A: PUSH-BTN IGN SW	—	×	×	—	SEC-97
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	—	SEC-100
B2621: INSIDE ANTENNA	—	×	—	—	DLK-59
B2622: INSIDE ANTENNA	—	×	—	—	DLK-61
B2623: INSIDE ANTENNA	—	×	—	—	DLK-63
B26E1: ENG STATE NO RES	×	×	×	—	SEC-89
C1704: LOW PRESSURE FL	—	—	—	×	WT-15
C1705: LOW PRESSURE FR	—	—	—	×	WT-15
C1706: LOW PRESSURE RR	—	—	—	×	WT-15
C1707: LOW PRESSURE RL	—	—	—	×	WT-15
C1708: [NO DATA] FL	—	—	—	×	WT-17
C1709: [NO DATA] FR	—	—	—	×	WT-17
C1710: [NO DATA] RR	—	—	—	×	WT-17
C1711: [NO DATA] RL	—	—	—	×	WT-17
C1712: [CHECKSUM ERR] FL	—	—	—	×	WT-20
C1713: [CHECKSUM ERR] FR	—	—	—	×	WT-20
C1714: [CHECKSUM ERR] RR	—	—	—	×	WT-20
C1715: [CHECKSUM ERR] RL	—	—	—	×	WT-20
C1716: [PRESSDATA ERR] FL	—	—	—	×	WT-23
C1717: [PRESSDATA ERR] FR	—	—	—	×	WT-23
C1718: [PRESSDATA ERR] RR	—	—	—	×	WT-23
C1719: [PRESSDATA ERR] RL	—	—	—	×	WT-23
C1720: [CODE ERR] FL	—	—	—	×	WT-25
C1721: [CODE ERR] FR	—	—	—	×	WT-25
C1722: [CODE ERR] RR	—	—	—	×	WT-25
C1723: [CODE ERR] RL	—	—	—	×	WT-25
C1724: [BATT VOLT LOW] FL	—	—	—	×	WT-28
C1725: [BATT VOLT LOW] FR	—	—	—	×	WT-28
C1726: [BATT VOLT LOW] RR	—	—	—	×	WT-28
C1727: [BATT VOLT LOW] RL	—	—	—	×	WT-28
C1729: VHCL SPEED SIG ERR	—	—	—	×	WT-31
C1734: CONTROL UNIT	—	—	—	×	WT-32

SYMPTOM DIAGNOSIS

DOOR LOCK

Symptom Table

INFOID:0000000001686065

The diagnostics item numbers show the sequence for inspection. Inspection in order from item 1.

NO.	Function	Operation condition	Symptom	Diagnostic Item	Reference page
1	Door lock and unlock switch function	Press door lock and unlock switch.	Door does not lock/unlock.	All doors	DLK-161
				Driver side	DLK-161
				Passenger side	DLK-162
2	Key cylinder switch function	Operate key cylinder with mechanical key.	Door does not lock/unlock.	—	DLK-163
			Power window down function does not operate.	—	DLK-164
3	Trunk lid opener switch function	Press trunk lid opener switch.	Trunk lid does not open.	—	DLK-165
4	Intelligent Key function	Press Intelligent Key button.	Door does not lock/unlock.	—	DLK-166
			Trunk lid does not open.	—	DLK-167
			Selective unlock function does not operate.	—	DLK-168
			Power window down function does not operate.	—	DLK-169
			Panic alarm function does not operate.	—	DLK-170
5	Door request switch function	Press driver side door request switch.	Door does not lock/unlock.	Driver side	DLK-171
		Press passenger side door request switch.		Passenger side	DLK-171
		Press trunk opener request switch.	Trunk lid does not open.	—	DLK-173
		Press driver side door request switch, when all doors are locked.	Selective unlock function does not operate.	—	DLK-174
6	Key reminder function	Lock all doors with door lock and unlock switch, when Intelligent Key is inside of the vehicle. **NOTE:** Open the window before operation.	Key reminder function does not operate.	—	DLK-175
7	Auto door lock function	Unlock all doors and wait more than 2 minutes.	Auto door lock operation does not operate.	—	DLK-176

NO.	Function	Operation condition	Symptom	Diagnostic Item	Reference page
8	Warning function	Driver side door is opened under the following conditions. • Ignition switch is OFF or LOCK position. • Intelligent key is inserted into key slot.	Key warning does not operate.	Buzzer (combination meter)	DLK-177
				Combination meter display	DLK-177
		Driver side door is opened under the following condition. • Ignition switch is between ACC and OFF position or ignition switch is pressed in while ignition switch is in LOCK position.	OFF position warning does not operate.	Warning lamp	DLK-178
				Buzzer (Combination meter)	DLK-178
		Engine is stopped under the following condition. • Selector lever is in any position except P.	P position warning does not operate.	Intelligent Key warning buzzer	DLK-179
				Buzzer (Combination meter)	DLK-179
		P position warning is operating under the following conditions. • Ignition switch is ACC position. • Selector lever is shift from any position except P position to P position.	ACC warning does not operate.	Combination meter display	DLK-181
				Buzzer (Combination meter)	DLK-181
		Door is opened under the following conditions and wait more than 5 seconds. • Engine is running. • Take Intelligent Key out of the vehicle.	Take away warning does not operate.	Warning lamp	DLK-183
		Ignition switch changed from OFF to ON under the following condition. • Take Intelligent Key out of the vehicle.		Combination meter display	DLK-184
				Buzzer (Combination meter)	DLK-184
		Any door open to all doors close under the following conditions. • Engine is running. • Take Intelligent Key out of the vehicle.		Warning lamp	DLK-186
				Intelligent Key warning buzzer	DLK-186
		Take away through window Intelligent Key under the following condition and wait more than 30 seconds. • Engine is running.		Warning lamp	DLK-187
				Buzzer (Combination meter)	DLK-187
		Pull out Intelligent Key from key slot under the following condition. • Ignition switch is in any position except OFF or LOCK.		Combination meter display	DLK-188
				Buzzer (Combination meter)	DLK-188
		Turn ignition switch ON position, when Intelligent Key battery has low voltage.	Intelligent Key low battery warning does not operate.	—	DLK-190
		Press door request switch under the following condition. • Door is opened or Intelligent Key is inside vehicle.	Door lock operation warning does not operate.	—	DLK-191
		Press Intelligent Key button under the following conditions. • Door is opened. • For 3 seconds after Intelligent Key is removed from key slot.		—	DLK-192
		Press push-button ignition switch under the following condition. • Registered Intelligent Key cannot be detected inside the vehicle.	Key ID warning does not operate	Combination meter display	DLK-193

NO.	Function	Operation condition	Symptom	Diagnostic Item	Reference page
9	Hazard and buzzer reminder function	Press door request switch.	Buzzer reminder operation does not operate.	—	DLK-194
			Hazard reminder operation does not operate.	—	DLK-195
10	Hazard and horn reminder function	Press Intelligent Key button.	Horn reminder operation does not operate.	—	DLK-196
			Hazard reminder operation does not operate.	—	DLK-197
11	Integrated homelink transmitter function	Press homelink button	Integrated homelink transmitter does not operate.	—	DLK-198

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

ALL DOOR

ALL DOOR : Description

INFOID:0000000001686066

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- All doors are closed except driver side.
- Doors are not in selective unlock state.

ALL DOOR : Diagnosis Procedure

INFOID:0000000001686067

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to DLK-65, "Diagnosis Procedure" (BCM).

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-68, "DRIVER SIDE : Component Function Check". (Driver side)
Refer to DLK-69, "PASSENGER SIDE : Component Function Check". (Passenger side)

Is the inspection result normal?

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

3. CHECK DOOR SWITCH

Check door switch.
Refer to DLK-66, "Component Function Check".

Is the inspection result normal?

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

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001686068

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Except driver side doors are closed.
- Doors are not in anti-hijack state.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001686069

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).
Refer to DLK-87, "DRIVER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001686070

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- All doors are closed except driver side.
- Doors are not in anti-hijack state.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001686071

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (passenger side).
Refer to DLK-88, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH MECHANICAL KEY

Description

INFOID:0000000001696935

NOTE:
- Before performing the diagnosis following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- All doors are closed.

Diagnosis Procedure

INFOID:0000000001696936

1.CHECK KEY CYLINDER SWITCH

Check key cylinder switch.
Refer to DLK-73, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

POWER WINDOW DOWN FUNCTION DOES NOT WORK WHEN OPERATING WITH MECHANICAL KEY

Description

INFOID:0000000001696937

NOTE:
- Before performing the diagnosis in the following table, check " Work Flow". Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Power window function is normal.

Diagnosis Procedure

INFOID:0000000001696938

1.CHECK KEY CYLINDER SWITCH

Check key cylinder switch.
Refer to DLK-73, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

TRUNK LID DOES NOT OPEN WITH TRUNK LID OPENER SWITCH

Description

INFOID:0000000001686106

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Door lock function is normal.
- Vehicle speed is less than 5 km/h (3MPH).
- All doors are unlocked.

Diagnosis Procedure

INFOID:0000000001686107

1.CHECK TRUNK LID OPENER SWITCH

Check trunk lid opener switch.
Refer to DLK-77, "Component Function Check".

Is the inspection result normal?

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

2.CHECK TRUNK LID OPENER ACTUATOR

Check trunk lid opener actuator.
Refer to DLK-89, "Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description

INFOID:0000000001686086

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Door lock and unlock switch operations are normal.
- Intelligent key is removed from key slot.
- All doors are closed.
- Push-button ignition switch is not pressed.
- No Intelligent keys are inside the vehicle.

Diagnosis Procedure

INFOID:0000000001686087

1.CHECK “KEYLESS FUNCTION” SETTING IN “WORK SUPPORT”

Check “KEYLESS FUNCTION” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “KEYLESS FUNCTION” setting in “WORK SUPPORT”.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.
Refer to DLK-96, "Component_Function_Check".

Is the inspection result normal?

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

3.CHECK INTELLIGENT KEY

Check Intelligent Key.
Refer to DLK-99, "Component_Function_Check".

Is the inspection result normal?

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

4.CHECK PUSH-BUTTON IGNITION SWITCH

Check push-button ignition switch.
Refer to SEC-60, "DTC Logic".

Is the inspection result normal?

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

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

TRUNK LID DOES NOT OPERATE WITH INTELLIGENT KEY

Description

INFOID:0000000001696955

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions or vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Door lock function is normal.
- Trunk lid is opened when operating on trunk lid opener switch.
- Vehicle speed is less than 5 km/h (3MPH).
- All doors are unlocked.

Diagnosis Procedure

INFOID:0000000001696956

1.CHECK “TRUNK OPEN DELAY” SETTING IN “WORK SUPPORT”

Check “TRUNK OPEN DELAY” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “TRUNK OPEN DELAY” setting in “WORK SUPPORT”.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH INTELLIGENT KEY

Description

INFOID:0000000001686088

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Door lock and unlock switch operations are normal.
- Intelligent key is removed from key slot.
- All doors are closed.
- Push button ignition switch is not pressed.
- No Intelligent Keys are inside the vehicle.

Diagnosis Procedure

INFOID:0000000001686089

1.CHECK “DOOR LOCK–UNLOCK SET” SETTING IN “WORK SUPPORT”

Check “DOOR LOCK–UNLOCK SET” setting in “WORK SUPPORT”.
Refer to DLK-51, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “DOOR LOCK–UNLOCK SET” of “WORK SUPPORT”. Refer to DLK-51, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

POWER WINDOW DOWN FUNCTION DOES NOT WORK WHEN OPERATING WITH INTELLIGENT KEY

Description

INFOID:0000000001722778

NOTE:
- Before performing the diagnosis in the following table, check " Work Flow". Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Power window function is normal.

Diagnosis Procedure

INFOID:0000000001722779

1.CHECK "PW DOWN SET" SETTING IN "WORK SUPPORT"

Check "PW DOWN SET" setting in "WORK SUPPORT".
Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set "PW DOWN SET" setting in "WORK SUPPORT".

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

PANIC ALARM FUNCTION DOES NOT OPERATE

Description

INFOID:0000000001722806

NOTE:
- Before performing the diagnosis following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATION CONDITONS)
- Ignition switch is in OFF or LOCK position.
- Intelligent Key is removed from key slot.
- Vehicle security system is normal.

Diagnosis Procedure

INFOID:0000000001722807

1.CHECK “PANIC ALARM SET” SETTING IN “WORK SUPPORT”

Check “PANIC ALARM SET” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “PANIC ALARM SET” setting in “WORK SUPPORT”.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001686090

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Intelligent Key operation is normal.
- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- Intelligent Key is removed from key slot.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001686091

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

Check “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT”. Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

2.CHECK DOOR REQUEST SWITCH

Check door request switch.
Refer to DLK-83, "Component Function Check".

Is the inspection result normal?

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

3.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.
Refer to DLK-93, "Component Function Check".

Is the inspection result normal?

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

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check Intermittent Incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001686092

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Intelligent Key operation is normal.
- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- Intelligent Key is removed from key slot.

- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001686093

1.CHECK DOOR REQUEST SWITCH

Check door request switch.
Refer to DLK-83, "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.
Refer to DLK-93, "Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check Intermittent Incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

TRUNK LID DOES NOT OPERATE WITH TRUNK LID OPENER REQUEST SWITCH

Description

INFOID:0000000001696958

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Door lock function is normal.
- Trunk lid is opened when operating on trunk lid opener switch.
- Vehicle speed is less than 5 km/h (3MPH).
- All doors are unlocked.

Diagnosis Procedure

INFOID:0000000001696959

1. CHECK “TRUNK OPEN DELAY” SETTING IN “WORK SUPPORT”

Check “TRUNK OPEN DELAY” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “TRUNK OPEN DELAY” setting in “WORK SUPPORT”.

2. CHECK TRUNK LID OPENER REQUEST SWITCH

Check trunk lid opener request switch.
Refer to DLK-85, "Component Function Check".

Is the inspection result normal?

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

3. CHECK OUTSIDE KEY ANTENNA (REAR BUMPER)

Check outside key antenna (rear bumper).
Refer to DLK-93, "Component Function Check".

Is the inspection result normal?

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

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

Description

INFOID:0000000001686096

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Intelligent Key operation is normal.
- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- Intelligent Key is removed from key slot.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

Diagnosis Procedure

INFOID:0000000001686097

1.CHECK “DOOR LOCK–UNLOCK SET” SETTING IN “WORK SUPPORT”

Check “DOOR LOCK–UNLOCK SET” setting in “WORK SUPPORT”.
Refer to DLK-51, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “DOOR LOCK–UNLOCK SET” in “WORK SUPPORT”. Refer to DLK-51, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

KEY REMINDER FUNCTION DOES NOT OPERATE

Description

INFOID:0000000001686100

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Understand the operation when does it work, refer to DLK-39, "System Description".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Door lock and unlock operation and trunk open operation are normal.

Diagnosis Procedure

INFOID:0000000001686101

1.CHECK DOOR SWITCH

Check door switch.
Refer to DLK-66, "Component Function Check".

Is the inspection result normal?

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

2.CHECK TRUNK ROOM LAMP SWITCH

Check trunk room lamp switch.
Refer to DLK-81, "Component Function Check".

Is the inspection result normal?

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

3.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
Refer to DLK-59, "DTC Logic". (Instrument center)
Refer to DLK-61, "DTC Logic". (Console)
Refer to DLK-63, "DTC Logic". (Trunk room)

Is the inspection result normal?

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

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Description

INFOID:0000000001686102

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Request switch operation and Intelligent key operation are normal.

Diagnosis Procedure

INFOID:0000000001686103

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

Check “AUTO LOCK SET” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “AUTO LOCK SET” setting in “WORK SUPPORT”. Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)"

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

KEY WARNING DOES NOT OPERATE

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Description

INFOID:0000000001686110

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:0000000001686111

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-104, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

COMBINATION METER DISPLAY

COMBINATION METER DISPLAY : Description

INFOID:0000000001696975

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

COMBINATION METER DISPLAY : Diagnosis Procedure

INFOID:0000000001697065

1.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.
Refer to DLK-103, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

OFF POSITION WARNING DOES NOT OPERATE

WARNING LAMP

WARNING LAMP : Description

INFOID:0000000001686112

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

WARNING LAMP : Diagnosis Procedure

INFOID:0000000001686113

1.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-91, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Description

INFOID:0000000001686114

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:0000000001686115

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-104, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

P POSITION WARNING DOES NOT OPERATE

INTELLIGENT KEY WARNING BUZZER

INTELLIGENT KEY WARNING BUZZER : Description

INFOID:0000000001697066

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

INTELLIGENT KEY WARNING BUZZER : Diagnosis Procedure

INFOID:0000000001697067

1.CHECK PARK/NEUTRAL POSITION SWITCH

Check park/neutral position switch.
Refer to TM-122, "DTC Logic".

Is the inspection result normal?

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

2.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-91, "Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Description

INFOID:0000000001697068

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:0000000001697069

1.CHECK PARK/NEUTRAL POSITION SWITCH

Check park/neutral position switch.
Refer to TM-122, "DTC Logic".

Is the inspection result normal?

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

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-104, "Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

ACC WARNING DOES NOT OPERATE

COMBINATION METER DISPLAY

COMBINATION METER DISPLAY : Description

INFOID:0000000001697070

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

COMBINATION METER DISPLAY : Diagnosis Procedure

INFOID:0000000001697071

1.CHECK PUSH-BUTTON IGNITION SWITCH

Check push-button ignition switch.
Refer to SEC-97, "DTC Logic".

Is the inspection result normal?

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

2.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.
Refer to DLK-103, "Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Description

INFOID:0000000001697124

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:0000000001697125

1.CHECK PUSH BUTTON IGNITION SWITCH

Check push button ignition switch.
Refer to SEC-97, "DTC Logic".

Is the inspection result normal?

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

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-104, "Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

TAKE AWAY WARNING DOES NOT OPERATE (DOOR IS OPENED) WARNING LAMP

WARNING LAMP : Description

INFOID:0000000001686116

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

WARNING LAMP : Diagnosis Procedure

INFOID:0000000001686117

1.CHECK KEY WARNING LAMP

Check KEY warning lamp.
Refer to DLK-105, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

TAKE AWAY WARNING DOES NOT OPERATE (PUSH-BUTTON IGNITION SWITCH OPERATION)

COMBINATION METER DISPLAY

COMBINATION METER DISPLAY : Description

INFOID:0000000001697126

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

COMBINATION METER DISPLAY : Diagnosis Procedure

INFOID:0000000001697127

1.CHECK PUSH-BUTTON IGNITION SWITCH

Check push-button ignition switch.
Refer to SEC-97, "DTC Logic".

Is the inspection result normal?

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

2.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.
Refer to DLK-103, "Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Description

INFOID:0000000001697128

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:0000000001697129

1.CHECK PUSH-BUTTON IGNITION SWITCH

Check push-button ignition switch.
Refer to SEC-97, "DTC Logic".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-104, "Component Function Check".

Is the inspection result normal?

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

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

TAKE AWAY WARNING DOES NOT OPERATE (ANY DOOR OPEN TO ALL DOORS CLOSE)

WARNING LAMP

WARNING LAMP : Description

INFOID:0000000001686118

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

WARNING LAMP : Diagnosis Procedure

INFOID:0000000001686119

1.CHECK KEY WARNING LAMP

Check KEY warning lamp.
Refer to DLK-105, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

INTELLIGENT KEY WARNING BUZZER

INTELLIGENT KEY WARNING BUZZER : Description

INFOID:0000000001686120

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

INTELLIGENT KEY WARNING BUZZER : Diagnosis Procedure

INFOID:0000000001686121

1.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-91, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

TAKE AWAY WARNING DOES NOT OPERATE (TAKE AWAY THROUGH WINDOW)

WARNING LAMP

WARNING LAMP : Description

INFOID:0000000001686122

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

WARNING LAMP : Diagnosis Procedure

INFOID:0000000001686123

1.CHECK KEY WARNING LAMP

Check KEY warning lamp.
Refer to DLK-105, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Description

INFOID:0000000001686124

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:0000000001686125

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-104, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

TAKE AWAY WARNING DOES NOT OPERATE (INTELLIGENT KEY IS RE-MOVED FROM KEY SLOT)

COMBINATION METER DISPLAY

COMBINATION METER DISPLAY : Description

INFOID:0000000001697130

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

COMBINATION METER DISPLAY : Diagnosis Procedure

INFOID:0000000001697131

1.CHECK KEY SLOT

Check key slot.
Refer to DLK-71, "Component Function Check".

Is the inspection result normal?

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

2.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.
Refer to DLK-103, "Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

BUZZER (COMBINATION METER)

BUZZER (COMBINATION METER) : Description

INFOID:0000000001697132

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

BUZZER (COMBINATION METER) : Diagnosis Procedure

INFOID:0000000001697133

1.CHECK KEY SLOT

Check key slot.
Refer to DLK-71, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-104, "Component Function Check".

Is the inspection result normal?

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

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Description

INFOID:0000000001686126

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000001686127

1.CHECK “LO- BATT OF KEY FOB WARN” SETTING IN “WORK SUPPORT”

Check “LO- BATT OF KEY FOB WARN” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “LO- BATT OF KEY FOB WARN” setting in “WORK SUPPORT”. Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

2.CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.
Refer to DLK-99, "Diagnosis Procedure".

Is the inspection result normal?

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

3.CHECK KEY WARNING LAMP

Check KEY warning lamp.
Refer to DLK-105, "Component Function Check".

Is the inspection result normal?

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

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

DOOR LOCK OPERATION WARNING DOES NOT OPERATE WITH DOOR REQUEST SWITCH

Description

INFOID:0000000001686128

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000001686129

1. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-91, "Component Function Check".

Is the inspection result normal?

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

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

DOOR LOCK OPERATION WARNING DOES NOT OPERATE WITH INTELLIGENT KEY

Description

INFOID:0000000001686130

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000001686131

1.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-91, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

KEY ID WARNING DOES NOT OPERATE

Description

INFOID:0000000001697134

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to DLK-39, "System Description".
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000001697135

1.CHECK INTELLIGENT KEY

Check Intelligent Key.
Refer to DLK-99, "Component Function Check".

Is the inspection result normal?

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

2.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.
Refer to DLK-103, "Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

BUZZER REMINDER OPERATION DOES NOT WORK WHEN OPERATING WITH DOOR REQUEST SWITCH

Description

INFOID:0000000001686134

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- “ANSWER BACK WITH I-KEY LOCK”, “ANSWER BACK WITH I-KEY UNLOCK” and “ANSWER BACK FUNCTION” are ON when setting on CONSULT-III.
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000001686135

1. CHECK SETTING OF BUZZER REMINDER WITH CONSULT-III

Check “ANSWER BACK WITH I-KEY LOCK” and “ANSWER BACK WITH I-KEY UNLOCK” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “ANSWER BACK WITH I-KEY LOCK” and “ANSWER BACK WITH I-KEY UNLOCK” setting in “WORK SUPPORT”. Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

HAZARD REMINDER OPERATION DOES NOT WORK WHEN OPERATING WITH DOOR REQUEST SWITCH

Description

INFOID:0000000001686136

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- “HAZARD ANSWER BACK” is ON when setting on CONSULT-III.
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000001686137

1. CHECK “HAZARD ANSWER BACK” SETTING IN “WORK SUPPORT”

Check “HAZARD ANSWER BACK” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “HAZARD ANSWER BACK” setting in “WORK SUPPORT”. Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

2. CHECK HAZARD FUNCTION

Check hazard function.
Refer to DLK-108, "Component Function Check".

Is the inspection result normal?

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

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

HORN REMINDER OPERATION DOES NOT WORK WHEN OPERATING WITH INTELLIGENT KEY

Description

INFOID:0000000001696950

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- “LOCK/UNLOCK BY I-KEY” is ON when setting on CONSULT-III.
- “ANSWER BACK WITH I-KEY LOCK”, “ANSWER BACK WITH I-KEY UNLOCK” and “HORN WITH KEY-LESS LOCK” are ON when setting on CONSULT-III.
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000001696951

1. CHECK “HORN WITH KEYLESS LOCK” SETTING IN “WORK SUPPORT”

Check “HORN WITH KEYLESS LOCK” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “HORN WITH KEYLESS LOCK” setting in “WORK SUPPORT”. Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

2. CHECK HORN FUNCTION

Check horn function.
Refer to DLK-106, "Component Function Check".

Is the inspection result normal?

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

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

HAZARD REMINDER OPERATION DOES NOT WORK WHEN OPERATING WITH INTELLIGENT KEY

Description

INFOID:0000000001700101

NOTE:
- Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)
- “HAZARD ANSWER BACK” is ON when setting on CONSULT-III.
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000001700102

1. CHECK “HAZARD ANSWER BACK” SETTING IN “WORK SUPPORT”

Check “HAZARD ANSWER BACK” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “HAZARD ANSWER BACK” setting in “WORK SUPPORT”. Refer to DLK-52, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

2. CHECK HAZARD FUNCTION

Check hazard function.
Refer to DLK-108, "Component_Function_Check".

Is the inspection result normal?

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

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Description

INFOID:0000000001877727

NOTE:
Before performing the diagnosis in the following table, check “Work Flow”. Refer to DLK-8, "Work Flow".

Diagnosis Procedure

INFOID:0000000001877728

1.CHECK INTEGRATED HOMELINK TRANSMITTER

Check integrated homelink transmitter.
Refer to DLK-109, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

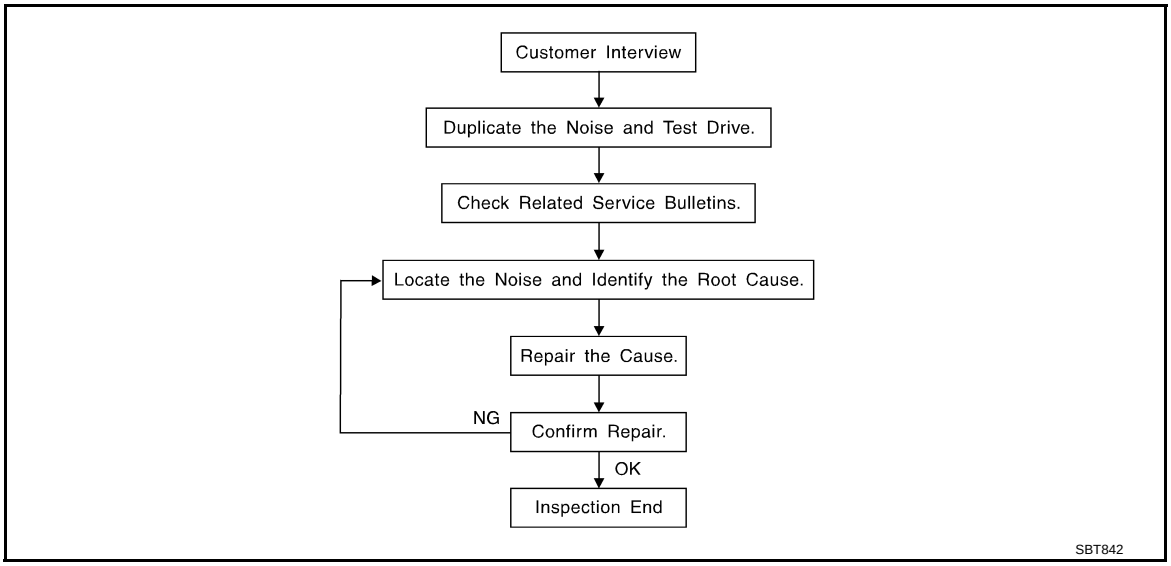
Is the result normal?

YES >> Check intermittent incident. Refer to GI-38, "Intermittent Incident".
NO >> GO TO 1.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000001683174



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-203, "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 you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

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 you suspect the noise is coming from.
  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 you suspect is causing the noise.
  Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
- placing a piece of paper between components that you suspect are causing the noise.
- looking for loose components and contact marks.
  Refer to DLK-201, "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-43980) is available through your authorized Nissan Parts Department.

CAUTION:
Do not use excessive force as many components are constructed of plastic and may be damaged.
NOTE:
Always check with the Parts Department for the latest parts information.
The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can 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 will be visible or not fit. Will only last a few months.
SILICONE SPRAY
Use when grease cannot be applied.
DUCT TAPE
Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle.Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

INFOID:0000000001683175

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:
   Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

1. 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:

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

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner.
In addition look for:

1. Trunk lid 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 seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.
Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. The rear seat back 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 orapplying 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 under hood 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

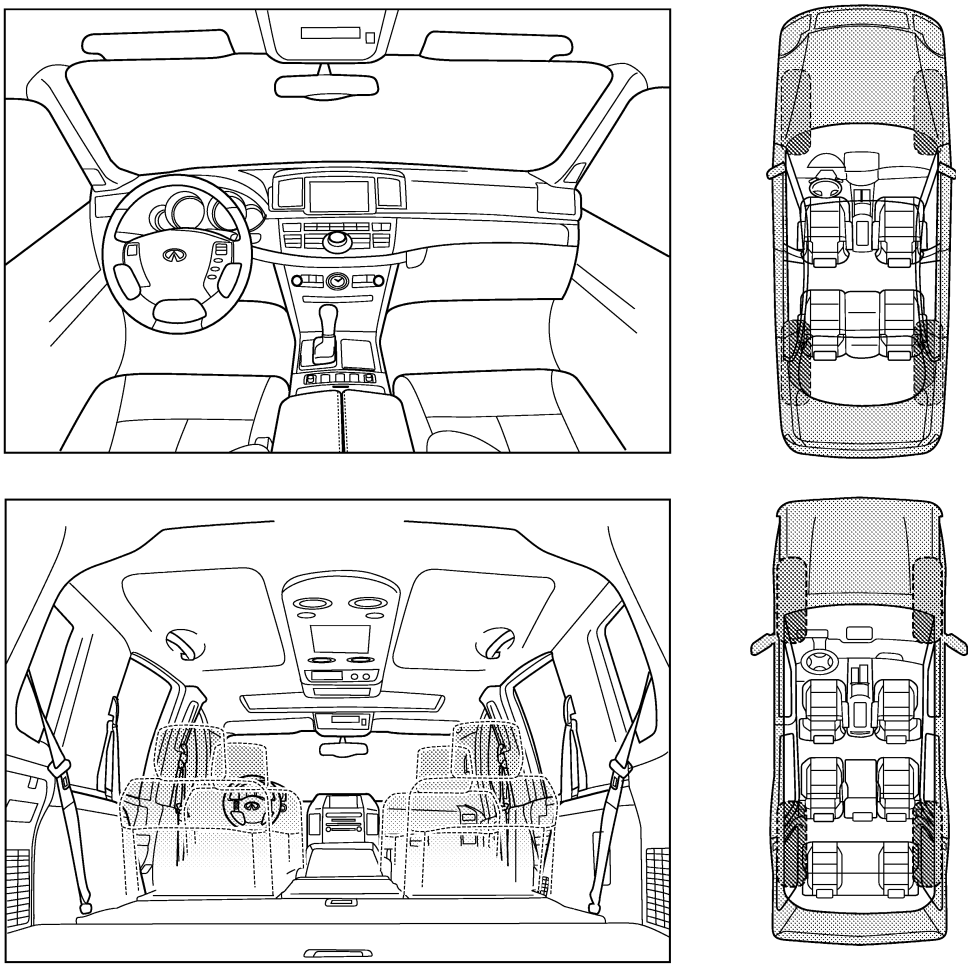
INFOID:0000000001683176

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

PRECAUTION

PRECAUTIONS

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

INFOID:0000000001695130

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 AIRBAG” and “SEAT BELT” of this Service Manual.

WARNING:

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

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:0000000001903394

NOTE:

- Before removing and installing any control units, first turn the push-button ignition switch to the LOCK position, then disconnect both battery cables.
- After finishing work, confirm that all control unit connectors are connected properly, then re-connect both battery cables.
- Always use CONSULT-III to perform self-diagnosis as a part of each function inspection after finishing work. If a DTC is detected, perform trouble diagnosis according to self-diagnosis results.

This vehicle is equipped with a push-button ignition switch and a steering lock unit.
If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned.
If turning the steering wheel is required with the battery disconnected or discharged, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.
   NOTE:
   Supply power using jumper cables if battery is discharged.
2. Carry the Intelligent Key or insert it to the key slot and turn the push-button ignition switch to ACC position. (At this time, the steering lock will be released.)
3. Disconnect both battery cables. The steering lock will remain released with both battery cables disconnected and the steering wheel can be turned.
4. Perform the necessary repair operation.
5. When the repair work is completed, re-connect both battery cables. With the brake pedal released, turn the push-button ignition switch from ACC position to ON position, then to LOCK position. (The steering wheel will lock when the push-button ignition switch is turned to LOCK position.)
6. Perform self-diagnosis check of all control units using CONSULT-III.

Precautions For Xenon Headlamp Service

INFOID:0000000001834479

WARNING:
Comply with the following warnings to prevent any serious accident.

- **Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.**
- **Never work with wet hands.**
- **Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)**
- **Never touch the bulb glass immediately after turning it OFF. It is extremely hot.**

CAUTION:

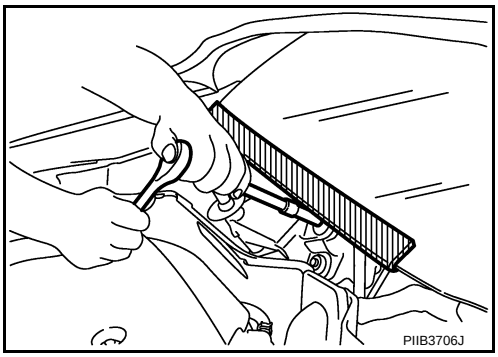
Comply with the following cautions to prevent any error and malfunction.

- **Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)**
- **Never perform HID circuit inspection with a tester.**
- **Never touch the xenon bulb glass with hands. Never put oil and grease on it.**
- **Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.**
- **Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).**

Precaution for Procedure without Cowl Top Cover

INFOID:0000000001695131

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



Work

INFOID:0000000001683180

- 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.

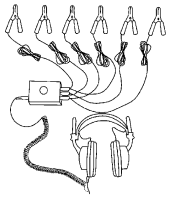
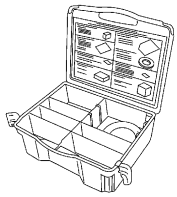
PREPARATION

PREPARATION

Special Service Tools

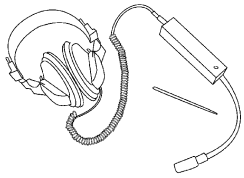
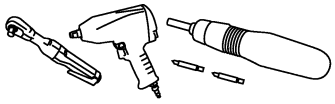
INFOID:0000000001683181

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

Tool number (Kent-Moore No.) Tool name	Description
(J-39570) Chassis ear  SIIA0993E	Locating the noise
(J-43980) NISSAN Squeak and Rattle Kit  SIIA0994E	Repairing the cause of noise

Commercial Service Tools

INFOID:0000000001683182

Tool name	Description
Engine ear  SIIA0995E	Locating the noise
Power tool  PIIB1407E	

ON-VEHICLE REPAIR

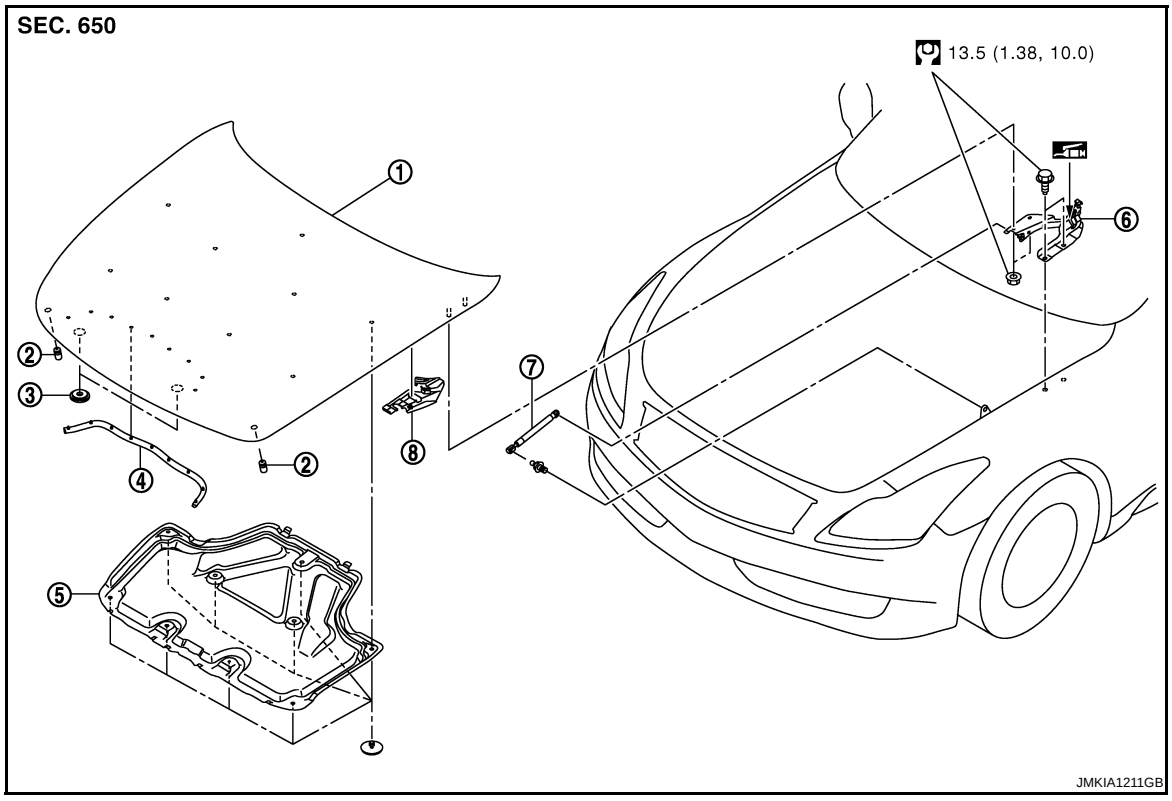
HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:0000000001722586

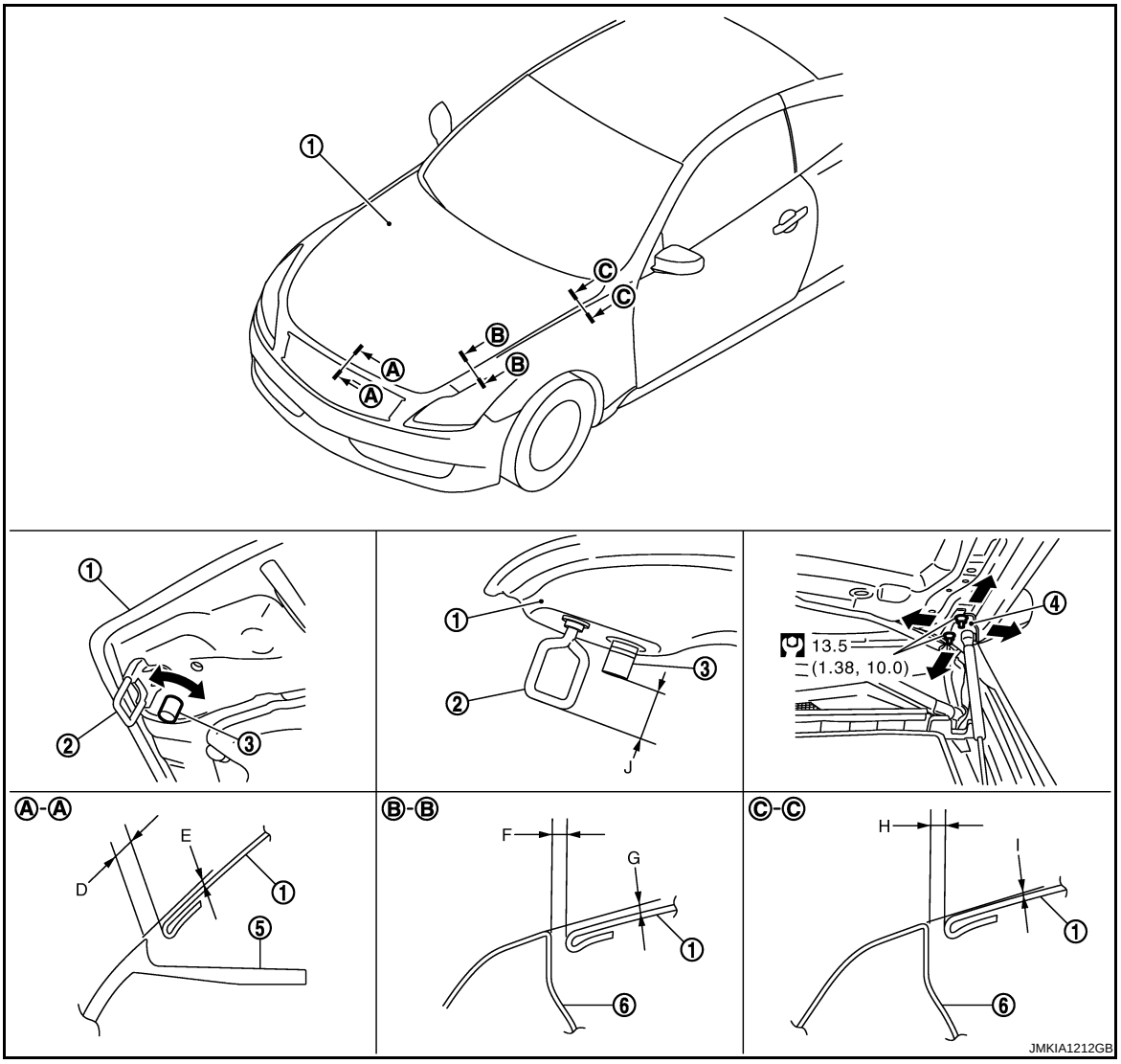
REMOVAL



1. Hood assembly
2. Hood bumper rubber
3. Seal
4. Radiator core seal
5. Hood insulator
6. Hood hinge
7. Hood stay
8. Hood hinge cover

Refer to GI-4, "Components" for symbols in the figure.

ADJUSTMENT



1. Hood assembly
2. Striker
3. Hood bumper rubber
4. Hood hinge
5. Front bumper
6. Front fender

Refer to GI-4, "Components" for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:0000000001722587

CAUTION:
Operate with two workers, because of its heavy weight.

REMOVAL

1. Support the hood lock assembly with a proper material to prevent it from falling.

   WARNING:
   Body injury may occur if no supporting rod is holding the hood open when removing the hood stay.
2. Remove the hood hinge cover (RH,LH).
3. Remove the washer nozzle, washer tube. Refer to WW-86, "Removal and Installation".
4. Remove the stud balls on the hood stays at the hood side.
5. Remove the hinge mounting nuts on the hood to remove the hood assembly.

INSTALLATION

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-210, "HOOD ASSEMBLY : Adjustment".**
- **After installing, perform front washer nozzle and tube inspection and adjustment. Refer to WW-86, "Inspection and Adjustment".**

HOOD ASSEMBLY : Adjustment

INFOID:0000000001722588

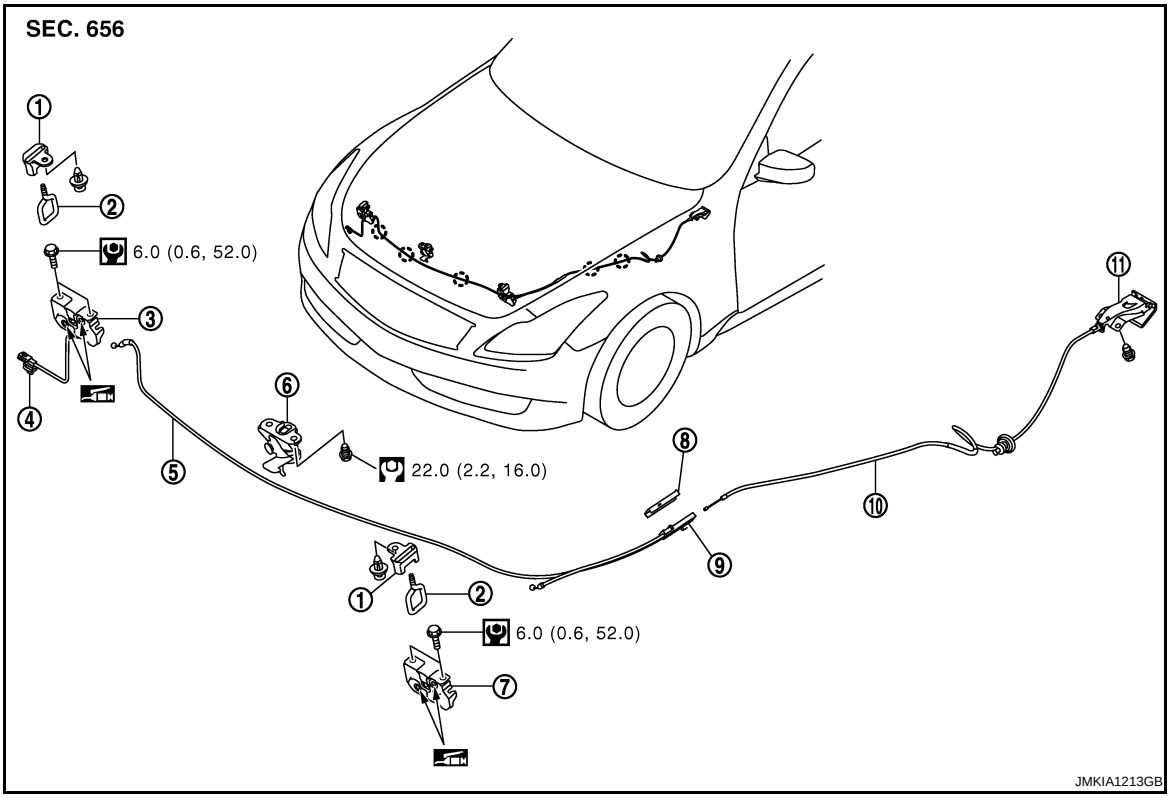
Portion				Standard	Right/left Clearance (MAX)
Hood – Front bumper	A – A	D	Clearance	2.0 – 5.0 mm (0.079 – 0.197 in)	—
		E	Surface height	–1.0 – 2.0 mm (–0.039 – 0.079 in)	—
Hood – Front fender	B – B	F	Clearance	2.5 – 4.5 mm (0.098 – 0.177 in)	2.0 mm (0.079 in)
		G	Surface height	–1.0 – 2.0 mm (–0.039 – 0.079 in)	—
	C – C	H	Clearance	2.5 – 4.5 mm (0.098 – 0.177 in)	2.0 mm (0.079 in)
		I	Surface height	–1.0 – 1.0 mm (–0.039 – 0.039 in)	—
Striker – Hood bumper rubber	—	J	Height difference	32.5 – 33.5 mm (1.280 – 1.319 in)	—

1. Check the clearance and the surface height between the hood and each part visually and by touching. (Fitting standard dimension in the table below should be satisfied.
2. In case out of specification, adjust them according to the procedures shown below.
3. Remove the striker and adjust the surface height of hood, front bumper and front fender according to the fitting standard dimension, by rotating hood bumper rubbers.
4. Adjust the height difference of striker, hood bumper rubber according to the fitting standard dimension.
5. Loosen the hood hinge mounting nuts on the hood.
6. Adjust the clearance of hood, front bumper and front fender according to the fitting standard dimension, for the hood.
7. Check that the hood lock primary latch is securely engaged with the striker by dropping hood from approximately 200 mm (7.874 in) height or pressing lightly on the hood.
   CAUTION:
   Do not drop hood from a height of 300 mm (11.811 in) or more.
8. Install as static closing face 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.
   - Do not press simultaneously both sides.
9. After adjustment tighten hood hinge mounting nuts to the specified torque.

HOOD LOCK CONTROL

HOOD LOCK CONTROL : Exploded View

INFOID:0000000001722589



1. Hood lock cover
2. Striker
3. Hood lock (RH)
4. Hood lock switch harness connector
5. Hood lock control cable (Front)
6. Secondary latch
7. Hood lock (LH)
8. Hood lock control cable protector cover
9. Hood lock control cable protector
10. Hood lock control cable (Rear)
11. Hood lock opener

: Clip

Refer to GI-4, "Components" for symbols in the figure.

HOOD LOCK CONTROL : Removal and Installation

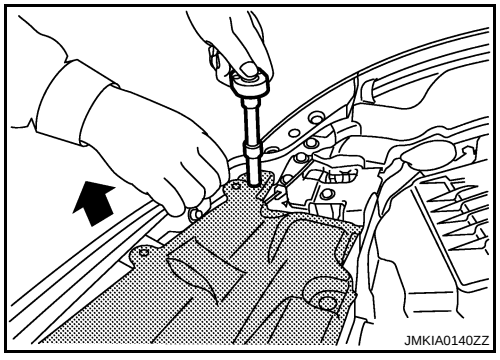
INFOID:0000000001722590

REMOVAL

1. Remove the washer tank. Refer to WW-83, "Removal and Installation".
2. Remove the radiator core support ornament.
   - Remove the radiator core support ornament mounting bolts and clips.

   NOTE:
   To remove the mounting bolts on both sides of radiator core support ornament, first remove the mounting bolts of front bumper (shown by arrows in the figure) and pull up the bumper edge slightly to get working clearance.

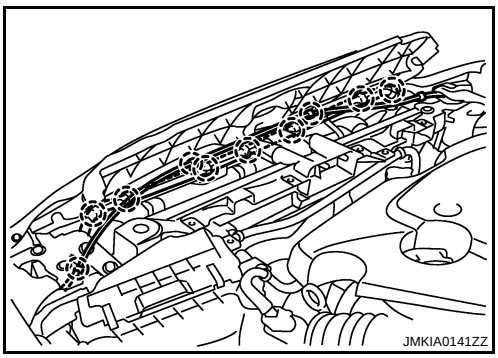
   CAUTION:
   Do not apply excessive force while pulling front bumper to prevent front bumper and front fender from being damaged.



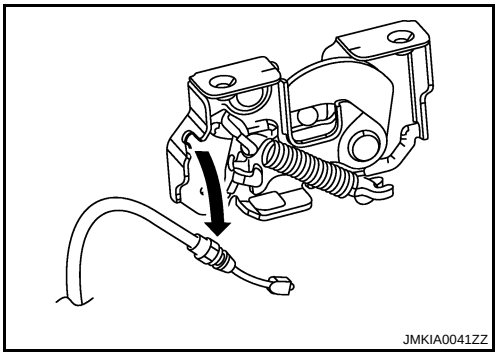
   - Hold both sides of radiator core support ornament, pull it upwards and slide it rearwards of the vehicle.

- Disconnect the harness clip and hood lock control cable clip on radiator core support.

: Clip

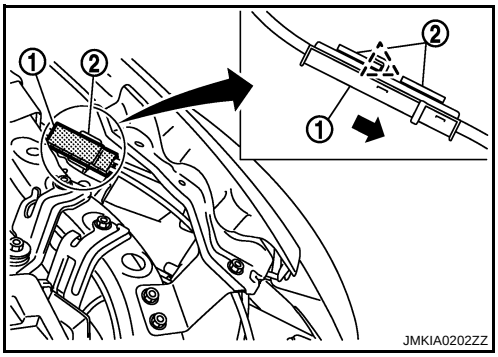


3. Remove the fender protector (LH). Refer to DLK-217, "Removal and Installation".
4. Disconnect hood lock switch (RH side) harness connector.
5. Remove the hood lock bracket mounting bolts, and remove the hood lock bracket assembly. Refer to DLK-214, "Exploded View".
6. Remove the hood lock mounting bolts, and disassemble the hood lock from the hood lock bracket.
7. Disconnect the hood lock control cable from the hood lock and clip it to the hood ledge.

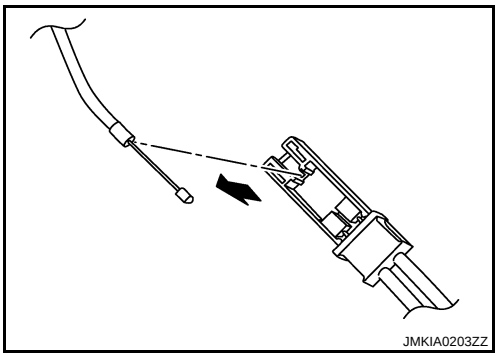


8. Remove the hood lock control cable protector (1) from the headlamp assembly (2).

: Pawl



9. Remove the hood lock control cable cover from hood lock control cable protector.
10. Disconnect the hood lock control cable from hood lock control cable protector.



11. Remove the mounting screws and then remove the hood lock opener.
12. Remove the grommet on the dashboard, and pull the hood lock control cable toward the passenger compartment.

CAUTION:
While pulling, do not damage (peel off) the outside of the hood lock control cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:
- **Do not bend the cable too much, keeping the radius 100 mm (3.937 in) or more.**
- **Check that the hood lock control cable is properly engaged with the hood lock.**
- **After installing, perform hood fitting adjustment. Refer to DLK-210, "HOOD ASSEMBLY : Adjustment".**
- **After installing, perform the hood lock control inspection. Refer to DLK-213, "HOOD LOCK CONTROL : Inspection".**

HOOD LOCK CONTROL : Inspection

INFOID:0000000001722591

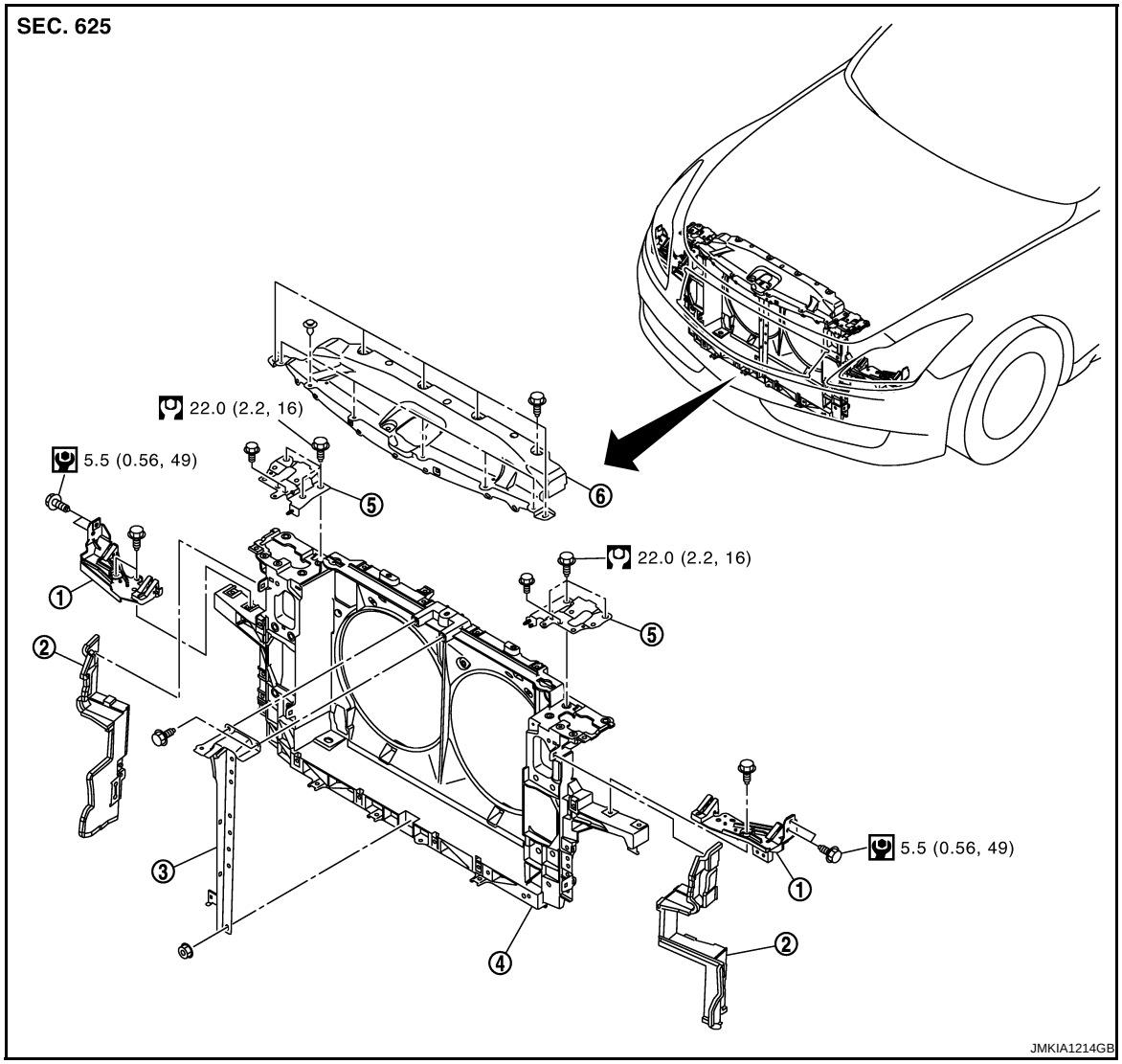
NOTE:
If the hood lock cable is bent or deformed, replace it.

1. Check that the secondary latch is properly engaged with the hood lock stay by hood weight.
2. While operating the hood opener, carefully check that the front end of the hood is raised by approximately 20 mm (0.787 in). Also check that the hood opener returns to the original position.
3. Check that the hood opener operating is 49 N (5.0 kg) or below.
4. Install so that static closing face 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.
   - Do not press simultaneously both sides.
5. Check the hood lock lubrication condition. If necessary, apply body grease to the hood lock.

RADIATOR CORE SUPPORT

Exploded View

INFOID:0000000001722592



1. Headlamp bracket
2. Air guide
3. Hood lock stay
4. Radiator core support assembly
5. Hood lock bracket
6. Radiator core support ornament

Refer to GI-4, "Components" for symbols in the figure.

Removal and Installation

INFOID:0000000001722593

REMOVAL

1. Remove the front bumper fascia and front bumper reinforcement. Refer to EXT-13, "Removal and Installation".
2. Remove the radiator reservoir tank. Refer to CO-14, "Exploded View".
3. Remove horn (High/Low). Refer to HRN-6, "Removal and Installation".
4. Remove the radiator core support ornament.
   - Remove the radiator core support ornament mounting bolts and clips.

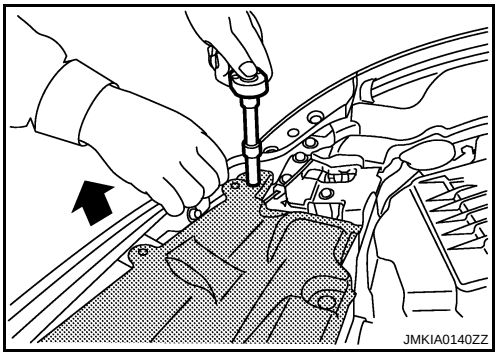
   NOTE:

In the case that only radiator core support ornament is removed (front bumper is not removed), remove them according to the procedures shown below.

- To remove the mounting bolts on both sides of radiator core support ornament, first remove the mounting bolts of front bumper (shown by arrows in the figure) and pull up the bumper edge slightly to get working clearance.

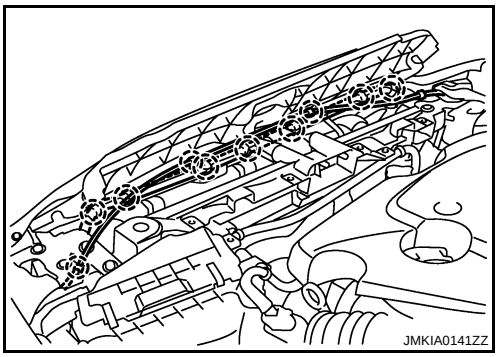
CAUTION:

Do not apply excessive force while pulling front bumper to prevent front bumper and front fender from being damaged.



- Hold both sides of radiator core support ornament, pull it upwards and slide it rearwards of the vehicle.
- Disconnect the harness clip and hood lock control cable clip on radiator core support.

: Clip



5. Remove the front combination lamp. Refer to EXL-189, "Removal and Installation".
6. Remove the hood lock bracket assembly.
7. Remove the washer inlet and washer tank. Refer to WW-83, "Removal and Installation".
8. Remove the ambient sensor. Refer to VTL-25, "Removal and Installation".
9. Remove the power steering fluid cooler. Refer to ST-45, "Exploded View".
10. Remove the air guide mounting clips and then remove air guide.
11. Disconnect the harness connector from liquid tank. Refer to HA-51, "Exploded View".
12. Disconnect harness clamp from radiator core support.
13. Remove the hood lock stay.
14. Remove the engine lower cover. Refer to EXT-29, "Removal and Installation".
15. Drain engine coolant from radiator. Refer to CO-8, "Draining".
16. Remove the radiator upper hose and lower hose on radiator & condenser assembly sides.
17. Remove the A/T fluid cooler hose on radiator & condenser assembly sides. Refer to TM-261, "Removal and Installation".
18. Disconnect condenser pipe assembly at one touch joint. Refer to HA-49, "Removal and Installation".
19. Remove the radiator core support assembly mounting bolts, and pull out radiator core support assembly toward the front of the vehicle.
20. Disconnect the cooling fan and crush zone sensor harness connector and clamp.
21. Remove the radiator core support assembly.
22. Remove the following parts after removing the radiator core support assembly.
    - Headlamp bracket.
    - Cooling fan. Refer to CO-17, "Removal and Installation".
    - Radiator & condenser assembly. Refer to CO-15, "Removal and Installation".
    - Crush zone sensor. Refer to SR-14, "Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

CAUTION:

After installation, refill the following.

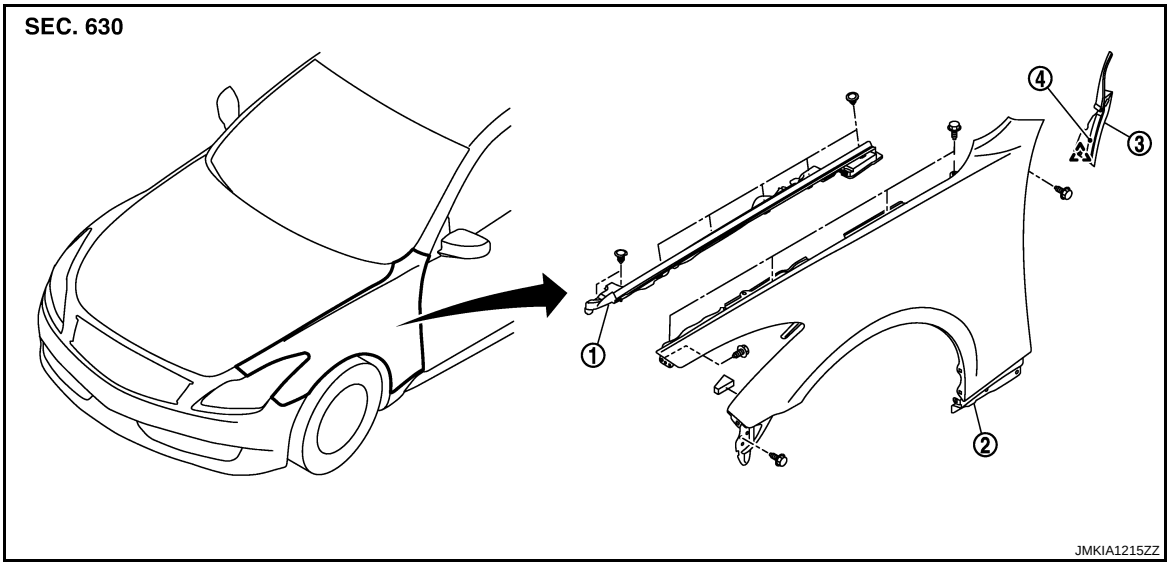
- **Power stealing fluid. Refer to ST-10, "Inspection".**

- **A/T fluid. Refer to TM-215, "Changing".**
- **Engine coolant. Refer to CO-9, "Refilling".**

FRONT FENDER

Exploded View

INFOID:0000000001722594



1. Hood seal assembly (side)
2. Front fender
3. Baffle assembly
4. Double-faced adhesive tape

Removal and Installation

INFOID:0000000001722595

REMOVAL

1. Remove the front bumper fascia. Refer to EXT-13, "Removal and Installation".
2. Remove the hood seal assembly (side).
3. Remove the front combination lamp. Refer to EXL-189, "Removal and Installation".
4. Remove the fender protector. Refer to EXT-24, "FENDER PROTECTOR : Removal and Installation".
5. Remove the center mudguard. Refer to EXT-27, "Removal and Installation".
6. Remove the mounting bolt and remove the front fender.

CAUTION:
While removing use a shop cloth to protect body from damaging.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **After installing, apply touch-up paint (the body color) onto the head of the front fender mounting bolts.**
- **After installing, check front fender adjustment. Refer to DLK-210, "HOOD ASSEMBLY : Adjustment" and DLK-219, "DOOR ASSEMBLY : Adjustment".**

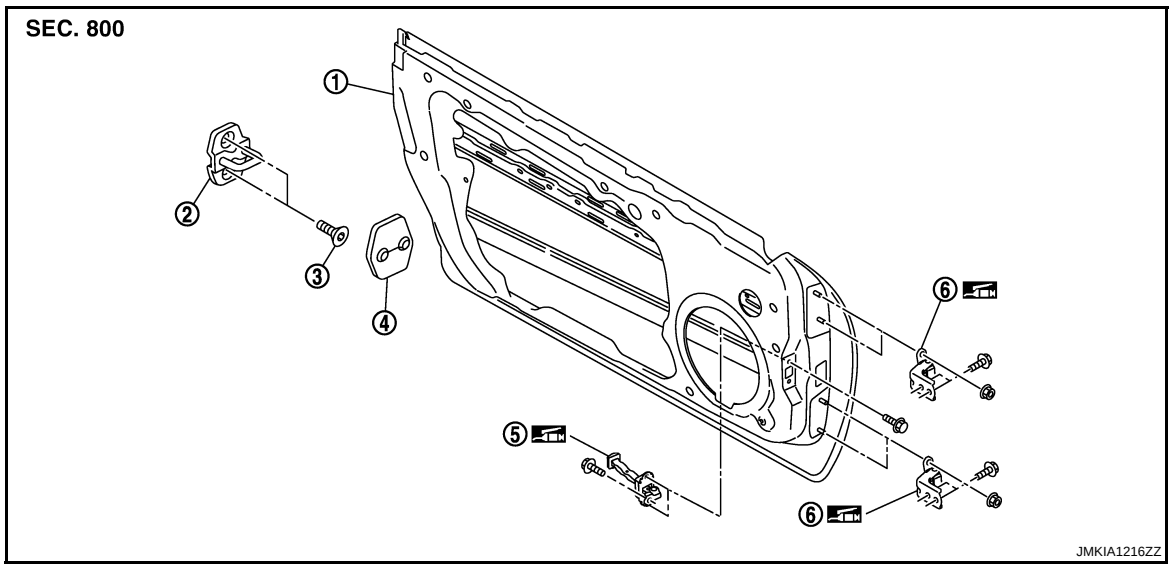
DOOR

DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:0000000001722596

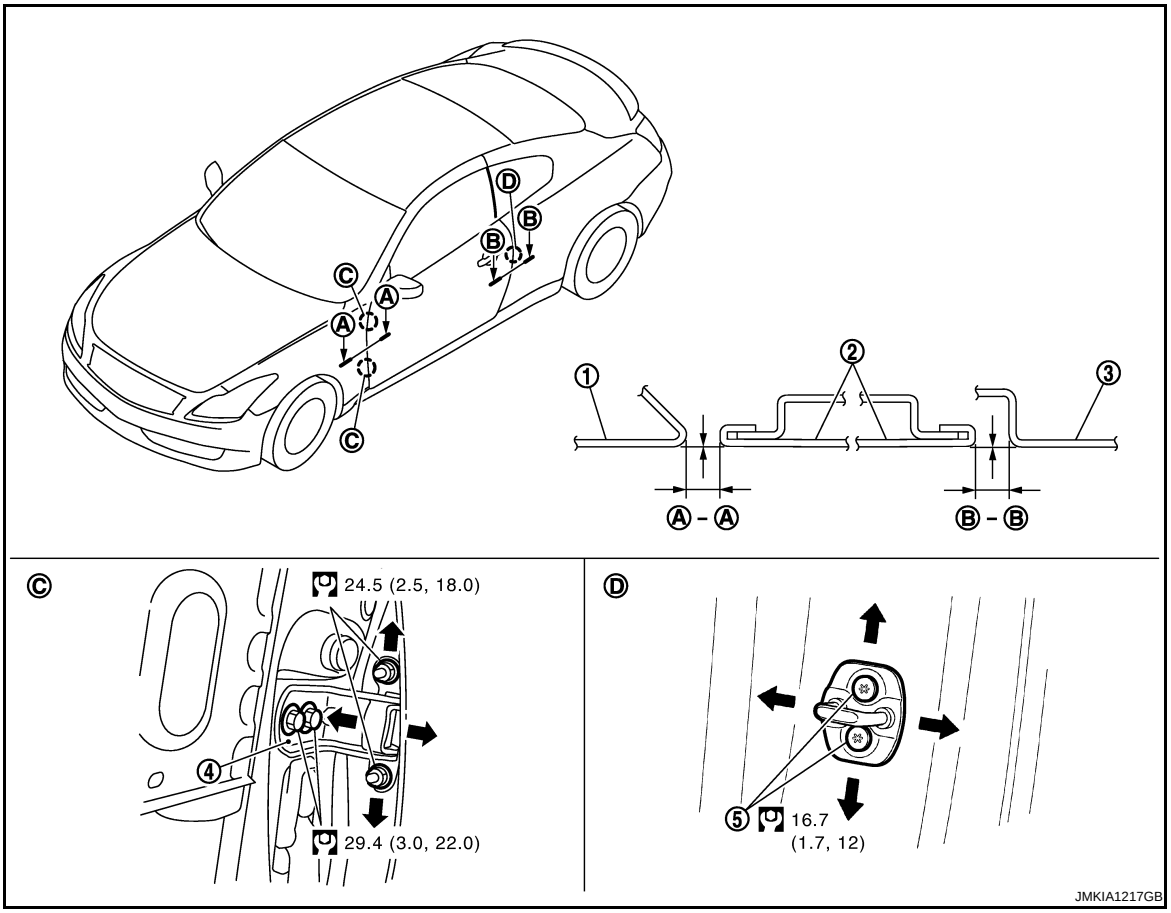
REMOVAL



1. Door panel
2. Door striker
3. TORX bolt
4. Door striker cover
5. Check link
6. Door hinge (upper, lower)

Refer to GI-4, "Components" for symbols in the figure.

ADJUSTMENT



1. Front fender
2. Door panel
3. Rear fender
4. Door hinge
5. Door striker

Refer to GI-4, "Components" for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:0000000001722597

REMOVAL

CAUTION:

- **When removing and installing the door assembly, support the door with a jack and cloth to protect the door and body.**
- **When removing and installing door assembly, perform the fitting adjustment. Refer to DLK-219, "DOOR ASSEMBLY : Adjustment".**
- **After installing, apply touch-up paint (the body color) onto the head of the hinge mounting nuts.**
- **Check the hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **Operate with two workers, because of its heavy weight.**
- **Check door open/close operation after installation.**

1. Remove the mounting bolts of the check link on the vehicle.
2. Pull the lever and disconnect the door harness connector while removing tabs of door harness connector.
3. Remove the door side hinge mounting nuts, then remove the door assembly.

INSTALLATION

Install in the reverse order of removal.

DOOR ASSEMBLY : Adjustment

INFOID:0000000001722598

CLEARANCE, SURFACE HEIGHT AND SURFACE MISMATCH ADJUSTMENT

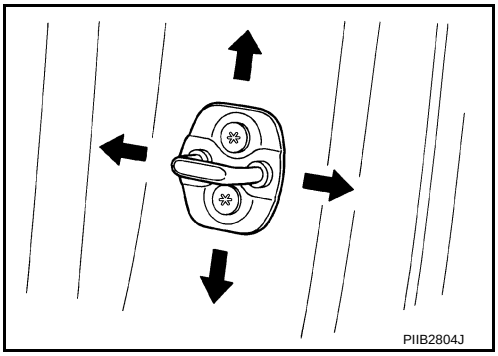
1. Check the clearance and surface height and surface mismatch between the door and each part visually and by touching. (Fitting standard dimension in the table below should be satisfied.)

Portion		Clearance	Surface height
Front fender – Door	A – A	2.5 – 4.5 mm (0.098 – 0.177 in)	–1.0 – 1.0 mm (–0.039 – 0.039 in)
Door – Rear fender	B – B	2.5 – 4.5 mm (0.098 – 0.177 in)	–1.0 – 1.0 mm (–0.039 – 0.039 in)

2. In case out of specification, adjust them according to the procedures shown below.
3. Remove the front fender. Refer to DLK-217, "Removal and Installation".
4. Loosen the hinge mounting nuts on door side.
5. Adjust the surface height and surface mismatch of the door according to the fitting standard dimension.
6. Temporarily tighten the hinge mounting nuts on door side.
7. Loosen the hinge mounting bolts on body side.
8. Raise the door at rear end to adjust clearance of the front according to the fitting standard dimension.
9. After adjustment tighten bolts and nuts to the specified torque.
10. Install the front fender. Refer to DLK-217, "Removal and Installation".

STRIKER ADJUSTMENT

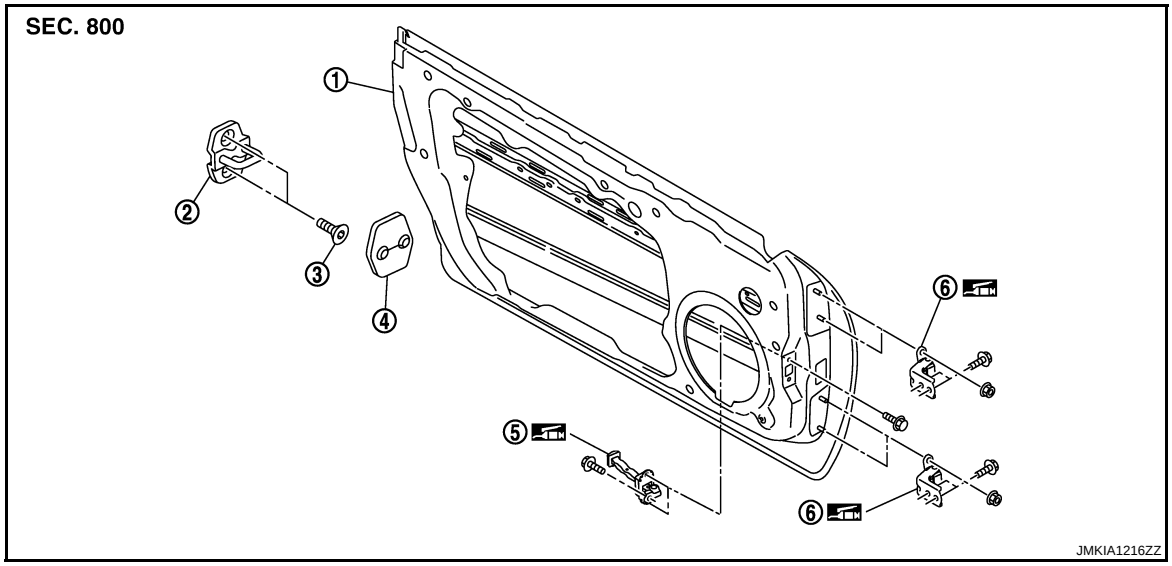
Adjust the striker so that it becomes parallel with the lock insertion direction.



DOOR STRIKER

DOOR STRIKER : Exploded View

INFOID:0000000001722619



1. Door panel
2. Door striker
3. TORX bolt
4. Door striker cover
5. Check link
6. Door hinge (upper, lower)

Refer to GI-4, "Components" for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:0000000001722620

REMOVAL

1. Remove the door striker cover.
2. Remove the TORX bolts, and then remove the door striker.

INSTALLATION

Install in the reverse order of removal.

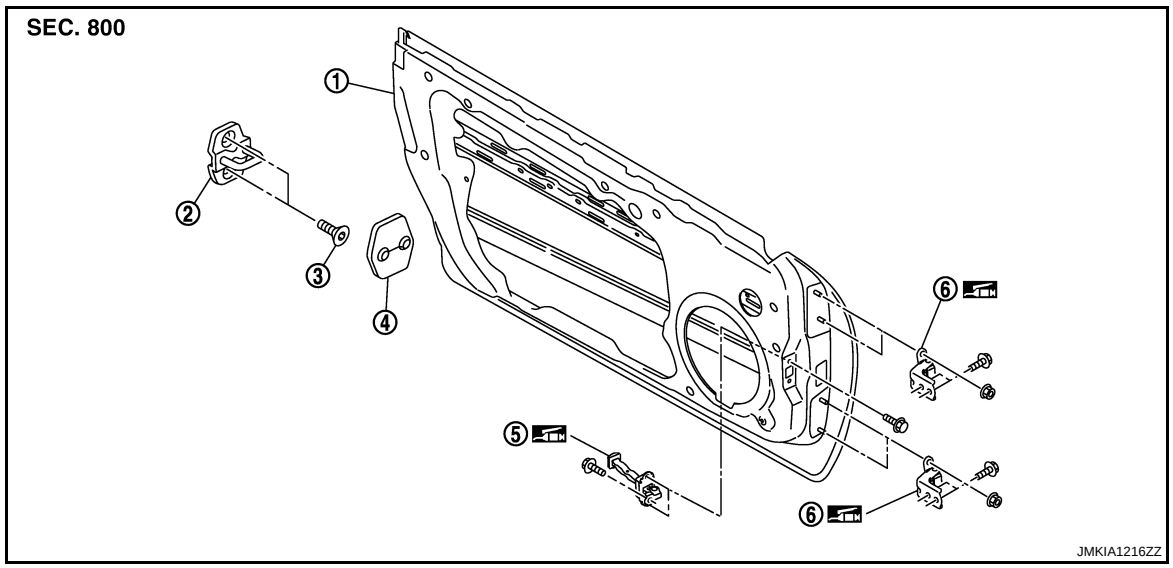
CAUTION:

- **Check the door open/close operation after installation.**
- **When removing and installing the door striker, be sure to perform the fitting adjustment. Refer to DLK-219, "DOOR ASSEMBLY : Adjustment".**

DOOR HINGE

DOOR HINGE : Exploded View

INFOID:0000000001736637



1. Door panel
2. Door striker
3. TORX bolt
4. Door striker cover
5. Check link
6. Door hinge (upper, lower)

Refer to GI-4, "Components" for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:0000000001722600

REMOVAL

1. Remove the door assembly. Refer to DLK-219, "DOOR ASSEMBLY : Removal and Installation".
2. Remove the door hinge mounting bolts, and then remove the door hinge.

INSTALLATION

Install in the reverse order of removal.

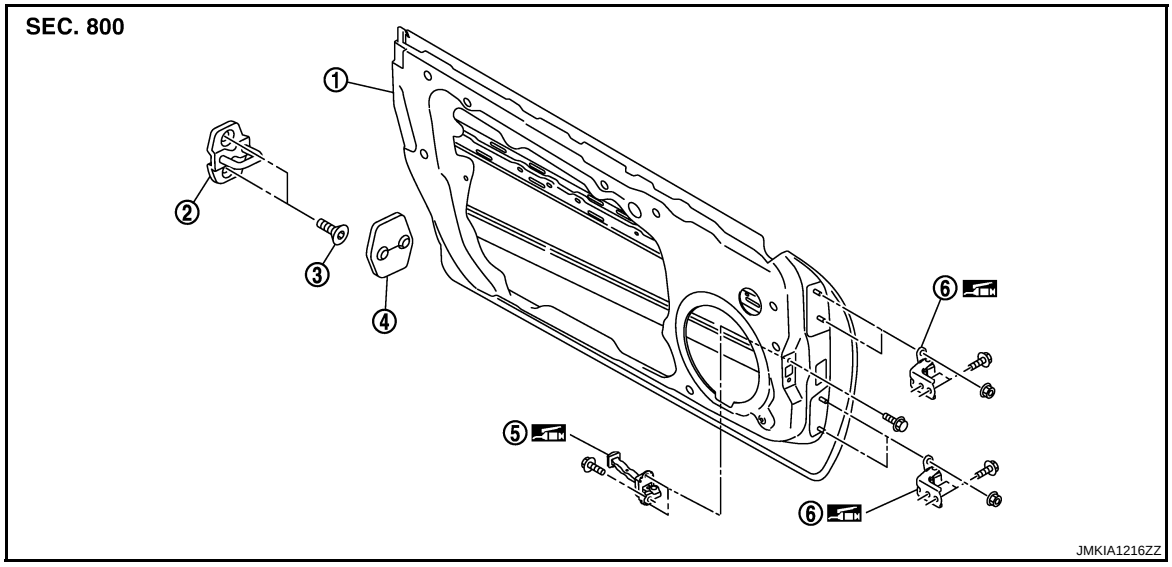
CAUTION:

- **When removing and installing the door assembly, perform the fitting adjustment. Refer to DLK-219, "DOOR ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of the door hinge mounting nuts.**
- **Check the door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **Check the door open/close operation after installation.**

DOOR CHECK LINK

DOOR CHECK LINK : Exploded View

INFOID:0000000001736638



1. Door panel
2. Door striker
3. TORX bolt
4. Door striker cover
5. Check link
6. Door hinge (upper, lower)

Refer to GI-4, "Components" for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:0000000001722602

REMOVAL

1. Remove the door finisher. Refer to INT-11, "Removal and Installation".
2. Remove the door speaker.
3. Remove the mounting bolt of the door check link on the vehicle.
4. Remove the door check link mounting bolts on the door side.
5. Remove the door check link.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check the door open/close operation after installation.

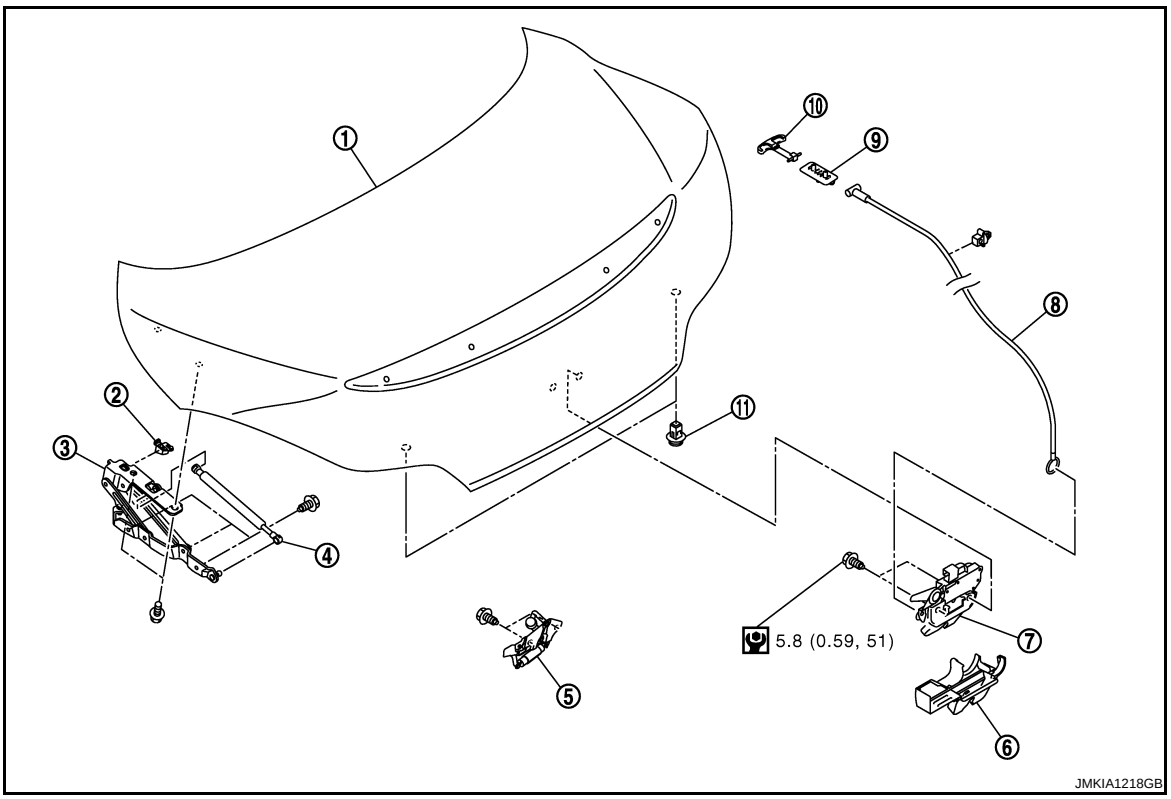
TRUNK LID

TRUNK LID ASSEMBLY

TRUNK LID ASSEMBLY : Exploded View

INFOID:0000000001722610

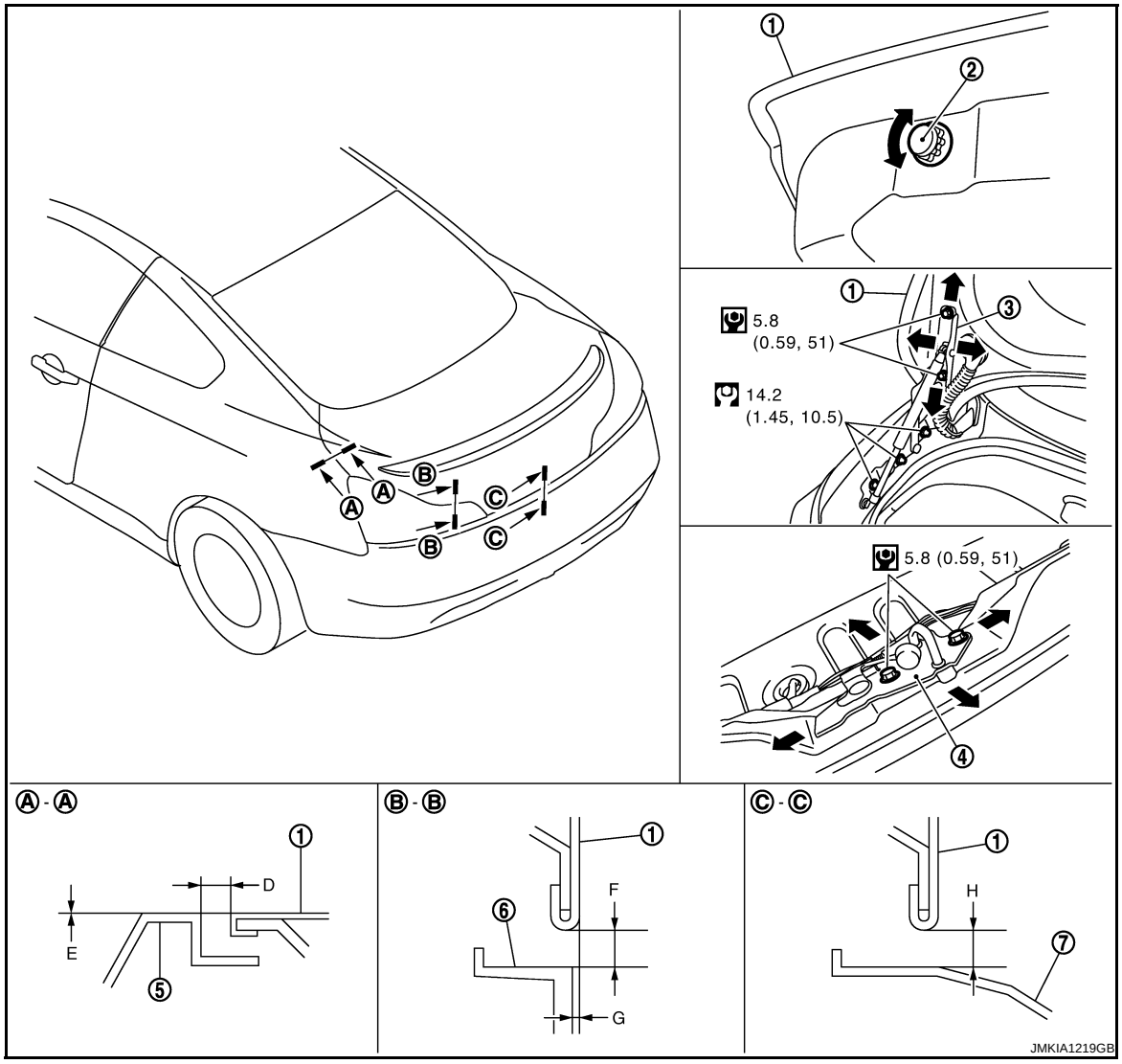
REMOVAL



1. Trunk lid assembly
2. Trunk lid hinge stopper
3. Trunk lid hinge
4. Trunk lid stay
5. Trunk lid striker
6. Trunk lid lock cover
7. Trunk lid lock assembly
8. Trunk lid opener cable
9. Trunk lid emergency opener lever holder
10. Trunk lid emergency opener lever
11. Bumper rubber

Refer to GI-4, "Components" for the symbols in the figure.

ADJUSTMENT



1. Trunk lid assembly
2. Bumper rubber
3. Trunk lid hinge
4. Trunk lid striker
5. Rear fender
6. Rear combination lamp
7. Rear bumper

Refer to GI-4, "Components" for symbols in the figure.

TRUNK LID ASSEMBLY : Removal and Installation

INFOID:0000000001722611

REMOVAL

1. Remove the trunk lid finisher inner. Refer to INT-29, "Removal and Installation".
2. Disconnect the connectors in the trunk lid, and remove the harness clamps to pull the harness out of the trunk lid.
3. Remove trunk lid stay at trunk lid side.
   NOTE:
   Insert flat-bladed screwdriver into the gap and remove holder.
   WARNING:
   Body injury may occur if no supporting rod is holding the trunk lid open when removing the stay.
   CAUTION:
   While removing use a shop cloth or tape to protect from damaging.
4. Remove the trunk lid hinge mounting bolts on trunk lid side and remove the trunk lid assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **After installing, apply touch-up paint (the body color) onto the head of the hinge mounting bolts.**
- **After installing, check operation.**
- **After installing, perform fitting adjustment. Refer to DLK-225, "TRUNK LID ASSEMBLY : Adjustment".**

TRUNK LID ASSEMBLY : Adjustment

INFOID:0000000001722612

1. Check the clearance and the evenness between the trunk lid and each part visually and by touching. (Fitting standard dimension in the table below should be satisfied.)

Portion				Standard	Right/left Clearance (MAX)
Trunk lid – Rear fender	A – A	D	Clearance	2.5 – 4.5 mm (0.098 – 0.177 in)	1.5 mm (0.059 in)
		E	Surface height	–1.5 – 0.5 mm (–0.059 – 0.020 in)	1.5 mm (0.059 in)
Trunk lid – Rear combination lamp	B – B	F	Clearance	3.7 – 7.7 mm (0.146 – 0.303 in)	3.0 mm (0.118 in)
		G	Surface height	–2.5 – 1.5 mm (–0.098 – 0.059 in)	2.0 mm (0.079 in)
Trunk lid – Rear bumper	C – C	H	Clearance	4.0 – 8.0 mm (0.157 – 0.315 in)	—

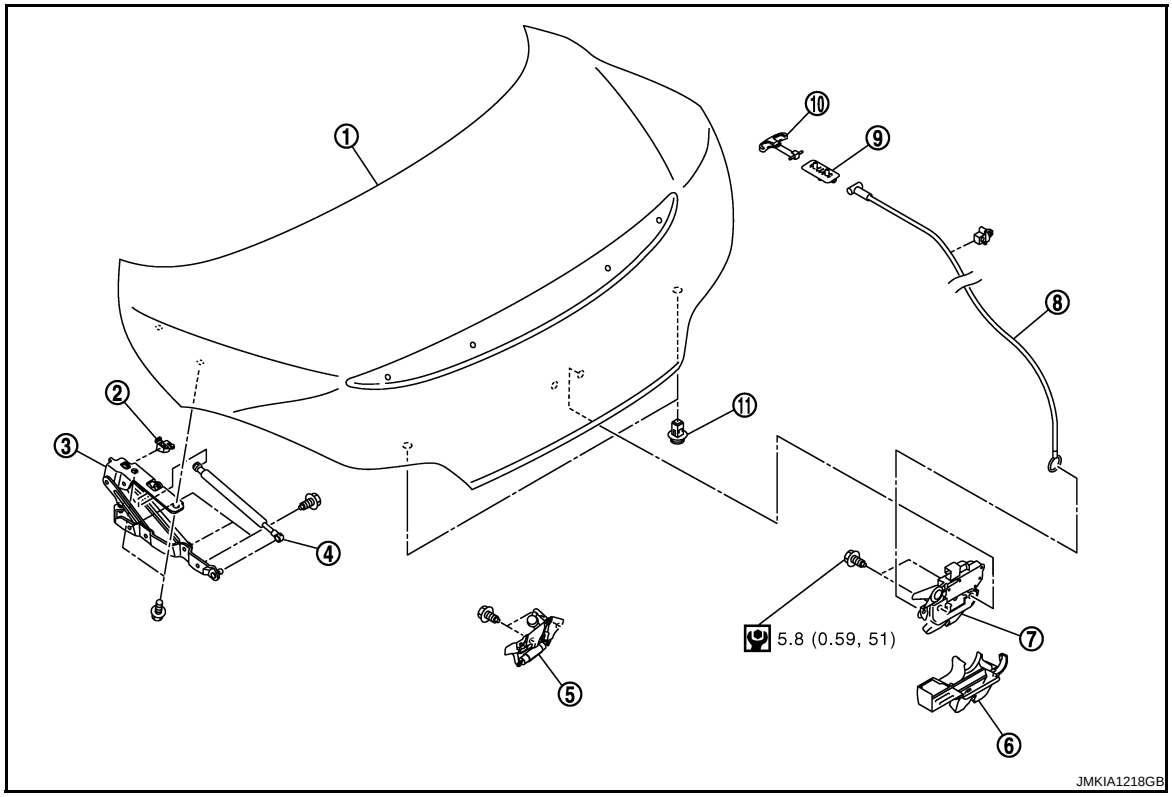
2. In case out of specification, adjust them according to the procedures shown below.
3. Loosen the bumper rubber.
4. Loosen the striker mounting bolts.
5. Lift up the trunk lid approximately 100 – 150 mm (3.937 – 5.906 in) height then close it lightly and check that it is engaged firmly with the trunk lid closed.
6. Check the clearance and evenness.
7. Finally tighten the trunk lid striker.

TRUNK LID STRIKER

TRUNK LID STRIKER : Exploded View

INFOID:0000000001831344

REMOVAL



1. Trunk lid assembly
2. Trunk lid hinge stopper
3. Trunk lid hinge
4. Trunk lid stay
5. Trunk lid striker
6. Trunk lid lock cover
7. Trunk lid lock assembly
8. Trunk lid opener cable
9. Trunk lid emergency opener lever holder
10. Trunk lid emergency opener lever
11. Bumper rubber

Refer to GI-4, "Components" for the symbols in the figure.

TRUNK LID STRIKER : Removal and Installation

INFOID:0000000001722636

REMOVAL

1. Remove the trunk rear plate. Refer to INT-27, "Exploded View".
2. Remove the bolts, and remove the trunk lid striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

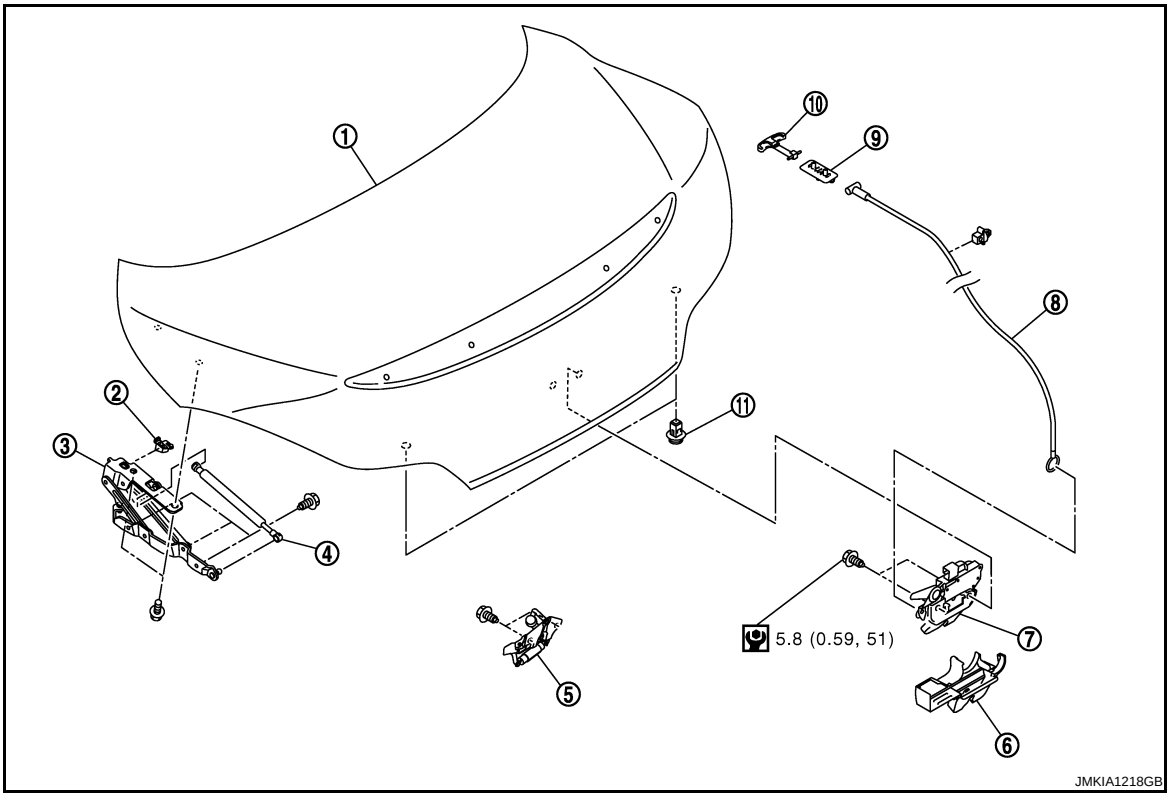
After installing, perform fitting adjustment. Refer to DLK-225, "TRUNK LID ASSEMBLY : Adjustment".

TRUNK LID HINGE

TRUNK LID HINGE : Exploded View

INFOID:0000000001831348

REMOVAL



1. Trunk lid assembly
2. Trunk lid hinge stopper
3. Trunk lid hinge
4. Trunk lid stay
5. Trunk lid striker
6. Trunk lid lock cover
7. Trunk lid lock assembly
8. Trunk lid opener cable
9. Trunk lid emergency opener lever holder
10. Trunk lid emergency opener lever
11. Bumper rubber

Refer to GI-4, "Components" for the symbols in the figure.

TRUNK LID HINGE : Removal and Installation

INFOID:0000000001831342

REMOVAL

1. Remove the trunk lid assembly. Refer to DLK-224, "TRUNK LID ASSEMBLY : Removal and Installation".
2. Remove the trunk drip cover. Refer to EXT-39, "TRUNK DRIP COVER : Removal and Installation".
3. Remove the trunk lid stay. Refer to DLK-228, "TRUNK LID STAY : Removal and Installation".
4. Remove the trunk lid hinge mounting bolts (body side), and then remove the trunk lid hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

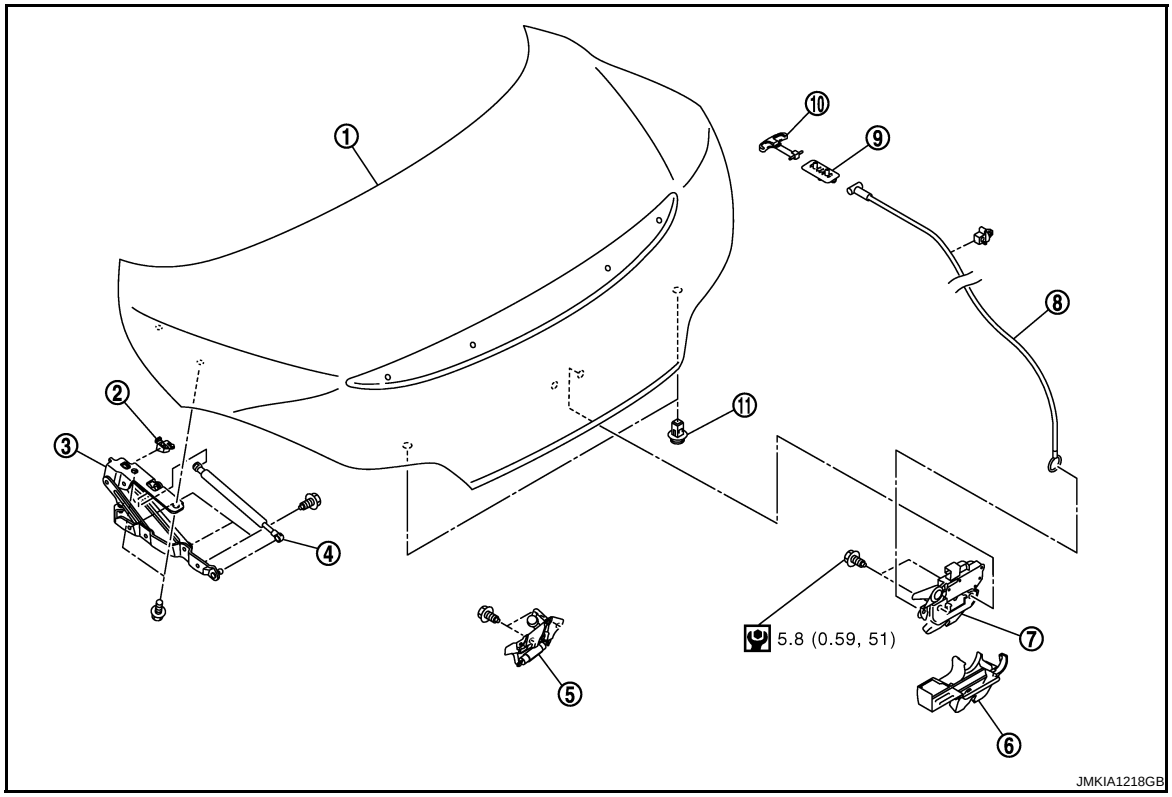
- **Check the trunk lid open/close operation after installation.**
- **Check the hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **When removing and installing the trunk lid assembly, perform the fitting adjustment. Refer to DLK-225, "TRUNK LID ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of the hinge mounting nuts.**

TRUNK LID STAY

TRUNK LID STAY : Exploded View

INFOID:0000000001831349

REMOVAL



1. Trunk lid assembly
2. Trunk lid hinge stopper
3. Trunk lid hinge
4. Trunk lid stay
5. Trunk lid striker
6. Trunk lid lock cover
7. Trunk lid lock assembly
8. Trunk lid opener cable
9. Trunk lid emergency opener lever holder
10. Trunk lid emergency opener lever
11. Bumper rubber

Refer to GI-4, "Components" for the symbols in the figure.

TRUNK LID STAY : Removal and Installation

INFOID:0000000001722614

WARNING:

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

REMOVAL

1. Remove the trunk drip cover. Refer to EXT-39, "TRUNK DRIP COVER : Removal and Installation".
2. Insert flat-bladed screwdriver into the gap and remove the trunk lid stay.

INSTALLATION

Install in the reverse order of removal.

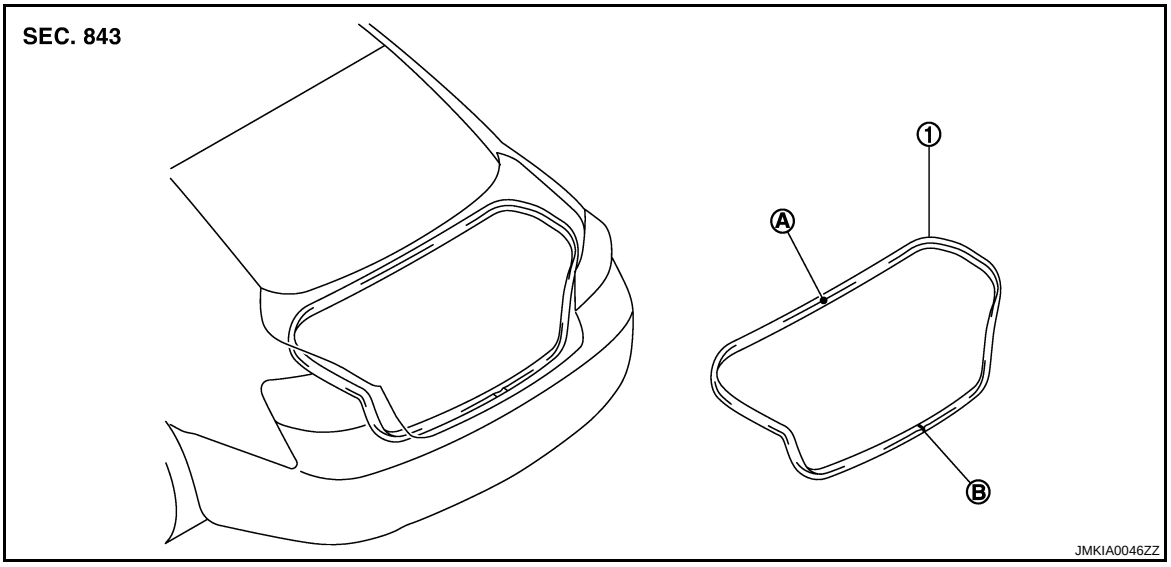
CAUTION:

Check the trunk lid open/close operation after installation.

TRUNK LID WEATHERSTRIP

TRUNK LID WEATHERSTRIP : Exploded View

INFOID:0000000001722615



1. Weather-strip (A) Seam (upper) (B) Seam (lower)

TRUNK LID WEATHERSTRIP : Removal and Installation

INFOID:0000000001722616

REMOVAL

Pull up and remove engagement with body from weather-strip joint.

CAUTION:

After removal, do not pull strongly on the weather-strip.

INSTALLATION

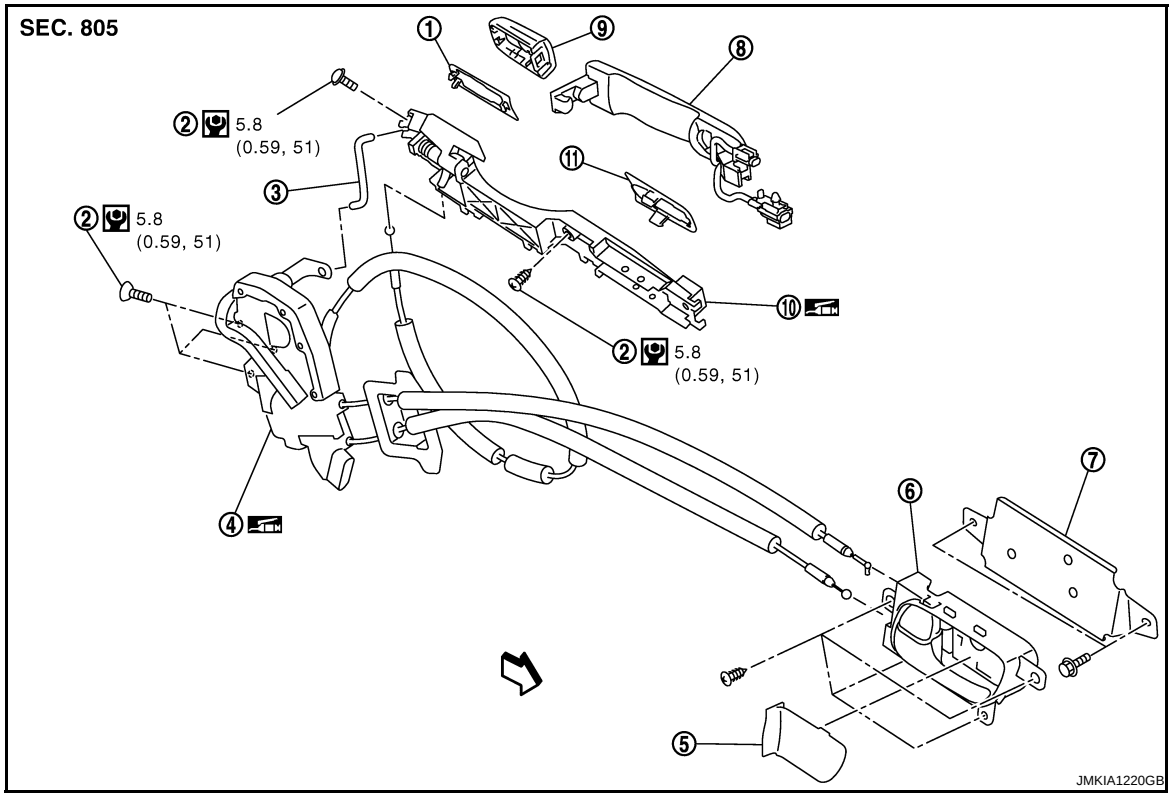
1. Align the weather-strip seam (upper) with mark of the body panel and weather-strip onto the vehicle.
2. Align the weather-strip seem (lower) with center of the striker and weather-strip onto the vehicle.
3. After installation, pull the weather-strip gently to ensure that there is no loose section.
   NOTE:
   Check that the weather-strip fits tightly at each corner and trunk rear plate.

DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:0000000001722617



1. Rear gasket
2. TORX bolt
3. Key cylinder rod (Driver side only)
4. Door lock assembly
5. Inside handle cap
6. Inside handle
7. Inside handle bracket
8. Outside handle
9. Door key cylinder assembly (Driver side)
   Outside handle escutcheon (Passenger side)
10. Outside handle bracket
11. Front gasket

Refer to GI-4, "Components" for symbols in the figure.

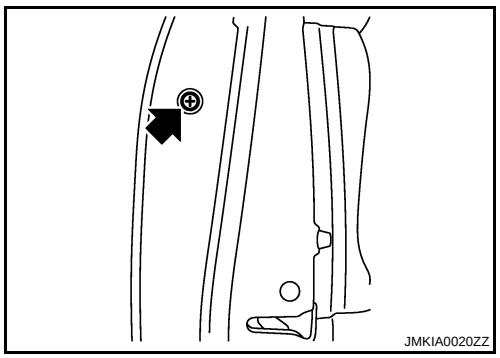
DOOR LOCK : Removal and Installation

INFOID:0000000001722618

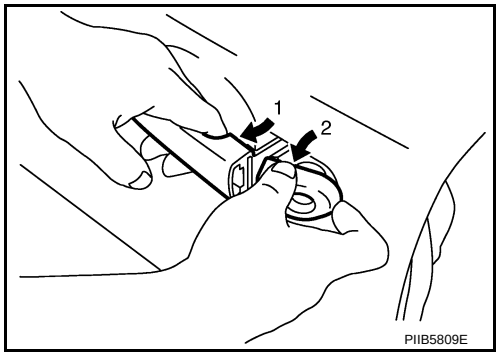
REMOVAL

1. Remove the door finisher. Refer to INT-11, "Removal and Installation".
2. Remove the door glass and door module assembly.
   - Door glass: Refer to GW-16, "Removal and Installation".
   - Door module: Refer to GW-19, "Removal and Installation".
3. Remove the door side grommet, and loosen the door key cylinder assembly (driver side) and outside handle escutcheon (passenger side) TORX bolt from grommet hole.
   CAUTION:

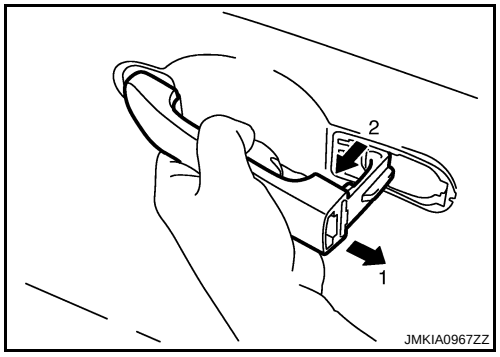
Do not forcibly remove the TORX bolt.



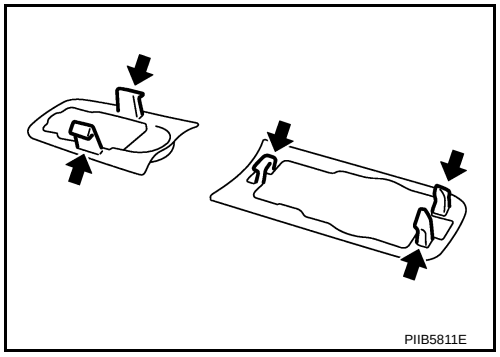
4. Disconnect the door antenna and door request switch connector and remove the harness clamp.
5. Reach in to separate the key cylinder rod connection (on the handle).
6. While pulling the outside handle, remove the door key cylinder assembly.



7. Slide toward rear of vehicle, and pull forward to remove the outside handle.

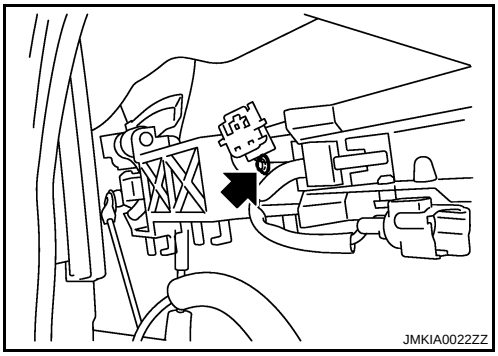


8. Remove the front gasket and rear gasket.

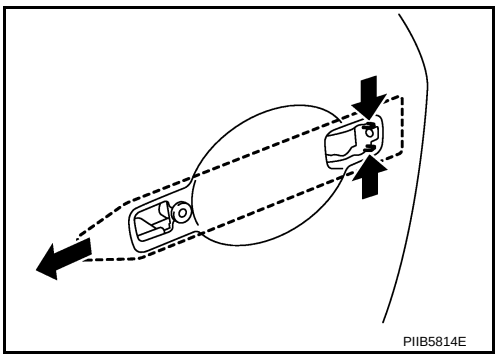


9. Remove the TORX bolts, and remove the door lock assembly.

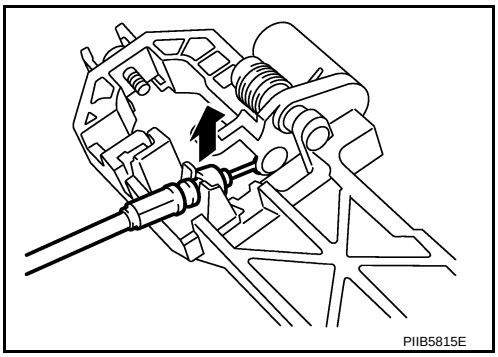
10. Remove the TORX bolt of the outside handle bracket.



11. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



12. Disconnect the door lock actuator connector and remove the door lock assembly.
13. Reach in to separate the outside handle cable connection.



INSTALLATION

Install in the reverse order of removal.

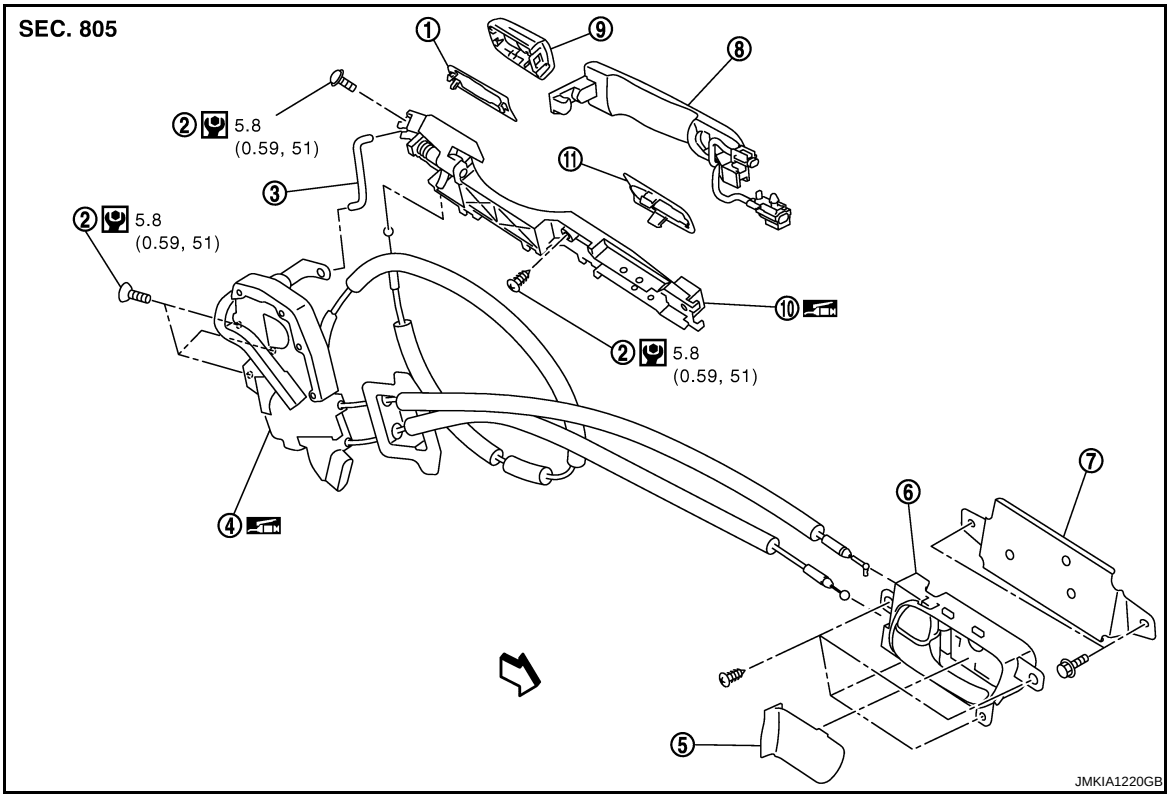
CAUTION:

To install each rod, rotate the rod holder until a click is felt.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:0000000001736723



1. Rear gasket
2. TORX bolt
3. Key cylinder rod (Driver side only)
4. Door lock assembly
5. Inside handle cap
6. Inside handle
7. Inside handle bracket
8. Outside handle
9. Door key cylinder assembly (Driver side)
   Outside handle escutcheon (Passenger side)
10. Outside handle bracket
11. Front gasket

Refer to GI-4, "Components" for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:0000000001722622

REMOVAL

1. Remove the door finisher. Refer to INT-11, "Removal and Installation".
2. Remove the inside handle mounting bolts.
3. Disconnect the inside handle cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

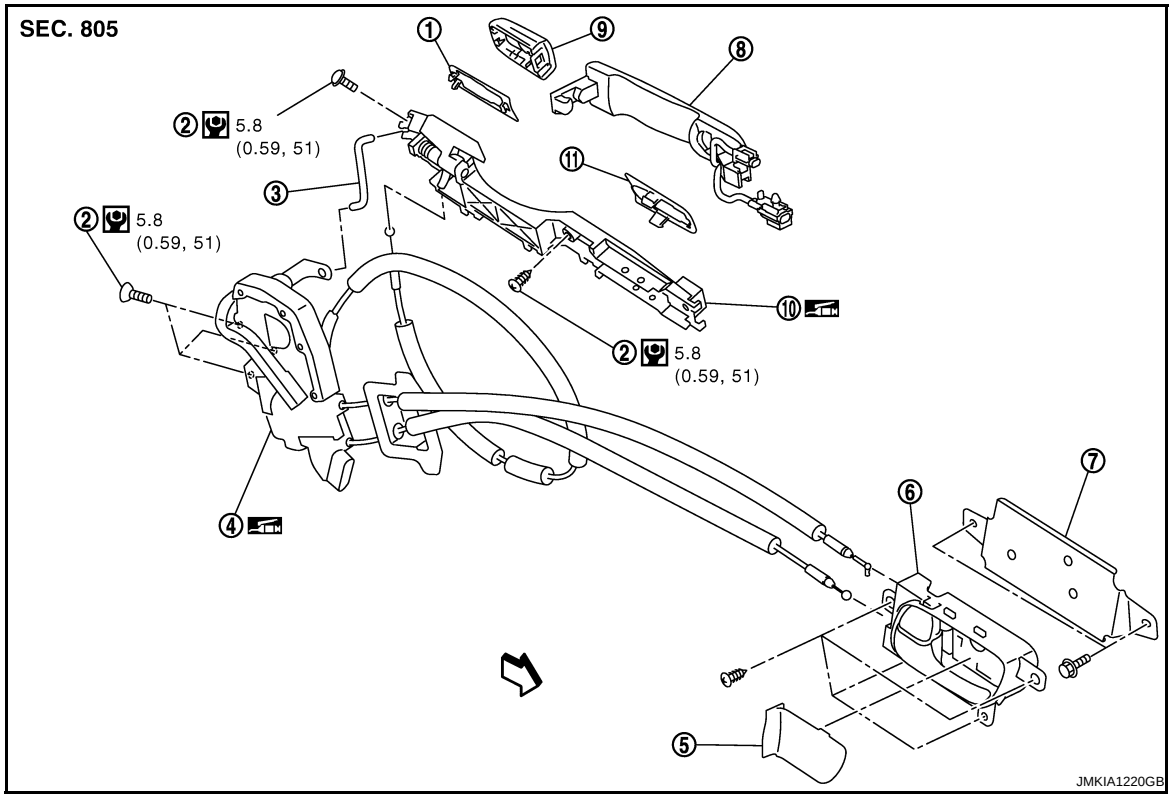
CAUTION:

- **Check the door lock/unlock operation after installation.**
- **Check the door open/close operation after installation.**

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:0000000001736724



1. Rear gasket
2. TORX bolt
3. Key cylinder rod (Driver side only)
4. Door lock assembly
5. Inside handle cap
6. Inside handle
7. Inside handle bracket
8. Outside handle
9. Door key cylinder assembly (Driver side)
   Outside handle escutcheon (Passenger side)
10. Outside handle bracket
11. Front gasket

Refer to GI-4, "Components" for symbols in the figure.

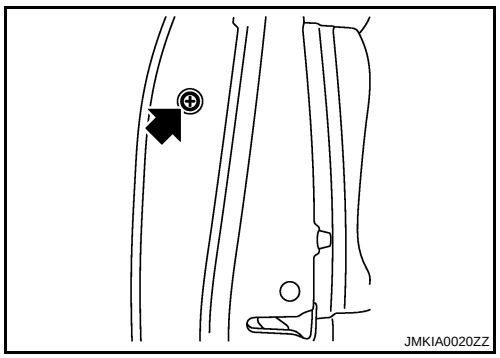
OUTSIDE HANDLE : Removal and Installation

INFOID:0000000001722624

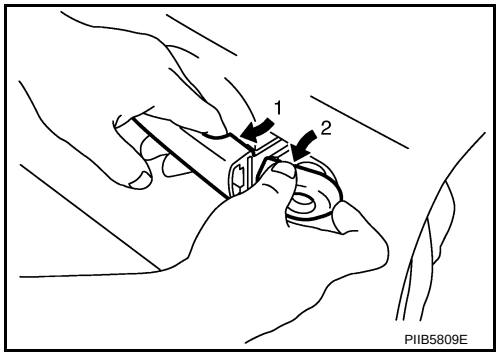
REMOVAL

1. Remove the door finisher. Refer to INT-11, "Removal and Installation".
2. Remove the door glass and door module assembly.
   - Door glass: Refer to GW-16, "Removal and Installation".
   - Door module: Refer to GW-19, "Removal and Installation".
3. Remove the door side grommet, and loosen door key cylinder assembly (driver side) and outside handle escutcheon (passenger side) TORX bolt from grommet hole.
   CAUTION:

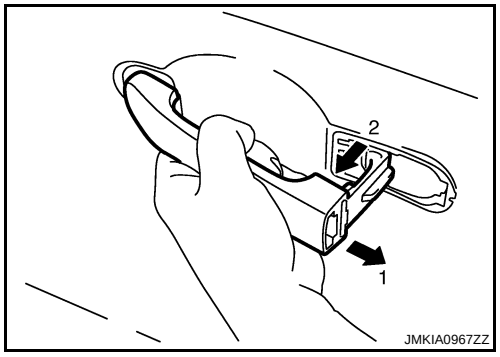
Do not forcibly remove the TORX bolt.



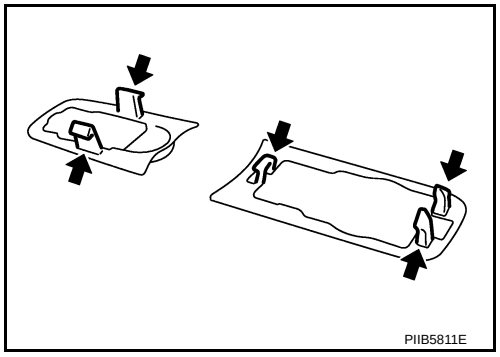
4. Disconnect the door antenna and door request switch connector and remove the harness clamp.
5. Reach in to separate the key cylinder rod connection (on the handle).
6. While pulling the outside handle, remove the door key cylinder assembly.



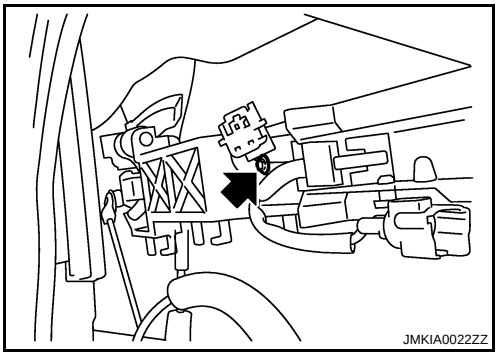
7. Slide toward rear of vehicle, and pull forward to remove the outside handle.



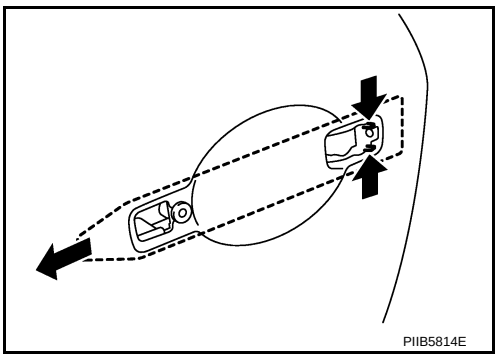
8. Remove the front gasket and rear gasket.



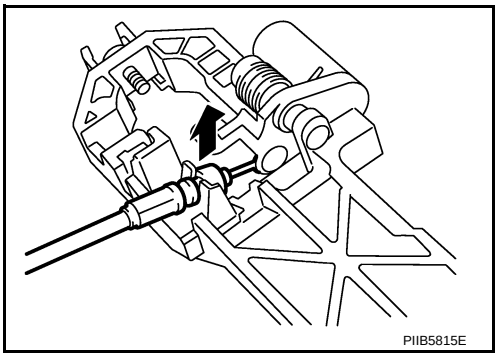
9. Remove the TORX bolt of the outside handle bracket.



10. While pulling the outside handle bracket, slide toward rear of vehicle to remove the outside handle bracket.



11. Reach in to separate the outside handle cable connection.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

To install each rod, rotate the rod holder until a click is felt.

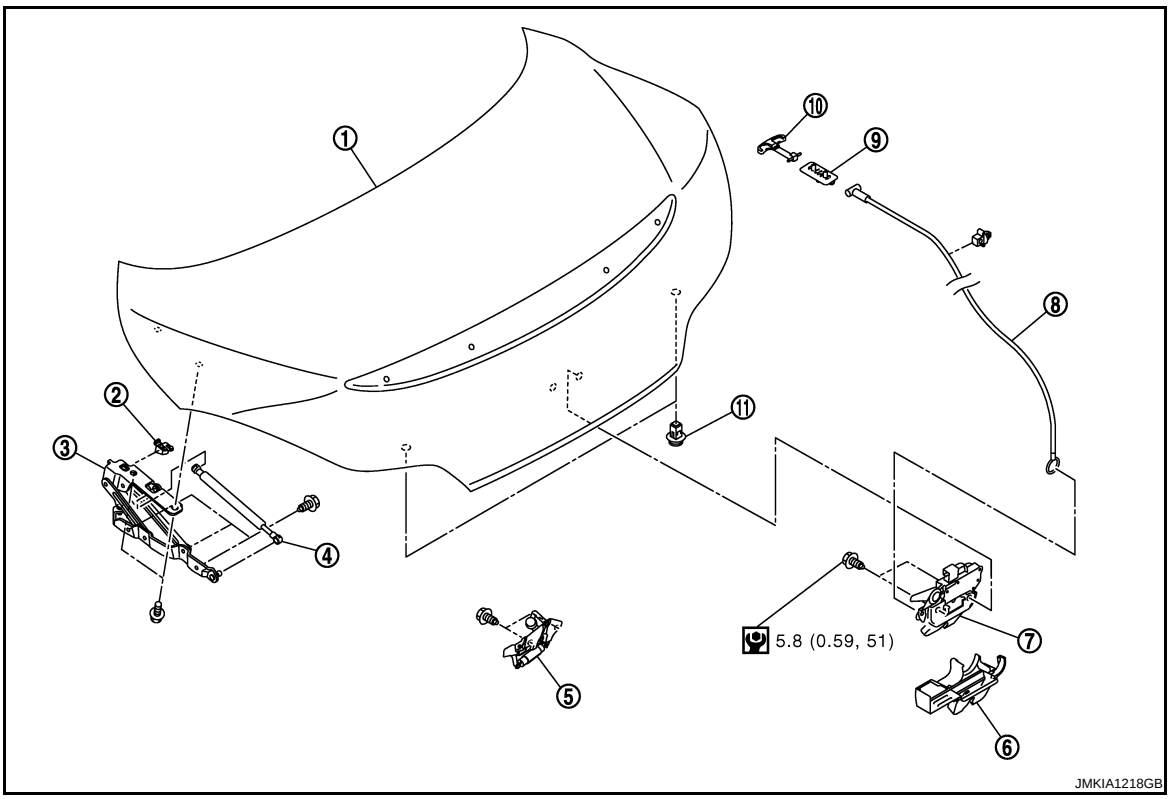
TRUNK LID LOCK

TRUNK LID LOCK

TRUNK LID LOCK : Exploded View

INFOID:0000000001831350

REMOVAL



1. Trunk lid assembly
2. Trunk lid hinge stopper
3. Trunk lid hinge
4. Trunk lid stay
5. Trunk lid striker
6. Trunk lid lock cover
7. Trunk lid lock assembly
8. Trunk lid opener cable
9. Trunk lid emergency opener lever holder
10. Trunk lid emergency opener lever
11. Bumper rubber

Refer to GI-4, "Components" for the symbols in the figure.

TRUNK LID LOCK : Removal and Installation

INFOID:0000000001722634

REMOVAL

1. Remove the trunk lid finisher inner. Refer to INT-29, "Removal and Installation".
2. Remove the trunk lid emergency opener lever.
3. Disconnect the trunk lid opener cable.
4. Disconnect the connector from trunk lid lock assembly.
5. Remove the mounting bolts, and remove the trunk lid lock assembly.

INSTALLATION

Install in the reverse order of removal.

NOTE:

- After installing, perform trunk lid fitting adjustment. Refer to DLK-225, "TRUNK LID ASSEMBLY : Adjustment".
- After installing, check the operation.

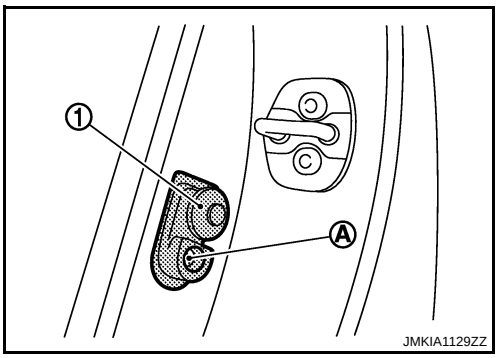
DOOR SWITCH

Removal and Installation

INFOID:0000000001683211

REMOVAL

1. Remove the door switch mounting bolt (A), and then remove door switch (1).



INSTALLATION

Install in the reverse order of removal.

INSIDE KEY ANTENNA

INSTRUMENT CENTER

INSTRUMENT CENTER : Exploded View

INFOID:0000000001683212

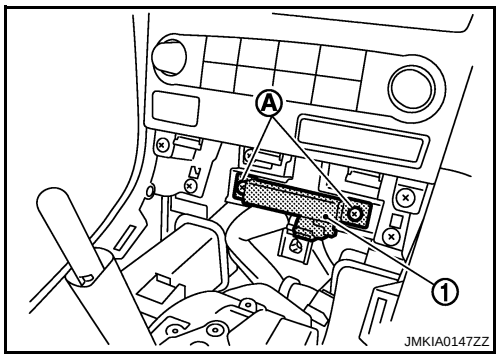
Refer to IP-11, "Exploded View".

INSTRUMENT CENTER : Removal and Installation

INFOID:0000000001683213

REMOVAL

1. Remove the console finisher. Refer to IP-12, "Removal and Installation".
2. Remove the key slot mounting screw (A), and then remove inside key antenna (instrument center) (1).



INSTALLATION

Install in the reverse order of removal.

CONSOLE

CONSOLE : Exploded View

INFOID:0000000001683214

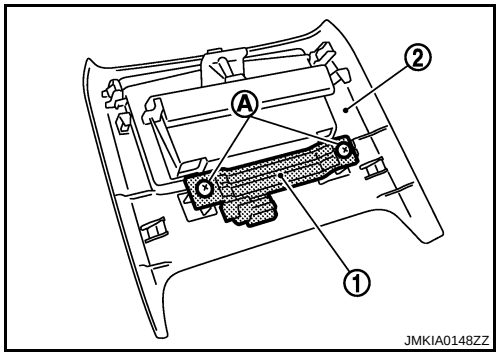
Refer to IP-23, "Exploded View".

CONSOLE : Removal and Installation

INFOID:0000000001683215

REMOVAL

1. Remove the console ashtray.
2. Remove the console rear finisher (2). Refer to IP-24, "Removal and Installation".
3. Remove the inside key antenna mounting screw (A), and then remove inside key antenna (console) (1) from console rear finisher (2).



INSTALLATION

Install in the reverse order of removal.

TRUNK ROOM

TRUNK ROOM : Exploded View

INFOID:0000000001683216

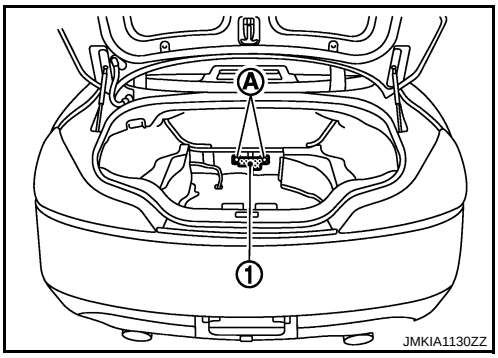
Refer to INT-27, "Exploded View".

TRUNK ROOM : Removal and Installation

INFOID:0000000001683217

REMOVAL

1. Remove trunk floor carpet and trunk front finisher. Refer to INT-27, "Removal and Installation".
2. Remove the inside key antenna (trunk room) mounting clips (A), and then remove inside key antenna (trunk room) (1).



INSTALLATION

Install in the reverse order of removal.

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:0000000001683218

Refer to DLK-230, "DOOR LOCK : Exploded View".

DRIVER SIDE : Removal and Installation

INFOID:0000000001683219

REMOVAL

Remove the front outside handle LH. Refer to DLK-230, "DOOR LOCK : Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:0000000001683220

Refer to DLK-230, "DOOR LOCK : Exploded View".

PASSENGER SIDE : Removal and Installation

INFOID:0000000001683221

REMOVAL

Remove the front outside handle RH. Refer to DLK-230, "DOOR LOCK : Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

REAR BUMPER

REAR BUMPER : Exploded View

INFOID:0000000001683222

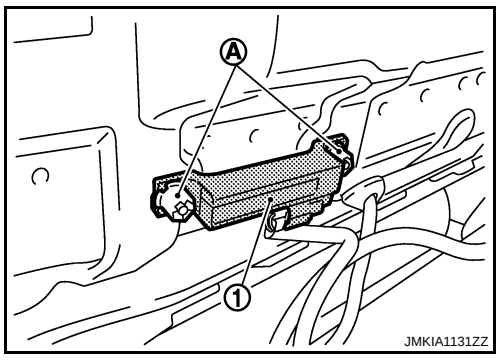
Refer to EXT-16, "Exploded View".

REAR BUMPER : Removal and Installation

INFOID:0000000001683223

REMOVAL

1. Remove the rear bumper. Refer to EXT-17, "Removal and Installation".
2. Remove the outside key antenna (rear bumper) mounting nuts (A), and then remove outside key antenna (rear bumper) (1).



INSTALLATION

Install in the reverse order of removal.

INTELLIGENT KEY WARNING BUZZER

Exploded View

INFOID:0000000001683224

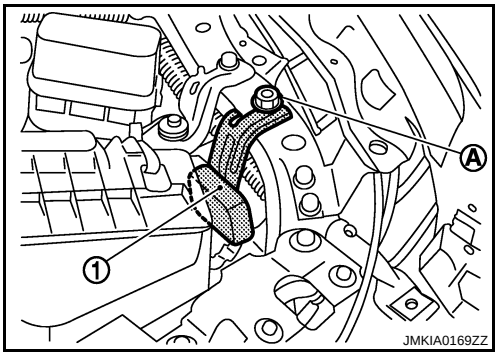
Refer to DLK-217, "Exploded View".

Removal and Installation

INFOID:0000000001683225

REMOVAL

1. Remove the hood seal assembly (side). Refer to DLK-217, "Removal and Installation".
2. Remove the Intelligent Key warning buzzer mounting bolt (A), and then remove the Intelligent Key warning buzzer (1).



INSTALLATION

Install in the reverse order of removal.

KEY SLOT

Exploded View

INFOID:0000000001683226

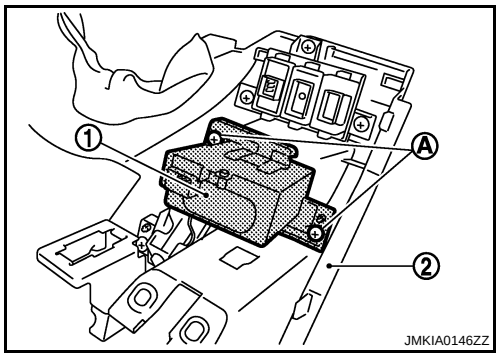
Refer to IP-11, "Exploded View".

Removal and Installation

INFOID:0000000001683227

REMOVAL

1. Remove the instrument driver lower panel (2). Refer to IP-12, "Removal and Installation".
2. Disconnect key slot connector.
3. Remove the key slot mounting screw (A), and then remove key slot (1) from instrument driver lower panel (2).



INSTALLATION

Install in the reverse order of removal.

TRUNK LID OPENER REQUEST SWITCH

Exploded View

INFOID:0000000001683228

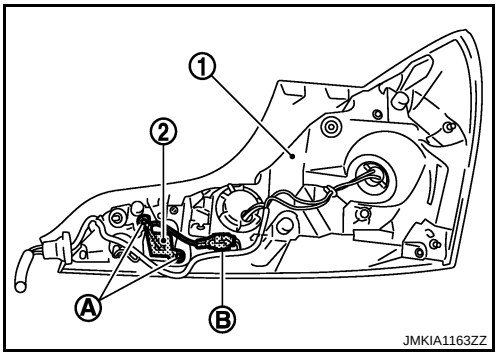
Refer to EXL-200, "Exploded View".

Removal and Installation

INFOID:0000000001683229

REMOVAL

1. Remove the rear combination lamp LH (1). Refer to EXL-200, "Removal and Installation".
2. Remove the trunk lid opener request switch connector (B).



3. Remove the trunk lid opener request switch mounting screw (A), and then remove trunk lid opener request switch (2) from rear combination lamp LH (1).

INSTALLATION

Install in the reverse order of removal.

TRUNK LID OPENER SWITCH

Exploded View

INFOID:0000000001683230

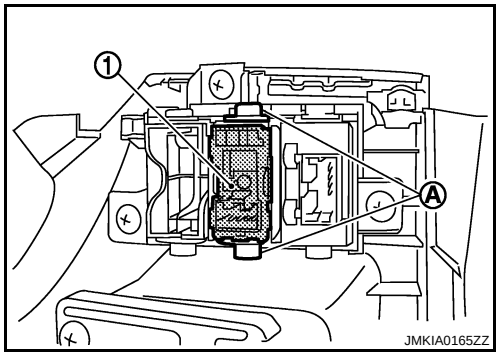
Refer to IP-11, "Exploded View".

Removal and Installation

INFOID:0000000001683231

REMOVAL

1. Remove the instrument driver lower panel. Refer to IP-12, "Removal and Installation".
2. Remove the trunk lid opener switch (1) from instrument driver lower panel, and then remove pawl (A). Press trunk lid opener switch (1) front side to disengage from instrument driver lower panel.



INSTALLATION

Install in the reverse order of removal.

TRUNK LID OPENER CANCEL SWITCH

Exploded View

INFOID:0000000001683232

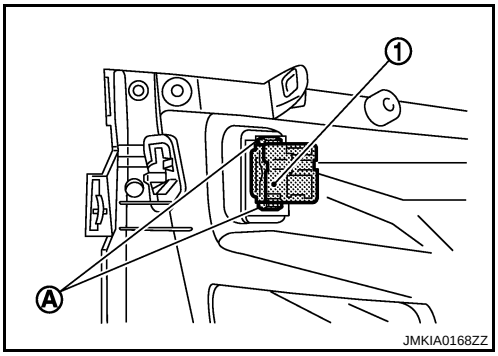
Refer to IP-11, "Exploded View".

Removal and Installation

INFOID:0000000001683233

REMOVAL

1. Remove the instrument assist lower panel. Refer to IP-12, "Removal and Installation".
2. Remove the trunk lid opener cancel switch (1) from instrument assist lower panel, and then remove pawl (A). Press trunk lid opener cancel switch (1) back side to disengage from instrument assist lower panel.



INSTALLATION

Install in the reverse order of removal.

REMOTE KEYLESS ENTRY RECEIVER

Exploded View

INFOID:0000000001683234

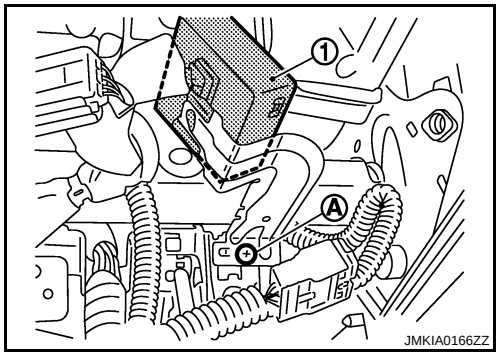
Refer to IP-11, "Exploded View".

Removal and Installation

INFOID:0000000001683235

REMOVAL

1. Remove the instrument assist lower panel. Refer to IP-12, "Removal and Installation".
2. Remove the remote keyless entry receiver mounting bolt (A), and then remove remote keyless entry receiver (1).



INSTALLATION

Install in the reverse order of removal.