SECTION DLK
DOOR & LOCK

CONTENTS

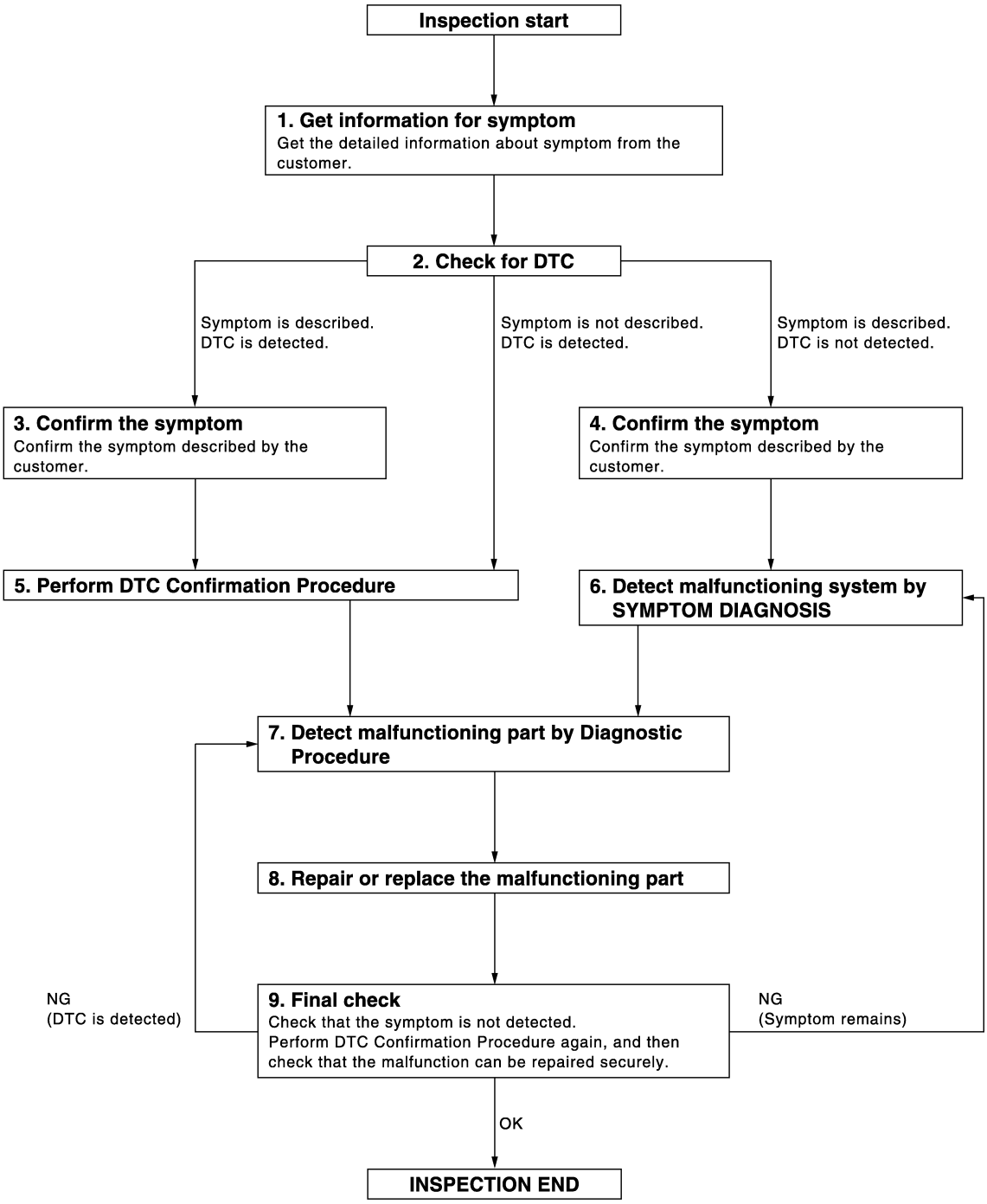
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:0000000004678597

OVERALL SEQUENCE



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DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK FOR DTC

1. Check BCM for 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.

Are any symptoms described or any DTC detected?

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

3.CONFIRM THE SYMPTOM

Confirm the symptom described by the customer.
Connect CONSULT-III to the vehicle in the “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 the “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" (BCM) 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-39, "Intermittent Incident".

6.DETECT MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS

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

>> GO TO 7.

7.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

NOTE:
The Diagnostic Procedure described is 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 for DTC. If DTC is displayed, erase it.

>> GO TO 9.

9. FINAL CHECK

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

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:0000000004393628

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:0000000004393629

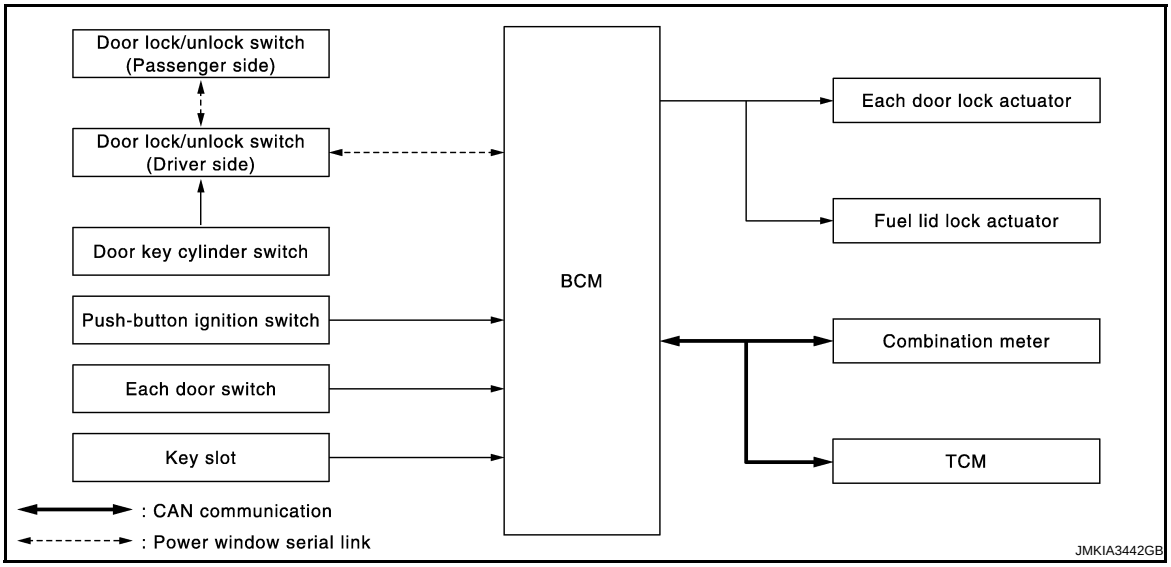
Refer to CONSULT-III operation manual for the NATS-IVIS/NVIS.

SYSTEM DESCRIPTION

POWER DOOR LOCK SYSTEM

System Diagram

INFOID:0000000004393630



System Description

INFOID:0000000004393631

DOOR LOCK FUNCTION

Door Lock and Unlock Switch

- The door lock and unlock switch (driver side) is build into power window main switch.
- The door lock and unlock switch (passenger side) is build into power window sub-switch.
- 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.

Door Key Cylinder Switch

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

Selective unlock operation mode can be changed using “DOOR LOCK-UNLOCK SET” mode in “WORK SUPPORT”. Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

KEY REMINDER FUNCTION

When door lock and unlock switch are operated while Intelligent Key is inserted into key slot and any door is open, door locks once but immediately unlocks. This operation prevents Intelligent Key from being left in the vehicle.

DOOR KEY CYLINDER SWITCH POWER WINDOW FUNCTION

Driver side key cylinder LOCK/UNLOCK operation can activate driver side and passenger side power window UP/DOWN operation. Refer to PWC-7, "System Description".

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (LOCK OPERATION)

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

Vehicle Speed Sensing Auto Door Lock*1

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

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

P Range Interlock Door Lock*2

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

Setting change of Automatic Door Lock/Unlock Function

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

NOTE:

P range interlock door lock can be selected for M/T models, but automatic door lock/unlock function does not operate.

With CONSULT-III

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

Without CONSULT- III

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

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

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

*1: This function is set to ON before delivery.

*2: This function does not operate on M/T models.

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (UNLOCK OPERATION)

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

IGN OFF Interlock Door Unlock*1

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

P Range Interlock Door Unlock*2

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

Setting change of Automatic Door Lock/Unlock Function

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

NOTE:

P range interlock door lock can be selected for M/T models, but automatic door lock/unlock function does not operate.

With CONSULT- III

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

Without CONSULT- III

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

1. Close all doors below (door switch OFF)
2. Turn ignition switch ON

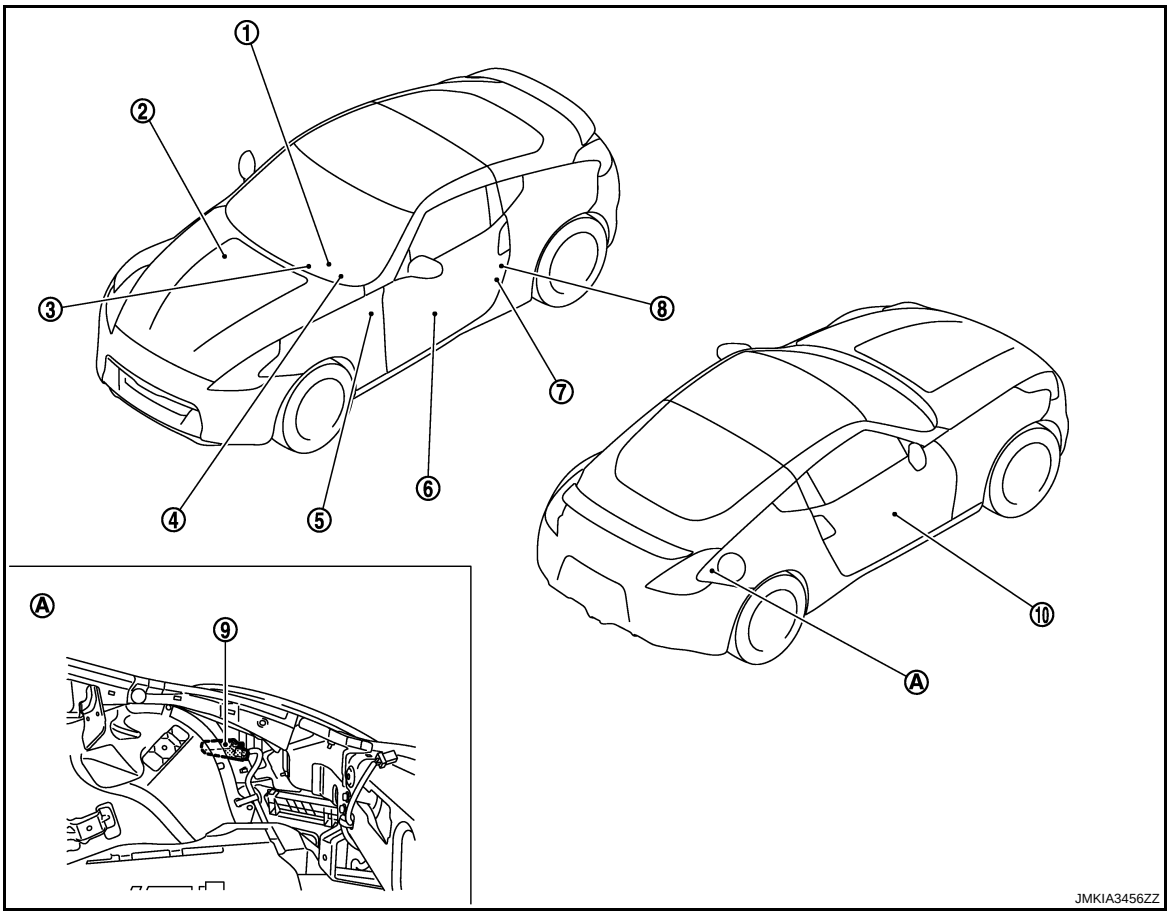
3. Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the ignition switch ON.
4. The switching is complete when the hazard lamp blinks.

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

*1: This function is set to ON before delivery.
*2: This function does not operate on M/T models.

Component Parts Location

INFOID:0000000004393632



1. A/T assembly connector* F51 (TCM) Refer to TM-146, "Component Parts Location"	2. BCM M118, M119, M121, M122, M123 Refer to BCS-8, "Component Parts Location"	3. Push-button ignition switch M50
4. Combination meter M53	5. Key slot M22	6. Power window main switch D8 (door lock and unlock switch)
7. Driver side door switch B16	8. Driver side door lock assembly D15	9. Fuel lid lock actuator B242
10. Power window sub-switch D38 (door lock and unlock switch)		
A. View with luggage side finisher lower (RH) removed		

*: With A/T models

Component Description

INFOID:0000000004393633

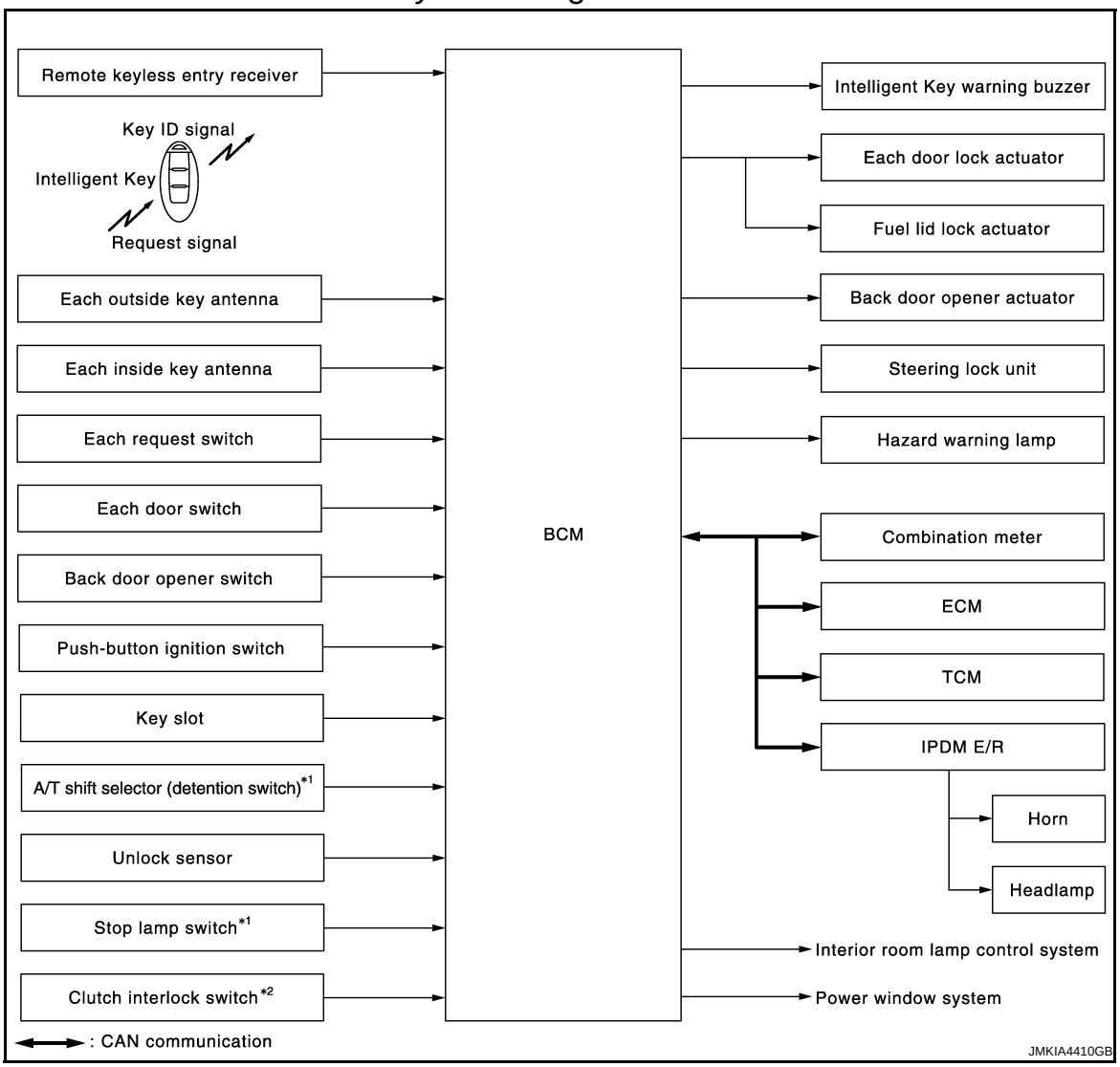
Item	Function
BCM	Controls the door lock function.
Door lock and unlock switch	Inputs lock or unlock signal to BCM.
Door lock actuator	Outputs lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Inputs door open/close condition to BCM.
Door key cylinder switch	Built-in driver side door lock assembly. • Inputs lock or unlock signal to power window main switch. • Power window main switch transmits door lock/unlock signal to BCM.
Key slot	Inputs key insert/remove signal to BCM.
Combination meter	Transmits vehicle speed signal to BCM via CAN communication line.
TCM*	Transmits shift position signal to BCM via CAN communication line.
Fuel lid lock actuator	Performs lock/unlock of the fuel lid.
Push-button ignition switch	Input push-button ignition switch ON/OFF condition to BCM.

*: With A/T models

INTELLIGENT KEY SYSTEM
INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Diagram

INFOID:0000000004393634



*1: With A/T models
*2: With M/T models

INTELLIGENT KEY SYSTEM : System Description

INFOID:0000000004393635

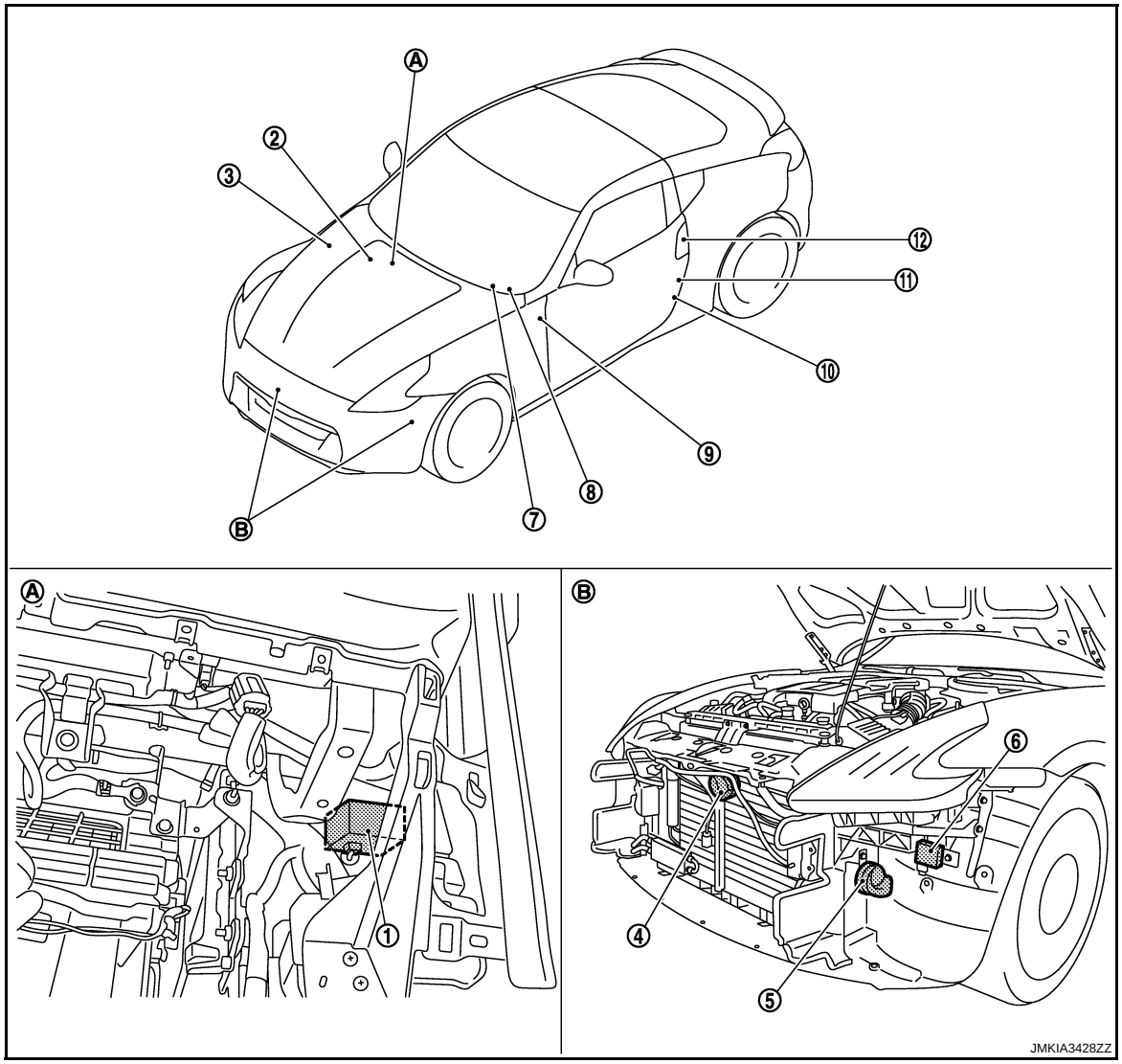
- The Intelligent Key system is a system that makes it possible to lock and unlock the door locks (door lock/unlock function) by carrying the Intelligent Key, which operates based on the results of electronic ID verification using two-way communication between the Intelligent Key and the vehicle (BCM).
  CAUTION:
  The driver should always carry the Intelligent Key
- The settings for each function can be changed with CONSULT-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 CONSULT-III.

Function	Description	Refer
Door lock function	Lock/unlock can be performed by pressing the request switch.	DLK-19
Remote keyless entry function	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.	DLK-28

Function	Description	Refer
Back door open function	The back door can be opened by carrying the Intelligent Key and pressing the back door opener switch.	DLK-24
Key reminder function	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.	DLK-32
Warning function	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer goes off to inform the driver.	DLK-36
Engine start function	The engine can be turned on while carrying the Intelligent Key.	SEC-9

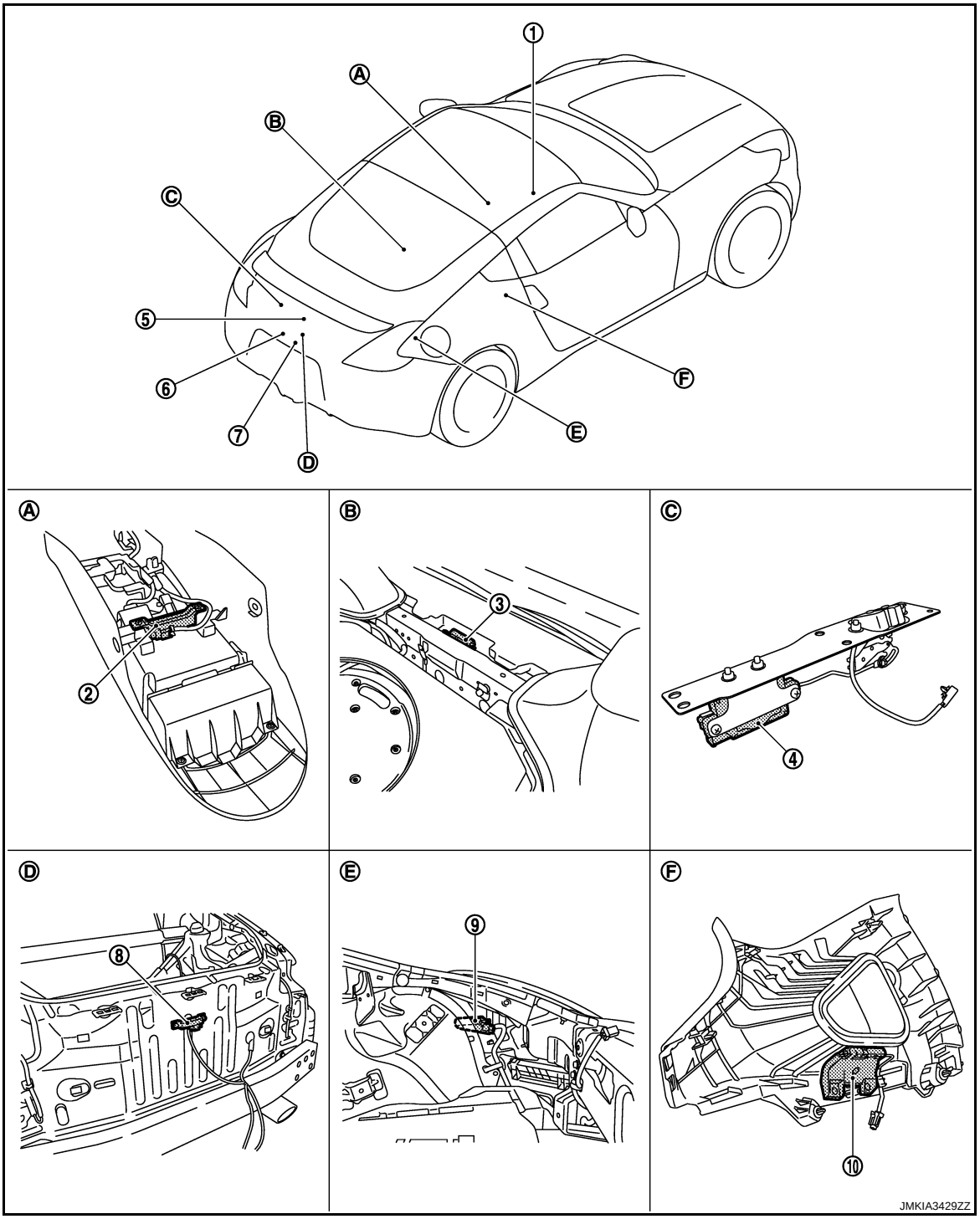
INTELLIGENT KEY SYSTEM : Component Parts Location

INFOID:0000000004393636



1. Remote keyless entry receiver M104
2. BCM M118, M119, M120, M121, M122, M123 Refer to BCS-8, "Component Parts Location"
3. IPDM E/R E5, E6 Refer to PCS-5, "Component Parts Location"
4. Horn (low) E69, E70
5. Horn (high) E61, E62
6. Intelligent Key warning buzzer E57
7. Push-button ignition switch (push switch) M50
8. Combination meter M53
9. Key slot M22
10. Driver side door switch B16
11. Driver side door lock assembly D15
12. Driver side door request switch D13

A. Dash side lower (passenger side)
B. View with front bumper removed



1. A/T shift selector* (detention switch) M137 Refer to SEC-12, "Component Parts Location"
2. Inside key antenna (console) M257
3. Inside key antenna (luggage room) B222
4. Back door opener actuator B77
5. Back door switch B66
6. Back door opener switch assembly B154 (back door request switch)
7. Back door opener switch assembly B154 (back door opener switch)
8. Outside key antenna (rear bumper) B54
9. Fuel lid lock actuator B242
10. Outside key antenna RH B209

A. View with center console assembly removed
B. View with luggage floor finisher front removed
C. View with luggage rear plate removed
D. View with rear bumper removed
E. View with luggage side finisher lower RH removed
F. View with rear pillar finisher RH removed

*: With A/T models

INTELLIGENT KEY SYSTEM : Component Description

INFOID:0000000004393637

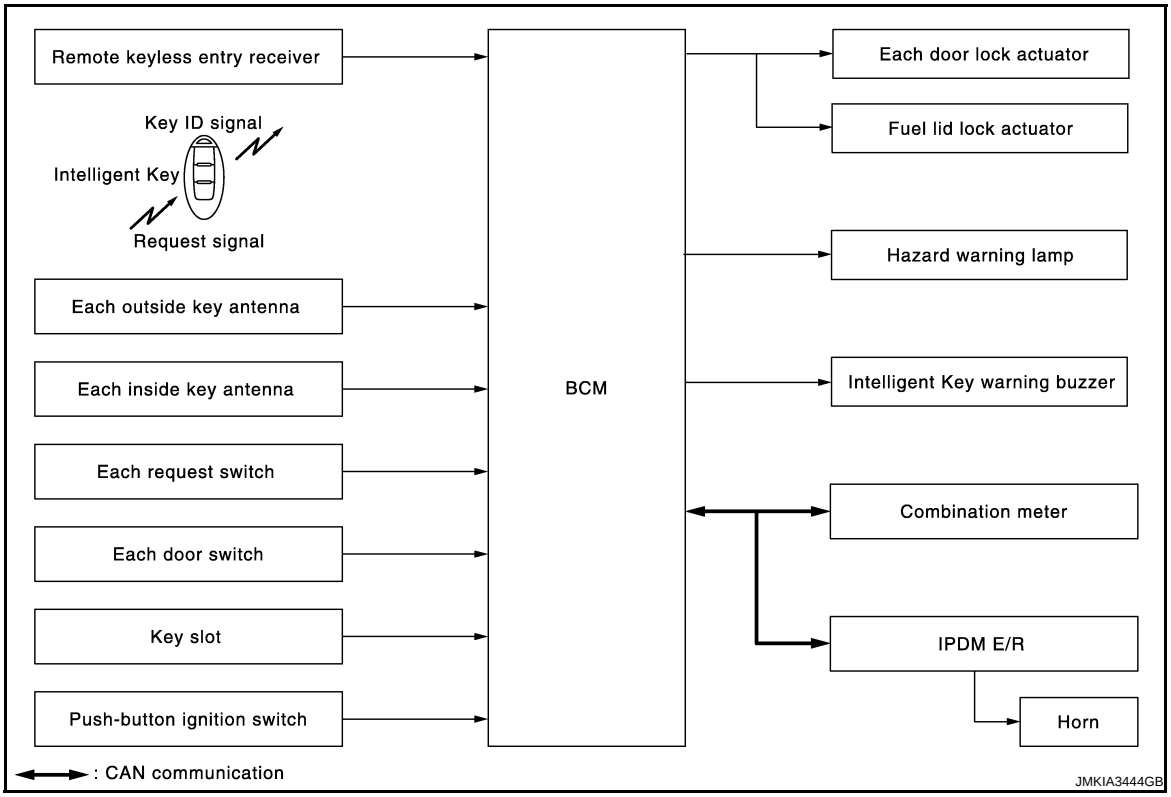
Item	Function
BCM	Controls the Intelligent Key system.
IPDM E/R	Sounds horn and blinks headlamp via CAN communication between BCM.
Door lock actuator	Outputs lock/unlock signal from BCM and locks/unlocks each door.
Fuel lid lock actuator	Performs lock/unlock of the fuel lid.
Door switch	Inputs door open/close condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Request switch	Inputs lock/unlock operation to BCM.
Key slot	Inputs key insert/remove signal 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.
Unlock sensor	Detects door lock condition of driver door.
A/T shift selector (detention switch)*	Detects the P range position of A/T selector lever.
Combination meter	• Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter. • Transmits vehicle speed signal to BCM via CAN communication line.
Back door opener switch	Inputs back door opener switch operation signal to BCM.
Back door opener actuator	Opens the back door with the back door open signal from BCM.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.
Hazard warning lamp	Warms the user of the each door open/close condition and inappropriate operations with the lamps blink.
TCM*	Transmits shift position signal to BCM via CAN communication line.
Push-button ignition switch	Input push-button ignition switch ON/OFF condition to BCM.

*: With A/T models

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Diagram

INFOID:0000000004393638



DOOR LOCK FUNCTION : System Description

INFOID:0000000004393639

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

OPERATION DESCRIPTION

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

OPERATION CONDITION

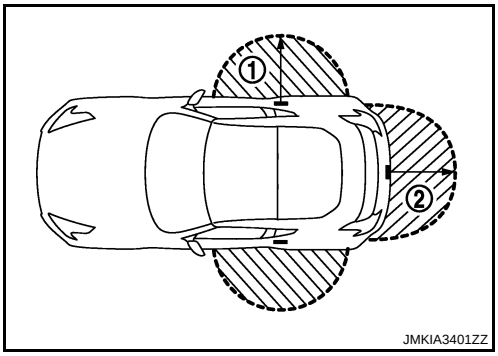
If the following conditions are satisfied, door lock/unlock operation is performed if the request switch is operated.

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

*: Even with a registered Intelligent Key remaining inside the vehicle, door locks can be 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 rear pillar LH/RH (1) and the back door request switch (2). However, this operating range depends on the ambient conditions.



SELECTIVE UNLOCK FUNCTION

Lock Operation

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

Unlock Operation

- When an UNLOCK signal from driver side door request switch is transmitted, driver side door and fuel lid unlocks. When another UNLOCK signal is transmitted within 60 seconds, passenger side door unlocks.
- When an UNLOCK signal from passenger side door request switch is transmitted, passenger side door unlocks. When another UNLOCK signal is transmitted within 60 seconds, driver side door and fuel lid unlocks.
- When an UNLOCK signal from back door request switch is transmitted, back door open permission is set. When another UNLOCK signal is transmitted within 60 seconds, all doors (except back door) and fuel lid unlock.

Selective unlock operation mode can be changed using “DOOR LOCK-UNLOCK SET” mode in “WORK SUPPORT”. Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

HAZARD AND BUZZER REMINDER FUNCTION

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

When doors are locked, unlocked by each request switch, BCM honks Intelligent Key warning buzzer as a reminder and blinks.

Operating Function of Hazard and Buzzer Reminder

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

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

- Ignition switch position is ON.
- Door is open.

How to Change Hazard and Buzzer Reminder Mode

Refer to DLK-49, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

AUTO DOOR LOCK FUNCTION

When all doors are locked, ignition switch is in the 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 and fuel lid are locked.

- Door switch is ON (door is open)
- 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 the “AUTO LOCK SET” mode in “WORK SUPPORT”. Refer to DLK-49, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

INTERIOR ROOM LAMP CONTROL

Intelligent Key system turns on interior lamp by receiving UNLOCK signal from door request switch. For detailed description. Refer to INL-5, "System Description".

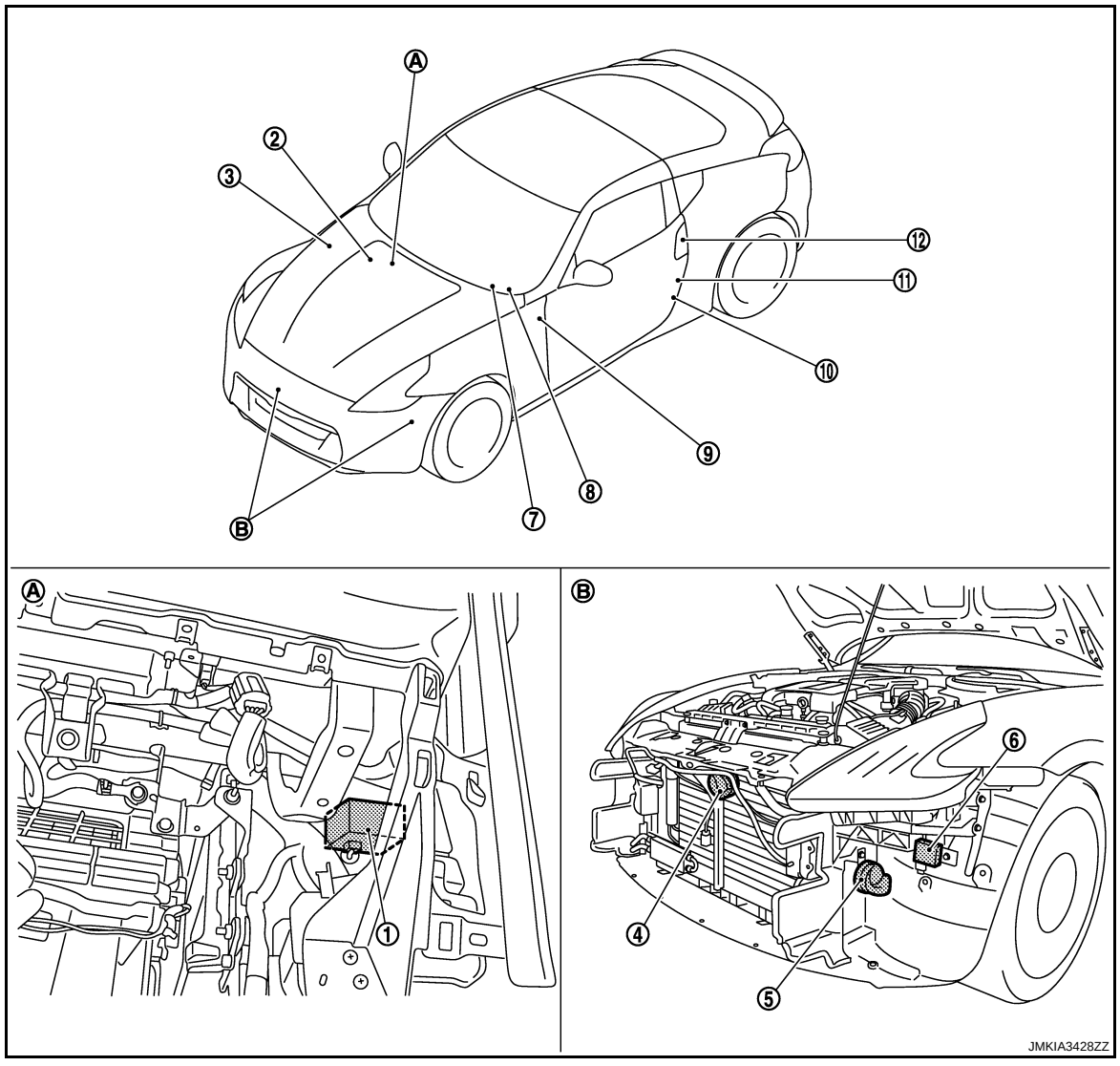
LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

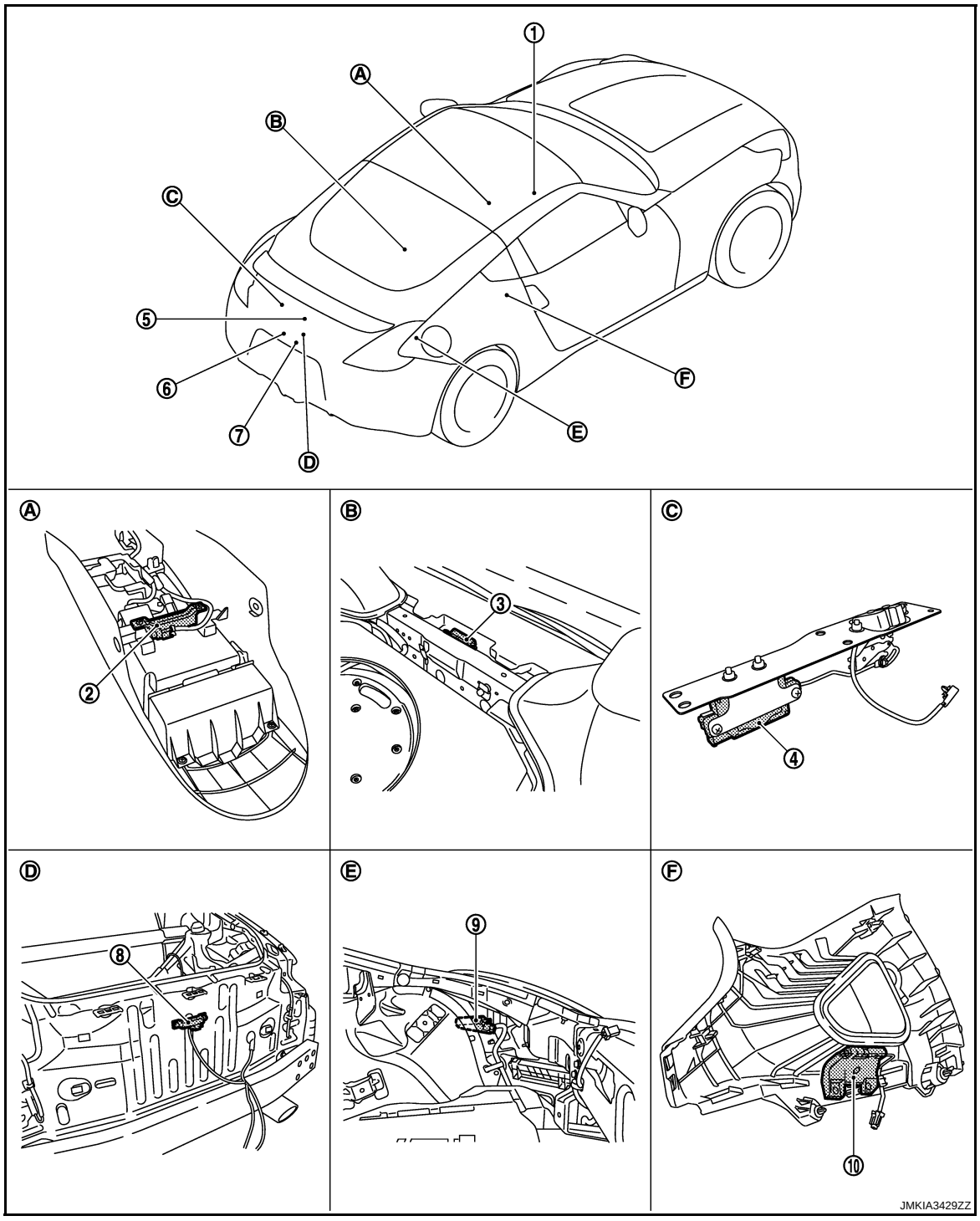
Door lock function	Intelligent Key	Key slot	Remote keyless entry receiver	Door switch	Door request switch	Door lock actuator and fuel lid lock actuator	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamp	Push-button ignition switch	Combination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

DOOR LOCK FUNCTION : Component Parts Location

INFOID:0000000004393640



1. Remote keyless entry receiver M104
2. BCM M118, M119, M120, M121, M122, M123 Refer to BCS-8, "Component Parts Location"
3. IPDM E/R E5, E6 Refer to PCS-5, "Component Parts Location"
4. Horn (low) E69, E70
5. Horn (high) E61, E62
6. Intelligent Key warning buzzer E57
7. Push-button ignition switch (push switch) M50
8. Combination meter M53
9. Key slot M22
10. Driver side door switch B16
11. Driver side door lock assembly D15
12. Driver side door request switch D13
A. Dash side lower (passenger side)
B. View with front bumper removed



1. A/T shift selector* (detention switch) M137 Refer to SEC-12, "Component Parts Location"	2. Inside key antenna (console) M257	3. Inside key antenna (luggage room) B222
4. Back door opener actuator B77	5. Back door switch B66	6. Back door opener switch assembly B154 (back door request switch)
7. Back door opener switch assembly B154 (back door opener switch)	8. Outside key antenna (rear bumper) B54	9. Fuel lid lock actuator B242
10. Outside key antenna RH B209		
A. View with center console assembly removed	B. View with luggage floor finisher front removed	C. View with luggage rear plate removed
D. View with rear bumper removed	E. View with luggage side finisher lower RH removed	F. View with rear pillar finisher RH removed

*: With A/T models

DOOR LOCK FUNCTION : Component Description

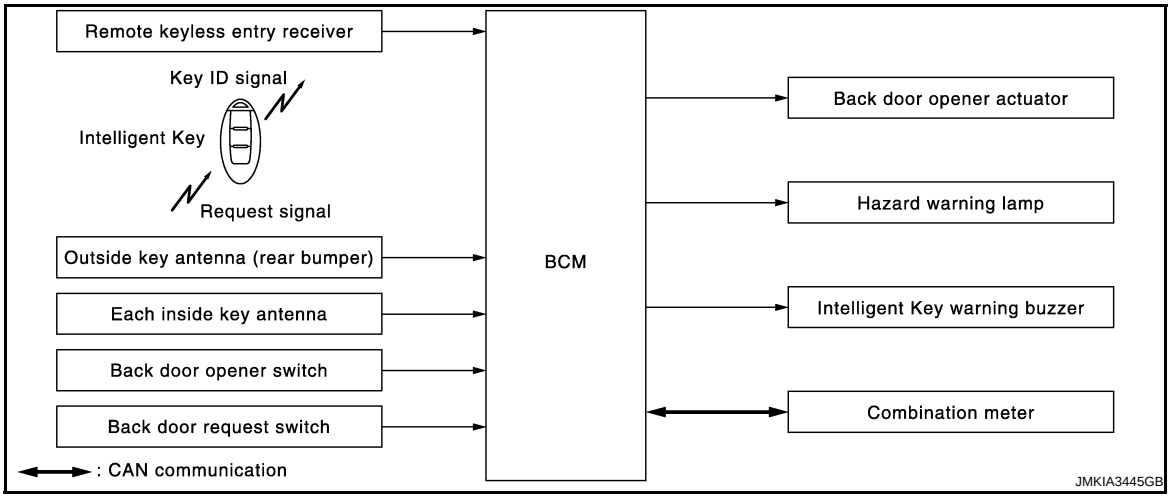
INFOID:0000000004393641

Item	Function
BCM	Controls the door lock function.
IPDM E/R	Sounds horn and blinks headlamp via CAN communication with BCM.
Door lock actuator	Outputs lock/unlock signal from BCM and locks/unlocks each door.
Fuel lid lock actuator	Outputs lock/unlock signal from BCM and lock/unlocks fuel filler lid.
Door switch	Inputs door open/close condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Request switch	Inputs lock/unlock operation to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Outside key antenna	Detects if Intelligent Key is outside the vehicle.
Inside key antenna	Detects if Intelligent Key is inside the vehicle.
Combination meter	Hazard warning lamp is installed to combination meter.
Push-button ignition switch	Inputs push-button ignition switch ON/OFF condition to BCM.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.
Hazard warning lamp	Warns the user of the door lock/unlock condition and in appropriate operations with the lamps blink.

BACK DOOR OPEN FUNCTION

BACK DOOR OPEN FUNCTION : System Diagram

INFOID:0000000004393642



BACK DOOR OPEN FUNCTION : System Description

INFOID:0000000004393643

This section describes the operation of the back door opener switch. The operation of the back door request switch is the same as the door lock function. Refer to DLK-19, "DOOR LOCK FUNCTION : System Description".

- The back door open function can open the back door by pressing the back door opener switch while carrying the Intelligent Key and all doors are locked.
- The back door open function enables the back door to be opened by pressing back door opener switch after BCM transmits UNLOCK signal to each door. Refer to DLK-43, "System Description".

BACK DOOR OPEN

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

- When the BCM detects that back door opener switch is pressed, it starts the outside key antenna (back door) and inside key antenna and transmits the request signal to the Intelligent Key. Then, check that the Intelligent Key is near the back door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM opens back door, and at the same time blinks hazard warning lamp and sounds Intelligent Key warning buzzer.

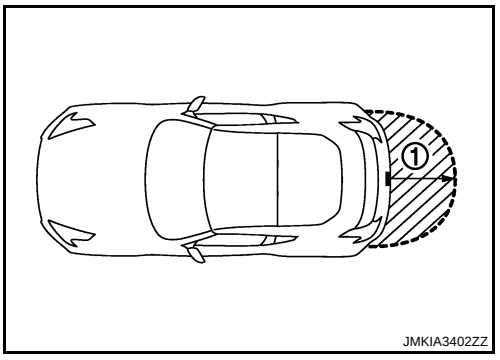
OPERATION CONDITION

If the following conditions are satisfied, the back door can be opened.

- Vehicle speed is less than 5 km/h (3 MPH)
- Intelligent Key is outside of vehicle
- Intelligent Key is within outside key antenna detection area
- Back door select unlock is operated by back door request switch.

OUTSIDE KEY ANTENNA DETECTION AREA

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



HAZARD AND BUZZER REMINDER FUNCTION

Back door opening operation by back door opener switch, the hazard warning lamps and born blinks or honk as a reminder.

NOTE:

Hazard and buzzer reminder function is only operated at the first back door opening operation after BCM transmits LOCK signal to each door.

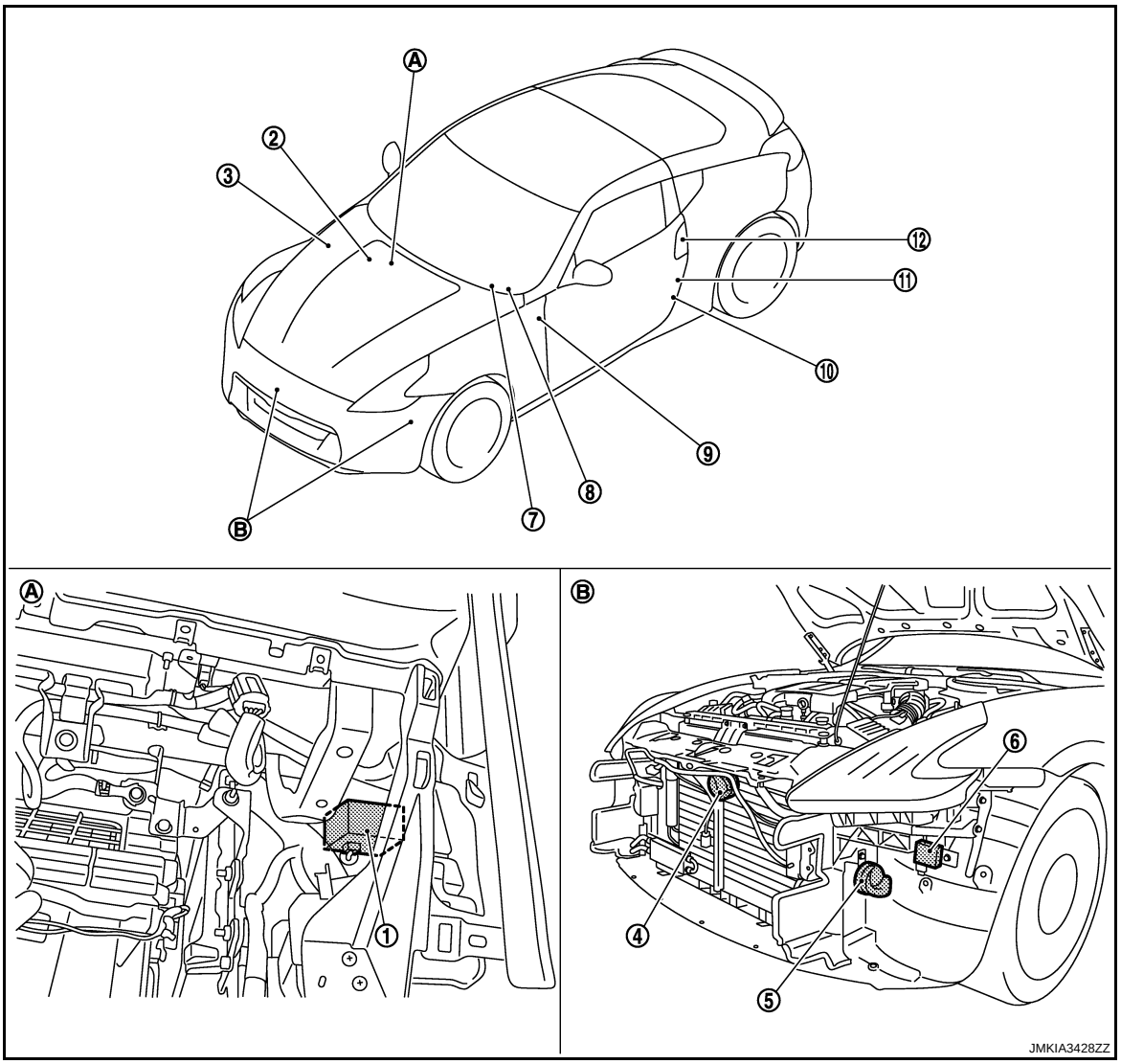
LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

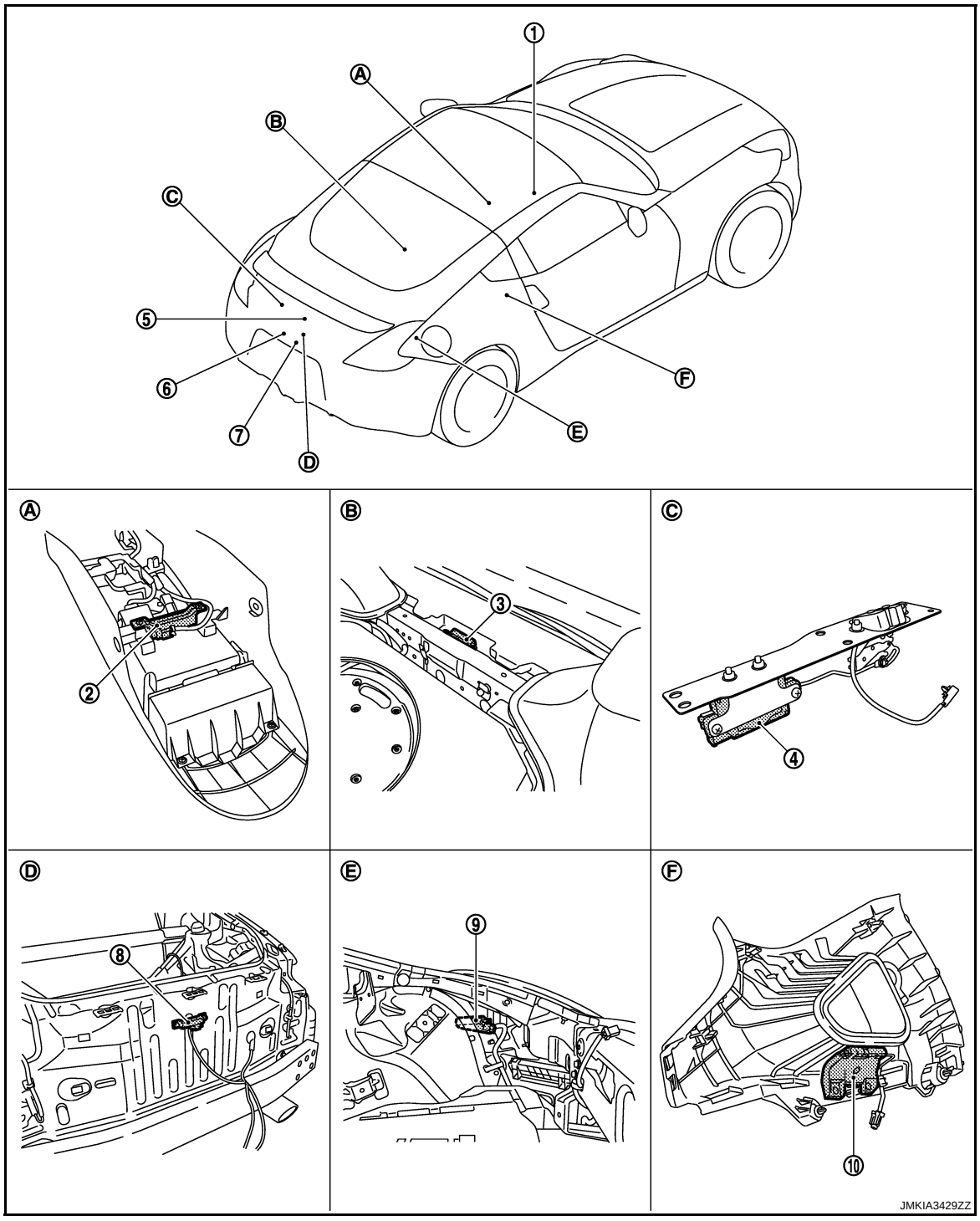
Door lock function	Intelligent Key	Key slot	Remote keyless entry receiver	Door switch	Door request switch	Door lock actuator and fuel lid lock actuator	Inside key antenna	Outside key antenna (Rear bumper)	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamp	Back door request switch	Back door opener switch	Combination meter
Back door open function by back door opener switch (Carrying Intelligent Key)	×	×	×	×	×	×	×	×		×	×		×	×	×
Hazard and buzzer reminder function for door lock/unlock operation									×	×	×	×	×		×

BACK DOOR OPEN FUNCTION : Component Parts Location

INFOID:0000000004393644



1. Remote keyless entry receiver M104
2. BCM M118, M119, M120, M121, M122, M123 Refer to BCS-8, "Component Parts Location"
3. IPDM E/R E5, E6 Refer to PCS-5, "Component Parts Location"
4. Horn (low) E69, E70
5. Horn (high) E61, E62
6. Intelligent Key warning buzzer E57
7. Push-button ignition switch (push switch) M50
8. Combination meter M53
9. Key slot M22
10. Driver side door switch B16
11. Driver side door lock assembly D15
12. Driver side door request switch D13
A. Dash side lower (passenger side)
B. View with front bumper removed



1. A/T shift selector* (detention switch) M137 Refer to SEC-12, "Component Parts Location"	2. Inside key antenna (console) M257	3. Inside key antenna (luggage room) B222
4. Back door opener actuator B77	5. Back door switch B66	6. Back door opener switch assembly B154 (back door request switch)
7. Back door opener switch assembly B154 (back door opener switch)	8. Outside key antenna (rear bumper) B54	9. Fuel lid lock actuator B242
10. Outside key antenna RH B209		
A. View with center console assembly removed	B. View with luggage floor finisher front removed	C. View with luggage rear plate removed
D. View with rear bumper removed	E. View with luggage side finisher lower RH removed	F. View with rear pillar finisher RH removed

*: With A/T models

BACK DOOR OPEN FUNCTION : Component Description

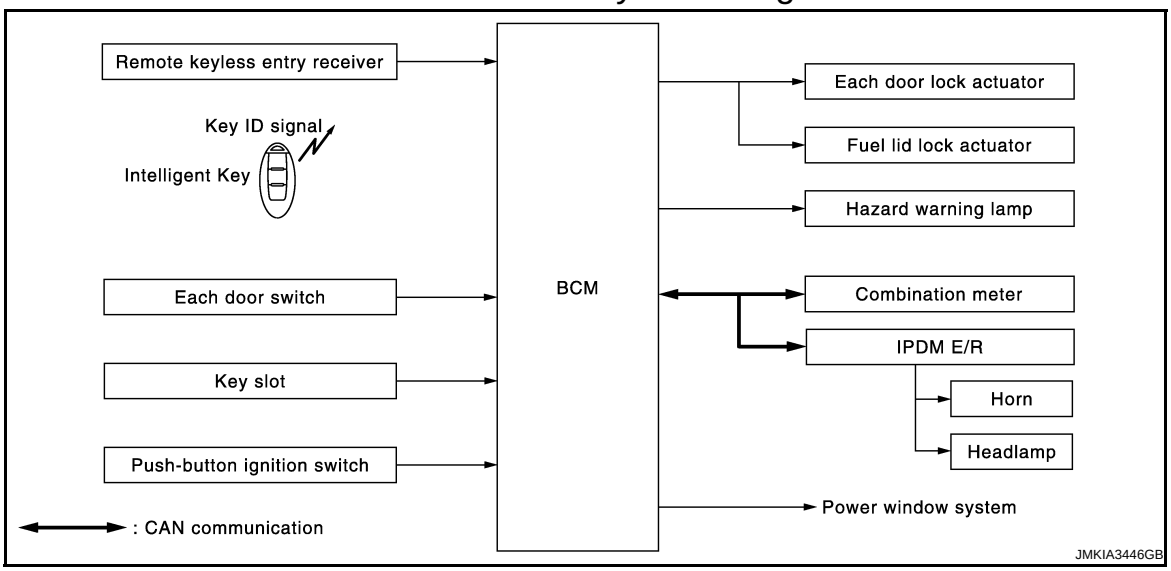
INFOID:0000000004393645

Item	Function
BCM	Controls the back door open function and room lamp function.
Back door opener actuator	Opens the back door with the back door open signal from BCM.
Back door opener switch	Inputs press/degrees signal to BCM.
Back door request switch	Inputs lock/unlock operation to BCM.
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.
Outside key antenna (rear bumper)	Detects if Intelligent Key is outside the vehicle.
Inside key antenna	Detects if Intelligent Key is inside the vehicle.
Combination meter	• Transmits vehicle speed signal to BCM via CAN communication line. • Hazard warning lamp is installed to combination meter.
Intelligent Key warning buzzer	Warns the user of the back door open/close condition and inappropriate operations with the buzzer sound.
Hazard warning lamp	Warns the user of the back door open/close condition and inappropriate operations with the lamps blink.

REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION : System Diagram

INFOID:0000000004393646



REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:0000000004393647

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

OPERATION

Remote keyless entry system controls operation of the following items.

- Door lock/unlock
- Selective unlock
- Hazard and horn reminder
- Auto door lock
- Panic alarm
- Power window down
- Interior lamp

OPERATION AREA

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

DOOR LOCK/UNLOCK FUNCTION

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

OPERATION CONDITION

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

SELECTIVE UNLOCK FUNCTION

When an LOCK signal is transmitted from Intelligent Key, all doors and fuel lid are locked.
When an UNLOCK signal is transmitted from Intelligent Key once, driver side door and fuel lid are unlocked. Then, if an UNLOCK signal is transmitted from Intelligent Key again within 60 seconds, all other doors are unlocked.
Selective unlock operation mode can be changed using “DOOR LOCK-UNLOCK SET” mode in “WORK SUPPORT”. Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

HAZARD AND HORN REMINDER FUNCTION

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

Operating Function of Hazard and Horn Reminder

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

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

- Ignition switch position is ON.
- Door is open.

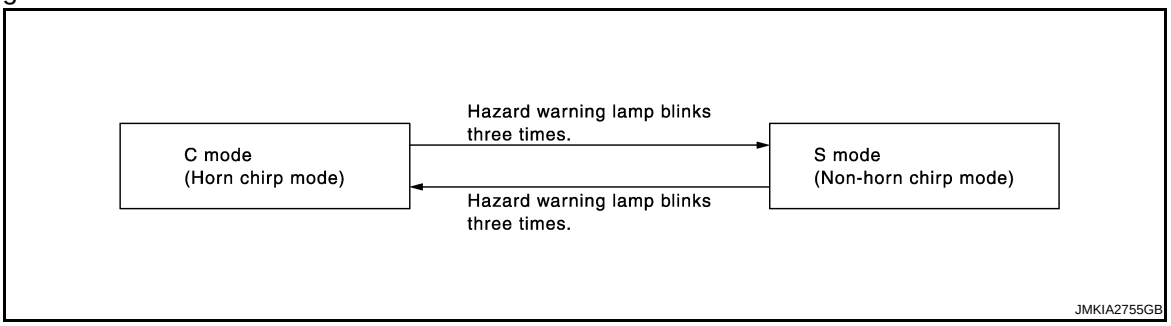
How to Change Hazard and Horn Reminder Mode

With CONSULT-III

Refer to DLK-49, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Without CONSULT-III

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



AUTO DOOR LOCK FUNCTION

When all doors and fuel lid 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 and fuel lid are unlocked with Intelligent Key button. When BCM does not receive the following signals within 60 seconds, all doors and fuel lid are locked.

- Door switch is ON (door is open)
- 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 the “AUTO LOCK SET” mode in “WORK SUPPORT”. Refer to DLK-49, "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 blinks 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-49, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

KEYLESS POWER WINDOW DOWN FUNCTION

Driver side and passenger side 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.

Keyless power window down operation mode can be changed by “PW DOWN SET” mode in “WORK SUPPORT”. Refer to DLK-49, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

INTERIOR ROOM LAMP CONTROL

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

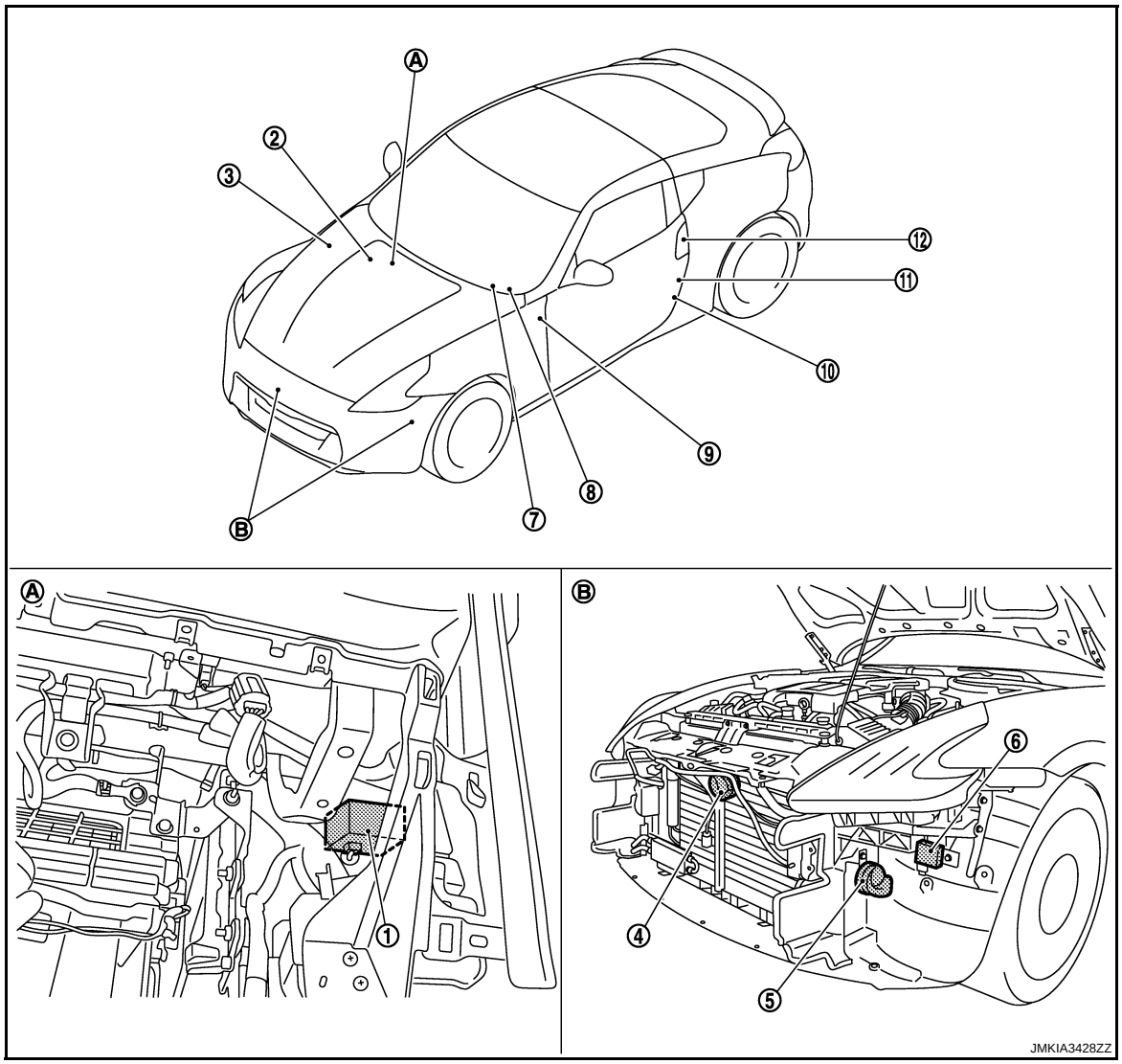
LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

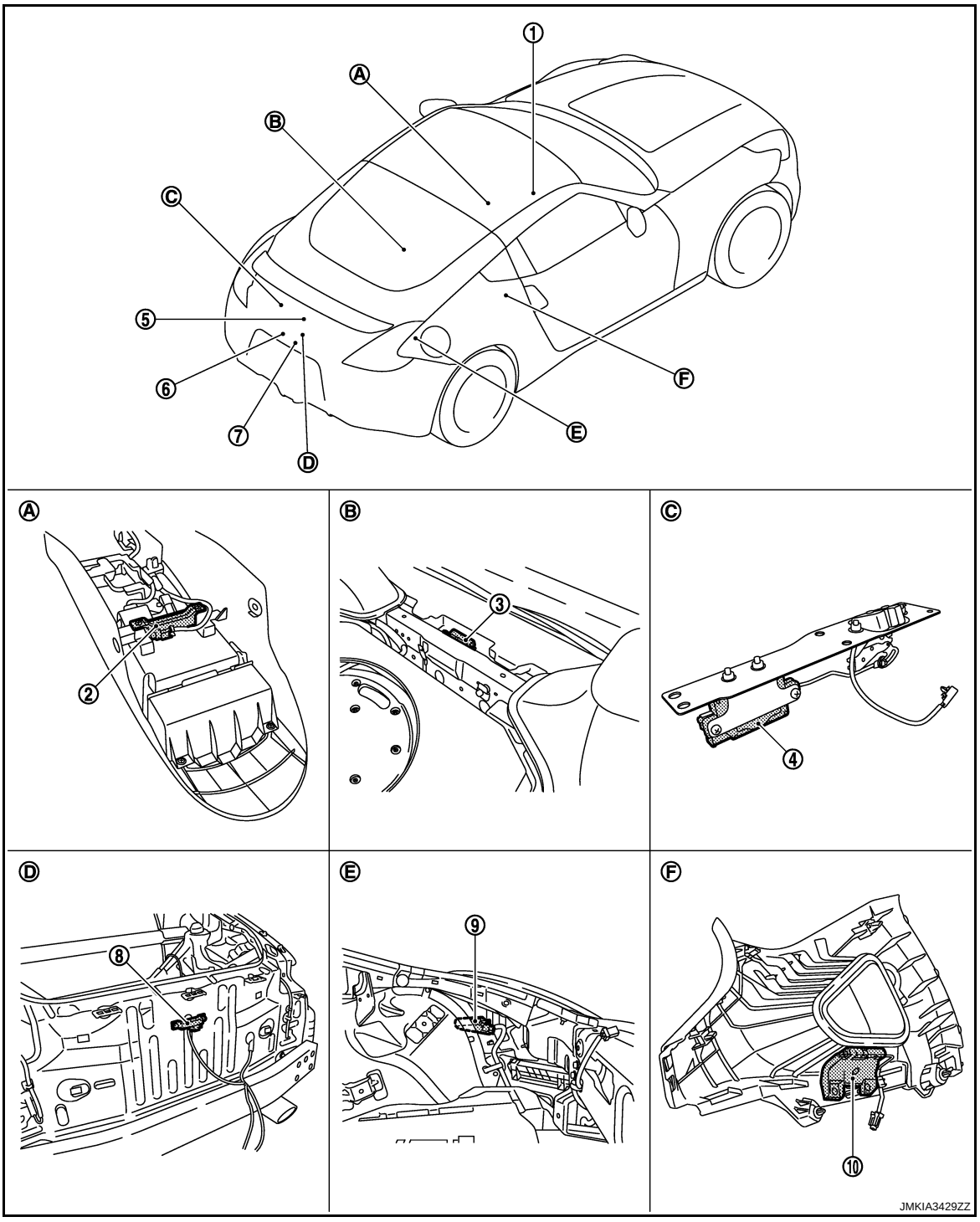
Remote keyless entry functions	Intelligent Key	Key slot	Door request switch	Door switch	Door lock actuator and fuel lid lock actuator	CAN communication system	BCM	Combination meter	Hazard warning lamp	Horn	IPDM E/R	Headlamp	Power window switch
Door lock/unlock function by remote control button	×	×		×	×		×						
Hazard and horn reminder function	×					×	×	×	×	×	×		
Selective unlock function	×			×	×		×						
Keyless power window down function	×	×					×						×
Auto door lock function	×	×		×			×						
Panic alarm function	×		×			×	×			×	×	×	

REMOTE KEYLESS ENTRY FUNCTION : Component Parts Location

INFOID:0000000004393648



1. Remote keyless entry receiver M104
2. BCM M118, M119, M120, M121, M122, M123 Refer to BCS-8, "Component Parts Location"
3. IPDM E/R E5, E6 Refer to PCS-5, "Component Parts Location"
4. Horn (low) E69, E70
5. Horn (high) E61, E62
6. Intelligent Key warning buzzer E57
7. Push-button ignition switch (push switch) M50
8. Combination meter M53
9. Key slot M22
10. Driver side door switch B16
11. Driver side door lock assembly D15
12. Driver side door request switch D13
A. Dash side lower (passenger side)
B. View with front bumper removed



1.	A/T shift selector* (detention switch) M137 Refer to SEC-12, "Component Parts Location"	2.	Inside key antenna (console) M257	3.	Inside key antenna (luggage room) B222
4.	Back door opener actuator B77	5.	Back door switch B66	6.	Back door opener switch assembly B154 (back door request switch)
7.	Back door opener switch assembly B154 (back door opener switch)	8.	Outside key antenna (rear bumper) B54	9.	Fuel lid lock actuator B242
10.	Outside key antenna RH B209				
A.	View with center console assembly removed	B.	View with luggage floor finisher front removed	C.	View with luggage rear plate removed
D.	View with rear bumper removed	E.	View with luggage side finisher lower RH removed	F.	View with rear pillar finisher RH removed

*: With A/T models

REMOTE KEYLESS ENTRY FUNCTION : Component Description

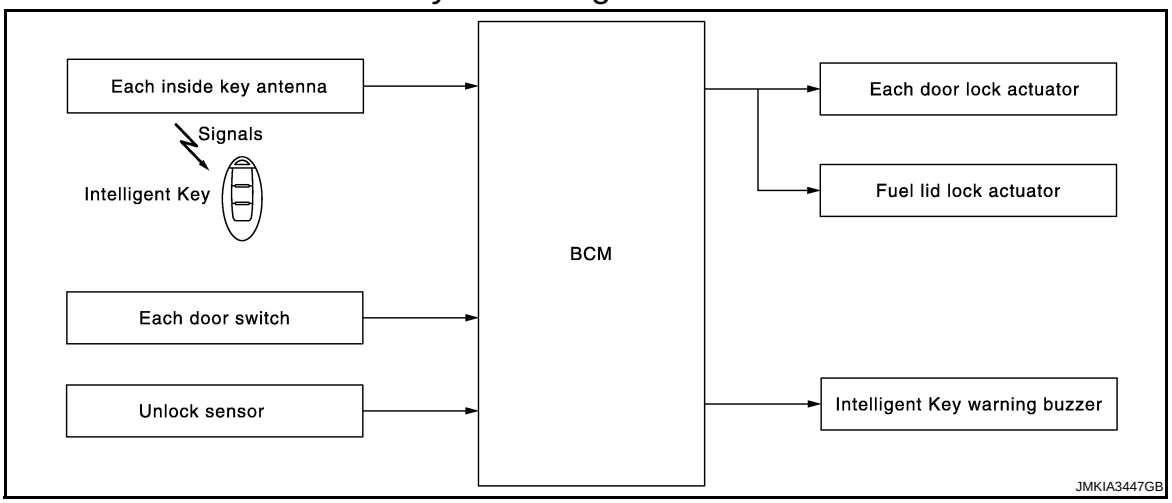
INFOID:0000000004393649

Item	Function
BCM	Controls the door lock function and room lamp function.
IPDM E/R	Sounds horn and blinks headlamp via CAN communication with BCM.
Door lock actuator	Outputs lock/unlock signal from BCM and locks/unlocks each door.
Fuel lid lock actuator	Performs lock/unlock of the fuel lid.
Door switch	Inputs door open/close condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Combination meter	Hazard warning lamps are installed to combination meter.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Key slot	Inputs key insert/remove signal to BCM.
Push-button ignition switch	Inputs push-button ignition switch ON/OFF condition to BCM.
Hazard warning lamp	Warns the user of the door open/close condition and inappropriate operations with the lamps blink.

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION : System Diagram

INFOID:0000000004679421



KEY REMINDER FUNCTION : System Description

INFOID:0000000004393652

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

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

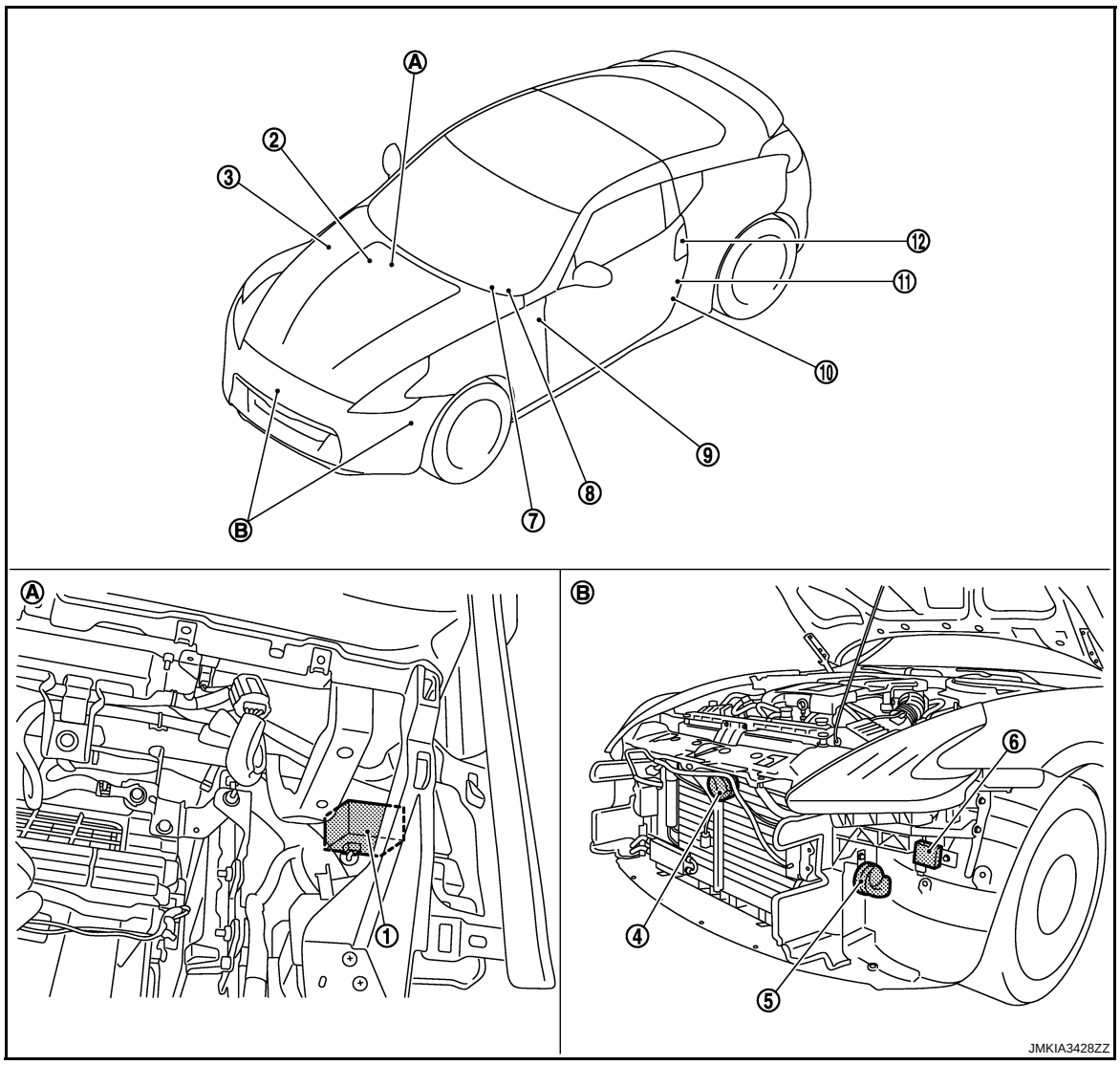
*:If the door closing impact shocks the door lock knob, or contacts against baggage with the door lock knob might activate the door locks accidentally but unlock operation is perform in these cases.

CAUTION:

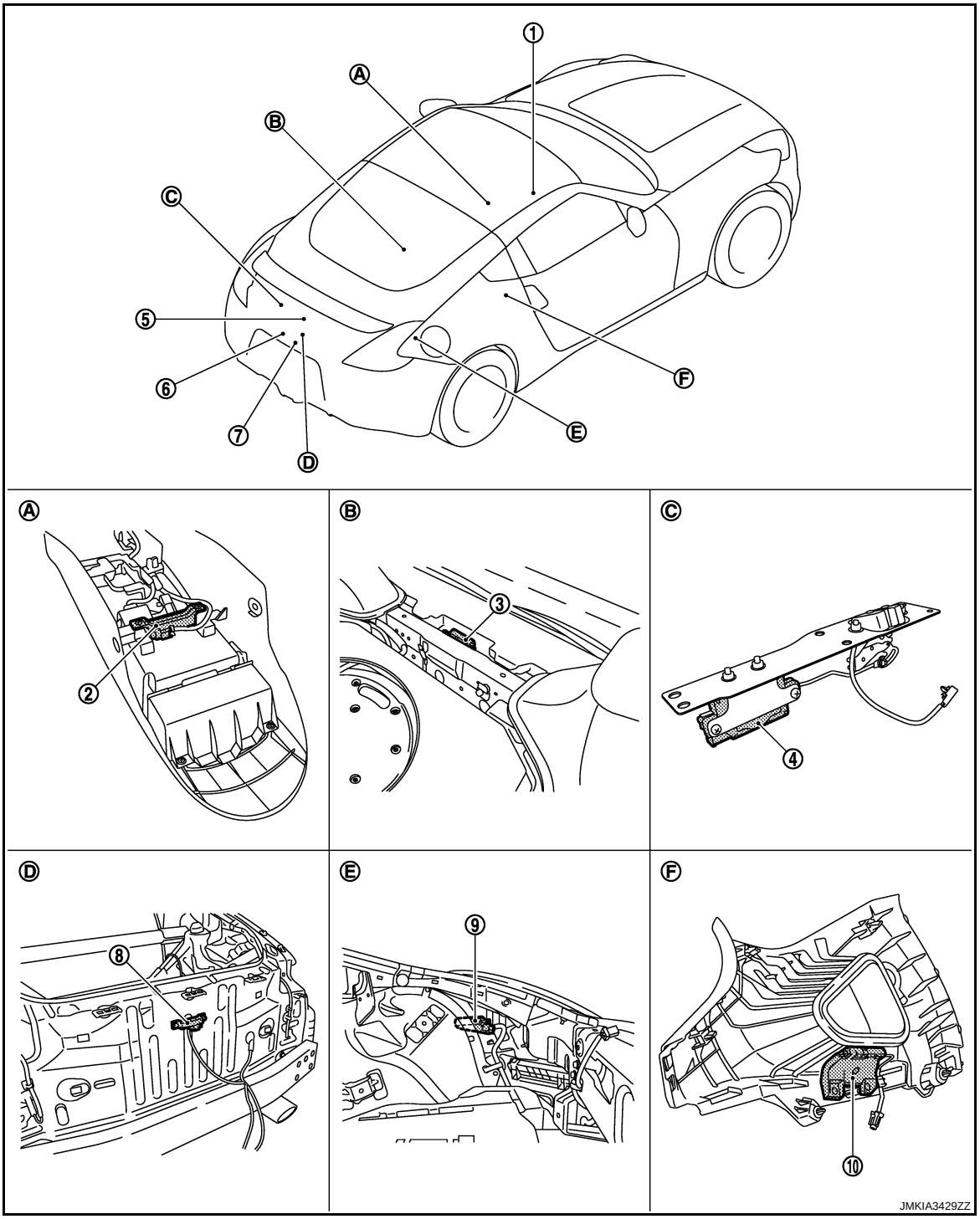
The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function does operate when the Intelligent Key is on the instrument panel, or in the glove box. Also, this system sometimes does not operate if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

KEY REMINDER FUNCTION : Component Parts Location

INFOID:0000000004393653



1.	Remote keyless entry receiver M104	2.	BCM M118, M119, M120, M121, M122, M123 Refer to BCS-8, "Component Parts Location"	3.	IPDM E/R E5, E6 Refer to PCS-5, "Component Parts Location"
4.	Horn (low) E69, E70	5.	Horn (high) E61, E62	6.	Intelligent Key warning buzzer E57
7.	Push-button ignition switch (push switch) M50	8.	Combination meter M53	9.	Key slot M22
10.	Driver side door switch B16	11.	Driver side door lock assembly D15	12.	Driver side door request switch D13
A.	Dash side lower (passenger side)	B.	View with front bumper removed		



1. A/T shift selector* (detention switch) M137 Refer to SEC-12, "Component Parts Location"
2. Inside key antenna (console) M257
3. Inside key antenna (luggage room) B222
4. Back door opener actuator B77
5. Back door switch B66
6. Back door opener switch assembly B154 (back door request switch)
7. Back door opener switch assembly B154 (back door opener switch)
8. Outside key antenna (rear bumper) B54
9. Fuel lid lock actuator B242
10. Outside key antenna RH B209

A. View with center console assembly removed
B. View with luggage floor finisher front removed
C. View with luggage rear plate removed
D. View with rear bumper removed
E. View with luggage side finisher lower RH removed
F. View with rear pillar finisher RH removed

*: With A/T models

WARNING FUNCTION

WARNING FUNCTION : System Description

INFOID:0000000004393654

OPERATION DESCRIPTION

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

- Intelligent Key system malfunction
- OFF position warning
- P position warning
- ACC warning
- Take away warning
- Door lock operation warning
- 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 is executed.

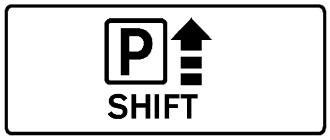
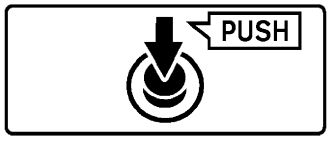
Warning/Information functions		Operation procedure
Intelligent Key system malfunction		When a malfunction is detected on BCM, “KEY” warning lamp illuminates.
OFF position warning	For internal	• Ignition switch: ACC position. • Door switch (driver side): ON (Door is open).
	For external*	OFF position warning (For internal) is in active mode, driver side door is closed. **NOTE:** OFF position (For external) active only when each of the sequences occurs as below: P position warning → ACC warning → OFF position warning (For internal) → OFF position warning (For internal)
P position warning*	For internal	• Shift position: Except P position. • Engine is running to stopped (Ignition switch is ON to OFF).
	For external	Warning is activated when driver door is closed from the open position while the P position warning (for inside vehicle) is ON.
ACC warning*		• When P position warning is in active mode, shift position changes P position. • Ignition switch: ACC position.
Take away warning	Door is open to close	• Ignition switch: Except LOCK position. • Door switch: ON to OFF (Door is open to close). • Intelligent Key cannot be detected inside the vehicle.
	Door is open	• Door switch: ON (Door is open). • Key ID verification every 5 seconds when registered Intelligent Key cannot be detected inside the vehicle.
	Push button-ignition switch operation	• Ignition switch: Except LOCK position. • Press push-button ignition switch. • Intelligent Key cannot be detected inside the vehicle.
	Intelligent Key is removed from key slot	• When Intelligent Key is removed from key slot, Intelligent Key cannot be detected inside the vehicle.
Door lock operation warning	Request switch operation	When door lock operation is requested while door lock operating condition of door request switch is not satisfied.

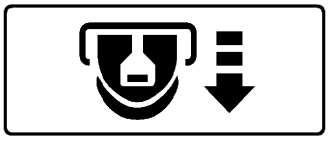
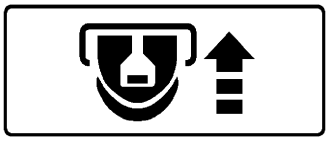
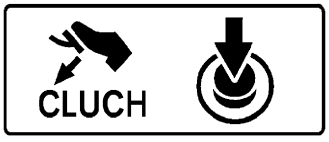
Warning/Information functions		Operation procedure
Key warning		• Ignition switch is OFF position. • Driver side door switch: ON (Driver side door is open). • Intelligent Key is inserted in key slot.
Intelligent Key insert information		• Door switch: ON to OFF (Door is open to close). • Intelligent Key is out of key slot. • Intelligent Key cannot be detected inside the vehicle.
Engine start information	Ignition switch is ON position	• Ignition switch: ON position. • Shift position: P position.* • Engine is stopped.
	Ignition switch is except ON position	• Ignition switch: Except ON position. • Shift position: P position.* • Intelligent Key is inserted in key slot or 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 is low battery, BCM is detected after ignition switch is turned ON.
Key ID warning		When registered intelligent Key cannot be detected inside the vehicle after ignition switch is turned ON.

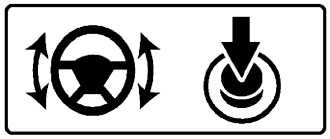
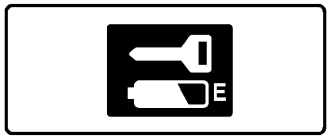
*: M/T models do not apply.

WARNING METHOD

The following table shows the alarm or warning methods with chime.
Information display (combination meter), “KEY” indicator or key slot indicator when the warning conditions are met.

Warning/Information functions		“KEY” warning lamp	Information display (combination meter)	Key slot indicator	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*	For internal	—	 JMKIA0037GB	—	Activate	—
	For external			—	—	Active
ACC warning*		—	 JMKIA0047GB	—	—	—

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

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

*: M/T models do not apply.

LIST OF OPERATION RELATED PARTS

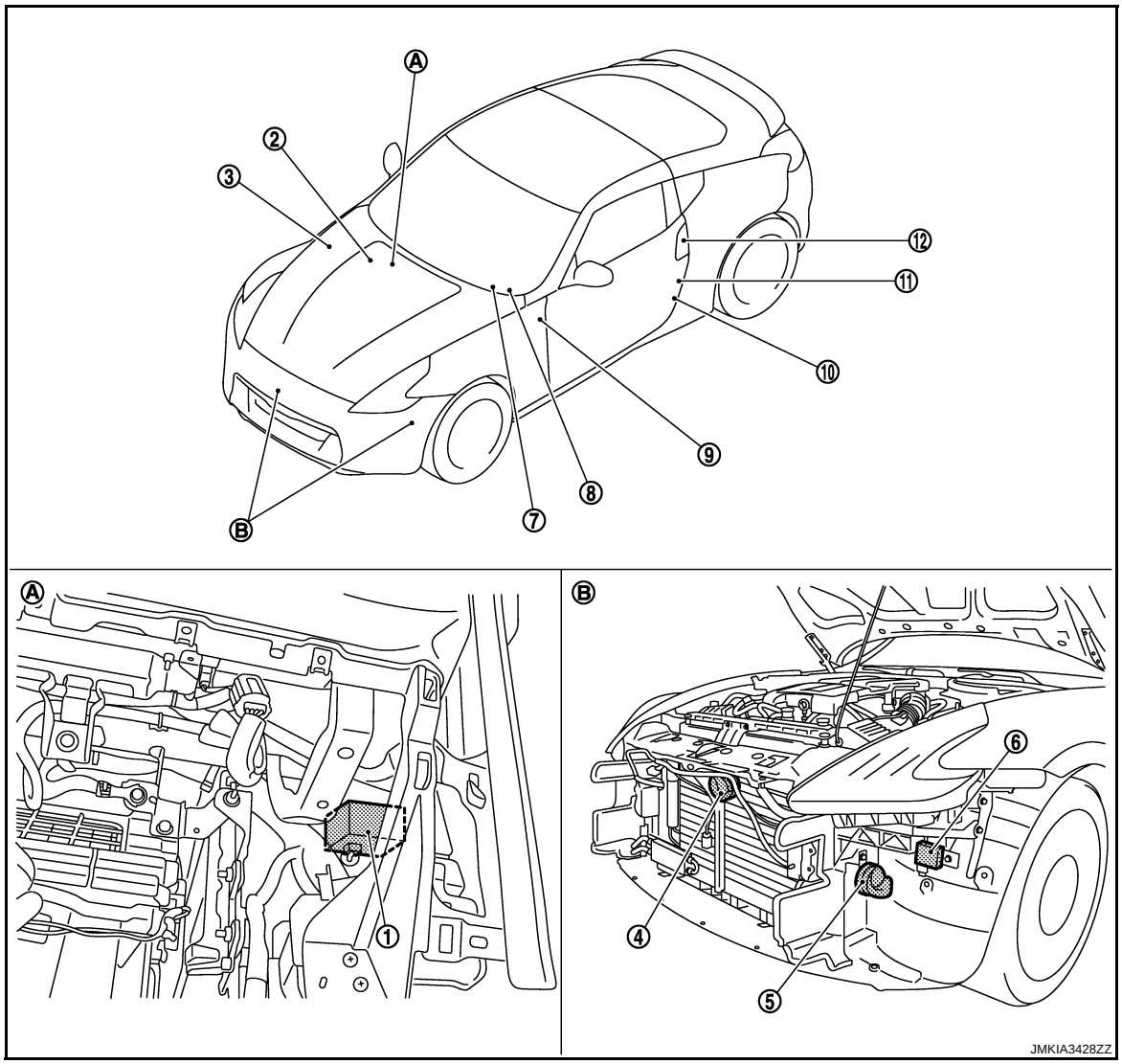
Parts marked with × are the parts related to operation.

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	Transmission range 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 close	×			×		×		×	×	×	×	×	×		
	Door is open	×			×		×				×	×	×	×		
	Push-button ignition	×		×			×			×	×	×	×	×		
	Intelligent Key is removed from key slot	×	×				×				×	×	×	×		
Door lock operation warning		×	×		×	×	×	×	×			×				
Key ID warning		×	×	×			×				×	×	×			
Key warning		×	×		×					×	×	×	×	×		
Intelligent Key insert information		×	×	×	×		×				×	×	×	×		
Engine start information	Ignition switch is ON position	×	×	×			×				×	×	×		×	
	Ignition switch is except ON position	×	×	×			×				×	×	×			

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	Transmission range switch	"KEY" warning lamp
Steering lock information			×							×	×	×			
Intelligent Key low battery warning	×					×				×	×	×			

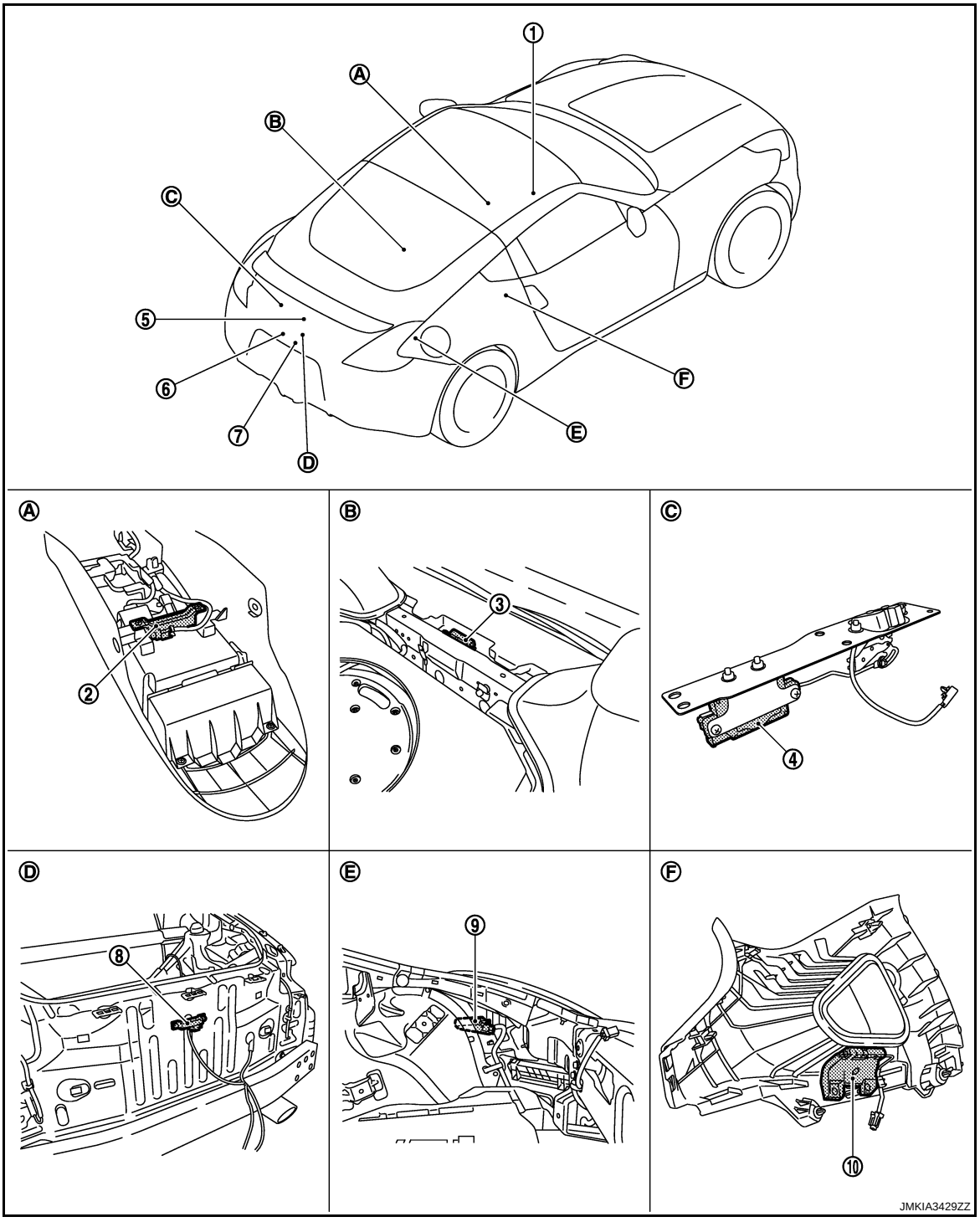
WARNING FUNCTION : Component Parts Location

INFOID:0000000004528508



1. Remote keyless entry receiver M104
2. BCM M118, M119, M120, M121, M122, M123 Refer to BCS-8, "Component Parts Location"
3. IPDM E/R E5, E6 Refer to PCS-5, "Component Parts Location"
4. Horn (low) E69, E70
5. Horn (high) E61, E62
6. Intelligent Key warning buzzer E57

7. Push-button ignition switch (push switch) M50
8. Combination meter M53
9. Key slot M22
10. Driver side door switch B16
11. Driver side door lock assembly D15
12. Driver side door request switch D13
A. Dash side lower (passenger side)
B. View with front bumper removed



1. A/T shift selector* (detention switch) M137
Refer to SEC-12, "Component Parts Location"
2. Inside key antenna (console) M257
3. Inside key antenna (luggage room) B222
4. Back door opener actuator B77
5. Back door switch B66
6. Back door opener switch assembly B154
(back door request switch)

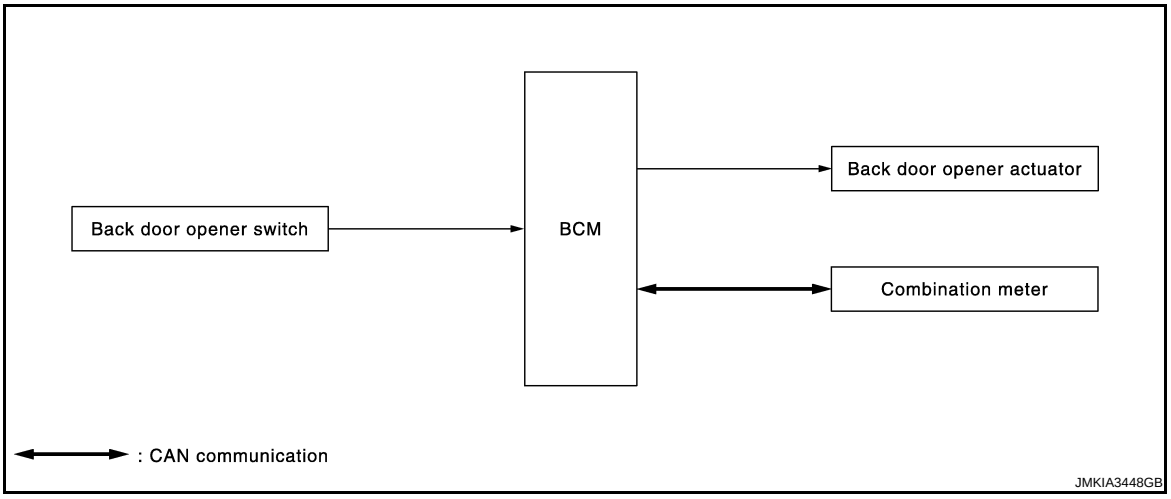
7.	Back door opener switch assembly B154 (back door opener switch)	8.	Outside key antenna (rear bumper) B54	9.	Fuel lid lock actuator B242
10.	Outside key antenna RH B209				
A.	View with center console assembly removed	B.	View with luggage floor finisher front removed	C.	View with luggage rear plate removed
D.	View with rear bumper removed	E.	View with luggage side finisher lower RH removed	F.	View with rear pillar finisher RH removed

*: With A/T models

BACK DOOR OPENER SYSTEM

System Diagram

INFOID:0000000004455788



System Description

INFOID:0000000004455789

BACK DOOR OPENER OPERATION

When back door opener switch is pressed, BCM opens back door opener actuator.

NOTE:

Back door opener actuator is not for locking the back door. The function is only to open the back door.

OPERATION CONDITION

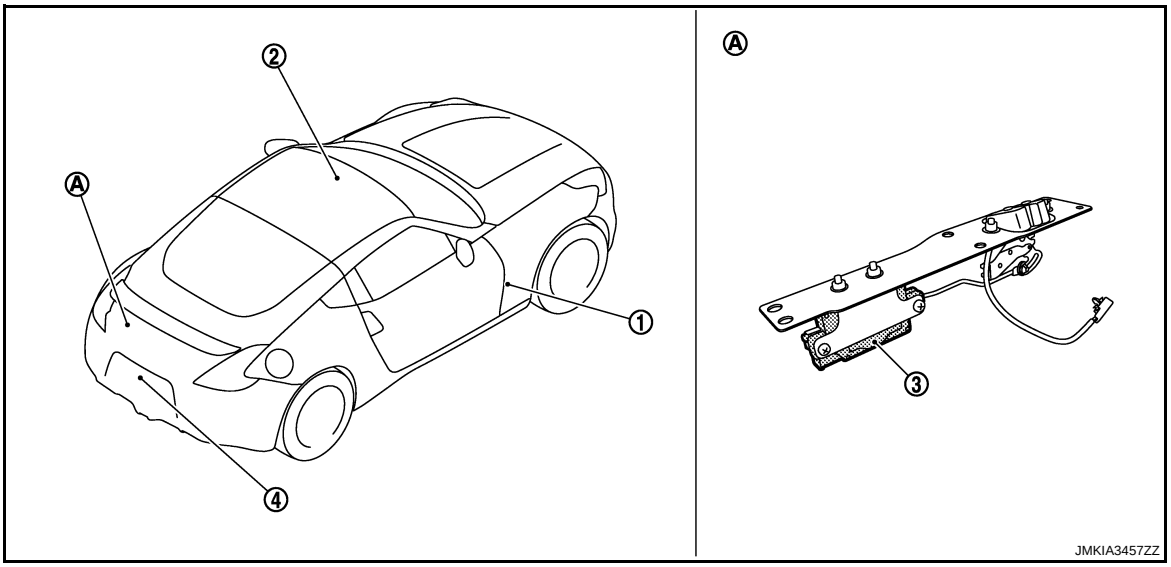
If the following conditions are satisfied, back door opener operation is performed.

Back door opener switch operation	Operation condition
Back door open	• All door is unlocked.* • Vehicle speed is less than 5 km/h (3 MPH).

*: Except UNLOCK by door lock knob operation.

Component Parts Location

INFOID:0000000004455790



1. BCM M118, M119, M120, M121, M122
2. Combination meter M34
3. Back door opener actuator B77
4. Back door opener switch assembly (back door opener switch) B154

A. View with luggage rear plate removed

Component Description

INFOID:0000000004455791

Item	Function
BCM	Controls the back door opener function.
Back door opener switch	Input back door opener switch operation signal to BCM.
Back door opener actuator	Opens the back door with the back door open signal from BCM.
Combination meter	Transmits vehicle speed signal to BCM via CAN communication.

INTEGRATED HOMELINK TRANSMITTER

Component Description

INFOID:0000000004393656

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:0000000004780944

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 Monitor	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	• Read and save the vehicle specification. • Write the vehicle specification when replacing BCM.

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

×: Applicable item

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

NOTE:

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

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

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

DOOR LOCK

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

INFOID:0000000004393658

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 (ON) or not operate (OFF) with this mode.
AUTOMATIC DOOR LOCK SELECT	Automatic door lock function mode can be selected from the following in this mode. • VH SPD: All doors are locked when vehicle speed more than 24 km/h (15 MPH) • P RANGE*: All doors are locked when shifting the selector lever from P position to other than the P position
AUTOMATIC DOOR UNLOCK SELECT	Automatic door unlock function mode can be selected from the following in the mode. • MODE 1: All doors are unlocked when the power supply position is changed from ON to OFF • MODE 2*: All doors are unlocked when shifting the selector lever from any position other than the P to P position • MODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFF • MODE 4*: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position
AUTOMATIC LOCK/UNLOCK SET	Automatic door lock/unlock function mode can be selected from the following in this mode. • Off: non-operational • Unlock Only: door unlock operation only • Lock Only: door lock operation only • Lock/Unlock: lock/unlock operation

*: P range interlock door lock can be selected for M/T models, but automatic door lock/unlock function does not operate.

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 back door request switch.
DOOR SW-DR	Indicated [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicated [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	**NOTE:** This item is displayed, but cannot be monitored.
DOOR SW-RL	**NOTE:** This item is displayed, but cannot be monitored.
DOOR SW-BK	Indicated [ON/OFF] condition of back door switch.
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 door key cylinder.
KEY CYL UN-SW	Indicated [ON/OFF] condition of unlock signal from door 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 “ALL LCK” on CONSULT-III screen is touched. • The all door lock actuators are unlocked when “ALL UNLK” on CONSULT-III screen is touched. • The door lock actuator (driver side) is unlocked when “DR UNLK” on CONSULT-III screen is touched. • The door lock actuator (passenger side) is unlocked when “AS UNLK” on CONSULT- III screen is touched. • “OTR ULK” item is displayed, but cannot be monitored.

INTELLIGENT KEY

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

INFOID:0000000004393659

WORK SUPPORT

Monitor item	Description
CONFIRM KEY FOB ID	It can be checked whether Intelligent Key ID code is registered or not in this mode.
AUTO LOCK SET	Auto door lock time can be changed in this mode. • MODE 1: 1 minute • MODE 2: 5 minutes • MODE 3: 30 seconds • MODE 4: 2 minutes
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch (driver side, passenger side and back door) 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 back door request switch can be changed to operate (ON) or not operate (OFF) with this mode.
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following with this mode. • MODE 1: 0.5 sec. • MODE 2: Non-operation • MODE 3: 1.5 sec.
TAKE OUT FROM WIN WARN	**NOTE:** This item is displayed, but cannot be monitored.
PW DOWN SET	Unlock button pressing time on Intelligent Key button can be selected from the following with this mode. • MODE 1: 3 sec. • MODE 2: Non-operation • MODE 3: 5 sec.
TRUNK OPEN DELAY	**NOTE:** This item is displayed, but cannot be supported.
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.
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/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 be forcibly activated.
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.

SELF-DIAG RESULT

Refer to DLK-155, "DTC Index".

DATA MONITOR

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 back door 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	**NOTE:** This item is displayed, but cannot be monitored.
CLUCH SW*1	Indicates [ON/OFF] condition of clutch switch.
BRAKE SW 1	Indicates [ON/OFF]*2 condition of brake switch power supply.
BRAKE SW 2	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 unit (LOCK).
S/L -UNLOCK	Indicates [ON/OFF] condition of steering lock unit (UNLOCK).
S/L RELAY -F/B	Indicates [ON/OFF] condition of steering lock relay.
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
PUSH SW -IPDM	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY1 -F/B	Indicates [ON/OFF] condition of ignition relay 1.
DETE SW -IPDM	Indicates [ON/OFF] condition of P position.
SFT PN -IPDM	Indicates [ON/OFF] condition of P or N position.
SFT P -MET	Indicates [ON/OFF] condition of P position.
SFT N -MET	Indicates [ON/OFF] condition of N position.
ENGINE STATE	Indicates [STOP/STALL/CRANK/RUN] condition of engine states.
S/L LOCK-IPDM	Indicates [ON/OFF] condition of steering lock unit (LOCK).
S/L UNLK-IPDM	Indicates [ON/OFF] condition of steering lock unit (UNLOCK).
S/L RELAY-REQ	Indicates [ON/OFF] condition of steering lock relay.
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [km/h].
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or TCM by numerical value [km/h].
DOOR STAT-DR	Indicates [LOCK/READY/UNLOCK] condition of driver side door status.
DOOR STAT-AS	Indicates [LOCK/READY/UNLOCK] 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	**NOTE:** This item is displayed, but cannot be monitored.
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	**NOTE:** This item is displayed, but cannot be monitored.
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.

Monitor Item	Condition
RKE OPE COUN1	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2	**NOTE:** This item is displayed, but cannot be monitored.

*1: It is displayed but does not operate on M/T models.

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

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp is 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 is activated after “ON” on CONSULT-III screen is touched.
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer is activated after “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” on CONSULT-III screen is touched. • OFF position warning chime sounds when “KNOB” on CONSULT-III screen is touched.
INDICATOR	This test is able to check warning lamp operation. • “KEY” Warning lamp illuminates when “KEY ON” on CONSULT-III screen is touched. • “KEY” Warning lamp blinks when “KEY IND” on CONSULT-III screen is touched.
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp is activated after “ON” on CONSULT-III screen is touched.
LCD	This test is able to check meter display information • Engine start information displays when “BP N” on CONSULT-III screen is touched. • Engine start information displays when “BP I” on CONSULT-III screen is touched. • Key ID warning displays when “ID NG” on CONSULT-III screen is touched. • Steering lock information displays when “ROTAT” on CONSULT-III screen is touched. • P position warning displays when “SFT P” on CONSULT-III screen is touched. • Intelligent Key insert information displays when “INSRT” on CONSULT-III screen is touched. • Intelligent Key low battery warning displays when “BATT” on CONSULT-III screen is touched. • Take away through window warning displays when “NO KY” on CONSULT-III screen is touched. • Take away warning display when “OUTKEY” on CONSULT-III screen is touched. • OFF position warning display when “LK WN” on CONSULT-III screen is touched.
TRUNK/GLASS HATCH	**NOTE:** This item is displayed, but cannot be tested.
FLASHER	This test is able to check hazard warning lamp operation. The hazard warning lamps are activated after “LH/RH/OFF” on CONSULT-III screen is touched.
HORN	This test is able to check horn operation. The horn is activated after “ON” on CONSULT-III screen is touched.
P RANGE	This test is able to check A/T shift selector power supply A/T shift selector 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 INDICATOR	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. ACC indicator in push-ignition switch illuminates when “ON” on CONSULT-III screen is touched.

Test item	Description
IGNITION ON IND	This test is able to check ON indicator in push-ignition switch operation. ON 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 blinks when “ON” on CONSULT-III screen is touched.
TRUNK/BACK DOOR	This test is able to check back door opener actuator open operation. This actuator opens when “OPEN” on CONSULT-III screen is touched.

TRUNK

TRUNK : CONSULT-III Function (BCM - TRUNK)

INFOID:0000000004393660

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.
ACTIVE TEST	The signals used to activate each device are forcibly supplied from BCM.

DATA MONITOR

Monitor Item	Contents
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.
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	**NOTE:** This item is displayed, but cannot be monitored.
TR/BD OPEN SW	Indicates [ON/OFF] condition of back door opener switch.
TRNK/HAT MNTR	**NOTE:** This item is displayed, but cannot be monitored.
RKE-TR/BD	**NOTE:** This item is displayed, but cannot be monitored.

ACTIVE TEST

Test item	Description
TRUNK/GLASS HATCH	**NOTE:** This item is displayed, but cannot be monitored.

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000004393661

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.
CAN Communication Signal Chart. Refer to LAN-23, "CAN System Specification Chart".

DTC Logic

INFOID:0000000004393662

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.	CAN communication system

Diagnosis Procedure

INFOID:0000000004393663

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-14, "Trouble Diagnosis Flow Chart".
NO >> Refer to GI-39, "Intermittent Incident".

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:0000000004393664

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:0000000004393665

1.REPLACE BCM

When DTC [U1010] is detected, replace BCM.

>> Replace BCM. Refer to BCS-84, "Removal and Installation"

Special Repair Requirement

INFOID:0000000004393666

1.REQUIRED WORK WHEN REPLACING BCM

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

>> INSPECTION END

B2622 INSIDE ANTENNA

Description

INFOID:0000000004393670

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

DTC Logic

INFOID:0000000004393671

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA	An excessive high or low voltage from inside antenna (console) is sent to BCM.	• Inside key antenna (console) • Between BCM ～ Inside key antenna (console)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

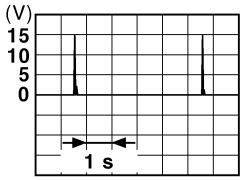
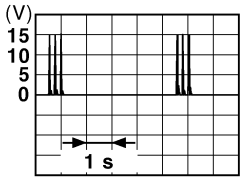
YES >> Refer to DLK-55, "Diagnosis Procedure".
NO >> Inside key antenna (console) is OK.

Diagnosis Procedure

INFOID:0000000004393672

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM Connector	(+) BCM Terminal	(–)	Condition	Signal (Reference value)
Console	M122	72, 73	Ground	Place Intelligent Key inside the vehicle.	 JMKIA0062GB
				Place Intelligent Key outside the vehicle.	 JMKIA0063GB

Is the inspection result normal?

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

2.CHECK INSIDE KEY ANTENNA CIRCUIT

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

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

BCM		Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	
M122	72	M257	2	Existed
	73		1	

3. Check continuity between BCM harness connector and ground.

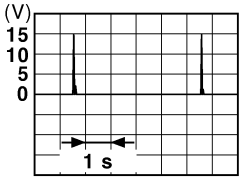
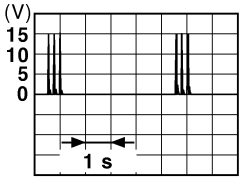
BCM		Ground	Continuity
Connector	Terminal		
M122	72		Not existed
	73		

Is the inspection result normal?

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

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+) BCM			(–)	Condition	Signal (Reference value)
Connector		Terminal			
Console	M122	72, 73	Ground	Place Intelligent Key inside the vehicle.	 JMKIA0062GB
				Place Intelligent Key outside the vehicle.	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to DLK-235, "CONSOLE : Removal and Installation".
NO >> Replace BCM. Refer to BCS-84, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

B2623 INSIDE ANTENNA

Description

INFOID:0000000004393673

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

DTC Logic

INFOID:0000000004393674

DTC DETECTION LOGIC

DTC	CONSULT-III display description	DTC detecting condition	Possible cause
B2623	INSIDE ANTENNA	An excessive high or low voltage from inside antenna (luggage room) is sent to BCM.	• Inside key antenna (luggage room) • Between BCM – Inside key antenna (luggage room)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

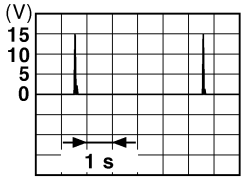
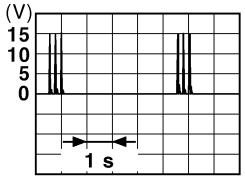
YES >> Refer to DLK-57, "Diagnosis Procedure".
NO >> Inside key antenna (luggage room) is OK.

Diagnosis Procedure

INFOID:0000000004393675

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM Connector	(+) BCM Terminal	(–)	Condition	Signal (Reference value)
Luggage room	M121	34, 35	Ground	Place Intelligent Key inside the vehicle.	 JMKIA0062GB
				Place Intelligent Key outside the vehicle.	 JMKIA0063GB

Is the inspection result normal?

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

2.CHECK INSIDE KEY ANTENNA CIRCUIT

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

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

BCM		Inside key antenna (luggage room)		Continuity
Connector	Terminal	Connector	Terminal	
M121	34	B222	2	Existed
	35		1	

3. Check continuity between BCM harness connector and ground.

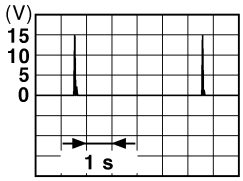
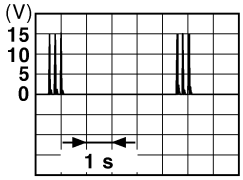
BCM		Ground	Continuity
Connector	Terminal		
M121	34		Not existed
	35		

Is the inspection result normal?

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

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+)			(–)	Condition	Signal (Reference value)
BCM					
Connector		Terminal			
Luggage room	M121	34, 35	Ground	Place Intelligent Key inside the vehicle.	 JMKIA0062GB
				Place Intelligent Key outside the vehicle.	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (luggage room). Refer to DLK-235, "LUGGAGE ROOM : Removal and Installation".
NO >> Replace BCM. Refer to BCS-84, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

POWER SUPPLY AND GROUND CIRCUIT
BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE) : Diagnosis Procedure

INFOID:0000000004393676

1.CHECK FUSE AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuse and fusible link No.
1	Battery power supply	K (40 A)
11		10 (10 A)

Is the inspection result normal?

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

2.CHECK POWER SUPPLY CIRCUIT

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

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

Is the inspection result normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	13		Existed

Is the inspection result normal?

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

DOOR SWITCH

Description

INFOID:0000000004393677

Detects door open/close condition.

Component Function Check

INFOID:0000000004393678

1.CHECK FUNCTION

Check (“DOOR SW-DR”, “DOOR SW-AS”, and “DOOR SW-BK”) in Data Monitor mode using CONSULT-III.

Monitor item	Condition		Status
DOOR SW-DR	Driver side door	Open	ON
		Closed	OFF
DOOR SW-AS	Passenger side door	Open	ON
		Closed	OFF
DOOR SW-BK	Back door	Open	ON
		Closed	OFF

Is the inspection result normal?

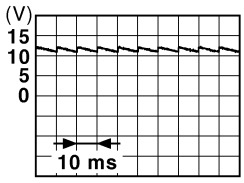
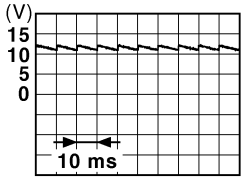
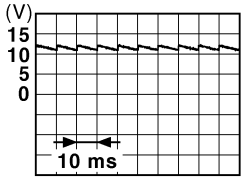
YES >> Door switch is OK.
NO >> Refer to DLK-60, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393679

1.CHECK DOOR SWITCH INPUT SIGNAL

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

(+) Door switch			(–)	Signal (Reference value)
Connector		Terminal		
Driver side	B16	2	Ground	 JPMIA0011GB
Passenger side	B216	2		 JPMIA0011GB
Back door	B66	1		 JPMIA0011GB

Is the inspection result normal?

YES-1 >> Back door: GO TO 3.
YES-2 >> Other doors: GO TO 4.
NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

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

Door switch			BCM		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B16	2	M123	150	Existed
Passenger side	B216			124	
Back door	B66	1	M121	66	

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

Door switch			Ground	Continuity
Connector		Terminal		
Driver side	B16	2		Not existed
Passenger side	B216			
Back door	B66	1		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK BACK DOOR SWITCH GROUND CIRCUIT

Check continuity between back door switch harness connector and ground.

Back door switch		Ground	Continuity
Connector	Terminal		
B66	3		Existed

Is the inspection result normal?

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

4.CHECK DOOR SWITCH

Refer to DLK-61, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO-1 >> Replace malfunctioning door switch. Refer to DLK-233, "Removal and Installation".
NO-2 >> Replace back door switch. Refer to DLK-229, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000004393680

1.CHECK DOOR SWITCH

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

Door switch			Condition		Continuity
Terminal					
Each door	2	Ground part of door switch	Door switch	Pressed	Not existed
				Released	Existed
Back door	1	3		Pressed	Not existed
				Released	Existed

Is the inspection result normal?

YES >> INSPECTION END
NO-1 >> Replace malfunction door switch. Refer to DLK-233, "Removal and Installation".
NO-2 >> Replace back door switch. Refer to DLK-229, "Removal and Installation".

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004393681

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000004393682

1.CHECK FUNCTION

Check (“CDL LOCK SW ”, “CDL UNLOCK SW”) in Data Monitor mode using CONSULT-III.

Monitor item	Condition		Status
CDL LOCK SW	Door lock and unlock switch	Lock	ON
		Unlock	OFF
CDL UNLOCK SW		Lock	OFF
		Unlock	ON

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.
NO >> Refer to DLK-63, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004393683

1.CHECK POWER WINDOW SWITCH

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

Does power window (driver side) operate?

YES >> Replace power window main switch. Refer to PWC-93, "Removal and Installation".
NO >> Refer to PWC-80, "Diagnosis Procedure".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004393684

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000004393685

1.CHECK FUNCTION

Check (“CDL LOCK SW ”, “CDL UNLOCK SW”) in Data Monitor mode with CONSULT-III.

Monitor item	Condition		Status
CDL LOCK SW	Door lock and unlock switch	Lock	ON
		Unlock	OFF
CDL UNLOCK SW		Lock	OFF
		Unlock	ON

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.
NO >> Refer to PWC-81, "WHEN POWER WINDOW SUB-SWITCH IS OPERATED : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004393686

1.CHECK POWER WINDOW SWITCH

1. Turn ignition switch ON.

2. Check passenger side power window operation.

Does power window (passenger side) operate?

YES >> Replace power window sub-switch. Refer to PWC-93, "Removal and Installation".
NO >> Refer to PWC-81, "WHEN POWER WINDOW SUB-SWITCH IS OPERATED : Diagnosis Procedure".

DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004393687

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000004393688

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Door lock actuator is OK.
NO >> Refer to DLK-65, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004393689

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> Replace driver side door lock assembly. Refer to DLK-225, "DOOR LOCK : Removal and Installation".
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	8		Not existed
	9		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".
NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004393690

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000004393691

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Door lock actuator is OK.
NO >> Refer to DLK-66, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004393692

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

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

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

Is the inspection result normal?

YES >> Replace passenger side door lock assembly. Refer to DLK-225, "DOOR LOCK : Removal and Installation".
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	5		Not existed
	8		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".
NO >> Repair or replace harness.

FUEL LID LOCK ACTUATOR

Description

INFOID:0000000004393699

Locks/unlocks the fuel filler lid with the signal from BCM.

Component Function Check

INFOID:0000000004393700

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-67, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393701

1.CHECK FUEL LID LOCK ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Fuel lid lock actuator					
Connector	Terminal				
B242	1	Ground	Door lock and unlock switch	Unlock	0 → Battery voltage → 0
	2			Lock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> Replace fuel lid lock actuator. Refer to DLK-231, "Removal and Installation".
NO >> GO TO 2.

2.CHECK FUEL LID LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and fuel lid lock actuator harness connector.

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	8		Not existed
	9		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".
NO >> Repair or replace harness.

BACK DOOR OPENER ACTUATOR

Description

INFOID:0000000004393702

Opens back door with signal from BCM.

Component Function Check

INFOID:0000000004393703

1.CHECK FUNCTION

1. Use CONSULT-III to perform Active Test (“TRUNK/BACK DOOR”).
2. Touch “OPEN” to check that it works normally.

Is the inspection result normal?

YES >> Back door opener actuator is OK.
NO >> Refer to DLK-68, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393704

1.CHECK BACK DOOR OPENER ACTUATOR INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Back door opener actuator					
Connector	Terminal				
B77	1	Ground	Back door opener switch	Pressed	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER ACTUATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and back door opener actuator harness connector.

BCM		Back door opener actuator		Continuity
Connector	Terminal	Connector	Terminal	
M120	23	B77	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M120	23		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK BACK DOOR OPENER ACTUATOR GROUND CIRCUIT

Check continuity between back door opener actuator harness connector and ground.

Back door opener actuator		Ground	Continuity
Connector	Terminal		
B77	2		Existed

Is the inspection normal?

YES >> Replace back door opener actuator. Refer to DLK-229, "Removal and Installation"
NO >> Repair or replace harness.

DOOR KEY CYLINDER SWITCH

Description

INFOID:0000000004393705

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:0000000004393706

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check (“KEY CYL LK-SW”, “KEY CYL UN-SW”) in “Data Monitor” mode using CONSULT-III.

Monitor item	Condition		Status
KEY CYL LK-SW	Driver side door key cylinder	Lock	ON
		Neutral / Unlock	OFF
KEY CYL UN-SW		Unlock	ON
		Neutral / Lock	OFF

Is the inspection result normal?

YES >> Door key cylinder switch is OK.
NO >> Refer to DLK-70, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393707

1.CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Driver side door lock assembly			
Connector	Terminal		
D15	5	Ground	5
	6		

Is the inspection result normal?

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

2.CHECK DOOR KEY CYLINDER SWITCH SIGNAL CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace power window main switch. Refer to PWC-93, "Removal and Installation".
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		Ground	Continuity
Connector	Terminal		
D15	4		Existed

Is the inspection result normal?

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

4. CHECK DOOR KEY CYLINDER SWITCH

Refer to DLK-71, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace driver side door lock assembly. Refer to DLK-225, "DOOR LOCK : Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000004393708

1. CHECK DOOR KEY CYLINDER SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace driver side door lock assembly. Refer to DLK-225, "DOOR LOCK : Removal and Installation".

REMOTE KEYLESS ENTRY RECEIVER

Description

INFOID:0000000004393709

Receives Intelligent Key operation and transmits to BCM.

Component Function Check

INFOID:0000000004393710

1.CHECK FUNCTION

Check (“RKE OPE COUN1”) in Data Monitor mode using CONSULT-III.

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

Is the inspection result normal?

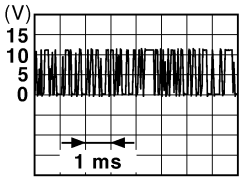
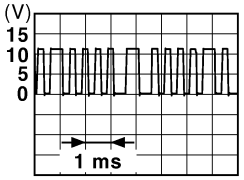
YES >> Remote keyless entry receiver is OK.
NO >> Refer to DLK-72, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393711

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 using oscilloscope.

(+)		(–)	Condition	Signal (Reference value)
Remote keyless entry receiver				
Connector	Terminal			
M104	2	Ground	During waiting	 JMKIA0064GB
			When operating either button on the Intelligent Key	 JMKIA0065GB

Is the inspection result normal?

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

2.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

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

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M122	83		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".
NO >> Repair or replace harness.

3. CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

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

(+)		(–)	Voltage (V) (Approx.)
Remote keyless entry receiver			
Connector	Terminal		
M104	4	Ground	Battery voltage

Is the inspection result normal?

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

4. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2

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

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M122	103		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".
NO >> Repair or replace harness.

5. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 3

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

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	137		Existed

Is the inspection result normal?

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

6. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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

BCM		Ground	Continuity
Connector	Terminal		
M123	137		Existed

Is the inspection result normal?

YES >> Replace remote keyless entry receiver. Refer to DLK-239, "Removal and Installation".
NO >> Replace BCM. Refer to BCS-84, "Removal and Installation".

BACK DOOR OPENER SWITCH

Description

INFOID:0000000004393712

Outputs back door open signal to BCM.

Component Function Check

INFOID:0000000004393713

1.CHECK FUNCTION

Check (“TR/BD OPEN SW”) in Data Monitor mode using CONSULT-III.

Monitor item	Condition		Status
TR/BD OPEN SW	Back door opener switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

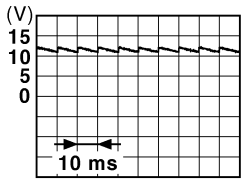
YES >> Back door opener switch is OK.
NO >> Refer to DLK-75, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393714

1.CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL

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

(+)		(–)	Signal (Reference value)
Back door opener switch assembly			
Connector	Terminal		
B154	1	Ground	

JPMIA0011GB

Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

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

BCM		Back door opener switch assembly		Continuity
Connector	Terminal	Connector	Terminal	
M121	67	B154	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M121	67		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

Check continuity between back door opener switch assembly harness connector and ground.

Back door opener switch assembly		Ground	Continuity
Connector	Terminal		
B154	4		Existed

Is the inspection result normal?

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

4.CHECK BACK DOOR OPENER SWITCH

Refer to DLK-76, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace back door opener switch assembly. Refer to DLK-234, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000004393715

1.CHECK BACK DOOR OPENER SWITCH

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

Back door opener switch assembly		Condition		Continuity
Terminal				
1	4	Back door opener switch	Pressed	Existed
			Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace back door opener switch assembly. Refer to DLK-234, "Removal and Installation".

DOOR REQUEST SWITCH

Description

INFOID:0000000004393716

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:0000000004393717

1.CHECK FUNCTION

Check (“REQ SW -DR” or “REQ SW -AS”) in Data Monitor mode using CONSULT-III.

Monitor item	Condition		Status
REQ SW -DR	Driver side door request switch	Pressed	ON
		Released	OFF
REQ SW -AS	Passenger side door request switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

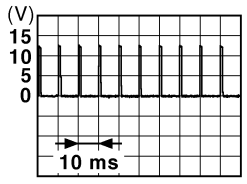
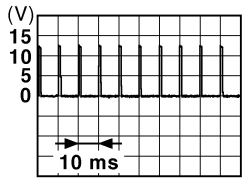
YES >> Door request switch is OK.
NO >> Refer to DLK-77, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393718

1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

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

(+)			(–)	Signal (Reference value)
Door request switch				
Connector		Terminal		
Driver side	D13	1	Ground	 JPMIA0016GB
Passenger side	D43	2		 JPMIA0016GB

Is the inspection result normal?

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

2.CHECK DOOR REQUEST SWITCH CIRCUIT

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

Door request switch			BCM		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	D13	1	M122	101	Existed
Passenger side	D43	2		100	

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

Door request switch			Ground	Continuity
Connector		Terminal		
Driver side	D13	1		Not existed
Passenger side	D43	2		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

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

Door request switch			Ground	Continuity
Connector		Terminal		
Driver side	D13	2		Existed
Passenger side	D43	1		

Is the inspection result normal?

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

4.CHECK DOOR REQUEST SWITCH

Refer to DLK-78, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace malfunctioning door request switch (outside handle). Refer to DLK-227, "OUTSIDE HANDLE : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000004393719

1.CHECK DOOR REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door request switch connector.
3. Check continuity between malfunctioning door request switch terminals.

Door request switch		Condition		Continuity
Terminal				
1	2	Door request switch	Pressed	Existed
			Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace malfunctioning door request switch (outside handle). Refer to DLK-227, "OUTSIDE HANDLE : Removal and Installation".

BACK DOOR REQUEST SWITCH

Description

INFOID:0000000004393720

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:0000000004393721

1.CHECK FUNCTION

Check (“REQ SW -BD/TR ”) in Data Monitor mode using CONSULT-III.

Monitor item	Condition		Status
REQ SW -BD/TR	Back door request switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

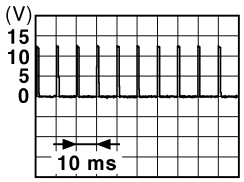
YES >> Back door request switch is OK.
NO >> Refer to DLK-79, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393722

1.CHECK BACK DOOR REQUEST SWITCH INPUT SIGNAL

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

(+)		(–)	Signal (Reference value)
Back door opener switch assembly			
Connector	Terminal		
B154	2	Ground	

JPMIA0016GB

Is the inspection result normal?

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

2.CHECK BACK DOOR REQUEST SWITCH CIRCUIT

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

BCM		Back door opener switch assembly		Continuity
Connector	Terminal	Connector	Terminal	
M121	61	B154	2	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M121	61		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK BACK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between back door request switch assembly harness connector and ground.

Back door opener switch assembly		Ground	Continuity
Connector	Terminal		
B154	3		Existed

Is the inspection result normal?

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

4.CHECK BACK DOOR REQUEST SWITCH

Refer to DLK-80, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace back door opener switch assembly. Refer to DLK-234, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000004393723

1.CHECK BACK DOOR REQUEST SWITCH

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

Back door opener switch assembly		Condition		Continuity
Terminal				
2	3	Back door request switch	Pressed	Existed
			Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace back door opener switch assembly. Refer to DLK-234, "Removal and Installation".

UNLOCK SENSOR

Description

INFOID:0000000004393724

Detects door lock condition of driver door.

Component Function Check

INFOID:0000000004393725

1.CHECK FUNCTION

Check (“UNLK SEN -DR”) in Data Monitor mode using CONSULT-III.

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

Is the inspection result normal?

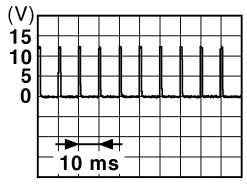
YES >> Unlock sensor is OK.
NO >> Refer to DLK-81, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393726

1.CHECK UNLOCK SENSOR INPUT SIGNAL

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

(+)		(–)	Signal (Reference value)
Driver side door lock assembly			
Connector	Terminal		
D15	3	Ground	

JPMIA0012GB

Is the inspection result normal?

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

2.CHECK UNLOCK SENSOR CIRCUIT

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

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	119		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK UNLOCK SENSOR GROUND CIRCUIT

Check continuity between driver side assembly harness connector and ground.

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

Is the inspection result normal?

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

4.CHECK UNLOCK SENSOR

Refer to DLK-82, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace driver side door lock assembly. Refer to DLK-225, "DOOR LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000004393727

1.CHECK UNLOCK SENSOR

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace driver side door lock assembly. Refer to DLK-225, "DOOR LOCK : Removal and Installation".

OUTSIDE KEY ANTENNA

Description

INFOID:0000000004393728

- Detects whether Intelligent Key is outside the vehicle.
- Integrated in rear pillar finisher (LH, RH) and installed in rear bumper.

Component Function Check

INFOID:0000000004393729

1.CHECK DOOR REQUEST SWITCH

Check door request switch.
- Back door request switch: Refer to DLK-79, "Component Function Check".
- Other door request switches: Refer to DLK-77, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.
NO-1 >> Check back door request switch. Refer to DLK-79, "Diagnosis Procedure".
NO-2 >> Check other door request switches. Refer to DLK-77, "Diagnosis Procedure".

2.CHECK FUNCTION

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

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

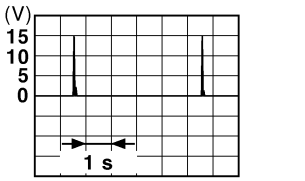
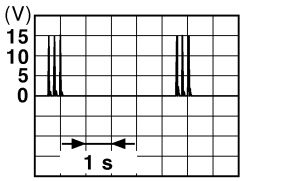
YES >> Outside key antenna is OK.
NO >> Refer to DLK-83, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393730

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+) BCM Connector		(+) BCM Terminal	(–)	Condition		Signal (Reference value)
LH	M122	76, 77	Ground	Door request switch is pressed.	When Intelligent Key is in the antenna detection area.	 JMKIA0062GB
RH		74, 75				
Rear bumper	M121	38, 39			When Intelligent Key is not in the antenna detection area.	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation"
NO >> GO TO 2.

2.CHECK OUTSIDE KEY ANTENNA CIRCUIT

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

Outside key antenna			BCM		Continuity
Connector		Terminal	Connector	Terminal	
LH	B36	1	M122	77	Existed
		2		76	
RH	B209	1		75	
		2		74	
Rear bumper	B54	1	M121	39	
		2		38	

3. Check continuity between malfunctioning outside key antenna harness connector and ground.

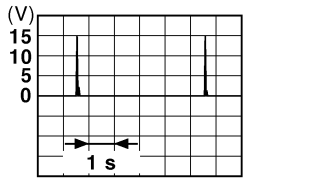
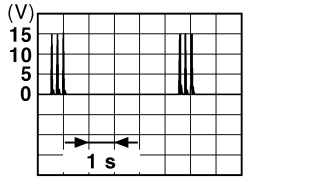
Outside key antenna			Ground	Continuity
Connector		Terminal		
LH	B36	1	Ground	Not existed
		2		
RH	B209	1		
		2		
Rear bumper	B54	1		
		2		

Is the inspection result normal?

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

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+)			(–)	Condition		Signal (Reference value)
BCM						
Connector		Terminal				
LH	M122	76, 77	Ground	Door request switch is pressed	When Intelligent Key is in the antenna detection area.	 JMKIA0062GB
RH		74, 75				
Rear bumper	M121	38, 39			When Intelligent Key is not in the antenna detection area.	 JMKIA0063GB

Is the inspection result normal?

YES-1 >> Replace malfunctioning outside key antenna (LH or RH). Refer to DLK-236, "LH : Removal and Installation".
YES-2 >> Replace outside key antenna (rear bumper). Refer to DLK-237, "BACK DOOR : Removal and Installation".

NO >> Replace BCM. Refer to BCS-84, "Removal and Installation".

INTELLIGENT KEY WARNING BUZZER

Description

INFOID:0000000004393731

Answers back and warns for an inappropriate operation.

Component Function Check

INFOID:0000000004393732

1.CHECK FUNCTION

1. Use CONSULT-III to perform Active Test (“OUTSIDE BUZZER”).
2. Touch “ON” to check that it works normally.

Is the inspection result normal?

YES >> Intelligent Key warning buzzer is OK.
NO >> Refer to DLK-86, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393733

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10 A fuse, [No.6, located in fuse block (J/B)].

Is the inspection result normal?

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

2.CHECK INTELLIGENT KEY WARNING BUZZER POWER SUPPLY CIRCUIT

1. Disconnect Intelligent Key warning buzzer connector.
2. Check voltage between Intelligent Key warning buzzer harness connector and ground.

(+)		(–)	Voltage (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 harness.

3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT

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

BCM		Intelligent Key warning buzzer		Continuity
Connector	Terminal	Connector	Terminal	
M121	64	E57	3	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M121	64		Not existed

Is the inspection result normal?

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

4.CHECK INTELLIGENT KEY WARNING BUZZER

Refer to DLK-87, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".
NO >> Replace Intelligent Key warning buzzer. Refer to DLK-238, "Removal and Installation".

Component Inspection

INFOID:0000000004679005

1. CHECK INTELLIGENT KEY WARNING BUZZER

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace Intelligent Key warning buzzer. Refer to DLK-238, "Removal and Installation".

INTELLIGENT KEY

Description

INFOID:0000000004393735

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

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

Component Function Check

INFOID:0000000004393736

1.CHECK FUNCTION

Check (“RKE OPE COUN1”) in Data Monitor mode using 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?

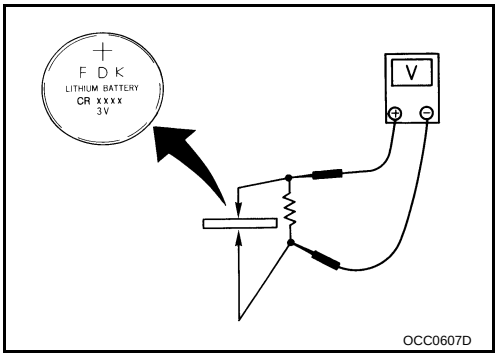
YES >> Intelligent Key is OK.
NO >> Refer to DLK-88, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393737

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-88, "Component Inspection".

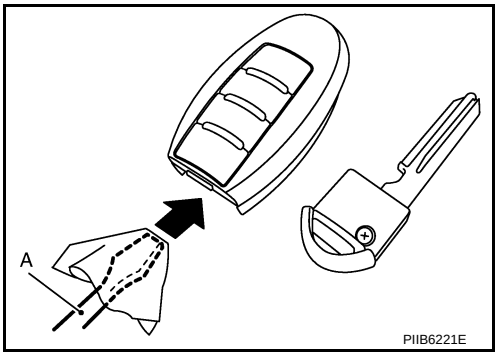
Component Inspection

INFOID:0000000004393738

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.**

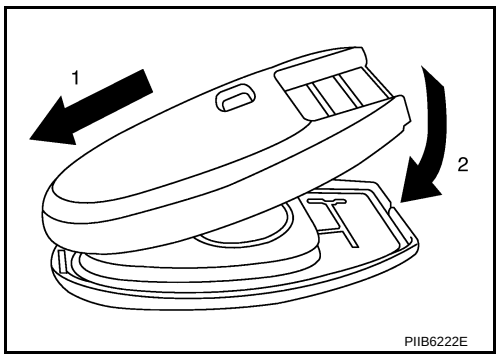


3. Replace the battery with new one.

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-72, "Component Function Check".

Special Repair Requirement

INFOID:0000000004393739

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

KEY SLOT

Description

INFOID:0000000004393740

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

Component Function Check

INFOID:0000000004393741

1.CHECK FUNCTION

Check (“KEY SW -SLOT”) in Data Monitor mode using CONSULT-III.

Monitor item	Condition		Status
KEY SW-SLOT	Intelligent Key	Inserted in key slot	ON
		Removed from key slot	OFF

Is the inspection result normal?

YES >> Key slot is OK.
NO >> Refer to DLK-90, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393742

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10 A fuse, [No.9, located in fuse block (J/B)].

Is the inspection result normal?

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

2.CHECK KEY SLOT POWER SUPPLY CIRCUIT

1. Disconnect key slot connector.
2. Check voltage between key slot harness connector and ground.

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

Is the inspection result normal?

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

3.CHECK KEY SLOT CIRCUIT

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

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	121		Not existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK KEY SLOT

Refer to DLK-91, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".
NO >> Replace key slot. Refer to SEC-207, "Removal and Installation".

Component Inspection

INFOID:0000000004393743

1.CHECK KEY SLOT

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

Key slot		Condition		Continuity
Terminal				
1	11	Intelligent Key	Inserted in key slot	Existed
			Removed in key slot	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace key slot. Refer to SEC-207, "Removal and Installation".

KEY SLOT INDICATOR

Description

INFOID:0000000004393744

Blinks when Intelligent Key insertion is required.

Component Function Check

INFOID:0000000004393745

1.CHECK FUNCTION

1. Use CONSULT-III to perform Active Test (“KEY SLOT ILLUMI”).
2. Touch “ON” to check that it works normally.

Is the inspection result normal?

YES >> Key slot is OK.
NO >> Refer to DLK-92, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393746

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10 A fuse, [No. 6, located in fuse block (J/B)].

Is the inspection result normal?

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

2.CHECK KEY SLOT POWER SUPPLY CIRCUIT

1. Disconnect key slot connector.
2. Check voltage between key slot harness connector and ground.

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

Is the inspection result normal?

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

3.CHECK KEY SLOT CIRCUIT

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

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M122	92		Not existed

Is the inspection result normal?

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

4.CHECK KEY SLOT

Refer to DLK-93, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-84, "Removal and Installation".
NO >> Replace key slot. Refer to SEC-207, "Removal and Installation".

Component Inspection

INFOID:0000000004679009

1. CHECK KEY SLOT INDICATOR

1. Turn ignition switch OFF.
2. Disconnect key slot connector.
3. Connect battery power supply directly to key slot terminals and check the operation.

Key slot		Operation
Terminal		
(+)	(–)	
5	6	Key slot illuminates

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace key slot. Refer to SEC-207, "Removal and Installation".

HORN FUNCTION

Description

INFOID:0000000004393748

Performs answer-back for each operation with horn.

Component Function Check

INFOID:0000000004393749

1.CHECK FUNCTION

1. Use CONSULT-III to perform Active Test (“HORN”).
2. Touch “ON” to check that it works normally.

Is the operation normal?

YES >> Horn function is OK.
NO >> Refer to DLK-94, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393750

1.CHECK HORN SWITCH

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 malfunctioning horn relay harness connector and ground.

(+)			(–)	Test item		Voltage (V) (Approx.)
Horn relay						
Connector		Terminal				
Low	E11	1	Ground	HORN	ON	Battery voltage → 0 → Battery voltage
High	E18	3			Other than above	Battery voltage

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 connector and horn relay connector.
3. Check continuity between IPDM E/R harness connector and malfunctioning horn relay harness connector.

IPDM E/R		Horn relay		Continuity
Connector	Terminal	Connector	Terminal	
E6	44	E11	1	Existed
	45	E18	3	

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E6	44		Not existed
	45		

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to PCS-33, "Removal and Installation".

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

Is the inspection result normal?

>> INSPECTION END

COMBINATION METER DISPLAY FUNCTION

Description

INFOID:0000000004393751

Displays each operation method guide and warning for system malfunction.

Component Function Check

INFOID:0000000004393752

1.CHECK FUNCTION

Use CONSULT-III to perform Active Test (“LCD”).

Is each warning displayed on meter display?

Is the inspection result normal?

YES >> Combination meter display function is OK.
NO >> Refer to DLK-96, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393753

1.CHECK COMBINATION METER

Check combination meter.
Refer to MWI-71, "DTC Index".

Is the inspection result normal?

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

2.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

BUZZER (COMBINATION METER)

Description

INFOID:0000000004393754

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:0000000004393755

1.CHECK FUNCTION

1. Use CONSULT-III to perform Active Test (“INSIDE BUZZER”).
2. Touch “TAKE OUT”, “KNOB”or “KEY” to check that it works normally.

Is the inspection result normal?

Yes >> Warning buzzer into combination meter is OK.
No >> Refer to DLK-97, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393756

1.CHECK METER BUZZER CIRCUIT

Check meter buzzer circuit.
Refer to WCS-20, "Component Function Check".

Is the inspection result normal?

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

2.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

KEY WARNING LAMP

Description

INFOID:0000000004393757

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:0000000004393758

1.CHECK FUNCTION

1. Use CONSULT-III to perform Active Test (“INDICATOR”).
2. Touch “KEY IND” or “KEY ON” to check that it works normally.

Is the inspection result normal?

YES >> Key warning lamp is OK.
NO >> Refer to DLK-98, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393759

1.CHECK KEY WARNING LAMP

Check key warning lamp.
Refer to MWI-4, "Work flow".

Is the inspection result normal?

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

2.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

HAZARD FUNCTION

Description

INFOID:0000000004393760

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

Component Function Check

INFOID:0000000004393761

1.CHECK FUNCTION

1. Use CONSULT-III to perform Active Test (“FLASHER”).
2. Touch “LH” or “RH” to check that it works normally.

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.
NO >> Refer to DLK-99, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000004393762

1.CHECK HAZARD SWITCH CIRCUIT

Check hazard switch circuit
Refer to EXL-82, "Wiring Diagram - TURN SIGNAL AND HAZARD WARNING LAMPS -".

Is the inspection result normal?

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

2.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

INTEGRATED HOMELINK TRANSMITTER

Description

INFOID:0000000004393763

- 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:0000000004393764

1.CHECK FUNCTION

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

Is the inspection result normal?

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

2.CHECK ILLUMINATE

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Refer to DLK-100, "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-17, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000004393765

1.CHECK POWER SUPPLY

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Auto anti-dazzling inside mirror (Integrated homelink transmitter)					
Connector	Terminal				
R6	10	Ground	Ignition switch position	OFF	Battery voltage
				ON	

Is the inspection result normal?

YES >> GO TO 2.
NO-1 >> Check 10 A fuse [No. 6 located in the fuse block (J/B)].
NO-2 >> 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)		Ground	Continuity
Connector	Terminal		
R6	8		Existed

Is the inspection result normal?

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

3. CHECK INTERMITTENT INCIDENT

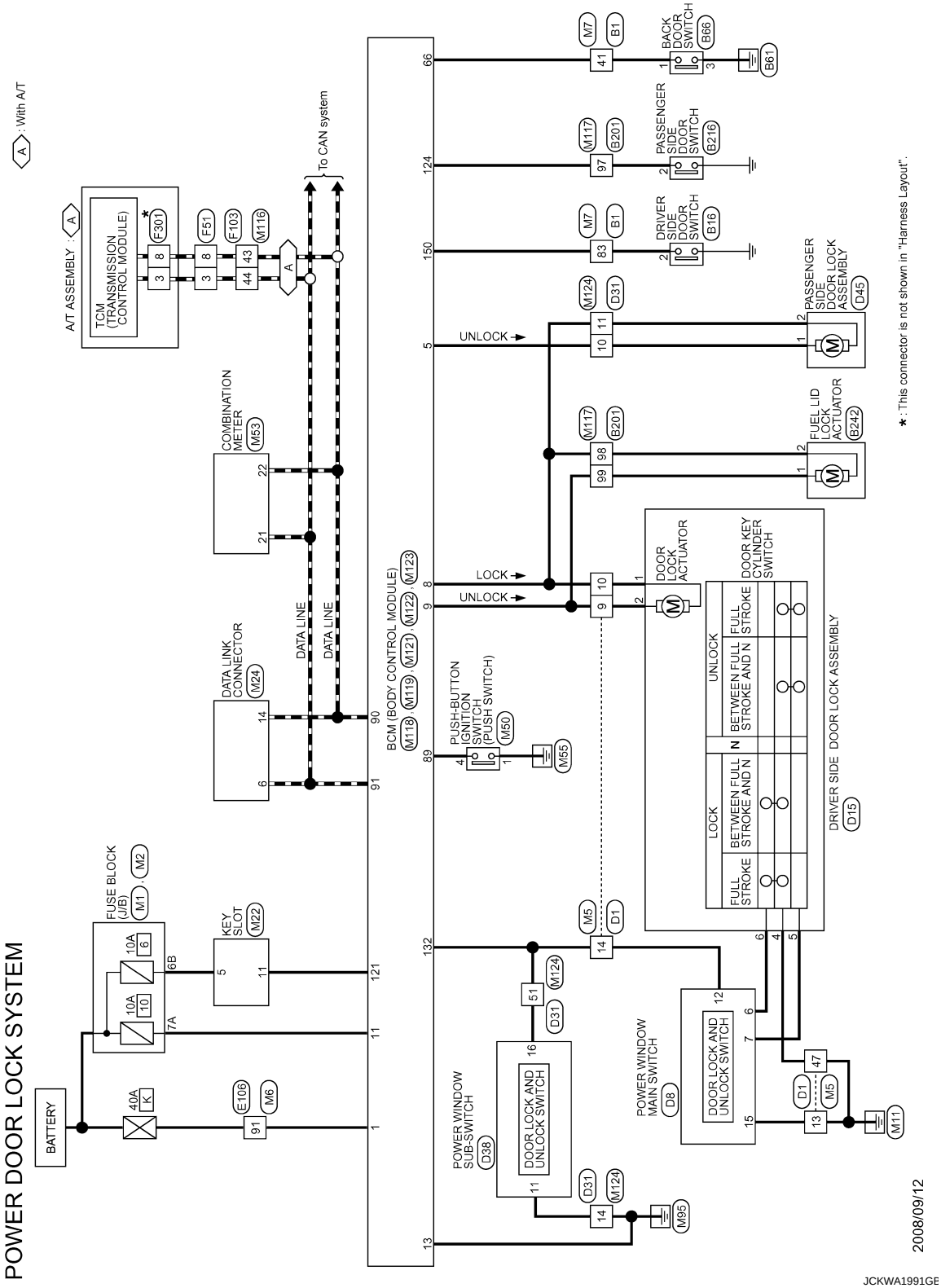
Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

POWER DOOR LOCK SYSTEM

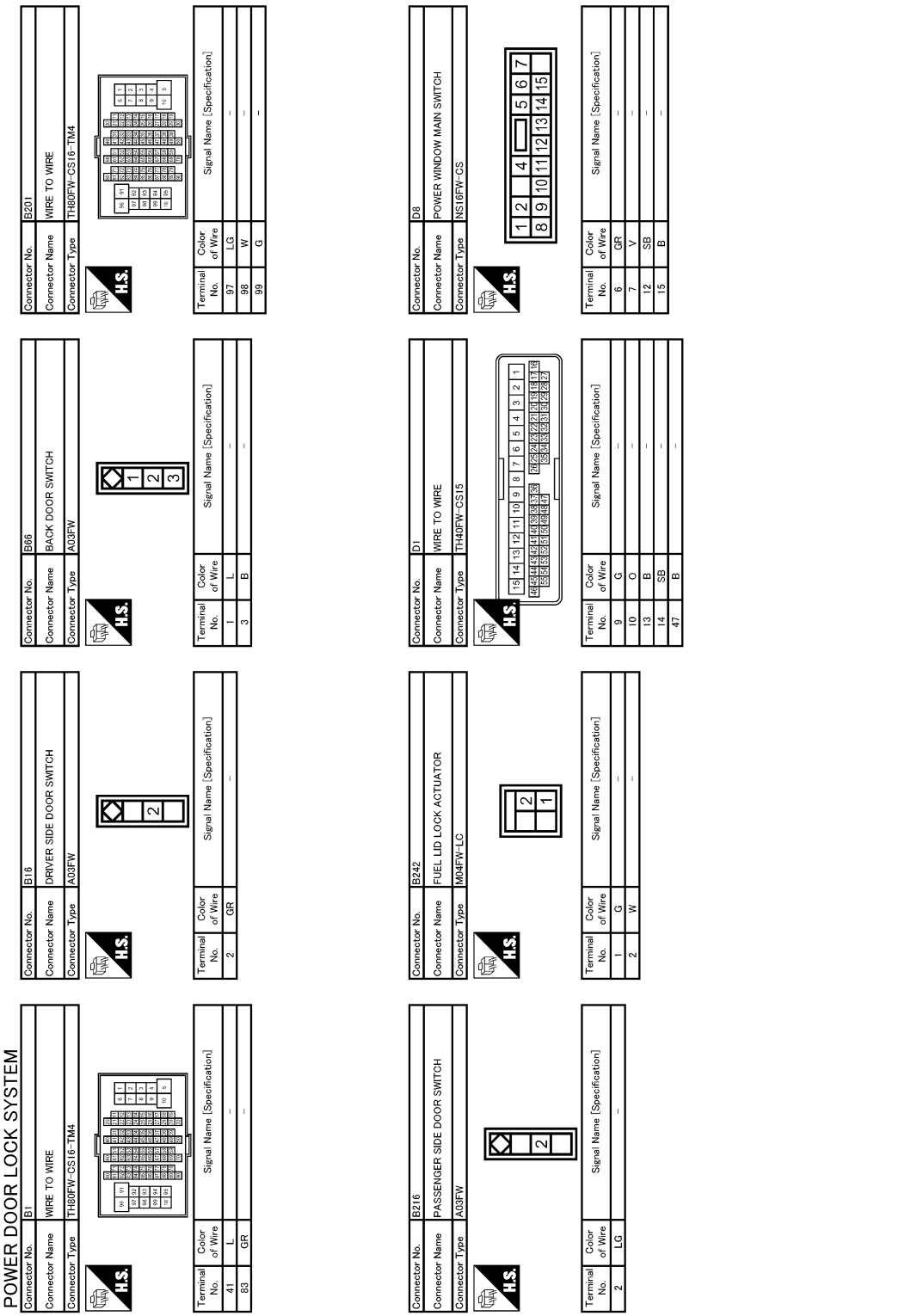
Wiring Diagram - POWER DOOR LOCK SYSTEM -

INFOID:0000000004393766



★: This connector is not shown in "Harness Layout".

POWER DOOR LOCK SYSTEM



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POWER DOOR LOCK SYSTEM

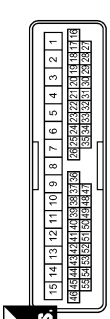
Connector No.	D15
Connector Name	DRIVER SIDE DOOR LOCK ASSEMBLY
Connector Type	E06FGY-RS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–
2	G	–
4	B	–
5	V	–
6	GR	–

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

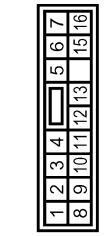
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
10	V	–
11	LG	–
14	B	–
51	Y	–

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

H.S.



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

H.S.

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

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

H.S.

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

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	L	–
8	P	–

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
43	P	–
44	L	–

Connector No.	F301
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FG

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	R	CAN-H
8	BR	CAN-L

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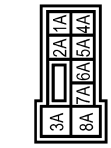
POWER DOOR LOCK SYSTEM

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

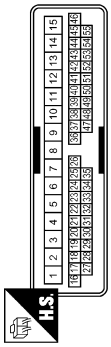


Terminal No.	Color of Wire	Signal Name [Specification]
7A	BR	–

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.	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	Y	–
47	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.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
41	R	–
83	GR	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
5	Y	ILL BAT
11	R	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	B	–
4	BR	–

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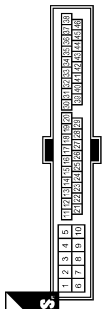
POWER DOOR LOCK SYSTEM

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH24FW-NH

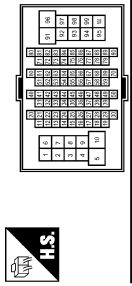
Terminal No.	Color of Wire	Signal Name [Specification]
21	L	CAN-H
22	P	CAN-L

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10



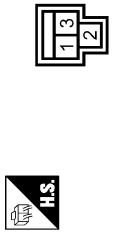
Terminal No.	Color of Wire	Signal Name [Specification]
43	P	–
44	L	–

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



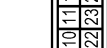
Terminal No.	Color of Wire	Signal Name [Specification]
97	LG	–
98	V	–
99	G	–

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	G	PASSENGER DOOR UNLOCK OUTPUT
8	V	ALL DOOR, FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR, FUEL LID UNLOCK OUTPUT
11	BR	BAT (FUSE)
13	B	GND

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

Terminal No.	Color of Wire	Signal Name [Specification]
66	R	BACK DOOR SW

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

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
121	R	KEY SLOT SW
124	LG	PASSENGER DOOR SW
132	Y	POWER WINDOW SW COMM
150	GR	DRIVER DOOR SW

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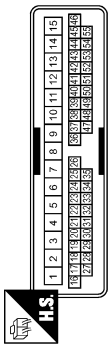
POWER DOOR LOCK SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
10	G	–
11	V	–
14	B	–
51	Y	–

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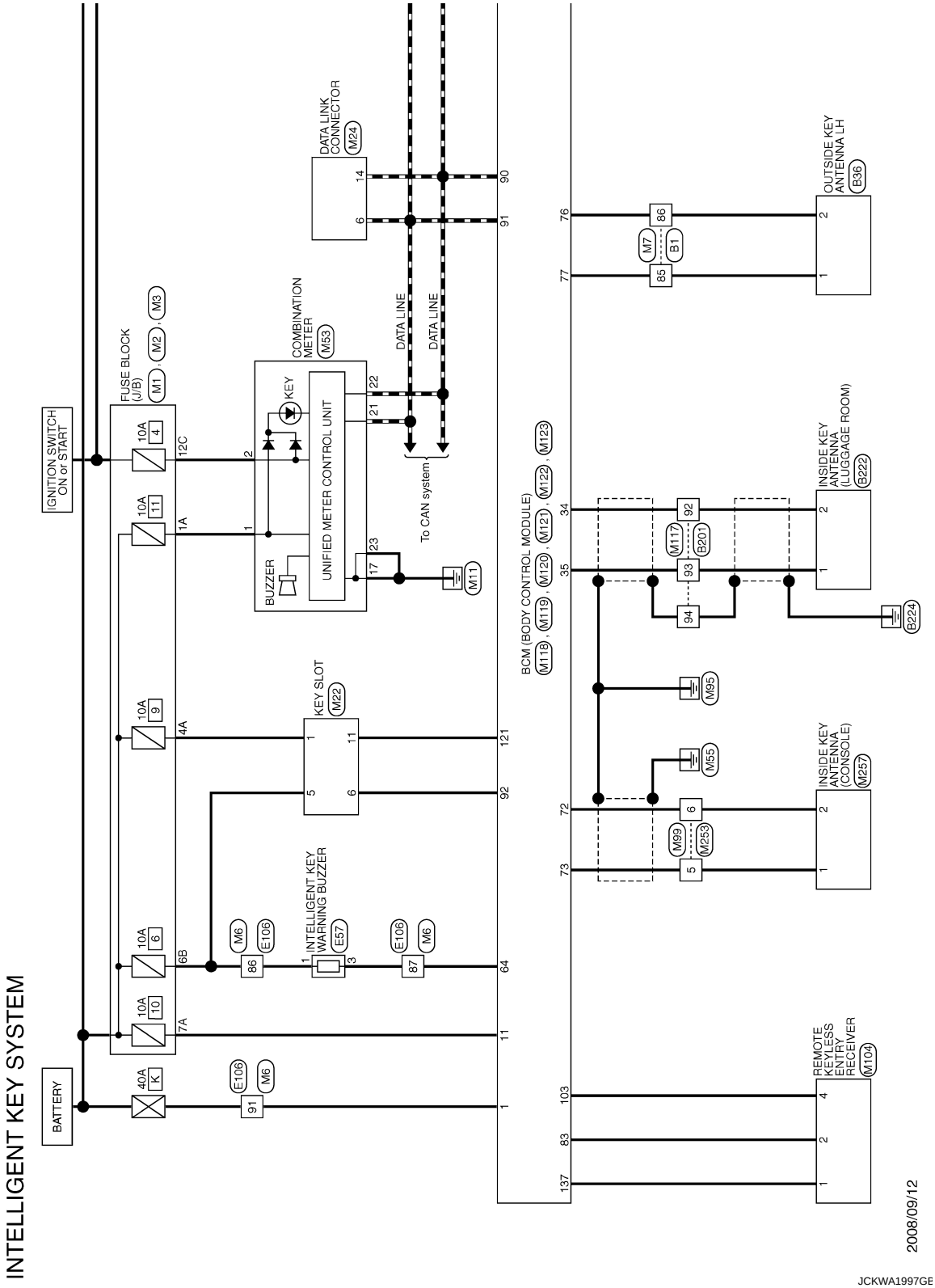
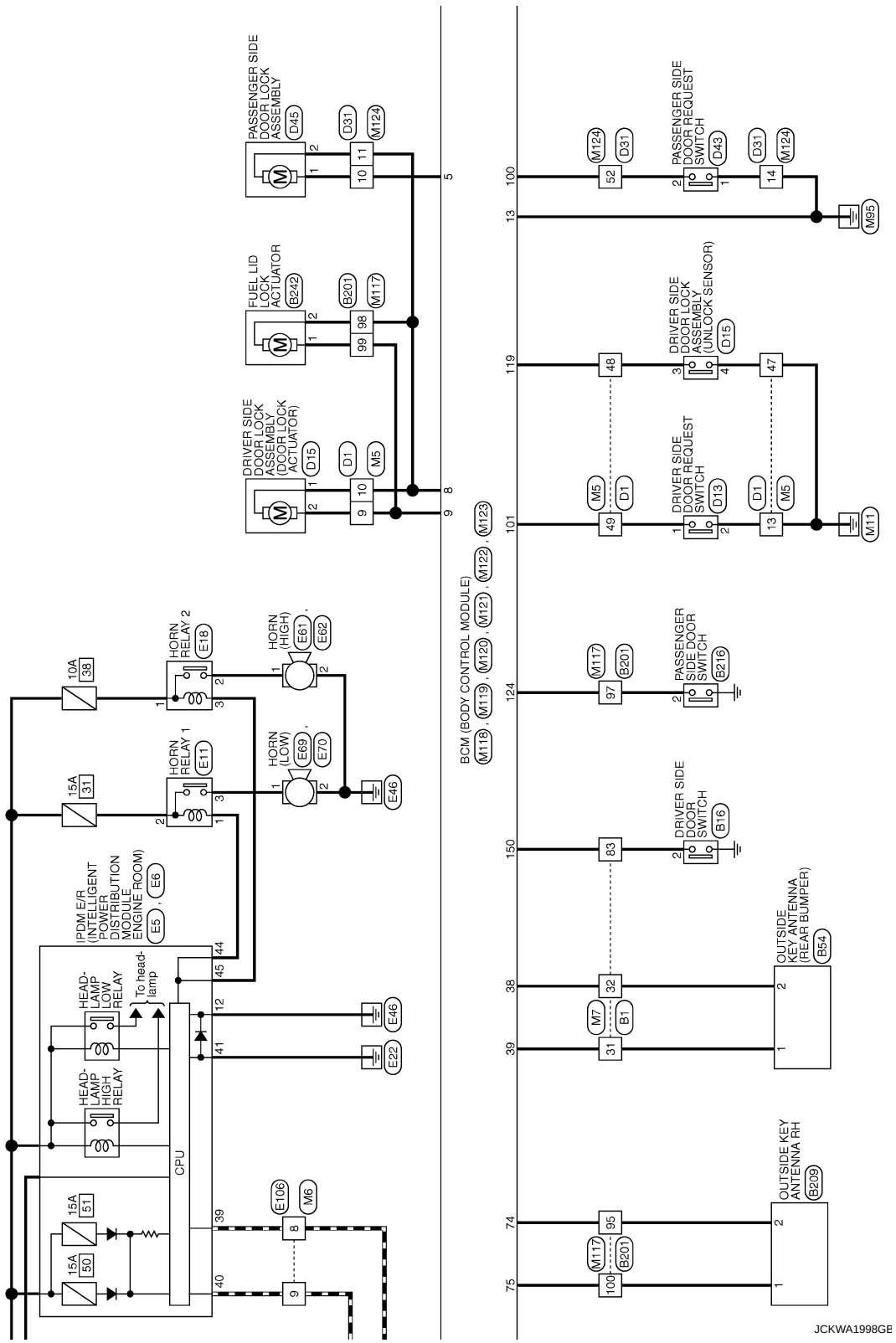
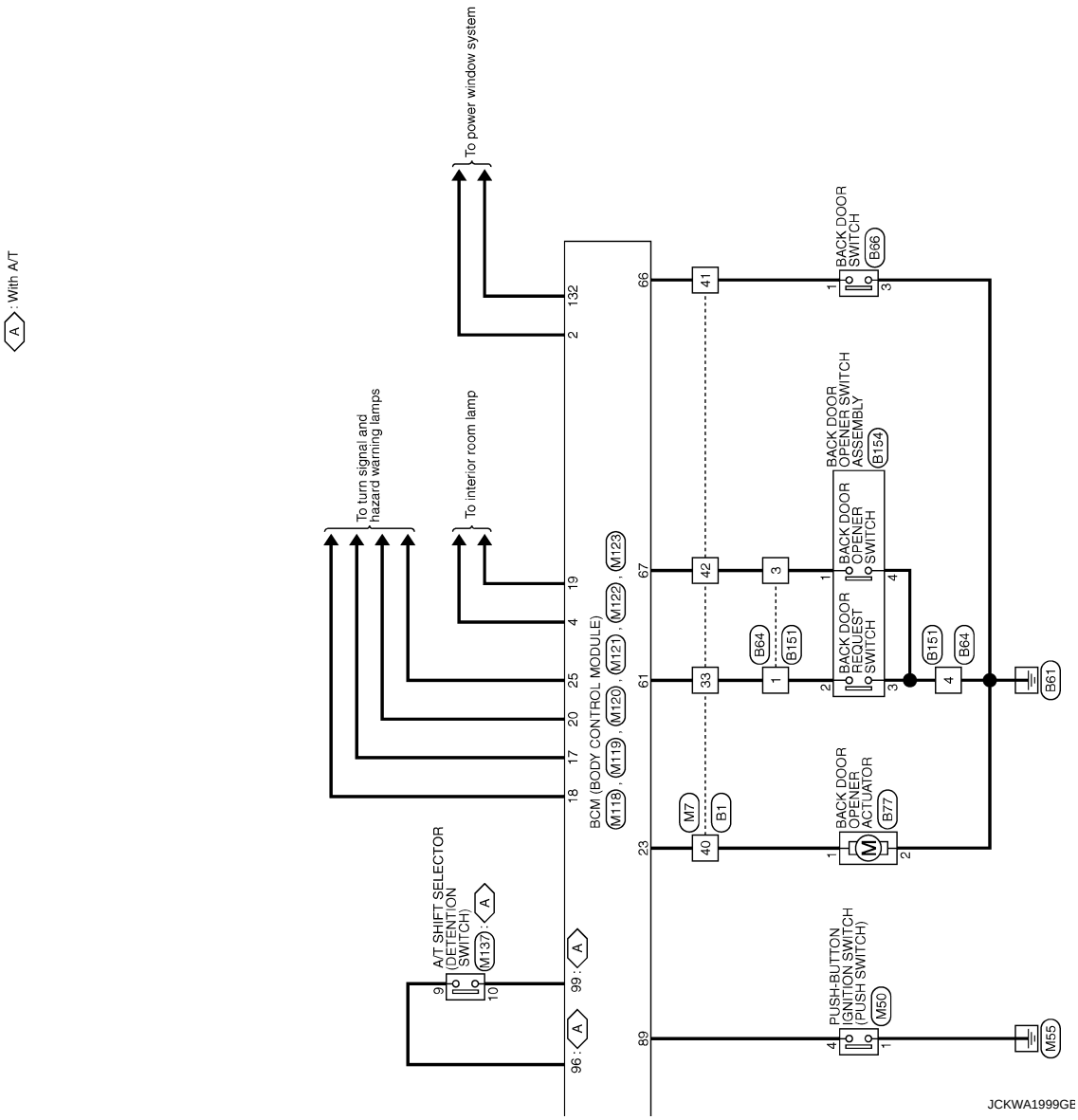
INTELLIGENT KEY SYSTEM

Wiring Diagram - INTELLIGENT KEY SYSTEM -

INFOID:0000000004393767




PASSENGER SIDE DOOR LOCK ASSEMBLY D45
FUEL LID LOCK ACTUATOR B242
DRIVER SIDE DOOR LOCK ASSEMBLY (DOOR LOCK ACTUATOR) D15
HORN RELAY 2 E18
HORN RELAY 1 E11
HORN (HIGH) E61, E62
HORN (LOW) E69, E70
10A 38
15A 31
15A 51
15A 50
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) E5, E6
HEAD-LAMP LOW RELAY
HEAD-LAMP HIGH RELAY
To head-lamp
CPU
BCM (BODY CONTROL MODULE) M118, M119, M120, M121, M122, M123
PASSENGER SIDE DOOR REQUEST SWITCH D43
DRIVER SIDE DOOR LOCK ASSEMBLY (UNLOCK SENSOR) D15
DRIVER SIDE DOOR REQUEST SWITCH D13
PASSENGER SIDE DOOR SWITCH E216
DRIVER SIDE DOOR SWITCH B16
OUTSIDE KEY ANTENNA (REAR BUMPER) B54
OUTSIDE KEY ANTENNA RH B209
M95
M11
JCKWA1998GE


A: With A/T
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)
A/T SHIFT SELECTOR (DETENTION SWITCH)
(M137): A
BACK DOOR SWITCH
B66
BACK DOOR OPENER SWITCH ASSEMBLY
B154
BACK DOOR OPENER SWITCH
BACK DOOR REQUEST SWITCH
BACK DOOR OPENER ACTUATOR
B77
PUSH-BUTTON IGNITION SWITCH (PUSH SWITCH)
M50
M55
B61
B64
B151
M7
B1
JCKWA1999GE

INTELLIGENT KEY SYSTEM

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

Terminal No.	Color of Wire	Signal Name [Specification]
31	W	–
32	B	–
33	P	–
40	Y	–
41	L	–
42	GR	–
83	GR	–
85	LG	–
86	V	–

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

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

Connector No.	B36
Connector Name	OUTSIDE KEY ANTENNA LH
Connector Type	RK02MGY

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

Connector No.	B54
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY

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

Connector No.	B64
Connector Name	WIRE TO WIRE
Connector Type	RS04FB-PR

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

Connector No.	B66
Connector Name	BACK DOOR SWITCH
Connector Type	A03FW

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

Connector No.	B77
Connector Name	BACK DOOR OPENER ACTUATOR
Connector Type	M04FW-LC

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

Connector No.	B151
Connector Name	WIRE TO WIRE
Connector Type	RS04MB

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
3	GR	–
4	B	–

JCKWA2000GB

INTELLIGENT KEY SYSTEM

Connector No.	B154
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	RH04FB

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
92	SB	–
93	V	–
94	SHIELD	–
95	GR	–
97	LG	–
98	W	–
99	G	–
100	BR	–

Connector No.	B209
Connector Name	OUTSIDE KEY ANTENNA RH
Connector Type	RK02MGY

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

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

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

Connector No.	B222
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	RK02FGY

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

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

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
9	G	–
10	O	–
13	B	–
47	B	–
48	SB	–
49	W	–

Connector No.	D13
Connector Name	DRIVER SIDE DOOR REQUEST SWITCH
Connector Type	RK02FL

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

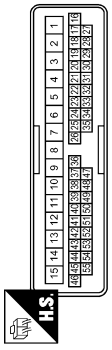
JCKWA2001GE

INTELLIGENT KEY SYSTEM

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

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

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



Terminal No.	Color of Wire	Signal Name [Specification]
10	V	–
11	LG	–
14	B	–
52	G	–

Connector No.	D43
Connector Name	PASSENGER SIDE DOOR REQUEST SWITCH
Connector Type	RK02FL

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

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

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

Connector No.	E5
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-1V

Terminal No.	Color of Wire	Signal Name [Specification]
12	B/W	–

Connector No.	E6
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH08FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
39	P	–
40	L	–
41	B/W	–
44	W	–
45	G	–

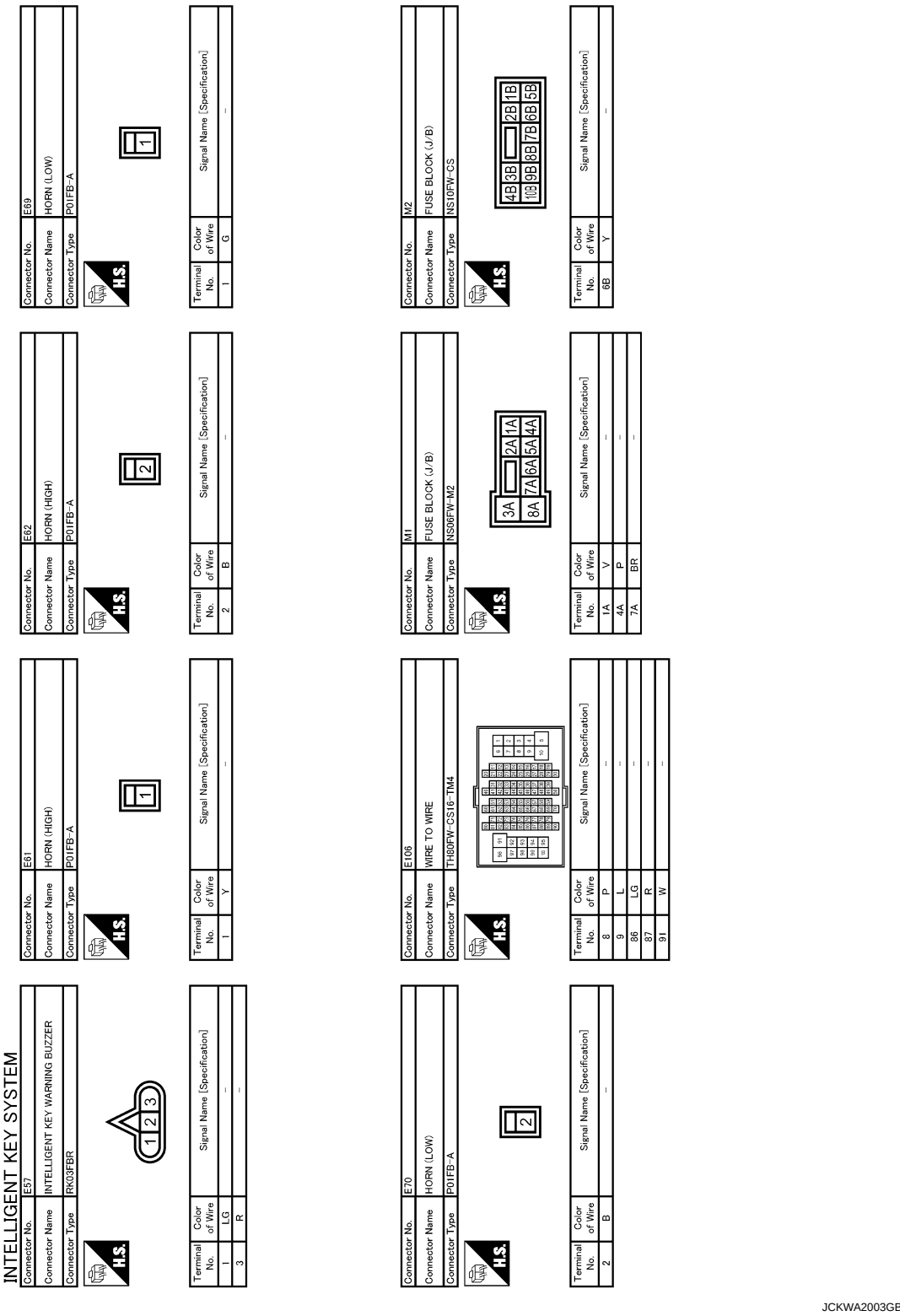
Connector No.	E11
Connector Name	HORN RELAY 1
Connector Type	24381 7990A

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

Connector No.	E18
Connector Name	HORN RELAY 2
Connector Type	M03FW-R-LC

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

JCKWA2002GB



JCKWA2003GE

INTELLIGENT KEY SYSTEM

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

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

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	–
47	B	–
48	SB	–
49	Y	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
8	P	–
9	L	–
86	Y	–
87	G	–
91	W	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
31	W	–
32	B	–
33	W	–
40	L	–
41	R	–
42	GR	–
83	GR	–
85	LG	–
86	V	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	BAT
5	Y	ILL BAT
6	LG	ILL
11	R	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	B	–
4	BR	–

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	O	IGNITION SIGNAL
17	B	GROUND
21	L	CAN-H
22	P	CAN-L
23	B	GROUND

JCKWA2004GB

INTELLIGENT KEY SYSTEM

Connector No.	M99
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH

H.S.

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

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

H.S.

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

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	–
93	R	–
94	SHIELD	–
95	SB	–
97	LG	–
98	V	–
99	G	–
100	BR	–

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)
2	W	POWER WINDOW POWER SUPPLY(BAT)

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
8	V	ALL DOOR, FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR, FUEL LID UNLOCK OUTPUT
11	BR	BAT (FUSE)
13	B	GND
17	W	TURN SIGNAL RH (FRONT, SIDE)
18	O	TURN SIGNAL LH (FRONT, SIDE)
19	V	ROOM LAMP TIMER CONT

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
20	V	TURN SIGNAL RH (REAR)
23	L	BACK DOOR OPEN OUTPUT
25	LG	TURN SIGNAL LH (REAR)

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
34	G	LUGGAGE ROOM ANT–
35	R	LUGGAGE ROOM ANT+
38	B	BACK DOOR ANT–
39	W	BACK DOOR ANT+
61	W	BACK DOOR OPENER REQUEST SW
64	G	I-KEY WARN BUZZER (ENG ROOM)
66	R	BACK DOOR SW
67	GR	BACK DOOR OPENER SW

JCKWA2005GE

INTELLIGENT KEY SYSTEM

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

Terminal No.	Color of Wire	Signal Name [Specification]
72	L	ROOM ANT–
73	P	ROOM ANT+
74	SB	PASSENGER DOOR ANT–
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT–
77	LG	DRIVER DOOR ANT+
83	GR	KEYLESS ENTRY RECEIVER COMM
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL

Connector No.	M137
Connector Name	A/T SHIFT SELECTOR
Connector Type	TK10FW

Terminal No.	Color of Wire	Signal Name [Specification]
9	Y	–
10	R	–

96	Y	A/T SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P [With A/T]
100	GR	PASSENGER DOOR REQUEST SW
101	Y	DRIVER DOOR REQUEST SW
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY

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

Terminal No.	Color of Wire	Signal Name [Specification]
119	SB	DR DOOR UNLOCK SENSOR
121	R	KEY SLOT SW
124	LG	PASSENGER DOOR SW
132	Y	POWER WINDOW SW COMM
137	P	RECEIVER/SENSOR GND
150	GR	DRIVER DOOR SW

Connector No.	M253
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
5	G	–
6	R	–

Connector No.	M257
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	RK02FGY

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

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

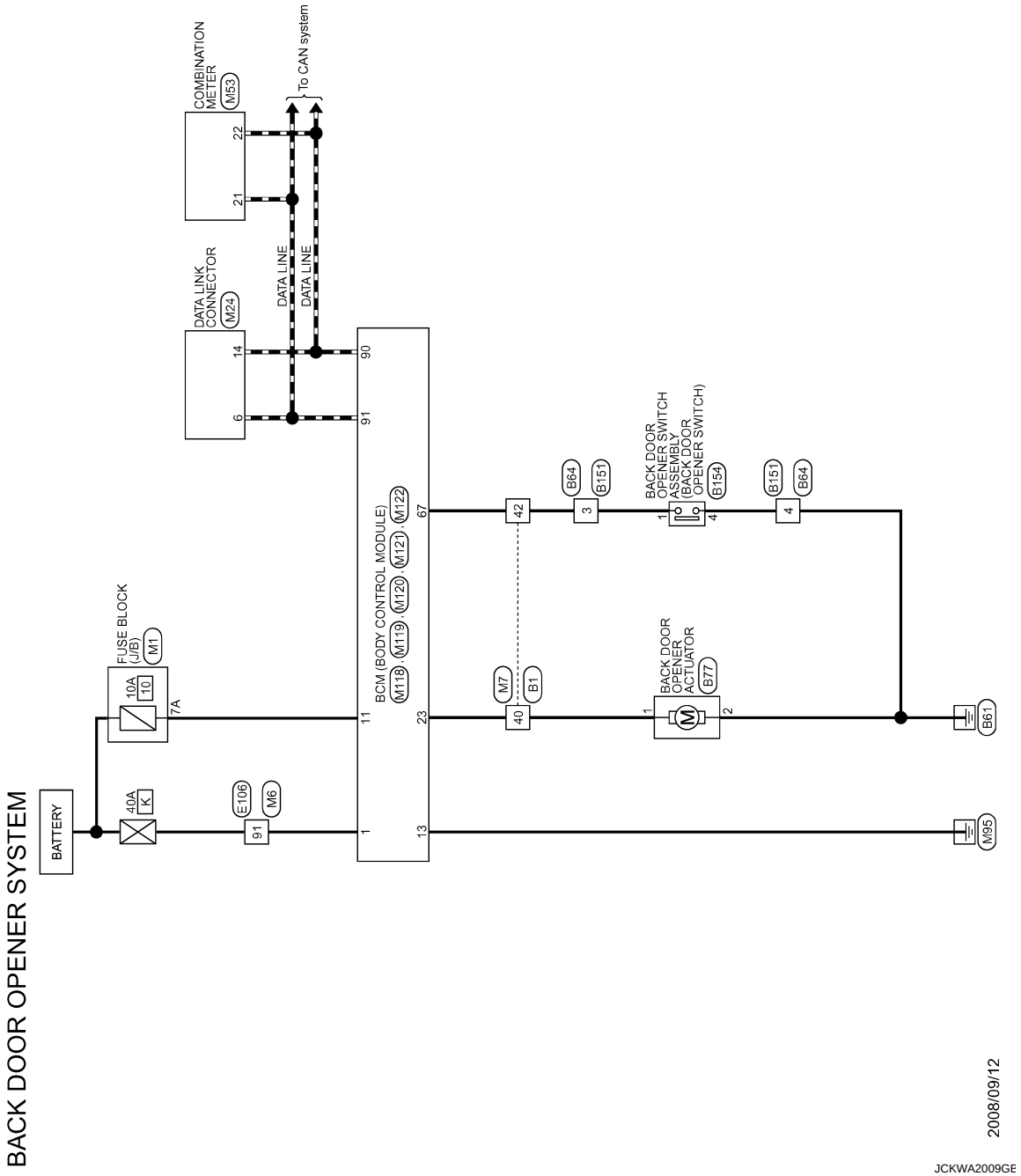
Terminal No.	Color of Wire	Signal Name [Specification]
10	G	–
11	V	–
14	B	–
52	GR	–

JCKWA2006GB

BACK DOOR OPENER SYSTEM

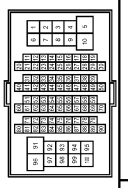
Wiring Diagram - BACK DOOR OPENER -

INFOID:0000000004749425



BACK DOOR OPENER SYSTEM

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



Terminal No.	Color of Wire	Signal Name [Specification]
40	Y	–
42	GR	–

Connector No.	B64
Connector Name	WIRE TO WIRE
Connector Type	RS04FB-PR

Terminal No.	Color of Wire	Signal Name [Specification]
3	GR	–
4	B	–

Connector No.	B77
Connector Name	BACK DOOR OPENER ACTUATOR
Connector Type	M04FW-LC

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

Connector No.	B151
Connector Name	WIRE TO WIRE
Connector Type	RS04MB

Terminal No.	Color of Wire	Signal Name [Specification]
3	GR	–
4	B	–

Connector No.	B154
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	RH04FB

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

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	BR	–

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

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

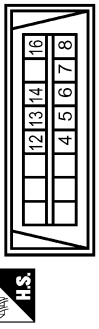
JCKWA2010GB

BACK DOOR OPENER SYSTEM

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

Terminal No.	Color of Wire	Signal Name [Specification]
40	L	–
42	GR	–

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



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

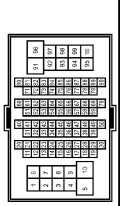
Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH24FW-NH

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

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]
11	BR	BAT (FUSE)
13	B	GND

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

Terminal No.	Color of Wire	Signal Name [Specification]
23	L	BACK DOOR OPEN OUTPUT

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

Terminal No.	Color of Wire	Signal Name [Specification]
67	GR	BACK DOOR OPENER SW

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

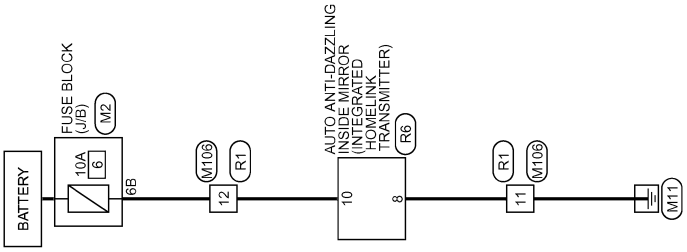
Terminal No.	Color of Wire	Signal Name [Specification]
90	P	CAN-L
91	L	CAN-H

JCKWA2011GB

INTEGRATED HOMELINK TRANSMITTER SYSTEM

Wiring Diagram - INTEGRATED HOMELINK TRANSMITTER SYSTEM -

INFOID:0000000004393768



INTEGRATED HOMELINK TRANSMITTER

2008/09/12

JCKWA2007GE

INTEGRATED HOMELINK TRANSMITTER

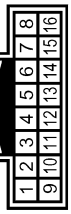
Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS

H.S.

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

Connector No.	M106
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH

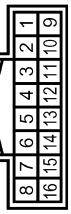
H.S.



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

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

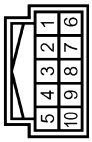
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
11	B/W	–
12	B/R	–

Connector No.	R6
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH10FB-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
8	B/W	–
10	B/Y	–

JCKWA2008GE

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000004780939

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	**NOTE:** The item is indicated, but not monitored.	Off
RR FOG SW	Rear fog lamp switch OFF	Off
	Rear fog lamp switch ON	On
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

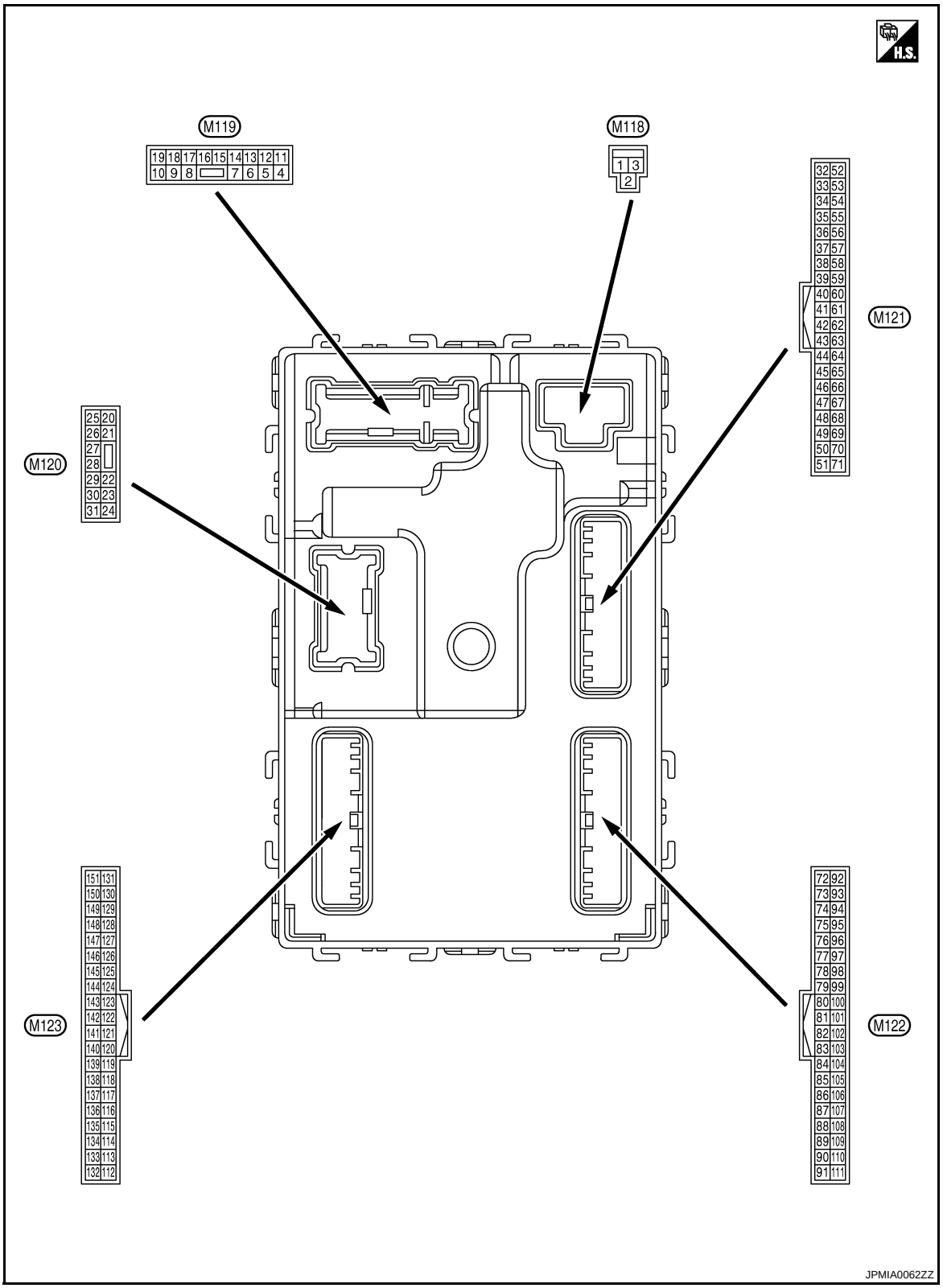
Monitor Item	Condition	Value/Status
DOOR SW-RL	**NOTE:** The item is indicated, but not monitored.	Off
DOOR SW-BK	Back door closed	Off
	Back door opened	On
CDL LOCK SW	Other than door lock and unlock switch LOCK	Off
	Door lock and unlock switch LOCK	On
CDL UNLOCK SW	Other than door lock and unlock switch UNLOCK	Off
	Door lock and unlock 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 OFF	Off
	Hazard switch is ON	On
REAR DEF SW **NOTE:** At models with NAVI this item is not monitored.	Rear window defogger switch OFF	Off
	Rear window defogger switch ON	On
H/L WASH SW	**NOTE:** The item is indicated, but not monitored.	Off
TR CANCEL SW	**NOTE:** The item is indicated, but not monitored.	Off
TR/BD OPEN SW	Back door opener switch OFF	Off
	While the back door opener switch is turned ON	On
TRNK/HAT MNTR	**NOTE:** The item is indicated, but not monitored.	Off
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	**NOTE:** The item is indicated, but not monitored.	Off
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed and held	On
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the 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

Monitor Item	Condition	Value/Status
REQ SW -RR	**NOTE:** The item is indicated, but not monitored.	Off
REQ SW -RL	**NOTE:** The item is indicated, but not monitored.	Off
REQ SW -BD/TR	Back door request switch is not pressed	Off
	Back door request switch is pressed	On
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	**NOTE:** The item is indicated, but not monitored.	Off
CLUCH SW **NOTE:** At A/T models this item is not monitored.	The clutch pedal is not depressed	Off
	The clutch pedal is depressed	On
BRAKE SW 1	Stop lamp switch 1 signal circuit is open	Off
	Stop lamp switch 1 signal circuit is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
	The brake pedal is depressed	On
DETE/CANCL SW **NOTE:** At M/T models with SynchroRev Match mode this item is not monitored.	• Selector lever in P position (A/T models) • The clutch pedal is depressed (M/T models without SynchroRev Match mode)	Off
	• Selector lever in any position other than P (A/T models) • The clutch pedal is not depressed (M/T models without SynchroRev Match mode)	On
SFT PN/N SW **NOTE:** At M/T models without SynchroRev Match mode this item is not monitored.	• Selector lever in any position other than P and N (A/T models) • Control lever in any position other than neutral position (M/T models with SynchroRev Match mode)	Off
	• Selector lever in P or N position (A/T models) • Control lever in neutral position (M/T models with SynchroRev Match mode)	On
S/L -LOCK	Steering is unlocked	Off
	Steering is locked	On
S/L -UNLOCK	Steering is locked	Off
	Steering is unlocked	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 any position other than P	Off
	Selector lever in P position	On

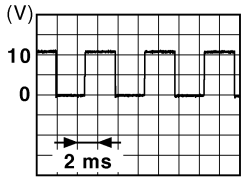
Monitor Item	Condition	Value/Status
SFT PN -IPDM	• Selector lever in any position other than P and N (A/T models) • The clutch pedal is not depressed (M/T models)	Off
	• Selector lever in P or N position (A/T models) • The clutch pedal is depressed (M/T models)	On
SFT P -MET	Selector lever in any position 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 unlocked	Off
	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
	Steering is unlocked	On
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speedometer reading
VEH SPEED 2	While driving	Equivalent to speedometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
DOOR STAT-AS	Passenger door is locked	LOCK
	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Steering is locked	Reset
	Steering is unlocked	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	The Intelligent Key is not inserted into key slot	Off
	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	**NOTE:** The item is indicated, but not monitored.	—
CONFRM ID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done

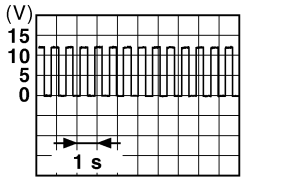
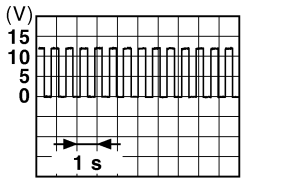
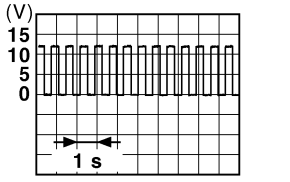
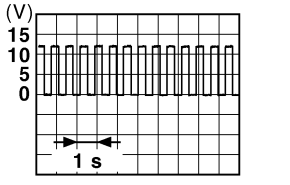
Monitor Item	Condition	Value/Status
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by 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
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	Done
	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
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

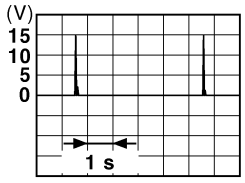
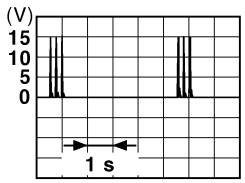
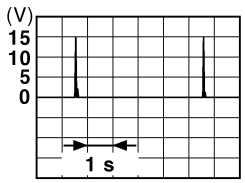
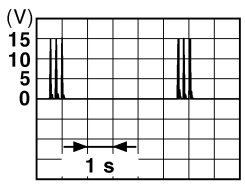
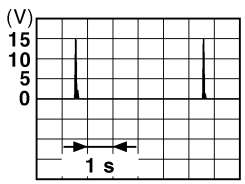
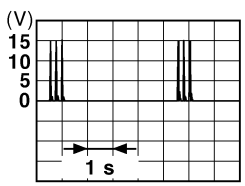
TERMINAL LAYOUT

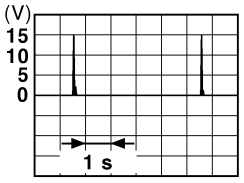
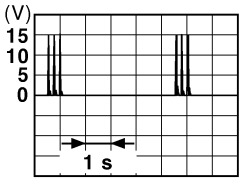
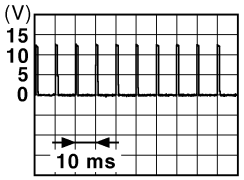
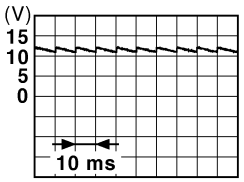


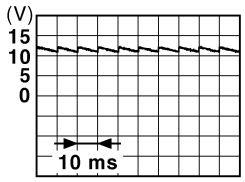
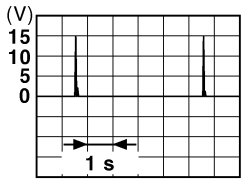
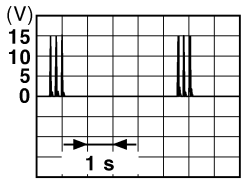
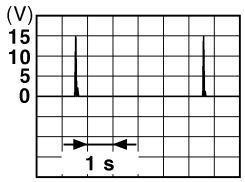
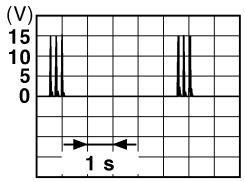
PHYSICAL VALUES

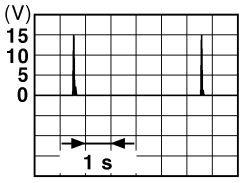
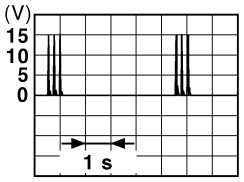
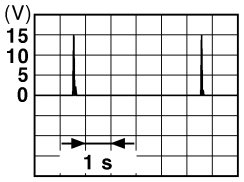
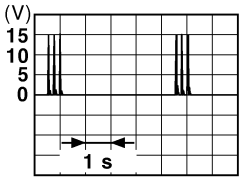
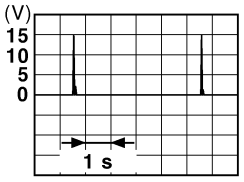
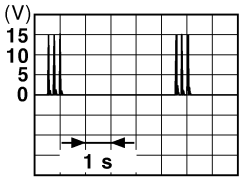
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	–					
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (W)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		12 V
3 (Y)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		12 V
4 (R)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		12 V
5 (G)	Ground	Passenger door UNLOCK	Output	Passenger door	UNLOCK (Actuator is activated)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	12 V
					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)	12 V
					Other than UNLOCK (Actuator is not activated)	0 V
11 (BR)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
14 (R)	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 (Y)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ACC	0 V

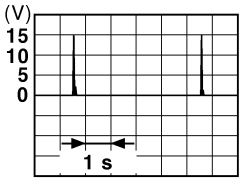
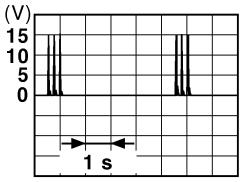
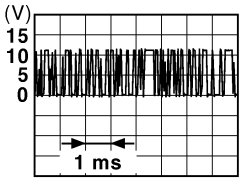
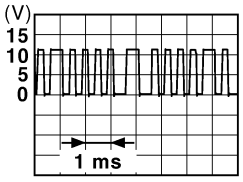
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
17 (W)	Ground	Turn signal RH (Front and side)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V
18 (O)	Ground	Turn signal LH (Front and side)	Output	Ignition 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	12 V
					ON	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V
23 (L)	Ground	Back door open	Output	Back door	OPEN (Back door opener actuator is activated)	12 V
					Other than OPEN (Back door opener actuator is not activated)	0 V
24*1 (O)	Ground	Rear fog lamp	Output	Rear fog lamp	OFF	0 V
					ON	12 V
25 (LG)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch LH	 PKID0926E 6.5 V
30 (R)	Ground	Luggage room lamp	Output	Luggage room lamp	ON	0 V
					OFF	12 V

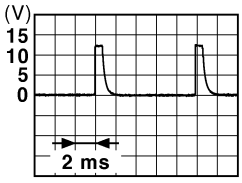
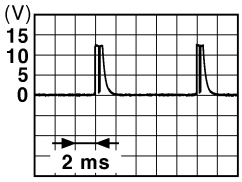
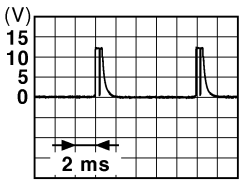
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
34 (G)	Ground	Luggage room antenna (–)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
35 (R)	Ground	Luggage room antenna (+)	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 back 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

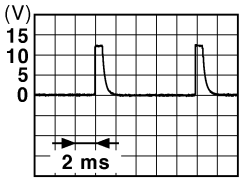
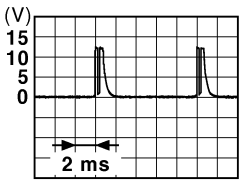
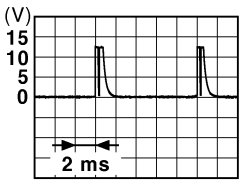
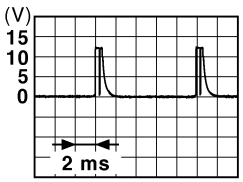
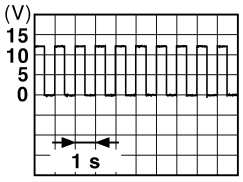
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
39 (W)	Ground	Rear bumper antenna (+)	Output	When the back door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
47 (V)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	OFF or ACC	12 V
					ON	0 V
52 (SB)	Ground	Starter relay control	Output	Ignition switch ON (A/T models)	When selector lever is in P or N position	12 V
					When selector lever is not in P or N position	0 V
				Ignition switch ON (M/T models)	When the clutch pedal is depressed	Battery voltage
					When the clutch pedal is not depressed	0 V
61 (W)	Ground	Back door request switch	Input	Back door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
64 (G)	Ground	Intelligent Key warning buzzer	Output	Intelligent Key warning buzzer	Sounding	0 V
					Not sounding	12 V
66 (R)	Ground	Back door switch	Input	Back door switch	OFF (Door close)	 JPMIA0011GB 11.8 V
					ON (Door open)	0 V

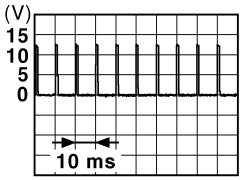
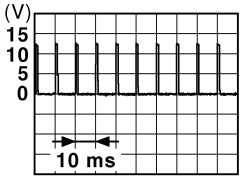
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
67 (GR)	Ground	Back door opener switch	Input	Back door opener switch	Pressed	0 V
					Not pressed	 JPMIA0011GB 11.8 V
72 (L)	Ground	Room antenna (–) (Center console)	Output	Ignition switch OFF	When Intelligent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

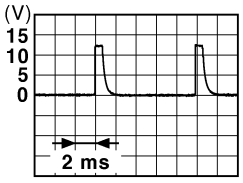
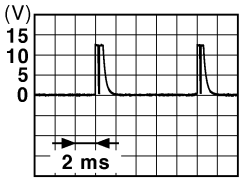
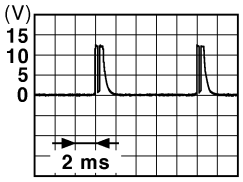
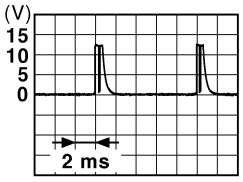
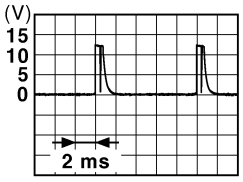
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
74 (SB)	Ground	Passenger door antenna (–)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When 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

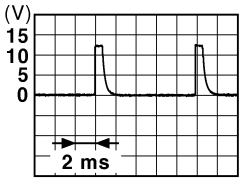
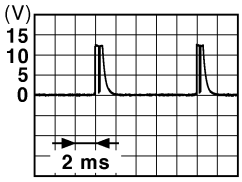
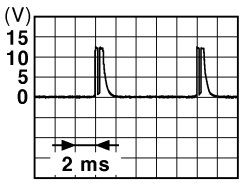
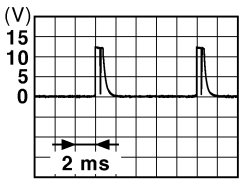
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
77 (LG)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
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	12 V
83 (GR)	Ground	Remote keyless entry receiver communication	Input/ Output	During waiting		 JMKIA0064GB
				When operating either button on the Intelligent Key		 JMKIA0065GB

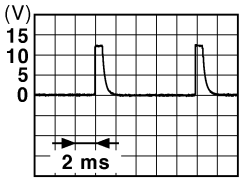
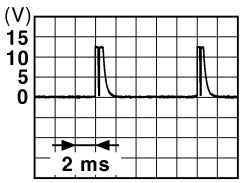
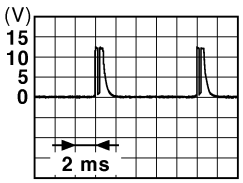
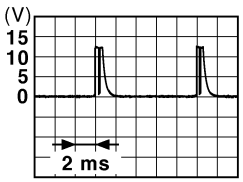
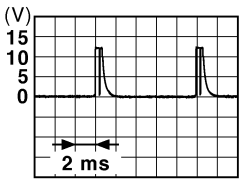
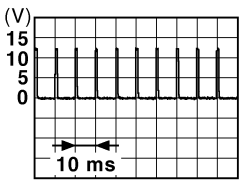
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
					Rear fog lamp switch ON (Wiper intermittent dial 4)	 JPMIA0038GB 1.3 V
					Any of the conditions below with all switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7	 JPMIA0040GB 1.3 V

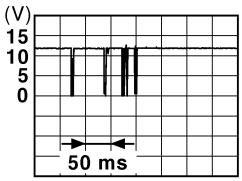
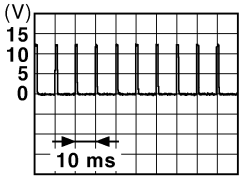
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
					Lighting switch HI (Wiper intermittent dial 4)	 JPMIA0036GB 1.3 V
					Lighting switch 2ND (Wiper intermittent dial 4)	 JPMIA0037GB 1.3 V
					Any of the conditions below with all switches 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	12 V

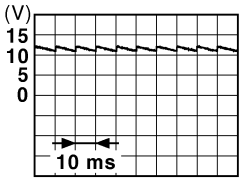
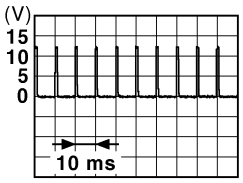
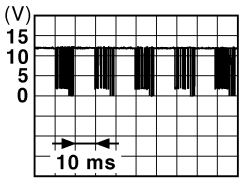
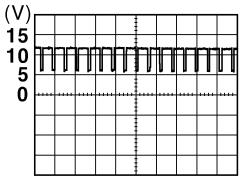
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON	0 V
95 (O)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	12 V
96*2 (Y)	Ground	A/T shift selector (Detention switch) power supply	Output	—		12 V
97 (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status	0 V
					UNLOCK status	12 V
98 (P)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	12 V
					UNLOCK status	0 V
99*3 (R)*2 (BR)*4	Ground	Selector lever P position switch (A/T models)	Input	Selector lever	P position	0 V
					Any position other than P	12 V
		Clutch pedal position switch (M/T models without SynchroRev Match mode)		Clutch pedal position switch	OFF (Clutch pedal is depressed)	0 V
					ON (Clutch pedal is not depressed)	Battery voltage
100 (GR)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
101 (Y)	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	12 V
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		12 V
106 (W)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	12 V
					ON	0 V

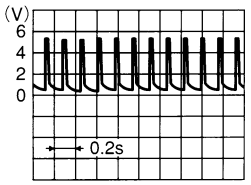
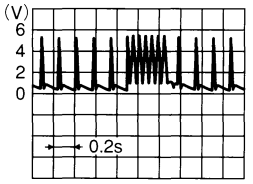
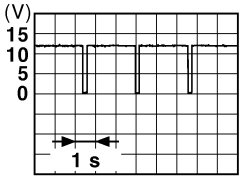
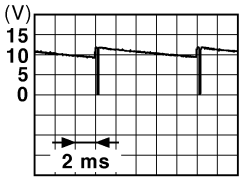
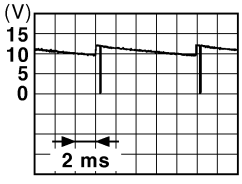
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switches OFF	 JPMIA0041GB 1.4 V
					Turn signal switch LH	 JPMIA0037GB 1.3 V
					Turn signal switch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

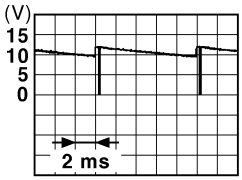
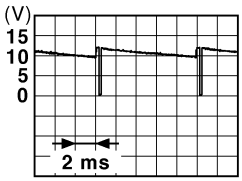
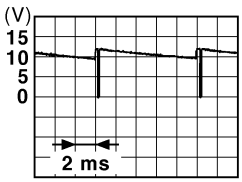
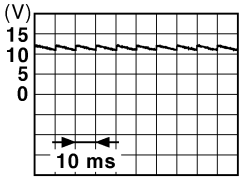
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
					Lighting switch AUTO (Wiper intermittent dial 4)	 JPMIA0038GB 1.3 V
					Lighting switch 1ST (Wiper intermittent dial 4)	 JPMIA0036GB 1.3 V
					Any of the conditions below with all switches 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 (Y)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	All switches 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 (P)	Ground	Hazard switch	Input	Hazard switch	ON	0 V
					OFF	 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	12 V
					LOCK or UNLOCK	 JMKIA0066GB
					For 15 seconds after UNLOCK	12 V
					15 seconds or later after UNLOCK	0 V
113 (O)	Ground	Optical sensor	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*5 (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 (P)	Ground	Stop lamp switch 2	Input	Stop lamp switch	OFF (Brake pedal is not depressed)	0 V
					ON (Brake pedal is depressed)	Battery voltage
119 (SB)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	 JPMIA0012GB 1.1 V
					UNLOCK status (Unlock switch sensor ON)	0 V
121 (R)	Ground	Key slot switch	Input	When the Intelligent Key is inserted into key slot		12 V
				When the Intelligent Key is not inserted into key slot		0 V
123 (W)	Ground	IGN feedback	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 (Door close)	 JPMIA0011GB 11.8 V
					ON (Door open)	0 V
130*6 (L)	Ground	Rear window defogger switch	Input	Ignition switch ON	Rear window defogger switch OFF	 JPMIA0012GB 1.1 V
					Rear window defogger switch ON	0 V
132 (Y)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		 JPMIA0013GB 10.2 V
				Ignition switch OFF or ACC		12 V
133 (G)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (Tail lamps OFF)	9.5 V
					ON (Tail lamps ON)	**NOTE:** The pulse width of this wave is varied by the illumination brightening/dimming level.  JPMIA0159GB
					OFF	0 V
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF	Battery voltage
					ON	0 V
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138 (V)	Ground	Receiver and sensor power supply	Output	Ignition switch	OFF	0 V
					ACC or ON	5.0 V

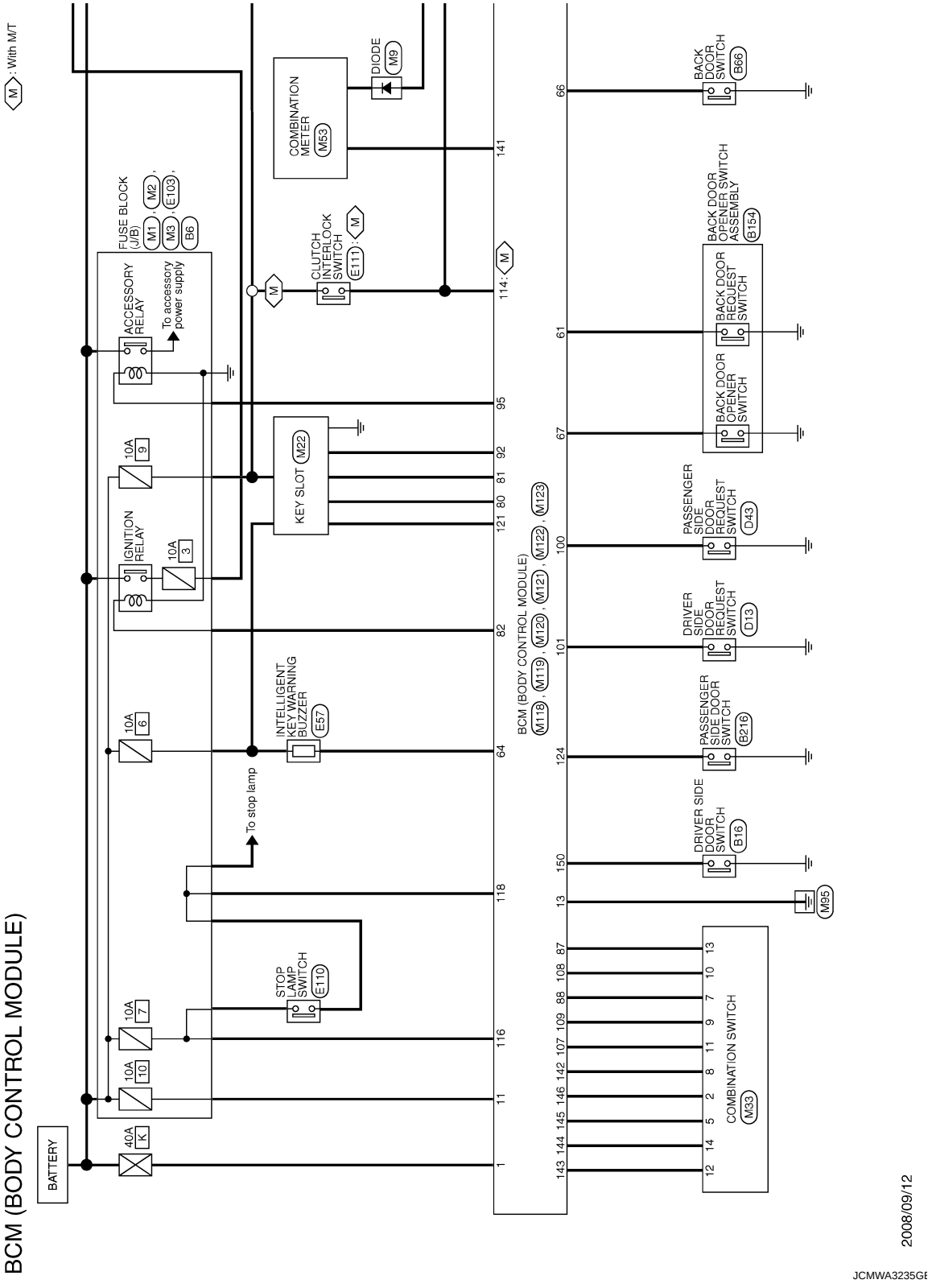
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
139 (L)	Ground	Tire pressure receiver communication	Input/ Output	Ignition switch ON	Standby state	 OCC3881D
					When receiving the signal from the transmitter	 OCC3880D
140*7 (G)	Ground	Selector lever P/N position (A/T models)	Input	Selector lever	P or N position	12 V
					Except P and N positions	0 V
		Transmission range switch (M/T models with SynchroRev Match mode)		Ignition switch ON	Control lever in neutral position	Battery voltage
					Control lever in any position other than neutral	0 V
141 (Y)	Ground	Security indicator	Output	Security indicator	ON	0 V
					Blinking	 JPMIA0014GB 11.3 V
					OFF	12 V
142 (O)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
					Lighting switch 1ST	 JPMIA0031GB 10.7 V
					Lighting switch HI	
					Lighting switch 2ND	
					Turn signal switch RH	
143 (P)	Ground	Combination switch OUTPUT 1	Output	Combination switch	All switches 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 switches OFF • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 3 • Wiper intermittent dial 6 • Wiper intermittent dial 7	

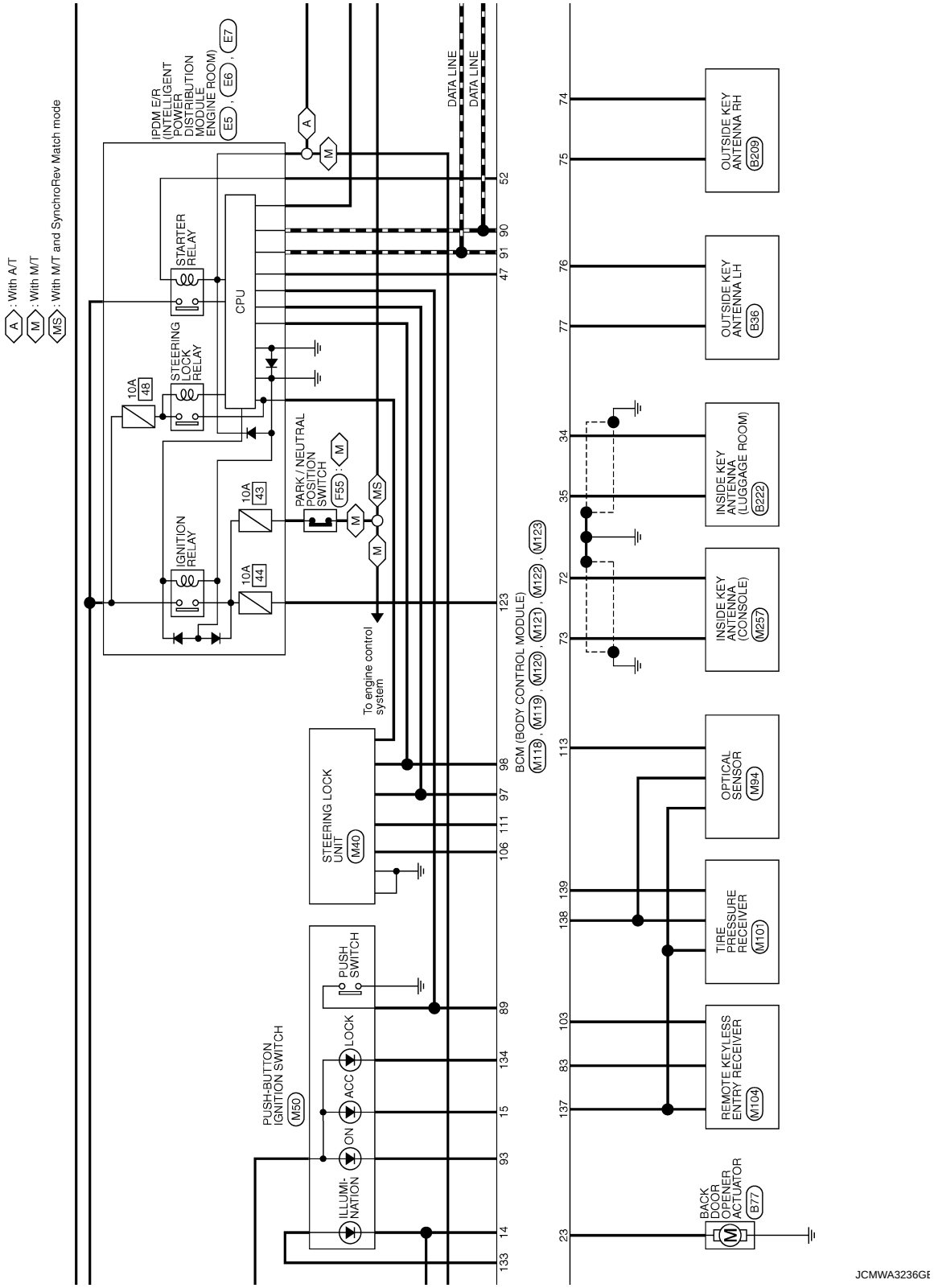
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	All switches OFF (Wiper intermittent dial 4)	0 V
					Front washer switch ON (Wiper intermittent dial 4)	 JPMIA0033GB 10.7 V
					Any of the conditions below with all switches 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 switches OFF	0 V
					Front wiper switch INT	 JPMIA0034GB 10.7 V
					Front wiper switch LO	
					Lighting switch AUTO	
					Rear fog lamp switch ON	
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
					Lighting switch 2ND	 JPMIA0035GB 10.7 V
					Lighting switch PASS	
					Turn signal switch LH	
149 (W)	Ground	Tire pressure warning check switch	Input	—		12 V
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	 JPMIA0011GB 11.8 V
					ON (Door open)	0 V
151 (G)	Ground	Rear window defogger relay control	Output	Rear window defogger	Active	0 V
					Not activated	Battery voltage

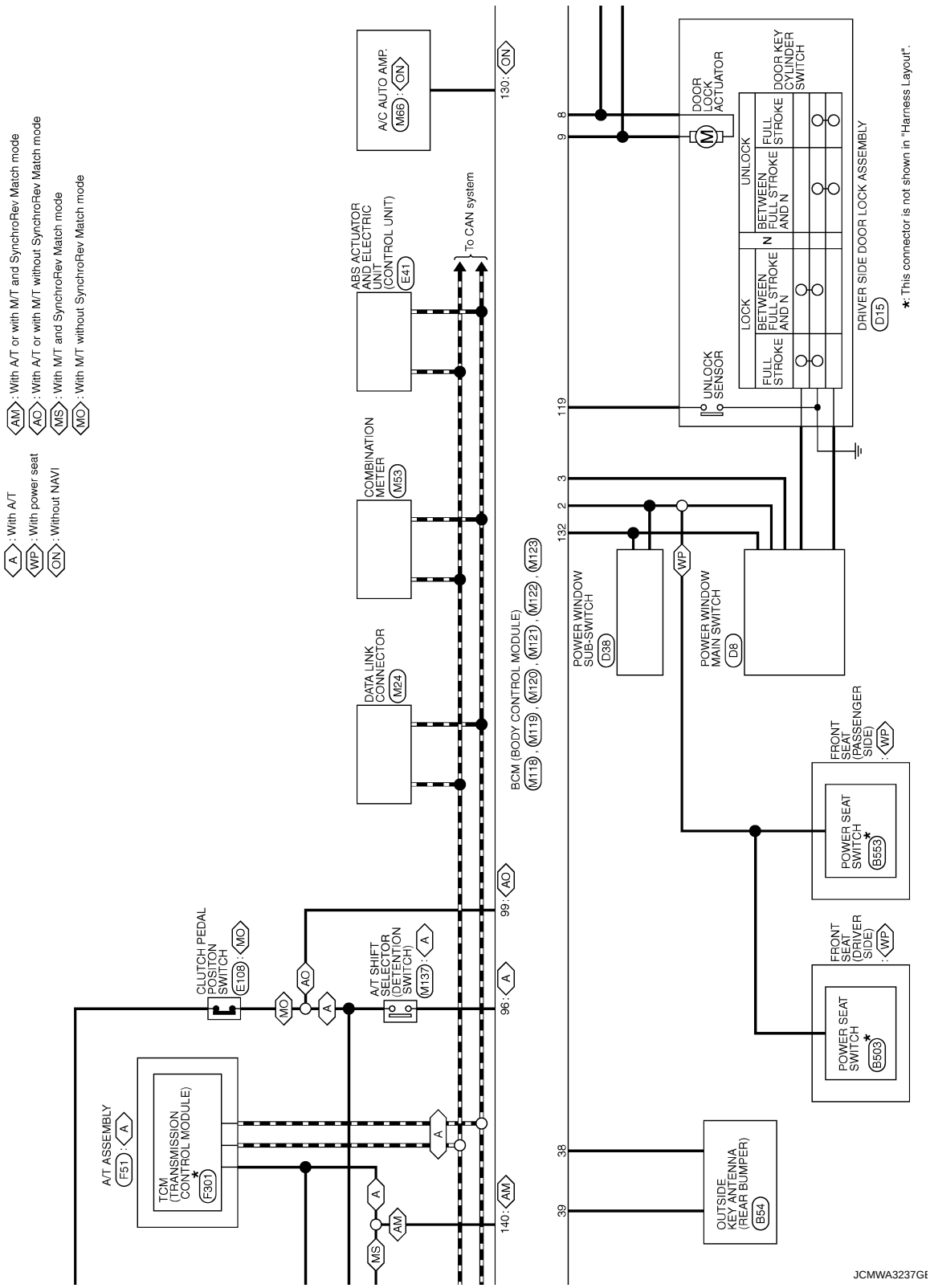
- *1: For Canada
- *2: A/T models
- *3: Except M/T models with SynchroRev Match mode
- *4: M/T models without SynchroRev Match mode
- *5: M/T models
- *6: Without NAVI
- *7: Except M/T models without SynchroRev Match mode

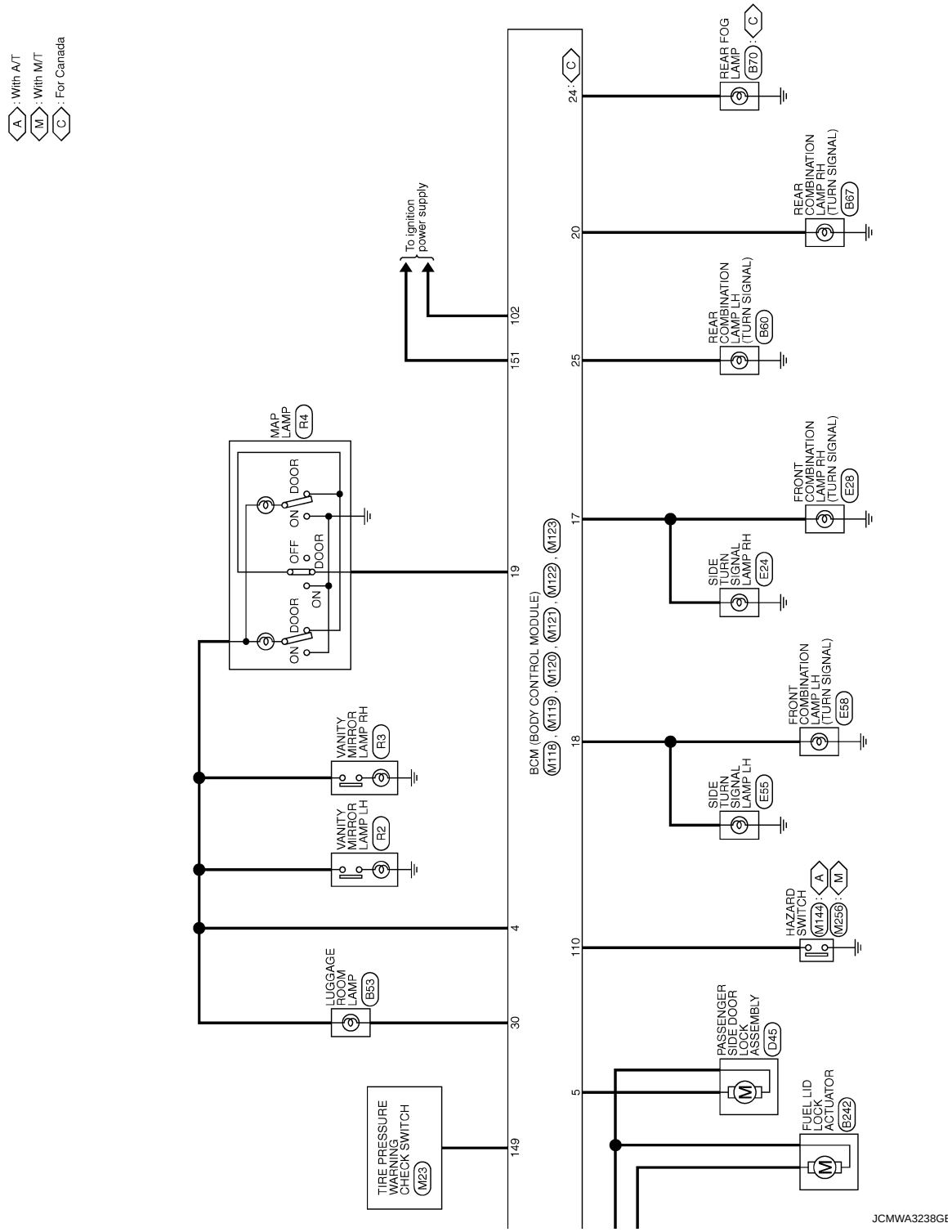
Wiring Diagram - BCM -

INFOID:0000000004780940




A : With A/T
M : With M/T
MS : With M/T and SynchroRev Match mode
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) E5 , E6 , E7
STARTER RELAY
CPU
STEERING LOCK RELAY
IGNITION RELAY
10A 48
10A 43
10A 44
PARK / NEUTRAL POSITION SWITCH F55
DATA LINE
DATA LINE
To engine control system
STEERING LOCK UNIT M40
PUSH-BUTTON IGNITION SWITCH M50
PUSH SWITCH
ILLUMI-NATION
ACC
ON
LOCK
BCM (BODY CONTROL MODULE) M118 , M119 , M120 , M121 , M122 , M123
OUTSIDE KEY ANTENNA RH B209
OUTSIDE KEY ANTENNA LH B36
INSIDE KEY ANTENNA (LUGGAGE ROOM) B222
INSIDE KEY ANTENNA (CONSOLE) M257
OPTICAL SENSOR M94
TIRE PRESSURE RECEIVER M101
REMOTE KEYLESS ENTRY RECEIVER M104
BACK DOOR OPENER ACTUATOR B77
JCMWA3236GB


A : With A/T
WP : With power seat
ON : Without NAVI
AM : With A/T or with M/T and SynchroRev Match mode
AO : With A/T or with M/T without SynchroRev Match mode
MS : With M/T and SynchroRev Match mode
MO : With M/T without SynchroRev Match mode
A/C AUTO AMP. M66 ON
130 : ON
To CAN system
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) E41
COMBINATION METER M53
DATA LINK CONNECTOR M24
BCM (BODY CONTROL MODULE) M118, M119, M120, M121, M122, M123
99 : AO
96 : A
140 : AM
CLUTCH PEDAL POSITON SWITCH E108 : MO
A/T SHIFT SELECTOR (DETENTION SWITCH) M137 : A
A/T ASSEMBLY F51 : A
TCM (TRANSMISSION CONTROL MODULE) F301
8
9
119
3
2
132
38
39
DOOR LOCK ACTUATOR
UNLOCK SENSOR
DOOR KEY CYLINDER SWITCH
LOCK
UNLOCK
FULL STROKE
BETWEEN FULL STROKE AND N
N
DRIVER SIDE DOOR LOCK ASSEMBLY D15
*: This connector is not shown in "Harness Layout".
POWER WINDOW SUB-SWITCH D38
POWER WINDOW MAIN SWITCH D8
FRONT SEAT (PASSENGER SIDE) : WP
POWER SEAT SWITCH* B553
FRONT SEAT (DRIVER SIDE) : WP
POWER SEAT SWITCH* B503
OUTSIDE KEY ANTENNA (REAR BUMPER) B54
JCMWA3237GB


A : With A/T
M : With M/T
C : For Canada
To ignition power supply
102
151
MAP LAMP R4
DOOR ON
OFF
DOOR ON
DOOR ON
ON
19
VANITY MIRROR LAMP RH R3
VANITY MIRROR LAMP LH R2
4
LUGGAGE ROOM LAMP B53
30
TIRE PRESSURE WARNING CHECK SWITCH M23
149
BCM (BODY CONTROL MODULE)
M118, M119, M120, M121, M122, M123
24 : C
REAR FOG LAMP B70 : C
20
REAR COMBINATION LAMP RH (TURN SIGNAL) B67
25
REAR COMBINATION LAMP LH (TURN SIGNAL) B60
17
FRONT COMBINATION LAMP RH (TURN SIGNAL) E28
SIDE TURN SIGNAL LAMP RH E24
18
FRONT COMBINATION LAMP LH (TURN SIGNAL) E58
SIDE TURN SIGNAL LAMP LH E55
110
HAZARD SWITCH A M
M144 : M256
5
PASSENGER SIDE DOOR LOCK ASSEMBLY D45
FUEL LID LOCK ACTUATOR E242
JCMWA3238GB

BCM (BODY CONTROL MODULE)

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
2	SB	OUTPUT 4
5	L	OUTPUT 3
7	V	INPUT 3
8	O	OUTPUT 5
9	Y	INPUT 2
10	R	INPUT 4
11	LG	INPUT 1
12	P	OUTPUT 1
13	BR	INPUT 5
14	G	OUTPUT 2

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

H.S.

1	3
2	

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	W	POWER WINDOW POWER SUPPLY(BAT)
3	Y	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	R	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
8	V	ALL DOOR, FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR, FUEL LID UNLOCK OUTPUT
11	BR	BAT (FUSE)
13	B	GND
14	R	PUSH-BUTTON IGNITION SW ILL GND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT, SIDE)
18	O	TURN SIGNAL LH (FRONT, SIDE)
19	V	ROOM LAMP TIMER CONT

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	TURN SIGNAL RH (REAR)
23	L	BACK DOOR OPEN OUTPUT
24	O	REAR FOG OUTPUT
25	LG	TURN SIGNAL LH (REAR)
30	R	LUGGAGE ROOM LAMP OUTPUT

Terminal No.	Color of Wire	Signal Name [Specification]
34	G	LUGGAGE ROOM ANT-
35	R	LUGGAGE ROOM ANT+
38	B	BACK DOOR ANT-
39	W	BACK DOOR ANT+
47	V	IGN RELAY (IPDM E/R) CONT
52	SB	STARTER RELAY CONT
61	W	BACK DOOR OPENER REQUEST SW
64	G	I-KEY WARN BUZZER (ENG ROOM)
66	R	BACK DOOR SW
67	GR	BACK DOOR OPENER SW

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

H.S.

57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88

Terminal No.	Color of Wire	Signal Name [Specification]
72	L	ROOM ANT-
73	P	ROOM ANT+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
80	GR	IMMOBI ANTENNA CONTROL
81	W	IMMOBI ANTENNA SIGNAL
82	R	IGN RELAY (F/B) CONT
83	GR	KEYLESS ENTRY RECEIVER COMM
87	BR	COMBI SW INPUT 5

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

H.S.

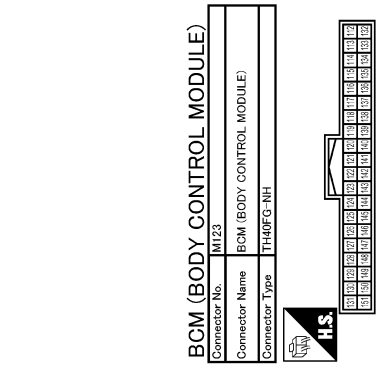
89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136

Terminal No.	Color of Wire	Signal Name [Specification]
88	V	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	O	ACC RELAY CONT
96	Y	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	P	S/L CONDITION 2
99	BR	ASCD CLUTCH SW (With M/T without Synchro-Rev Match mode)
99	R	SHIFT P (With A/T)
100	GR	PASSENGER DOOR REQUEST SW
101	Y	DRIVER DOOR REQUEST SW
102	O	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	P	HAZARD SW
111	Y	S/L UNIT COMM

JCMWA3239GB

BCM (BODY CONTROL MODULE)

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



Terminal No.	Color of Wire	Signal Name [Specification]
113	O	OPTICAL SENSOR
114	R	CLUTCH INTERLOCK SW
116	SB	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	R	KEY SLOT SW
123	W	IGN F/B
124	LG	PASSENGER DOOR SW
130	L	REAR DEFOGGER SW
132	Y	POWER WINDOW SW COMM
133	G	PUSH BUTTON IGNITION SW ILL POWER

I34	GR	LOCK IND
I37	P	RECEIVER/SENSOR GND
I38	V	RECEIVER/SENSOR POWER SUPPLY
I39	L	TIRE PRESSURE RECEIVER COMM
I40	G	PARK/NEUTRAL POSITION SW [With M/T and Synchro-Shift, Manual mode]
I40	G	SHIFT N/P [With A/T]
I41	Y	SECURITY INDICATOR
I42	O	COMBI SW OUTPUT 5
I43	P	COMBI SW OUTPUT 1
I44	G	COMBI SW OUTPUT 2
I45	L	COMBI SW OUTPUT 3
I46	SB	COMBI SW OUTPUT 4
I49	W	TIRE PRESSURE WARN CHECK SW
I50	GR	DRIVER DOOR SW
I51	G	REAR WINDOW DEFOGGER RELAY CONT

JCMWA3240GE

Fail-safe

INFOID:0000000004780941

FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

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 ANTENNA AMP	Inhibit engine cranking	Erase DTC
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
B2195: ANTI SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are 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 becomes consistent • Starter control relay signal • Starter relay status signal
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 km/h (2.5 MPH) 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 are 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 are fulfilled • Status 1 - Ignition switch is in the ON position - 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 becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)

Display contents of CONSULT	Fail-safe	Cancellation
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has becomes consistent • Steering lock relay signal (Request signal) • Steering lock relay signal (Condition signal)
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 are 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 are 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
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled • Status 1 - Clutch switch signal (CAN from ECM): ON - Clutch interlock switch signal: OFF (0 V) • Status 2 - Clutch switch signal (CAN from ECM): OFF - Clutch interlock switch signal: ON (Battery voltage)
B26E9: S/L STATUS	• Inhibit engine cranking • Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled • Steering condition No. 1 signal: LOCK (0 V) • Steering condition No. 2 signal: LOCK (Battery voltage)

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.
BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:
The blinking speed is normal while activating the hazard warning lamp.

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

- BCM judges the rain sensor serial link error by the rain sensor serial link condition and detects the rain sensor malfunction by rain sensor malfunction signal.
- When BCM detects the rain sensor serial link error or the rain sensor malfunction while front wiper AUTO operation, BCM operates a fail-safe control.

NOTE:
If rain sensor malfunction is detected when ignition switch is turned OFF ⇒ ON and front wiper switch is INT position, BCM operates a fail-safe control.

DTC Inspection Priority Chart

INFOID:0000000004780942

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
2	• U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN)
3	• B2190: NATS ANTENNA AMP • B2191: DIFFERENCE OF KEY • B2192: ID DISCORD BCM-ECM • B2193: CHAIN OF BCM-ECM • B2195: ANTI SCANNING
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 • 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 • B26E8: CLUTCH SW • B26E9: S/L STATUS • B26EA: KEY REGISTRATION • C1729: VHCL SPEED SIG ERR • U0415: VEHICLE SPEED SIG

Priority	DTC
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:0000000004780943

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. For details of Freeze Frame Data, refer to DLK-46, "COMMON ITEM : CONSULT-III Function (BCM - COMMON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	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-38
U1010: CONTROL UNIT (CAN)	—	—	—	—	BCS-39
U0415: VEHICLE SPEED SIG	—	—	—	—	BCS-40
B2013: ID DISCORD BCM-S/L	×	×	—	—	SEC-50
B2014: CHAIN OF S/L-BCM	×	×	—	—	SEC-51
B2190: NATS ANTENNA AMP	×	—	—	—	SEC-42
B2191: DIFFERENCE OF KEY	×	—	—	—	SEC-45
B2192: ID DISCORD BCM-ECM	×	—	—	—	SEC-46
B2193: CHAIN OF BCM-ECM	×	—	—	—	SEC-48
B2195: ANTI SCANNING	×	—	—	—	SEC-49
B2553: IGNITION RELAY	—	×	—	—	PCS-48
B2555: STOP LAMP	—	×	—	—	SEC-54

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer-ence page
B2556: PUSH-BTN IGN SW	—	×	×	—	SEC-56
B2557: VEHICLE SPEED	×	×	×	—	SEC-58
B2560: STARTER CONT RELAY	×	×	×	—	SEC-59
B2562: LOW VOLTAGE	—	×	—	—	BCS-41
B2601: SHIFT POSITION	×	×	×	—	SEC-60
B2602: SHIFT POSITION	×	×	×	—	SEC-63
B2603: SHIFT POSI STATUS	×	×	×	—	SEC-66
B2604: PNP SW	×	×	×	—	SEC-69
B2605: PNP SW	×	×	×	—	SEC-71
B2606: S/L RELAY	×	×	×	—	SEC-73
B2607: S/L RELAY	×	×	×	—	SEC-74
B2608: STARTER RELAY	×	×	×	—	SEC-76
B2609: S/L STATUS	×	×	×	—	SEC-78
B260A: IGNITION RELAY	×	×	×	—	PCS-50
B260B: STEERING LOCK UNIT	—	×	×	—	SEC-82
B260C: STEERING LOCK UNIT	—	×	×	—	SEC-83
B260D: STEERING LOCK UNIT	—	×	×	—	SEC-84
B260F: ENG STATE SIG LOST	×	×	×	—	SEC-85
B2612: S/L STATUS	×	×	×	—	SEC-90
B2614: ACC RELAY CIRC	—	×	×	—	PCS-52
B2615: BLOWER RELAY CIRC	—	×	×	—	PCS-55
B2616: IGN RELAY CIRC	—	×	×	—	PCS-58
B2617: STARTER RELAY CIRC	×	×	×	—	SEC-94
B2618: BCM	×	×	×	—	PCS-61
B2619: BCM	×	×	×	—	SEC-96
B261A: PUSH-BTN IGN SW	—	×	×	—	PCS-62
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	—	SEC-97
B2622: INSIDE ANTENNA	—	×	—	—	DLK-55
B2623: INSIDE ANTENNA	—	×	—	—	DLK-57
B26E8: CLUTCH SW	×	×	×	—	SEC-86
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	—	SEC-88
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	—	SEC-89
C1704: LOW PRESSURE FL	—	—	—	×	WT-16
C1705: LOW PRESSURE FR	—	—	—	×	
C1706: LOW PRESSURE RR	—	—	—	×	
C1707: LOW PRESSURE RL	—	—	—	×	
C1708: [NO DATA] FL	—	—	—	×	WT-18
C1709: [NO DATA] FR	—	—	—	×	
C1710: [NO DATA] RR	—	—	—	×	
C1711: [NO DATA] RL	—	—	—	×	

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer-ence page
C1712: [CHECKSUM ERR] FL	—	—	—	×	WT-21
C1713: [CHECKSUM ERR] FR	—	—	—	×	
C1714: [CHECKSUM ERR] RR	—	—	—	×	
C1715: [CHECKSUM ERR] RL	—	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	—	×	WT-24
C1717: [PRESSDATA ERR] FR	—	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	—	×	
C1720: [CODE ERR] FL	—	—	—	×	WT-26
C1721: [CODE ERR] FR	—	—	—	×	
C1722: [CODE ERR] RR	—	—	—	×	
C1723: [CODE ERR] RL	—	—	—	×	
C1724: [BATT VOLT LOW] FL	—	—	—	×	WT-29
C1725: [BATT VOLT LOW] FR	—	—	—	×	
C1726: [BATT VOLT LOW] RR	—	—	—	×	
C1727: [BATT VOLT LOW] RL	—	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	—	×	WT-32
C1734: CONTROL UNIT	—	—	—	×	WT-34

SYMPTOM DIAGNOSIS

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

ALL DOOR

ALL DOOR : Description

INFOID:0000000004528552

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

ALL DOOR : Diagnosis Procedure

INFOID:0000000004393774

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to DLK-59, "BCM (BODY CONTROL MODULE) : Diagnosis Procedure".

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.
- Driver side: Refer to DLK-63, "DRIVER SIDE : Component Function Check".
- Passenger side: Refer to DLK-63, "PASSENGER SIDE : Component Function Check".

Is the inspection result normal?

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

3. CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).
Refer to DLK-65, "DRIVER SIDE : 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-39, "Intermittent Incident".
NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004528553

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004393775

1. CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).
Refer to DLK-65, "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-39, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004528554

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004393776

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (passenger side).
Refer to DLK-66, "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-39, "Intermittent Incident".
NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION

Description

INFOID:0000000004528597

All doors do not lock/unlock using driver side door key cylinder.

Diagnosis Procedure

INFOID:0000000004393779

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.
NO >> Refer to DLK-158, "ALL DOOR : Diagnosis Procedure".

2.CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.
Refer to DLK-70, "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-39, "Intermittent Incident".
NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

ALL DOOR

ALL DOOR : Description

INFOID:0000000004528559

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

NOTE:

Check door request switch operation in the door lock condition. Refer to DLK-19, "DOOR LOCK FUNCTION : System Description".

ALL DOOR : Diagnosis Procedure

INFOID:0000000004528560

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.
NO >> Refer to DLK-164, "Diagnosis Procedure".

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

Check “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT”.
Refer to DLK-49, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000004528556

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

NOTE:

Check door request switch operation in the door lock condition. Refer to DLK-19, "DOOR LOCK FUNCTION : System Description".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000004393781

1.CHECK DRIVER SIDE DOOR REQUEST SWITCH

Check driver side door request 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 OUTSIDE KEY ANTENNA LH

Check outside key antenna LH.
Refer to DLK-83, "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-39, "Intermittent Incident".
NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000004528557

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

NOTE:

Check door request switch operation in the door lock condition. Refer to DLK-19, "DOOR LOCK FUNCTION : System Description".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000004393783

1.CHECK PASSENGER SIDE DOOR REQUEST SWITCH

Check passenger side door request 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 OUTSIDE KEY ANTENNA RH

Check outside key antenna RH.
Refer to DLK-83, "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-39, "Intermittent Incident".
NO >> GO TO 1.

BACK DOOR

BACK DOOR : Description

INFOID:0000000004528558

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

NOTE:

Check door request switch operation in the door lock condition. Refer to DLK-19, "DOOR LOCK FUNCTION : System Description".

BACK DOOR : Diagnosis Procedure

INFOID:0000000004393785

1.CHECK BACK DOOR REQUEST SWITCH

Check back door request switch.
Refer to DLK-79, "Component Function Check".

Is the inspection result normal?

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

2.CHECK OUTSIDE KEY ANTENNA (REAR BUMPER)

Check outside key antenna (rear bumper).
Refer to DLK-83, "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-39, "Intermittent Incident".
NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description

INFOID:0000000004528555

All doors do not lock/unlock using Intelligent Key.

NOTE:

Check Intelligent Key remote operation in the door lock condition. Refer to DLK-28, "REMOTE KEYLESS ENTRY FUNCTION : System Description".

Diagnosis Procedure

INFOID:0000000004393787

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.
NO >> Refer to DLK-158, "ALL DOOR : Diagnosis Procedure".

2.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.
Refer to DLK-72, "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-88, "Component_Function_Check".

Is the inspection result normal?

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

4.CHECK KEY SLOT

Check key slot.
Refer to DLK-90, "Component_Function_Check".

Is the inspection result normal?

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

5.CHECK DOOR SWITCH

Check door switch.
Refer to DLK-60, "Component_Function_Check".

Is the inspection result normal?

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

6.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE

DOOR REQUEST SWITCH

DOOR REQUEST SWITCH : Description

INFOID:0000000004528561

NOTE:
Before performing the diagnosis in the following procedure, check the operation condition. Refer to DLK-19, "DOOR LOCK FUNCTION : System Description".

DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:0000000004393789

1.CHECK DOOR LOCK FUNCTION

Check door lock function by door request switch.

Does door lock/unlock with door request switch?

YES >> GO TO 2.
NO-1 >> Driver side: Refer to DLK-161, "DRIVER SIDE : Diagnosis Procedure".
NO-2 >> Passenger side: Refer to DLK-162, "PASSENGER SIDE : Diagnosis Procedure".
NO-3 >> Back door: Refer to DLK-162, "BACK DOOR : Diagnosis Procedure".

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

Check “DOOR LOCK-UNLOCK SET” setting in “WORK SUPPORT”.
Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Set “DOOR LOCK-UNLOCK SET” in “WORK SUPPORT”.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

INTELLIGENT KEY

INTELLIGENT KEY : Description

INFOID:0000000004528562

NOTE:
Before performing the diagnosis in the following procedure, check the operation condition. Refer to DLK-28, "REMOTE KEYLESS ENTRY FUNCTION : System Description".

INTELLIGENT KEY : Diagnosis Procedure

INFOID:0000000004393791

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.
NO >> Refer to DLK-158, "ALL DOOR : Diagnosis Procedure".

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

Check “DOOR LOCK-UNLOCK SET” setting in “WORK SUPPORT”.
Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Set “DOOR LOCK-UNLOCK SET” of “WORK SUPPORT”.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

DOOR KEY CYLINDER

DOOR KEY CYLINDER : Description

INFOID:0000000004528563

NOTE:
Before performing the diagnosis in the following procedure, check the operation condition. Refer to DLK-11, "System Description".

DOOR KEY CYLINDER : Diagnosis Procedure

INFOID:0000000004495910

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.
NO >> Refer to DLK-158, "ALL DOOR : Diagnosis Procedure".

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

Check “DOOR LOCK-UNLOCK SET” setting in “WORK SUPPORT”.
Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Set “DOOR LOCK-UNLOCK SET” of “WORK SUPPORT”.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

Description

INFOID:0000000004528602

NOTE:
Before performing the diagnosis in the following procedure, check the operation condition. Refer to DLK-11, "System Description".

Diagnosis Procedure

INFOID:0000000004393792

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.
NO >> Refer to DLK-158, "ALL DOOR : Diagnosis Procedure".

2.CHECK “AUTOMATIC LOCK/UNLOCK SELECT” SETTING IN “WORK SUPPORT”

Check “AUTOMATIC LOCK/UNLOCK SELECT” in “WORK SUPPORT”.
Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Set “AUTOMATIC LOCK/UNLOCK SELECT” in “WORK SUPPORT”.

3.CHECK “AUTOMATIC DOOR LOCK SELECT” SETTING IN “WORK SUPPORT”

Check “AUTOMATIC DOOR LOCK SELECT” in “WORK SUPPORT”.
Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Set “AUTOMATIC DOOR LOCK SELECT” in “WORK SUPPORT”.

4.CHECK VEHICLE SPEED SIGNAL

Check combination meter.
Refer to MWI-4, "Work flow".

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-39, "Intermittent Incident".
NO >> GO TO 1.

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Description

INFOID:0000000004528603

NOTE:
Before performing the diagnosis in the following procedure, check the operation condition. Refer to DLK-11, "System Description".

Diagnosis Procedure

INFOID:0000000004393793

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.
NO >> Refer to DLK-158, "ALL DOOR : Diagnosis Procedure".

2.CHECK “AUTOMATIC LOCK/UNLOCK SELECT” SETTING IN “WORK SUPPORT”

Check “AUTOMATIC LOCK/UNLOCK SELECT” in “WORK SUPPORT”.
Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Set “AUTOMATIC LOCK/UNLOCK SELECT” in “WORK SUPPORT”.

3.CHECK “AUTOMATIC DOOR UNLOCK SELECT” SETTING IN “WORK SUPPORT”

Check “AUTOMATIC DOOR UNLOCK SELECT” in “WORK SUPPORT”.
Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Set “AUTOMATIC DOOR UNLOCK SELECT” in “WORK SUPPORT”.

4.CHECK BCM

Check BCM for DTC
Refer to DLK-155, "DTC Index".

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-39, "Intermittent Incident".
NO >> GO TO 1.

P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE

Description

INFOID:0000000004528604

NOTE:
Before performing the diagnosis in the following procedure, check the operation condition. Refer to DLK-11, "System Description".

Diagnosis Procedure

INFOID:0000000004393794

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.
NO >> Refer to DLK-158, "ALL DOOR : Diagnosis Procedure".

2.CHECK “AUTOMATIC LOCK/UNLOCK SELECT” SETTING IN “WORK SUPPORT”

Check “AUTOMATIC LOCK/UNLOCK SELECT” in “WORK SUPPORT”.
Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Set “AUTOMATIC LOCK/UNLOCK SELECT” in “WORK SUPPORT”.

3.CHECK “AUTOMATIC DOOR LOCK SELECT” SETTING IN “WORK SUPPORT”

Check “AUTOMATIC DOOR LOCK SELECT” in “WORK SUPPORT”.
Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Set “AUTOMATIC DOOR LOCK SELECT” in “WORK SUPPORT”.

4.CHECK “AUTOMATIC DOOR UNLOCK SELECT” SETTING IN “WORK SUPPORT”

Check “AUTOMATIC DOOR UNLOCK SELECT” in “WORK SUPPORT”.
Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Set “AUTOMATIC DOOR UNLOCK SELECT” in “WORK SUPPORT”.

5.CHECK TCM

Check TCM for DTC.
Refer to TM-279, "DTC Index".

Is the inspection result normal?

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

6.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Description

INFOID:0000000004528605

NOTE:
Before performing the diagnosis in the following procedure, check the operation condition. Refer to DLK-11, "System Description".

Diagnosis Procedure

INFOID:0000000004393796

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

Check “AUTO LOCK SET” setting in “WORK SUPPORT”.
Refer to DLK-49, "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”.

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

BACK DOOR DOES NOT OPEN

Description

INFOID:0000000004528606

NOTE:
Before performing the diagnosis in the following procedure, check the operation condition. Refer to DLK-43, "System Description".

Diagnosis Procedure

INFOID:0000000004528519

1.CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

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

YES >> GO TO 2.
NO >> Refer to DLK-158, "ALL DOOR : Diagnosis Procedure".

2.CHECK BACK DOOR OPENER SWITCH

Check back door opener switch.
Refer to DLK-75, "Component Function Check".

Is the inspection result normal?

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

3.CHECK BACK DOOR OPENER ACTUATOR

Check back door opener actuator.
Refer to DLK-68, "Component Function Check".

Is the inspection result normal?

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

4.CHECK VEHICLE SPEED SIGNAL

Check combination meter.
Refer to MWI-4, "Work flow".

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-39, "Intermittent Incident".
NO >> GO TO 1.

FUEL LID LOCK ACTUATOR DOES NOT OPERATE

Description

INFOID:0000000004539400

NOTE:
Before performing the diagnosis in the following procedure, check the operation condition. Refer to DLK-11, "System Description".

Diagnosis Procedure

INFOID:0000000004528628

1.CHECK FUEL LID OPENER ACTUATOR

Check fuel lid opener actuator.
Refer to DLK-67, "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-39, "Intermittent Incident".
NO >> GO TO 1.

PANIC ALARM FUNCTION DOES NOT OPERATE

Description

INFOID:0000000004528609

NOTE:
Before performing the diagnosis in the following procedure, check the operation condition. Refer to DLK-19, "DOOR LOCK FUNCTION : System Description".

Diagnosis Procedure

INFOID:0000000004393803

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.
NO >> Refer to DLK-164, "Diagnosis Procedure".

2.CHECK VEHICLE SECURITY ALARM OPERATION

Check vehicle security alarm operation.

Does alarm (headlamp and horn) active?

YES >> GO TO 3.
NO >> Refer to SEC-202, "Diagnosis Procedure".

3.CHECK “PANIC ALARM SET” SETTING IN “WORK SUPPORT”

Check “PANIC ALARM SET” setting in “WORK SUPPORT”.
Refer to DLK-49, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Set “PANIC ALARM SET” setting in “WORK SUPPORT”.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

HAZARD AND HORN REMINDER DOES NOT OPERATE

Description

INFOID:0000000004528610

NOTE:
Before performing the diagnosis, check the operation condition. Refer to DLK-28, "REMOTE KEYLESS ENTRY FUNCTION : System Description".

Diagnosis Procedure

INFOID:0000000004393805

1. CHECK “HAZARD ANSWER BACK” SETTING IN “WORK SUPPORT”

Check “HAZARD ANSWER BACK” setting in “WORK SUPPORT”.
Refer to DLK-49, "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”.

2. CHECK “HORN WITH KEYLESS LOCK” SETTING IN “WORK SUPPORT”.

Check “HORN WITH KEYLESS LOCK” setting in “WORK SUPPORT”.
Refer to DLK-49, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Set “HORN WITH KEYLESS LOCK” setting in “WORK SUPPORT”.

3. CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 4.
NO >> Check BCM for DTC. Refer to DLK-155, "DTC Index".

4. CHECK HAZARD FUNCTION

Check hazard function.
Refer to DLK-99, "Component Function Check".

Is the inspection result normal?

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

5. CHECK HORN FUNCTION

Check horn function.
Refer to DLK-94, "Component Function Check".

Is the inspection result normal?

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

6. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

HAZARD AND BUZZER REMINDER DOES NOT OPERATE

Description

INFOID:0000000004528611

NOTE:
Before performing the diagnosis, check the operation condition. Refer to DLK-28, "REMOTE KEYLESS ENTRY FUNCTION : System Description".

Diagnosis Procedure

INFOID:0000000004393807

1.CHECK “HAZARD ANSWER BACK” SETTING IN “WORK SUPPORT”

Check “HAZARD ANSWER BACK” setting in “WORK SUPPORT”.
Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “HAZARD ANSWER BACK” in “WORK SUPPORT”.

2.CHECK “ANS BACK I-KEY LOCK” SETTING IN “WORK SUPPORT”

Check “ANS BACK I-KEY LOCK” setting in “WORK SUPPORT”.
Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 3.
NO >> Set “ANS BACK I-KEY LOCK” in “WORK SUPPORT”.

3.CHECK “ANS BACK I-KEY UNLOCK” SETTING IN “WORK SUPPORT”

Check “ANS BACK I-KEY UNLOCK” setting in “WORK SUPPORT”.
Refer to DLK-47, "DOOR LOCK : CONSULT-III Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Set “ANS BACK I-KEY UNLOCK” in “WORK SUPPORT”.

4.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 5.
NO >> Check BCM for DTC. Refer to DLK-155, "DTC Index".

5.CHECK HAZARD FUNCTION

Check hazard function.
Refer to DLK-99, "Component Function Check".

Is the inspection result normal?

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

6.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-86, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace the malfunctioning parts.

7.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

KEY REMINDER FUNCTION DOES NOT OPERATE
INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : Description

INFOID:0000000004675708

NOTE:
Before performing the diagnosis, check operation condition. Refer to DLK-32, "KEY REMINDER FUNCTION : System Description".

INTELLIGENT KEY SYSTEM : Diagnosis Procedure

INFOID:0000000004675709

1.CHECK “ANTI KEY LOCK IN FUNCTI” SETTING IN “WORK SUPPORT”

Check “ANTI KEY LOCK IN FUNCTI” setting in “WORK SUPPORT”.
Refer to DLK-49, "INTELLIGENT KEY : CONSULT-III Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “ANTI KEY LOCK IN FUNCTI” setting in “WORK SUPPORT”.

2.CHECK DOOR SWITCH

Check door switch.
Refer to DLK-60, "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.
- Console: Refer to DLK-55, "DTC Logic".
- Luggage room: Refer to DLK-57, "DTC Logic".

Is the inspection result normal?

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

4.CHECK UNLOCK SENSOR

Check unlock sensor.
Refer to DLK-81, "Component Function Check".

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-39, "Intermittent Incident".
NO >> GO TO 1.

POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : Description

INFOID:0000000004675710

NOTE:
Before performing the diagnosis, check operation condition. Refer to DLK-11, "System Description".

POWER DOOR LOCK SYSTEM : Diagnosis Procedure

INFOID:0000000004675711

1.CHECK KEY SLOT

Check key slot.
Refer to DLK-90, "Component Function Check".

Is the inspection result normal?

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

2.CHECK DOOR SWITCH

Check door switch.
Refer to DLK-60, "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-39, "Intermittent Incident".
NO >> GO TO 1.

KEY WARNING DOES NOT OPERATE

Description

INFOID:0000000004528613

NOTE:
- Warning functions operating condition is extremely complicated. During operation confirmation reconfirm the list above twice in order to check for normal operation. Refer to DLK-36, "WARNING FUNCTION : System Description".
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000004393811

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-97, "Component_Function_Check".

Is the inspection result normal?

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

2.CHECK DOOR SWITCH

Check door switch (driver side).
Refer to DLK-60, "Component_Function_Check".

Is the inspection result normal?

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

3.CHECK KEY SLOT

Check key slot.
Refer to DLK-90, "Component_Function_Check".

Is the inspection result normal?

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

4.CHECK COMBINATION METER DISPLAY

Check combination meter display.
Refer to DLK-96, "Component_Function_Check".

Is the inspection result normal?

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

5.CHECK KEY SLOT INDICATOR

Check key slot indicator.
Refer to DLK-92, "Component_Function_Check".

Is the inspection result normal?

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

6.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

OFF POSITION WARNING DOES NOT OPERATE

Description

INFOID:0000000004528614

NOTE:
- Warning functions operating condition is extremely complicated. During operation confirmation reconfirm the list above twice in order to check for normal operation. Refer to DLK-36, "WARNING FUNCTION : System Description".
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000004393813

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.
NO >> Check BCM for DTC. Refer to DLK-155, "DTC Index".

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-97, "Component Function Check".

Is the inspection result normal?

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

3.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-86, "Component Function Check".

Is the inspection result normal?

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

4.CHECK DOOR SWITCH

Check door switch (driver side).
Refer to DLK-60, "Component Function Check".

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-39, "Intermittent Incident".
NO >> GO TO 1.

P POSITION WARNING DOES NOT OPERATE

Description

INFOID:0000000004528615

NOTE:
- Warning functions operating condition is extremely complicated. During operation confirmation reconfirm the list above twice in order to check for normal operation. Refer to DLK-36, "WARNING FUNCTION : System Description".
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000004393815

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.
NO >> Check BCM for DTC. Refer to DLK-155, "DTC Index".

2.CHECK DETENTION SWITCH

Check BCM for DTC.
Refer to DLK-155, "DTC Index".

Is the inspection result normal?

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

3.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-86, "Component Function Check".

Is the inspection result normal?

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

4.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-97, "Component Function Check".

Is the inspection result normal?

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

5.CHECK DOOR SWITCH

Check door switch (driver side).
Refer to DLK-60, "Component Function Check".

Is the inspection result normal?

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

6.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
Console: Refer to DLK-55, "DTC Logic".
Luggage room: Refer to DLK-57, "DTC Logic".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace the malfunctioning parts.

7.CHECK COMBINATION METER DISPLAY

Check combination meter display.
Refer to DLK-96, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 8.
NO >> Repair or replace the malfunctioning parts.

8. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

ACC WARNING DOES NOT OPERATE

Description

INFOID:0000000004528616

NOTE:
- Warning functions operating condition is extremely complicated. During operation confirmation reconfirm the list above twice in order to check for normal operation. Refer to DLK-36, "WARNING FUNCTION : System Description".
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000004393817

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.
NO >> Check BCM for DTC. Refer to DLK-155, "DTC Index".

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-97, "Component Function Check".

Is the inspection result normal?

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

3.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.
Refer to DLK-96, "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-39, "Intermittent Incident".
NO >> GO TO 1.

TAKE AWAY WARNING DOES NOT OPERATE

Description

INFOID:0000000004528617

When door opens, take away warning does not operate.

NOTE:

- Warning functions operating condition is extremely complicated. During operation confirmation reconfirm the list above twice in order to check for normal operation. Refer to DLK-36, "WARNING FUNCTION : System Description".
- Door lock function is normal.

Diagnosis Procedure

INFOID:0000000004393819

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.
NO >> Check BCM for DTC. Refer to DLK-155, "DTC Index".

2.CHECK DOOR SWITCH

Check door switch.
Refer to DLK-60, "Component Function Check".

Is the inspection result normal?

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

3.CHECK KEY SLOT

Check key slot.
Refer to DLK-90, "Component Function Check".

Is the inspection result normal?

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

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
Console: Refer to DLK-55, "DTC Logic".
Luggage room: Refer to DLK-57, "DTC Logic".

Is the inspection result normal?

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

5.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-97, "Component Function Check".

Is the inspection result normal?

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

6.CHECK COMBINATION METER DISPLAY

Check combination meter display.
Refer to DLK-96, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 7.
NO >> Repair or replace the malfunctioning parts.

7.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-86, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 8.
NO >> Repair or replace the malfunctioning parts.

8. CHECK KEY SLOT INDICATOR

Check key slot indicator.
Refer to DLK-92, "Component Function Check".

Is the inspection result normal?

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

9. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Description

INFOID:0000000004528622

NOTE:
Warning functions operating condition is extremely complicated. During operation confirmation reconfirm the list above twice in order to check for normal operation. Refer to DLK-36, "WARNING FUNCTION : System Description".

Diagnosis Procedure

INFOID:0000000004393829

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-49, "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”.

2. CHECK INTELLIGENT KEY

Check Intelligent Key.
Refer to DLK-88, "Component Function Check".

Is the inspection result normal?

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

3. CHECK COMBINATION METER DISPLAY

Check combination meter display.
Refer to DLK-96, "Component Function Check".

Is the inspection result normal?

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

4. CHECK INSIDE KEY ANTENNA

Check inside key antenna.
- Console: Refer to DLK-55, "DTC Logic".
- Luggage room: Refer to DLK-57, "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-39, "Intermittent Incident".
NO >> GO TO 1.

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

Description

INFOID:0000000004528624

Door lock operation warning does not activate using door request switch.

NOTE:

Warning functions operating condition is extremely complicated. During operation confirmation reconfirm the list above twice in order to check for normal operation. Refer to DLK-36, "WARNING FUNCTION : System Description".

Diagnosis Procedure

INFOID:0000000004528625

1.CHECK DOOR LOCK FUNCTION

Check door lock function.

Does door lock/unlock using door request switch?

YES >> GO TO 2.
NO-1 >> Driver side: Refer to DLK-161, "DRIVER SIDE : Diagnosis Procedure".
NO-2 >> Passenger side: Refer to DLK-162, "PASSENGER SIDE : Diagnosis Procedure".
NO-3 >> Back door: Refer to DLK-162, "BACK DOOR : Diagnosis Procedure".

2.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-86, "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-39, "Intermittent Incident".
NO >> GO TO 1.

KEY ID WARNING DOES NOT OPERATE

Description

INFOID:0000000004528623

NOTE:
Warning functions operating condition is extremely complicated. During operation confirmation reconfirm the list above twice in order to check for normal operation. Refer to DLK-36, "WARNING FUNCTION : System Description".

Diagnosis Procedure

INFOID:0000000004393833

1.CHECK INTELLIGENT KEY

Check Intelligent Key.
Refer to DLK-88, "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-96, "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-39, "Intermittent Incident".
NO >> GO TO 1.

KEY WARNING LAMP DOES NOT ILLUMINATE

Description

INFOID:0000000004675712

NOTE:
Warning functions operating condition is extremely complicated. During operation confirmation reconfirm the list above twice in order to check for normal operation. Refer to DLK-36, "WARNING FUNCTION : System Description".

Diagnosis Procedure

INFOID:0000000004675713

1.CHECK KEY WARNING LAMP

Check key warning lamp.
Refer to DLK-98, "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-39, "Intermittent Incident".
NO >> GO TO 1.

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000004393837

1.CHECK INTEGRATED HOMELINK TRANSMITTER

Check integrated homelink transmitter.
Refer to DLK-100, "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.

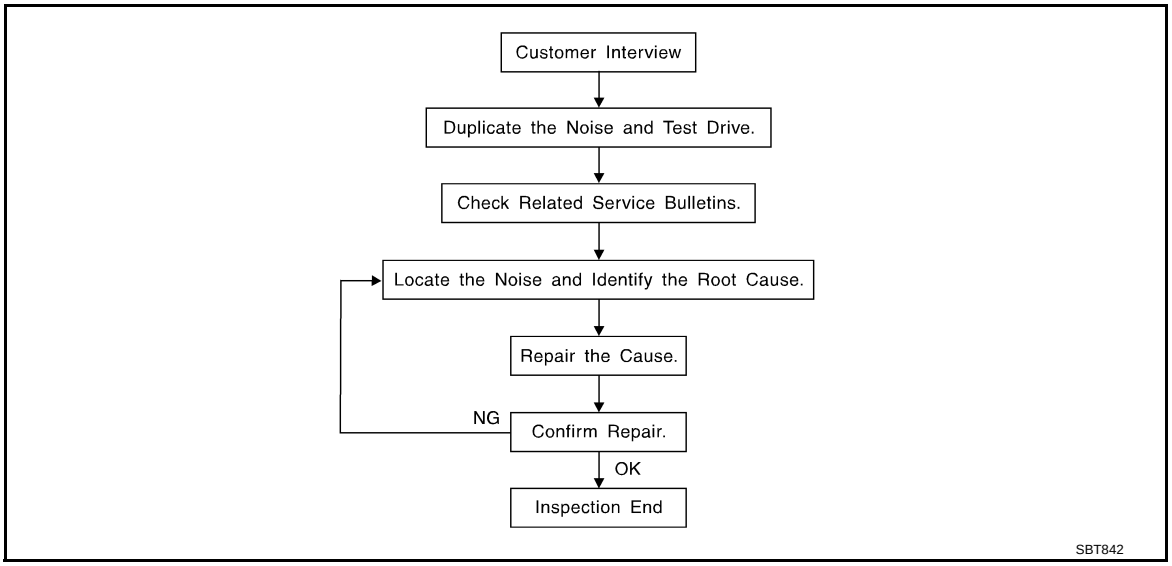
Is the result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".
NO >> GO TO 1.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000004684658



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-194, "Diagnostic Worksheet". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)
  Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
  Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)
  Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)
  Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)
  Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
  Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumblebee)
  Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when the repair is reconfirmed.

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

1) Close a door.
2) Tap or push/pull around the area where the noise appears to be coming from.
3) Rev the engine.
4) Use a floor jack to recreate vehicle “twist”.
5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.

- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.
If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:

- Removing the components in the area that is are suspected to be the cause of the noise.
  Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of the noise.
  Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks.
  Refer to DLK-192, "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 the authorized Nissan Parts Department.

CAUTION:
Never use excessive force as many components are constructed of plastic and may be damaged.
NOTE:
Always check with the Parts Department for the latest parts information.
The following materials are contained in the Nissan Squeak and Rattle Kit (J-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 is be visible or does not fit. Will only last a few months.
SILICONE SPRAY
Used when grease cannot be applied.
DUCT TAPE
Used to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

INFOID:0000000004684659

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint
   These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.
   CAUTION:
   Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

1. Shifter assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the following:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-43980) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer.
In addition look for the following:

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment
3. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise.
Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs.Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.
Causes of transmitted underhood noise include:

1. Any component mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

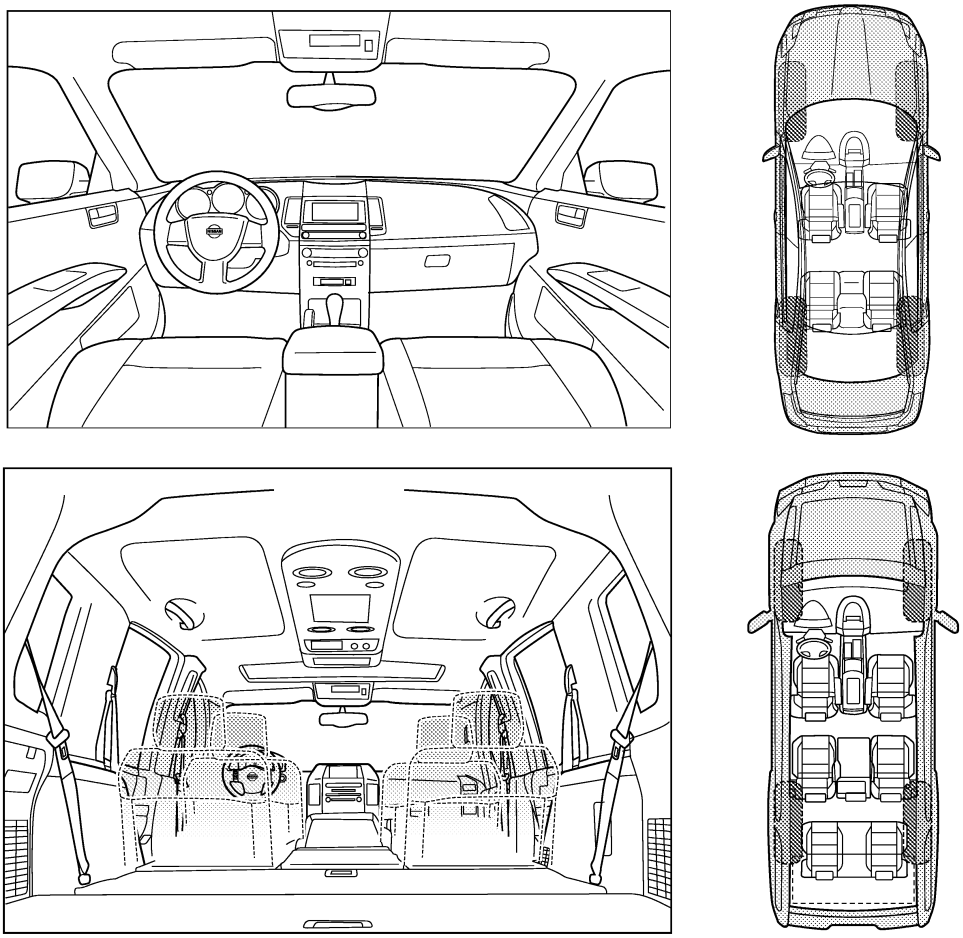
Diagnostic Worksheet

INFOID:0000000004684660

SQUEAK & RATTLE
DIAGNOSTIC WORKSHEET

Dear Nissan Customer:
We are concerned about your satisfaction with your Nissan vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Nissan right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

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.

PIIB8740E

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:0000000004393841

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

WARNING:

- **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 AIR BAG”.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.**

Precaution Necessary for Steering Wheel Rotation after Battery Disconnect

INFOID:0000000004684564

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.

For vehicle with 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 operation 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. 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.

Precaution for Battery Service

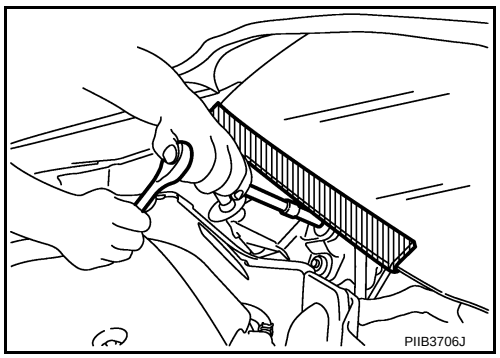
INFOID:0000000004684565

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

Precaution for Procedure without Cowl Top Cover

INFOID:0000000004393843

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



Work

INFOID:0000000004393844

- 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.

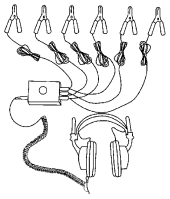
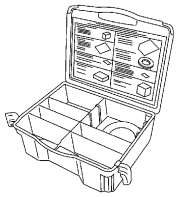
PREPARATION

PREPARATION

Special Service Tools

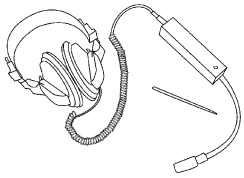
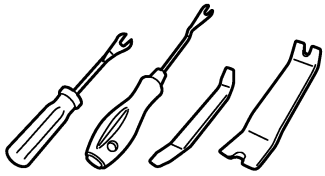
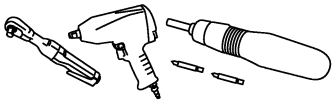
INFOID:0000000004393845

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

Tool number (Kent-Moore No.) Tool name	Description
(J-39570) Chassis ear  SIIA0993E	Locates the noise
(J-43980) NISSAN Squeak and Rattle Kit  SIIA0994E	Repairs the cause of noise

Commercial Service Tools

INFOID:0000000004393846

Tool name	Description
Engine ear  SIIA0995E	Locates the noise
Remover tool  JMKIA3050ZZ	Removes the clips, pawls, and metal clips
Power tool  PIIB1407E	

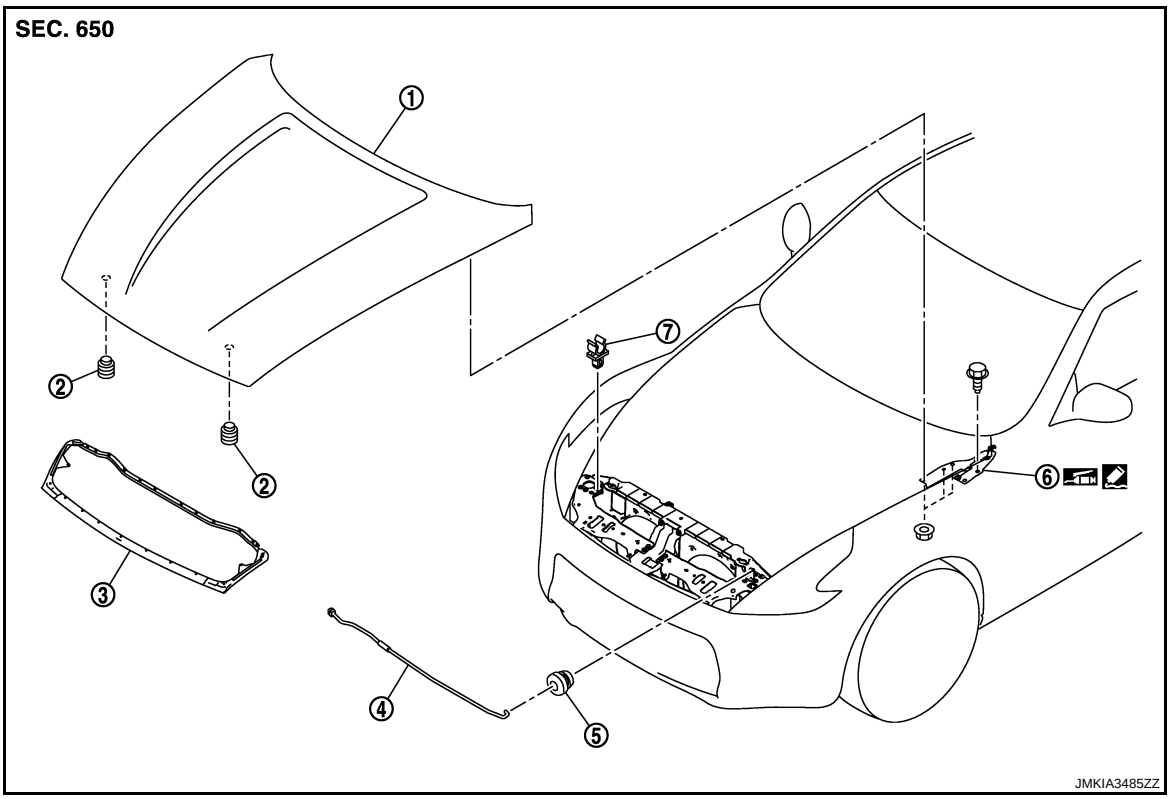
REMOVAL AND INSTALLATION

HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:0000000004533789



1. Hood assembly
2. Hood bumper rubber
3. Hood seal (front)
4. Hood support rod
5. Grommet
6. Hood hinge
7. Clamp

Refer to GI-4, "Components" for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:0000000004533790

CAUTION:
- **Operate with 2 workers, because of its heavy weight.**
- **Use protective tape or shop cloth to protect from damage during removal and installation.**

REMOVAL

1. Remove washer nozzle (LH/RH) and washer tube. Refer to WW-89, "Removal and Installation".
2. Support hood assembly with a suitable material to prevent it from falling.

   WARNING:
   Bodily injury may occur if no supporting rod is holding the hood open when removing the hood stay.
3. Remove hood hinge mounting bolts on the hood to remove the hood assembly.

INSTALLATION

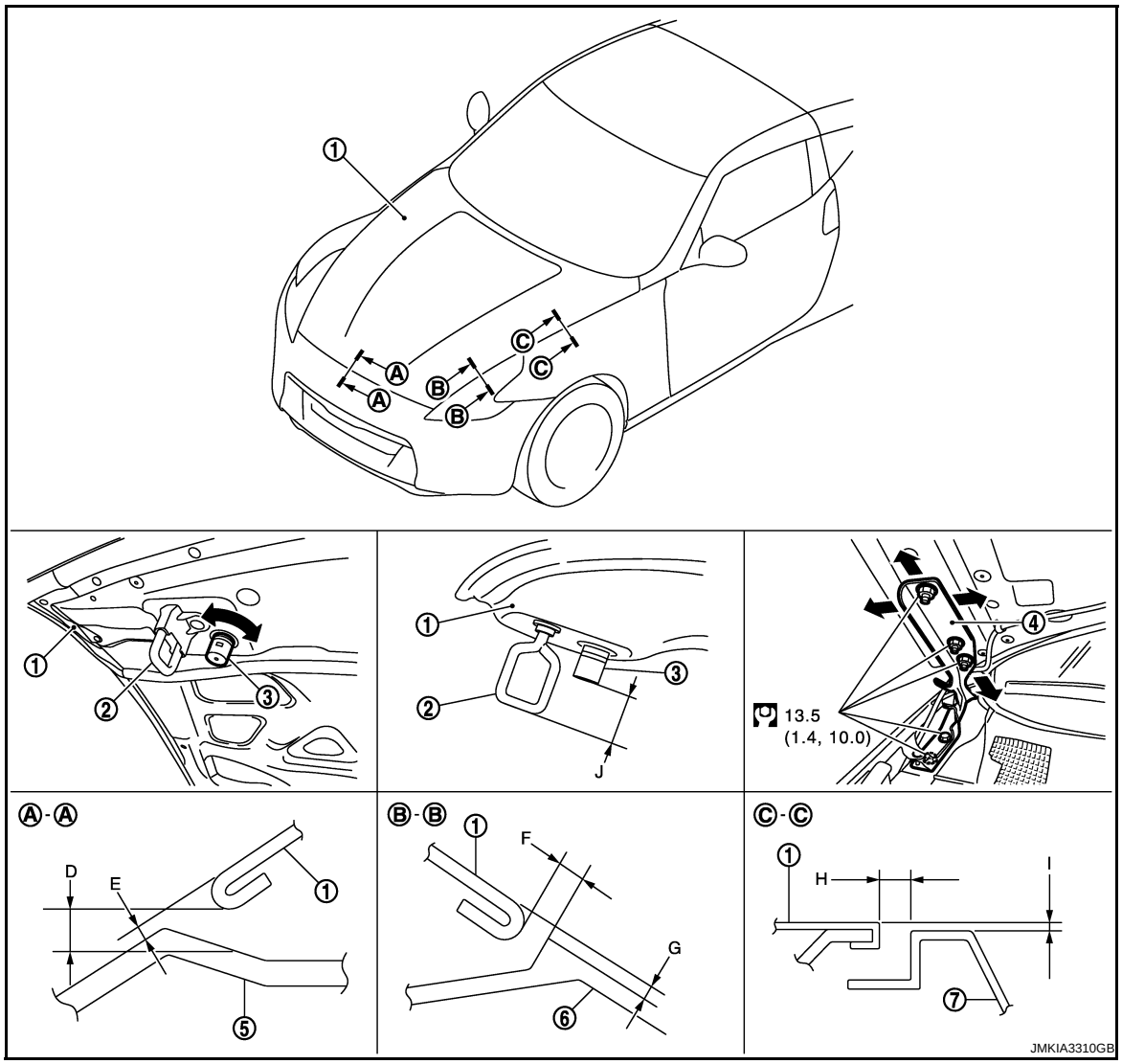
Install in the reverse order of removal.

CAUTION:
- **Apply anticorrosive agent onto the mounting surface.**
- **Check hood hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, check hood open/close, lock/unlock operation.**

- **After installation, adjust the following parts.**
- **Hood: Refer to DLK-200, "HOOD ASSEMBLY : Adjustment".**
- **Washer nozzle (LH/RH) and washer tube: Refer to WW-89, "Removal and Installation".**
- **After installation, apply touch-up paint (the body color) onto the heads of hood hinge mounting bolts and nuts.**

HOOD ASSEMBLY : Adjustment

INFOID:0000000004533791



1.	Hood assembly	2.	Hood striker	3.	Hood bumper rubber
4.	Hood hinge	5.	Front bumper fascia	6.	Front combination lamp
7.	Front fender				

Refer to GI-4, "Components" for symbols in the figure.

Check the clearance and the surface height between hood and each part by seeing and touching. Fitting standard dimension in the table below should be satisfied.
If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm (in)

Portion				Standard	Difference (LH/RH, MAX)
Hood – Front bumper fascia	A – A	D	Clearance	2.9 – 6.9 (0.114 – 0.272)	—
		E	Surface height	–1.0 – 3.0 (–0.039 – 0.118)	—
Hood – Front combination lamp	B – B	F	Clearance	1.5 – 5.5 (0.059 – 0.217)	2.2 (0.087)
		G	Surface height	–1.0 – 3.0 (–0.039 – 0.118)	3.0 (0.118)
Hood – Front fender	C – C	H	Clearance	2.5 – 4.5 (–0.098 – 0.177)	2.0 (0.079)
		I	Surface height	–0.75 – 1.25 (–0.030 – 0.049)	2.0 (0.079)
Hood striker – Hood bumper rubber	—	J	Height difference	35.7 – 36.7 (1.406 – 1.445)	—

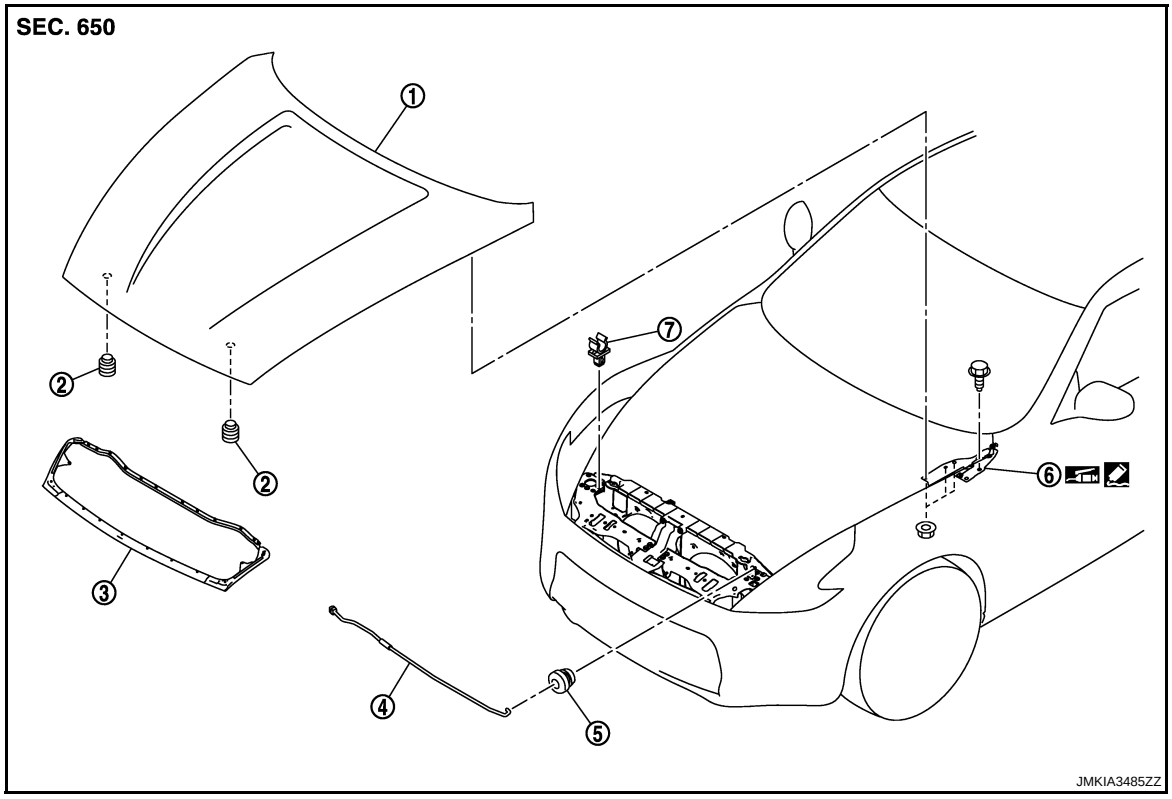
1. Remove striker and adjust the surface height of hood, front bumper fascia and front fender according to the fitting standard dimension, by rotating hood bumper rubber.
2. Adjust the height difference of striker, hood bumper rubber according to the fitting standard dimension.
3. Loosen hood hinge mounting nuts on the hood.
4. Adjust the clearance of hood, front bumper fascia and front fender according to the fitting standard dimension, for the hood.
5. Check that hood lock primary latch is securely engaged with striker by dropping hood from approximately 200 mm (7.874 in) height or pressing lightly on the hood.
   CAUTION:
   Never drop hood from a height of 300 mm (11.811 in) or more.
6. Install as static closing face of hood is 94 – 490 N (9.6 – 50.0 kg, 21.1 – 110 lb).
   NOTE:
   - Exercise vertical force on right side and left side of hood lock.
   - Do not simultaneously press both sides.
7. After adjustment, tighten hood hinge mounting nuts to the specified torque.

CAUTION:
- **Apply anticorrosive agent onto the mounting surface.**
- **Check hood hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, apply touch-up paint (the body color) onto the heads of hood hinge mounting bolts and nuts.**

HOOD HINGE

HOOD HINGE : Exploded View

INFOID:0000000004533792



1. Hood assembly
2. Hood bumper rubber
3. Hood seal (front)
4. Hood support rod
5. Grommet
6. Hood hinge
7. Clamp

Refer to GI-4, "Components" for symbols in the figure.

HOOD HINGE : Removal and Installation

INFOID:0000000004533793

REMOVAL

1. Remove hood assembly. Refer to DLK-199, "HOOD ASSEMBLY : Removal and Installation".
2. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

Install in the reverse order of removal.

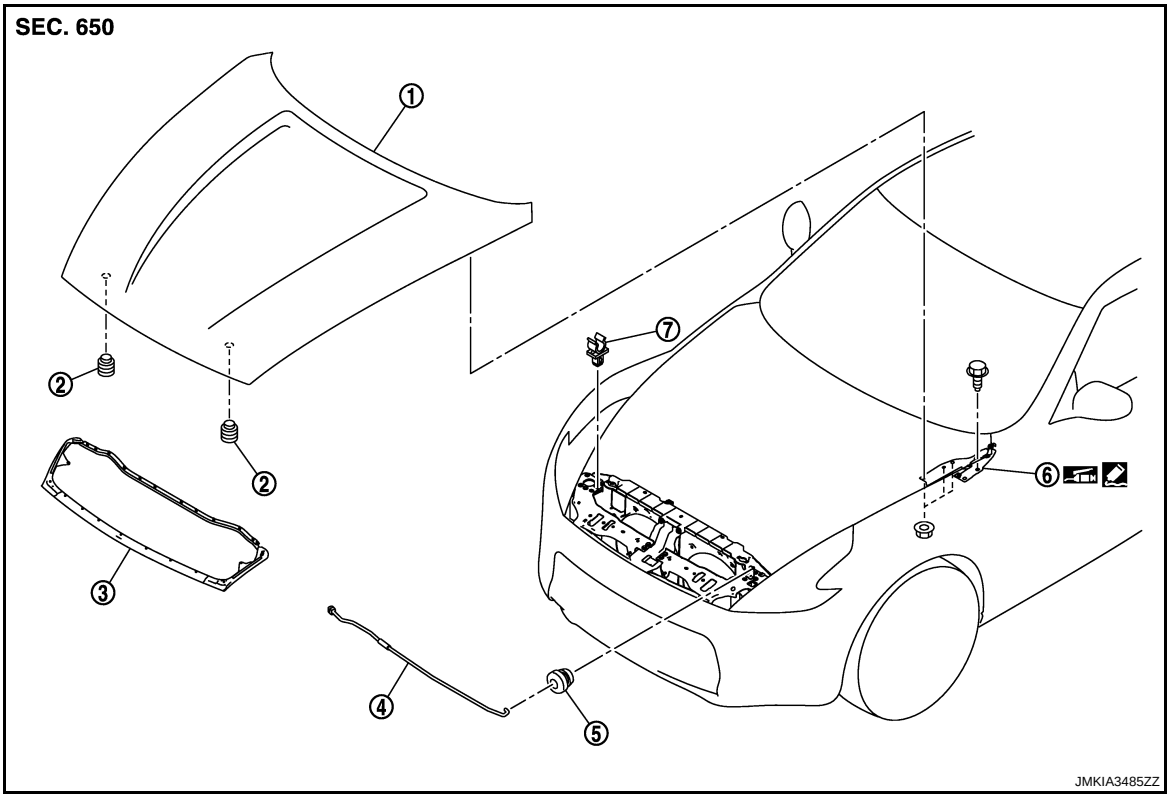
CAUTION:

- **Apply anticorrosive agent onto the mounting surface.**
- **Check hood hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, check hood open/close, lock/unlock operation.**
- **After installation, apply touch-up paint (the body color) onto the heads of hood hinge mounting bolts and nuts.**
- **After installation, perform the fitting adjustment. Refer to DLK-200, "HOOD ASSEMBLY : Adjustment".**

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Exploded View

INFOID:0000000004533794



1. Hood assembly
2. Hood bumper rubber
3. Hood seal (front)
4. Hood support rod
5. Grommet
6. Hood hinge
7. Clamp

Refer to GI-4, "Components" for symbols in the figure.

HOOD SUPPORT ROD : Removal and Installation

INFOID:0000000004533795

REMOVAL

1. Support hood assembly with a suitable material to prevent it from falling.

   WARNING:
   Bodily injury may occur if no supporting rod is holding the hood open when removing the hood support rod.
2. Pull hood support rod from grommet and remove.

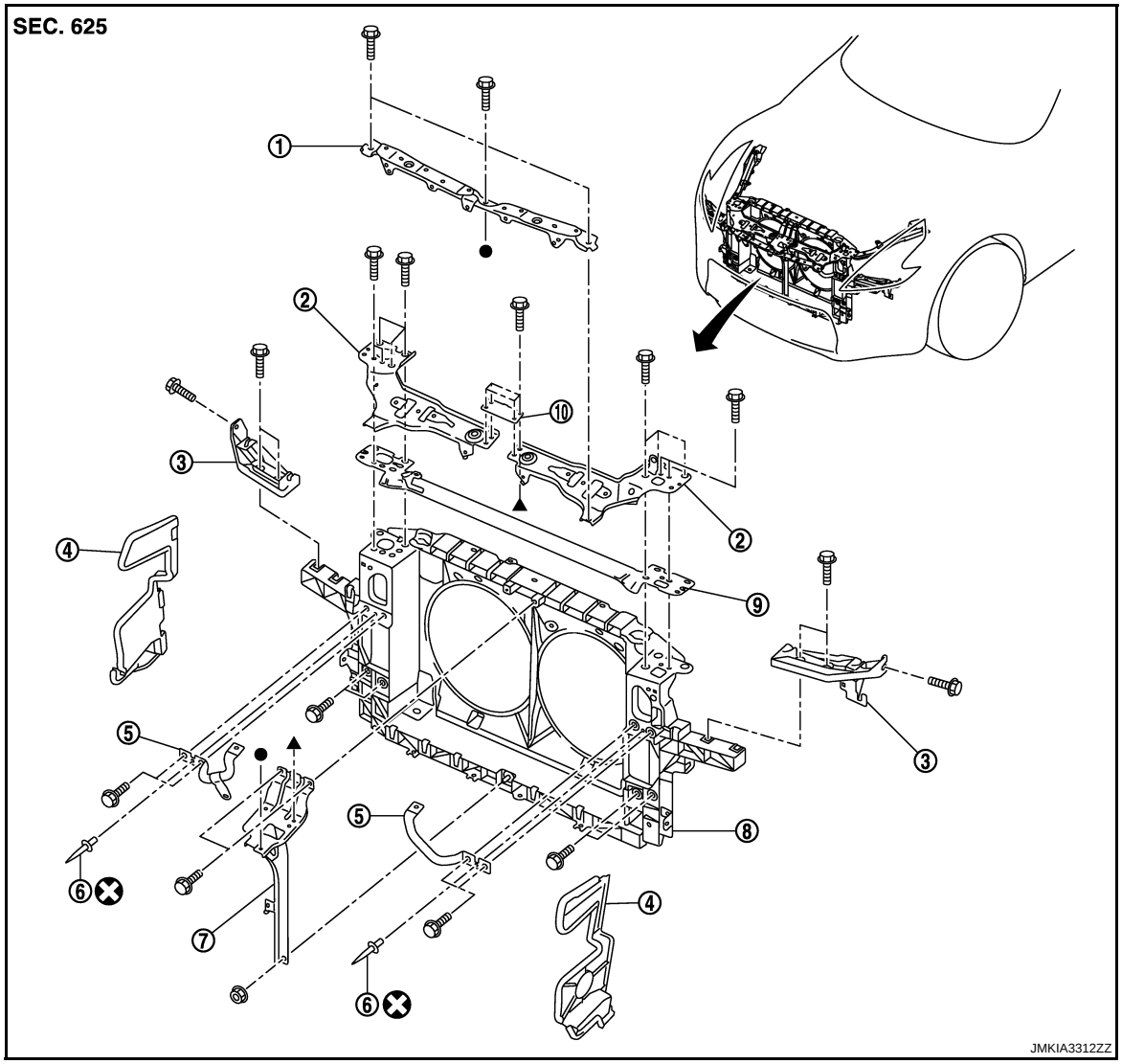
INSTALLATION

Install in the reverse order of removal.

RADIATOR CORE SUPPORT

Exploded View

INFOID:0000000004533796



1. Front bumper retainer
2. Hood lock bracket (LH/RH)
3. Head lamp bracket (LH/RH)
4. Air guide (LH/RH)
5. Hood lock stay (LH/RH)
6. Rivet
7. Hood lock stay assembly
8. Radiator core support assembly
9. Radiator core support reinforcement
10. Hood lock bracket (center)

Refer to GI-4, "Components" for symbols in the figure.

Removal and Installation

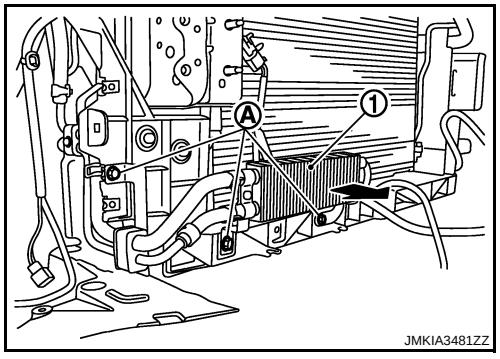
INFOID:0000000004533797

REMOVAL

1. Remove front bumper fascia, energy absorber, and bumper reinforcement. Refer to EXT-13, "Removal and Installation".
2. Remove engine under cover. Refer to EXT-29, "FLOOR UNDER COVER : Removal and Installation".
3. Drain engine coolant from radiator. Refer to MA-19, "ENGINE COOLANT : Draining".
4. Use refrigerant collecting equipment to discharge the refrigerant. Refer to HA-25, "Recycle Refrigerant".
5. Remove air guide (LH/RH).
6. Remove bumper center upper finisher. Refer to EXT-12, "Exploded View".

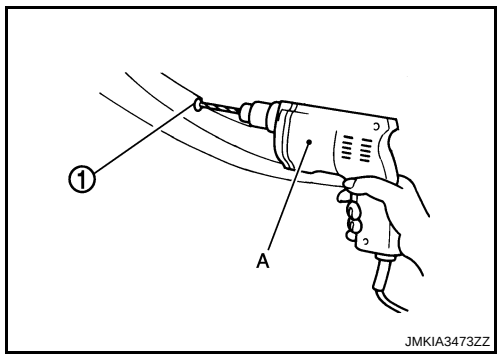
7. Disconnect harness clips and hood lock control cable clips from bumper retainer.
8. Remove bumper retainer.
9. Remove horn (HIGH/LOW). Refer to HRN-6, "Removal and Installation".
10. Remove hood lock (LH/RH). Refer to DLK-222, "Removal and Installation".
11. Remove front combination lamp (LH/RH). Refer to EXL-160, "Removal and Installation".
12. Support hood assembly with a suitable material to prevent it from falling.

    WARNING:
    Bodily injury may occur if no supporting rod is holding the hood open when removing the hood support rod.
13. Remove hood lock bracket (center).
14. Remove hood lock bracket (LH/RH).
    NOTE:
    Remove hood lock bracket RH and washer inlet at the same time.
15. Remove ambient sensor. Refer to HAC-86, "Removal and Installation".
16. Remove hood lock stay assembly.
17. Remove radiator core support reinforcement.
18. Remove washer tank. Refer to WW-86, "Removal and Installation".
19. Remove Intelligent Key warning buzzer. Refer to DLK-238, "Removal and Installation".
20. Remove head lamp bracket (LH/RH).
21. Remove air cleaner case assembly (LH/RH). Refer to EM-27, "Removal and Installation".
22. Remove air duct (LH/RH). Refer to EM-27, "Removal and Installation".
23. Disconnect condenser pipe assembly at one touch joint. Refer to HA-40, "CONDENSER PIPE ASSEMBLY : Removal and Installation".
24. Remove the radiator reservoir tank. Refer to CO-13, "Exploded View".
25. Remove radiator upper hose. Refer to CO-13, "Exploded View".
26. Disconnect harness connector of refrigerant pressure sensor. Refer to HA-39, "Exploded View".
27. Remove crash zone sensor. Refer to SR-21, "Removal and Installation".
28. Disconnect harness connector of cooling fan. Refer to CO-16, "Removal and Installation".
29. Remove upper mount bracket, and then tilt radiator toward vehicle front. Refer to CO-13, "Exploded View".
30. Disconnect all harness clips from radiator core support assembly.
    CAUTION:
    Never damage radiator.
31. Remove radiator lower hose at radiator side.
32. Disconnect A/T fluid cooler hose.
33. Remove mounting bolts (A), and then move power steering fluid cooler assembly (1) toward vehicle front.



34. Remove hood lock stay (LH/RH).
    - Remove the rivets, and then remove the hood lock stay (LH/RH) from the radiator core support assembly.
      NOTE:
      Removal of rivet.

Grind the head of rivet (1) with a drill (A) [bit of 4.0 - ϕ4.5 mm (0.157 - ϕ0.177 in)] and then remove the hood lock stay (LH/RH).



35. Remove mounting bolts, and then remove radiator core support assembly.
CAUTION:
- **Operate with 2 workers, because of its heavy weight.**
- **Never damage power steering oil cooler pipe.**

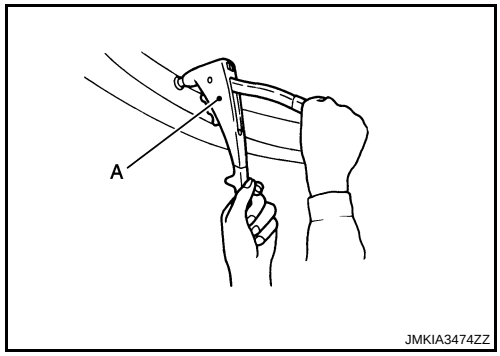
36. Remove the following parts after removing radiator core support assembly.
- Cooling fan (LH/RH). Refer to CO-16, "Removal and Installation".
- Radiator and condenser assembly. Refer to CO-14, "Removal and Installation".

INSTALLATION

Install in the reverse order of removal.

NOTE:

Securely crimp the hood lock stay (LH/RH) with the radiator core support assembly with a hand riveter (A).



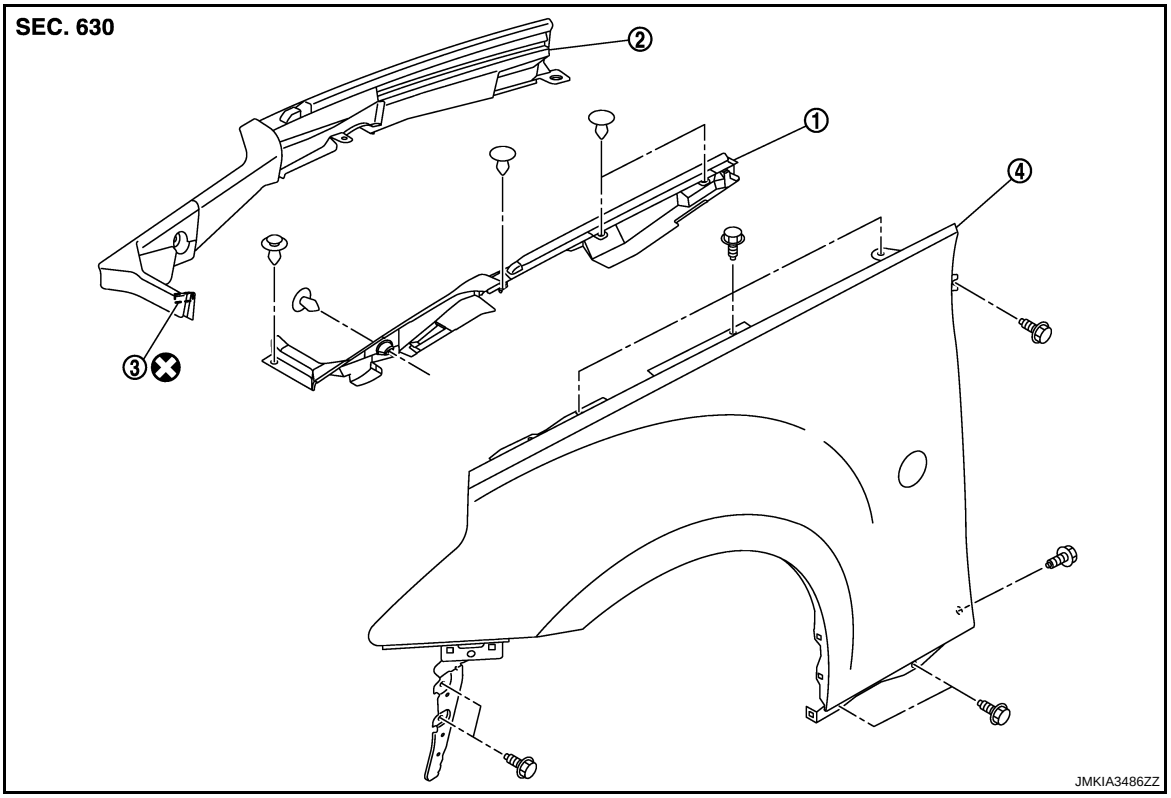
Hood lock stay (LH/RH)	
Used rivet head diameter	**: ϕ9.6 mm (ϕ0.378 in)**

CAUTION:
- **After installation, fill the following parts.**
- **Refrigerant: Refer to HA-25, "Charge Refrigerant".**
- **Engine coolant: Refer to CO-8, "Refilling".**
- **A/T fluid: Refer to TM-289, "Changing".**
- **After installation, adjust the following parts.**
- **Front combination lamp: Refer to EXL-157, "Description".**

FRONT FENDER

Exploded View

INFOID:0000000004533798



1. Hood seal (side) (LH)
2. Hood seal (side) (RH)
3. Double-faced adhesive tape [t: 2.0mm (0.079in)]
4. Front fender assembly

Refer to GI-4, "Components" for symbols in the figure.

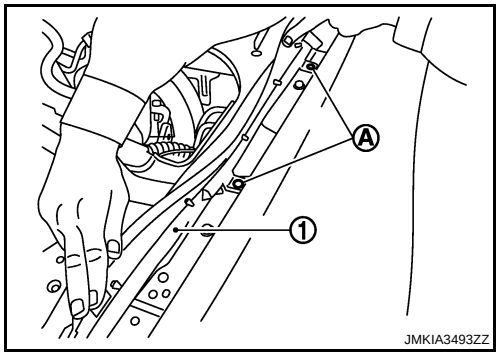
Removal and Installation

INFOID:0000000004533799

CAUTION:
Use protective tape or shop cloth to protect from damage during removal and installation.

REMOVAL

1. Remove front bumper fascia. Refer to EXT-13, "Removal and Installation".
2. Remove front combination lamp. Refer to EXL-160, "Removal and Installation".
3. Remove side turn signal lamp. Refer to EXL-166, "Removal and Installation".
4. Remove clips (A) of hood seal (side) (1).



5. Remove clips and screws of fender protector. Refer to EXT-24, "FENDER PROTECTOR : Removal and Installation".

6. Remove center mud guard. Refer to EXT-26, "Removal and Installation".
7. Remove mounting bolts and remove front fender.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

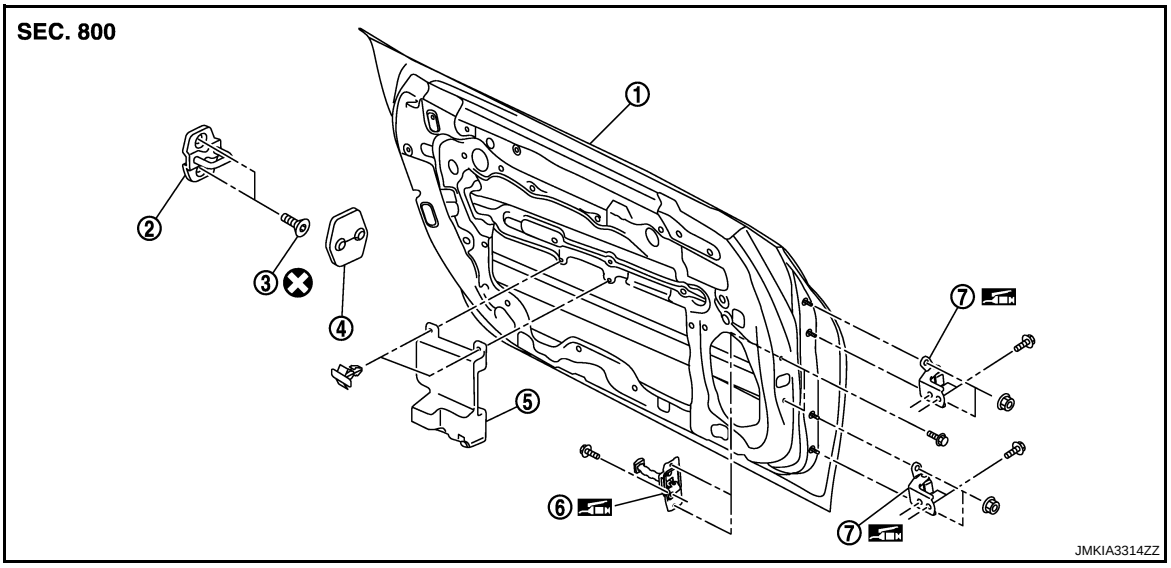
- **After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.**
- **After installation, adjust the following parts.**
- **Hood assembly: Refer to DLK-200, "HOOD ASSEMBLY : Adjustment".**
- **Door: Refer to DLK-210, "DOOR ASSEMBLY : Adjustment".**
- **Front combination lamp: Refer to EXL-157, "Description".**

DOOR

DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:0000000004533801



1. Door panel
2. Door striker
3. TORX bolt
4. Door striker cover
5. Door pad
6. Door check link
7. Door hinge (upper/lower)

Refer to GI-4, "Components" for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:0000000004533802

CAUTION:
- **Operate with 2 workers, because of its heavy weight.**
- **Use protective tape or shop cloth to protect from damage during removal and installation.**

REMOVAL

1. Remove mounting bolts of door check link on the vehicle.
2. Disconnect door harness connector.
3. Remove door hinge mounting nuts (door side), and then remove door assembly.

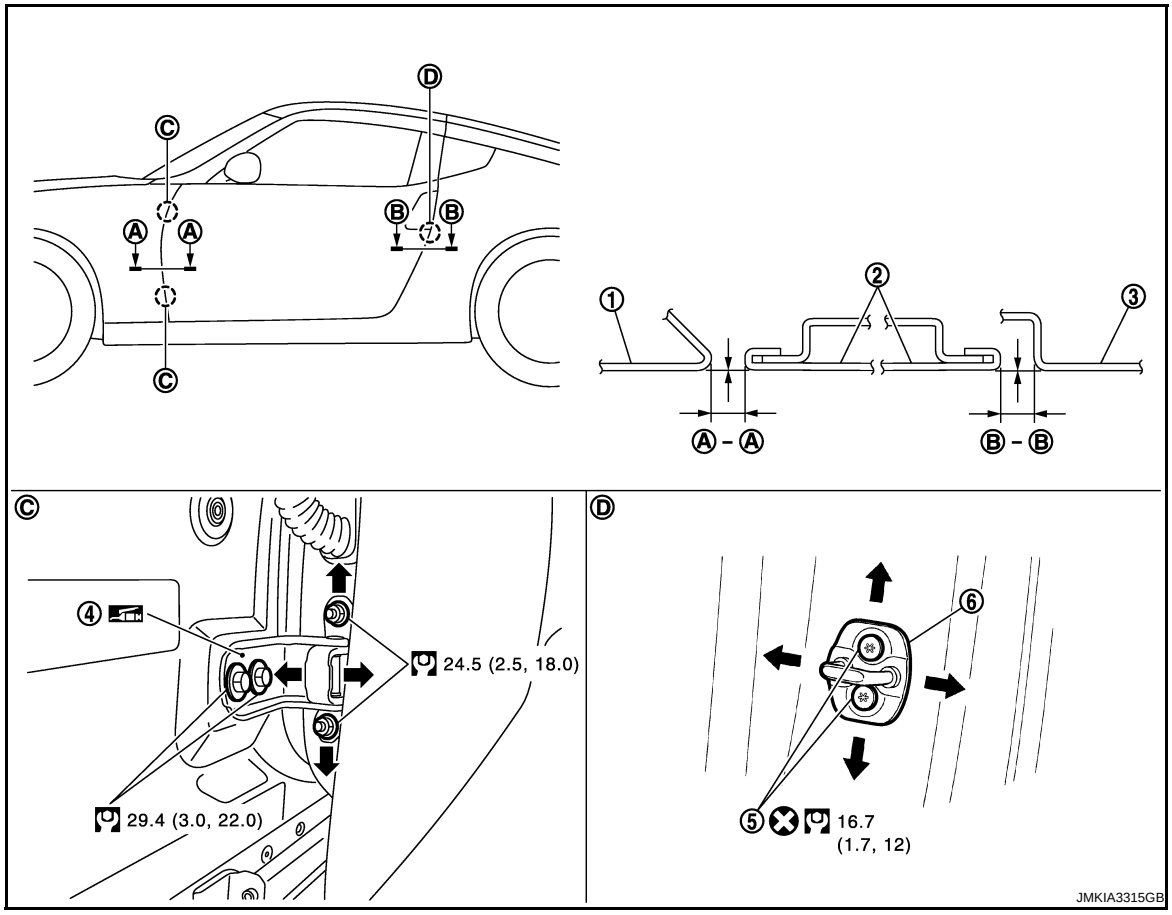
INSTALLATION

Install in the reverse order of removal.

CAUTION:
- **Apply anticorrosive agent onto the mounting surface.**
- **Check door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, check door open/close, and lock/unlock operation.**
- **After installation, perform the fitting adjustment. Refer to DLK-210, "DOOR ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.**

DOOR ASSEMBLY : Adjustment

INFOID:0000000004533803



1. Front fender
2. Door panel
3. Rear fender
4. Door hinge (upper/lower)
5. TORX bolt
6. Door striker

Refer to GI-4, "Components" for symbols in the figure.

Check the clearance and surface height between door and each part by seeing and touching.
If the clearance and surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm (in)

Portion		Clearance	Surface height
Front fender – Door	A – A	3.0 – 5.0 (0.118 – 0.197)	–1.0 – 1.0 (–0.039 – 0.039)
Door – Rear fender	B – B	3.0 – 5.0 (0.118 – 0.197)	–1.0 – 1.0 (–0.039 – 0.039)

1. Remove front fender. Refer to DLK-207, "Removal and Installation".
2. Loosen door hinge mounting nuts on door side.
3. Adjust the surface height of door according to the fitting standard dimension.
4. Temporarily tighten door hinge mounting nuts on door side.
5. Loosen door hinge mounting bolts on body side.
6. Raise front at rear end to adjust clearance of the door according to the fitting standard dimension.
7. Tighten each bolt and nut to the specified torque.

CAUTION:

- **Apply anticorrosive agent onto the mounting surface.**
- **Check door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, check door open/close, and lock/unlock operation.**

- **After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.**

8. Install front fender. Refer to DLK-207, "Removal and Installation".

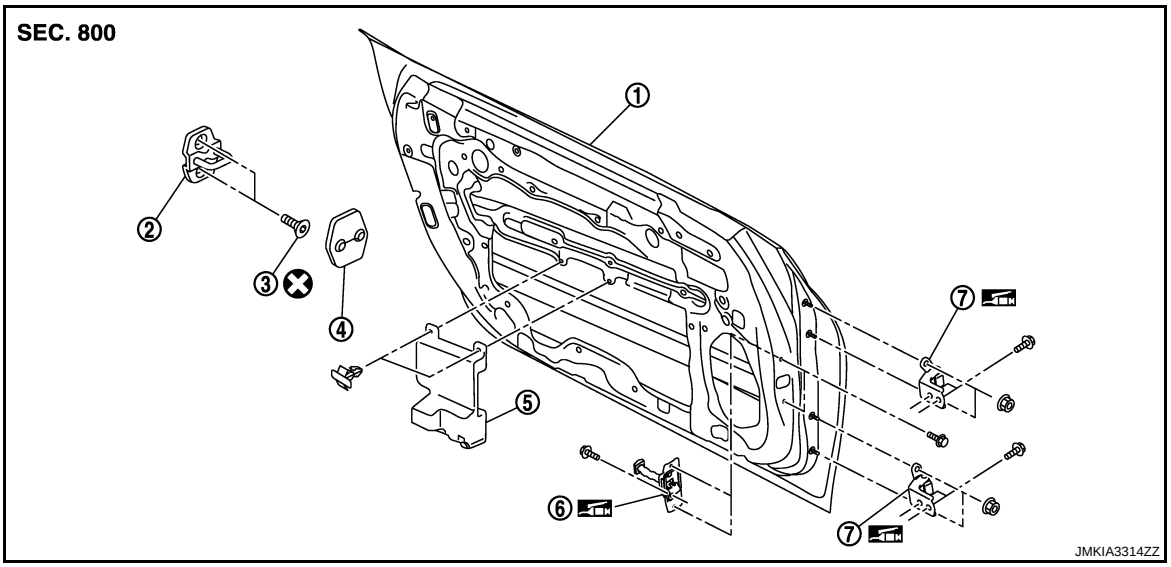
DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DOOR STRIKER : Exploded View

INFOID:0000000004533804



1. Door panel
2. Door striker
3. TORX bolt
4. Door striker cover
5. Door pad
6. Door check link
7. Door hinge (upper/lower)

Refer to GI-4, "Components" for symbols in the figure.

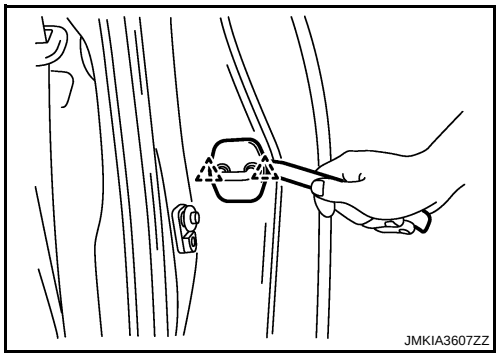
DOOR STRIKER : Removal and Installation

INFOID:0000000004533805

REMOVAL

1. Remove door striker cover.

: Pawl



2. Remove TORX bolts, and then remove door striker.

INSTALLATION

Install in the reverse order of removal.

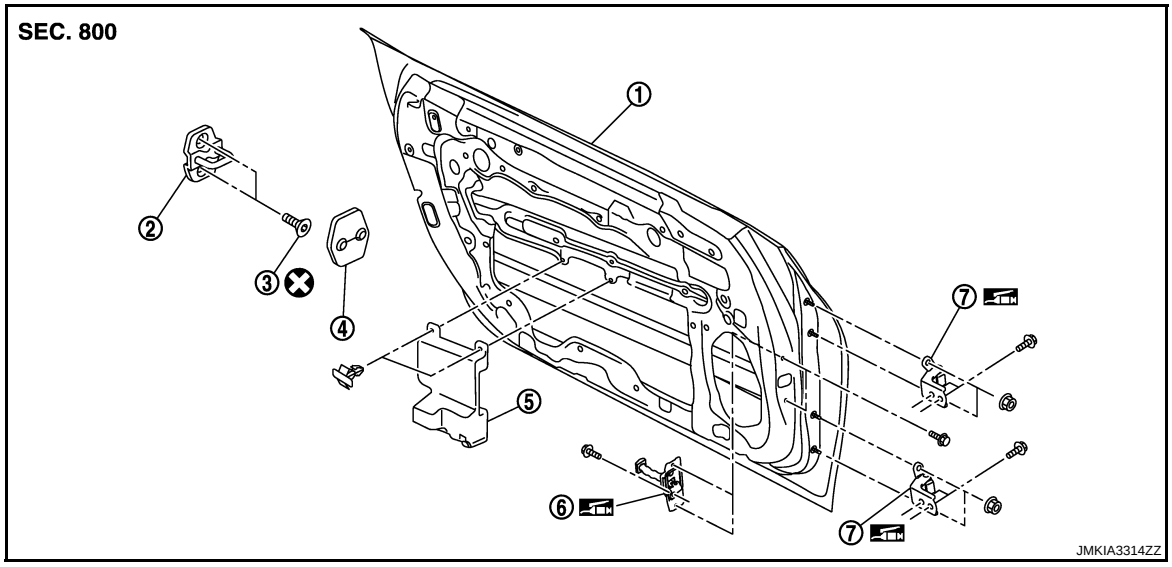
CAUTION:

- **After installation, check door open/close, and lock/unlock operation.**
- **After installation, perform the fitting adjustment. Refer to DLK-210, "DOOR ASSEMBLY : Adjustment".**

DOOR HINGE

DOOR HINGE : Exploded View

INFOID:0000000004533806



1. Door panel
2. Door striker
3. TORX bolt
4. Door striker cover
5. Door pad
6. Door check link
7. Door hinge (upper/lower)

Refer to GI-4, "Components" for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:0000000004533807

REMOVAL

1. Remove door assembly. Refer to DLK-209, "DOOR ASSEMBLY : Removal and Installation".
2. Remove door hinge mounting bolts, and then remove door hinge.

INSTALLATION

Install in the reverse order of removal.

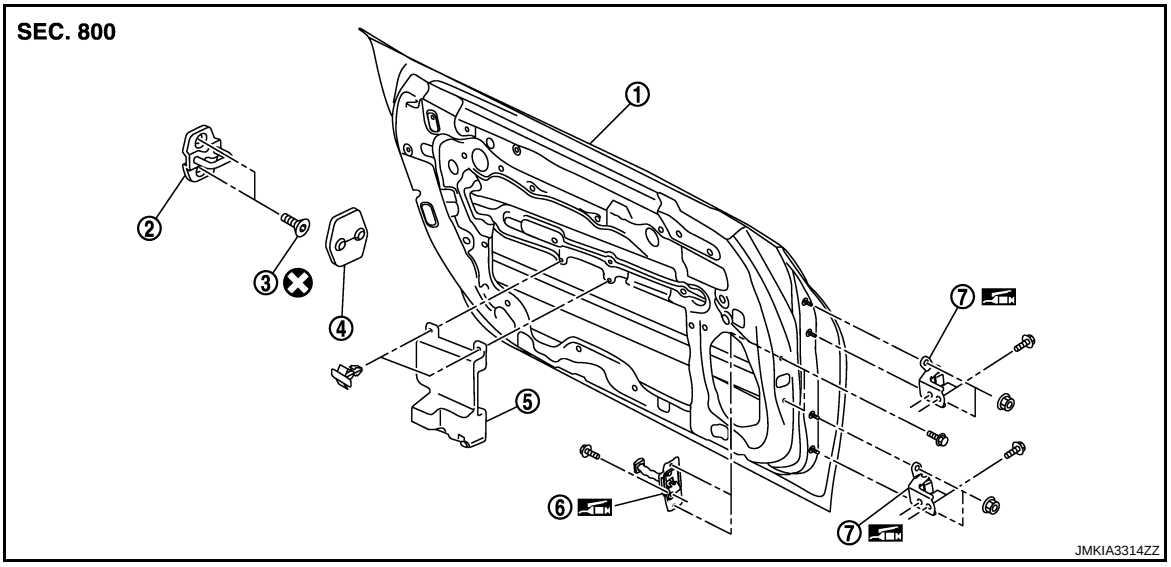
CAUTION:

- **Apply anticorrosive agent onto the mounting surface.**
- **Check door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, check door open/close, and lock/unlock operation.**
- **After installation, perform the fitting adjustment. Refer to DLK-210, "DOOR ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.**

DOOR CHECK LINK

DOOR CHECK LINK : Exploded View

INFOID:0000000004533808



1. Door panel
2. Door striker
3. TORX bolt
4. Door striker cover
5. Door pad
6. Door check link
7. Door hinge (upper/lower)

Refer to GI-4, "Components" for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:0000000004533809

REMOVAL

1. Remove door finisher. Refer to INT-12, "Removal and Installation".
2. Fully close the door window.
3. Remove door speaker. Refer to AV-141, "Removal and Installation" (without navigation) or AV-333, "Removal and Installation" (with navigation).
4. Remove mounting bolts of door check link on the vehicle.
5. Remove mounting bolts of door check link on door panel.
6. Take door check link out from the hole of door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

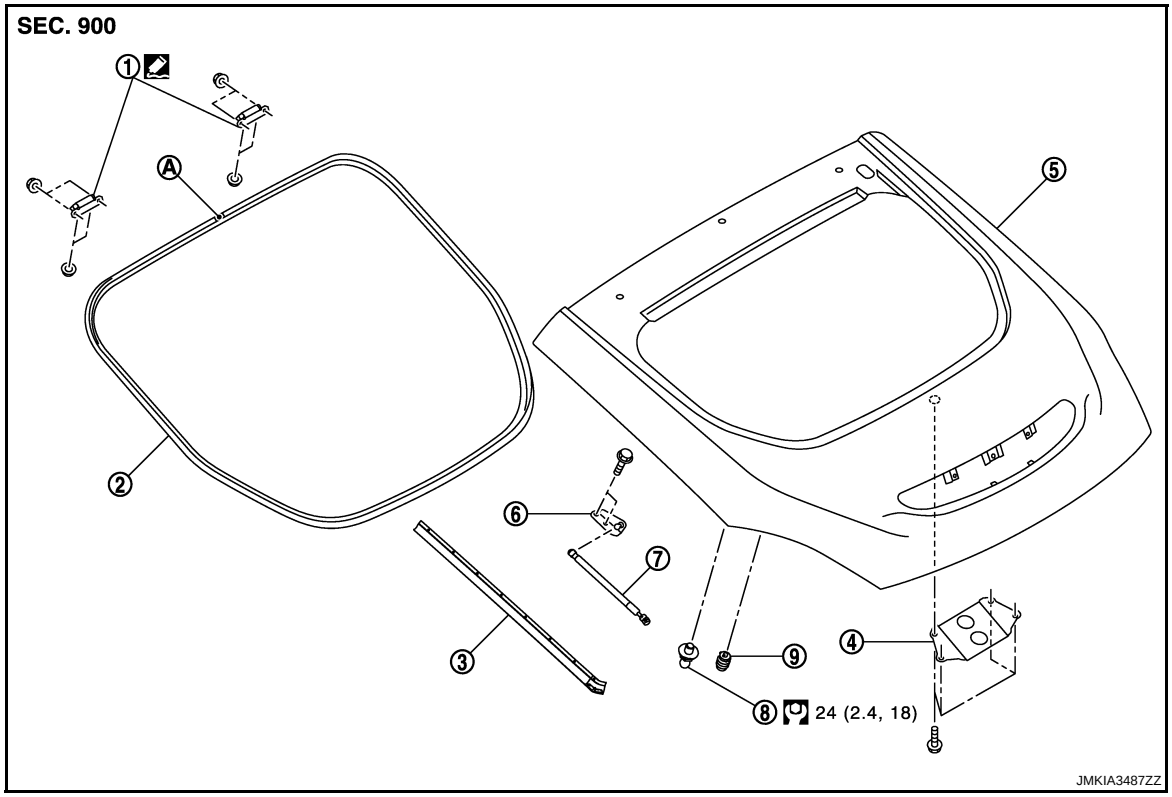
After installation, check door open/close operation.

BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:0000000004533819



1.	Back door hinge	2.	Back door weather-strip	3.	Back door side seal
4.	Back door damper	5.	Back door assembly	6.	Back door stay bracket
7.	Back door stay	8.	Stud ball	9.	Back door bumper rubber

A : Center mark

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:0000000004533820

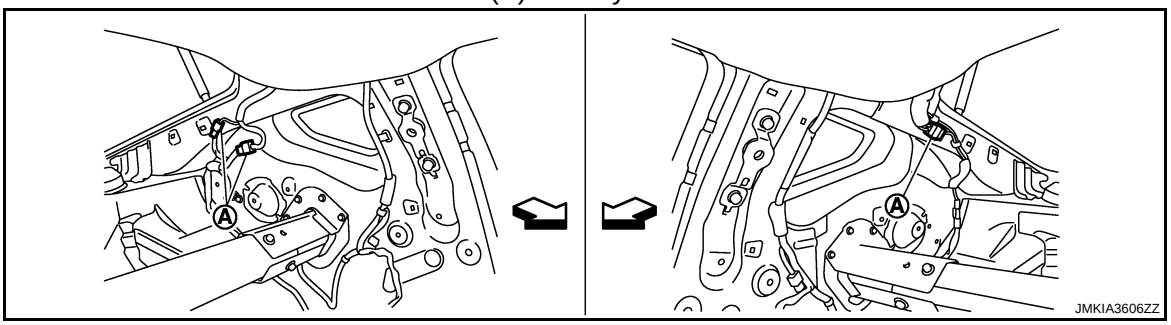
CAUTION:

- **Operate with 2 workers, because of its heavy weight.**
- **Use protective tape or shop cloth to protect from damage during removal and installation.**

REMOVAL

1. Remove back door finisher upper. Refer to INT-28, "Removal and Installation".
2. Remove luggage side finisher upper (LH/RH). Refer to INT-27, "Removal and Installation".
3. Remove rear pillar finisher (LH/RH). Refer to INT-15, "Removal and Installation".
4. Remove clips of headlining at rear end. Refer to INT-23, "Removal and Installation".

5. Disconnect back door harness connectors (A) at body side.



⇦ : Vehicle front

6. Back door, and then pull harness out of vehicle at roof panel hole.
7. Support back door lock with the suitable material to prevent it from falling.

WARNING:
Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

8. Remove back door stay (LH/RH). Refer to DLK-219, "BACK DOOR STAY : Removal and Installation".
9. Remove back door hinge (LH/RH) mounting nuts on back door and remove back door assembly.

INSTALLATION

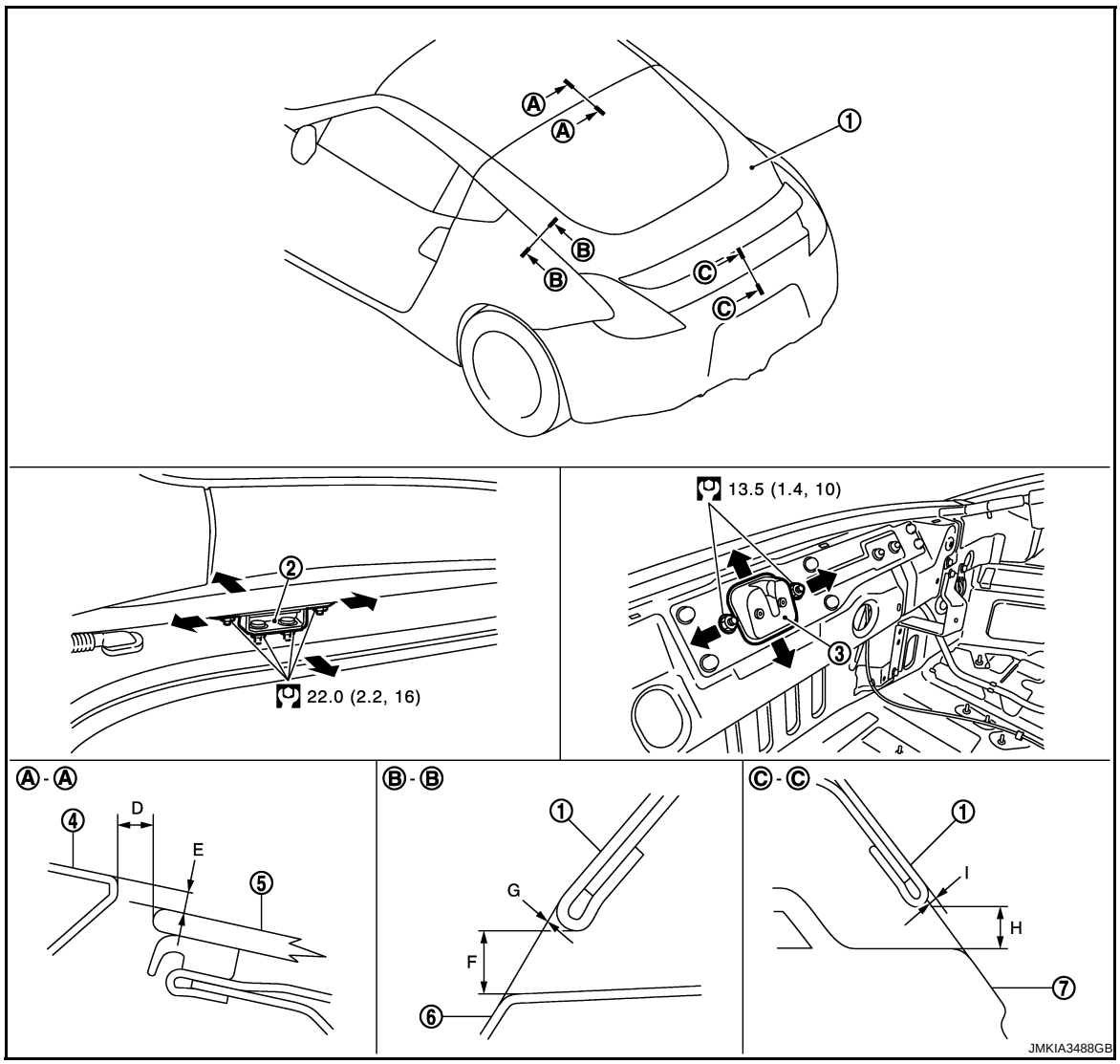
Install in the reverse order of removal.

CAUTION:

- **Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, check back door open/close, lock/unlock operation.**
- **After installation, perform the fitting adjustment. Refer to DLK-216, "BACK DOOR ASSEMBLY : Adjustment".**

BACK DOOR ASSEMBLY : Adjustment

INFOID:0000000004533821



1. Back door assembly
2. Back door hinge
3. Back door lock
4. Roof
5. Back door glass
6. Rear fender
7. Rear bumper fascia

Refer to GI-4, "Components" for symbols in the figure.

Check the clearance and the surface height between back door and each part by seeing and touching.
If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm (in)

Portion				Standard
Back door – Roof	A – A	D	Clearance	3.0 – 7.0 (0.118 – 0.276)
		E	Surface height	–0.1 – 4.1 (–0.004 – 0.161)
Back door – Rear fender	B – B	F	Clearance	3.0 – 7.0 (0.118 – 0.276)
		G	Surface height	–1.2 – 2.8 (–0.047 – 0.110)
Back door – Rear bumper	C – C	H	Clearance	3.0 – 7.0 (0.118 – 0.276)
		I	Surface height	–1.0 – 3.0 (–0.039 – 0.118)

1. Remove back door weather-strip. Refer to DLK-221, "BACK DOOR WEATHER-STRIP : Removal and Installation".
2. Remove the luggage rear plate. Refer to INT-27, "Removal and Installation".
3. Loosen the back door lock mounting bolts. Raise the back door lock to the top position, and temporarily tighten the back door lock mounting bolts at the position.
4. Close the back door lightly and adjust the surface height, then open the back door to finally tighten the back door lock mounting bolts to the specified torque.

CAUTION:

- **Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, check back door open/close, lock/unlock operation.**

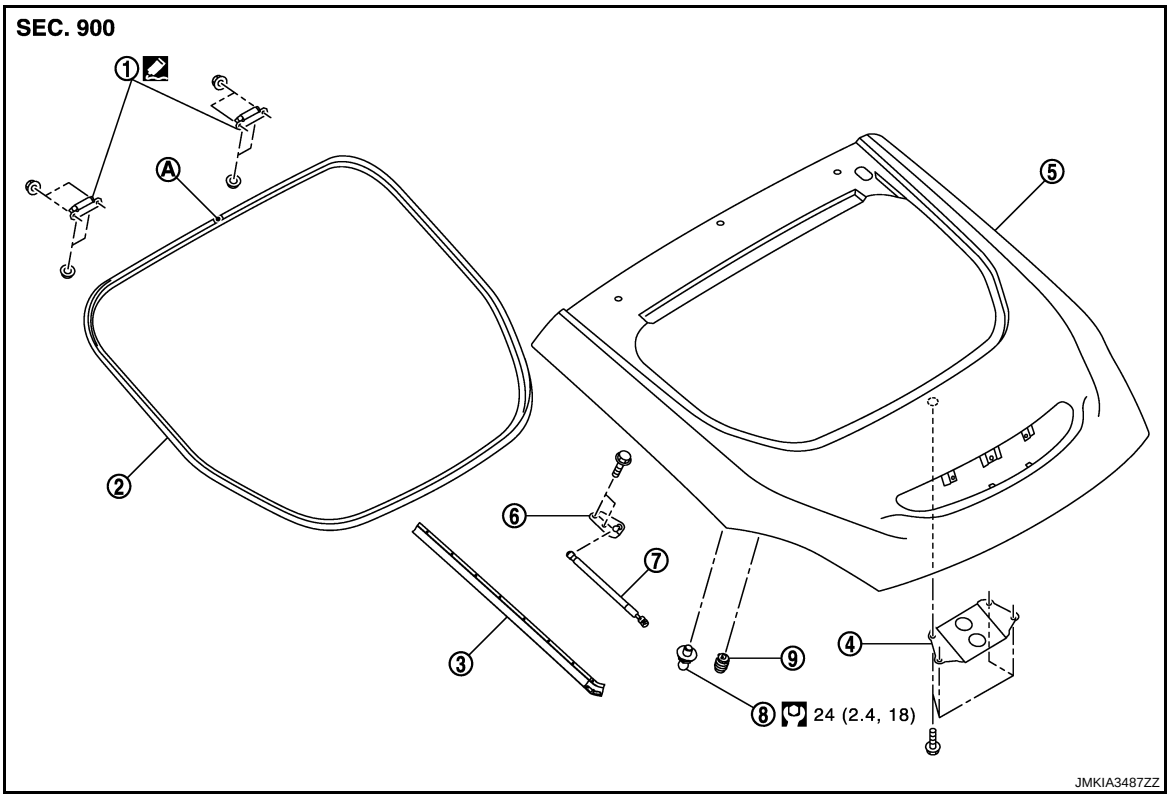
BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that it becomes parallel with back door lock insertion direction.

BACK DOOR STRIKER

BACK DOOR STRIKER : Exploded View

INFOID:0000000004533822



1. Back door hinge	2. Back door weather-strip	3. Back door side seal
4. Back door damper	5. Back door assembly	6. Back door stay bracket
7. Back door stay	8. Stud ball	9. Back door bumper rubber

A : Center mark

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR STRIKER : Removal and Installation

INFOID:0000000004533823

REMOVAL

1. Remove back door finisher lower. Refer to INT-28, "Removal and Installation".
2. Remove mounting bolts, and then remove back door striker.

INSTALLATION

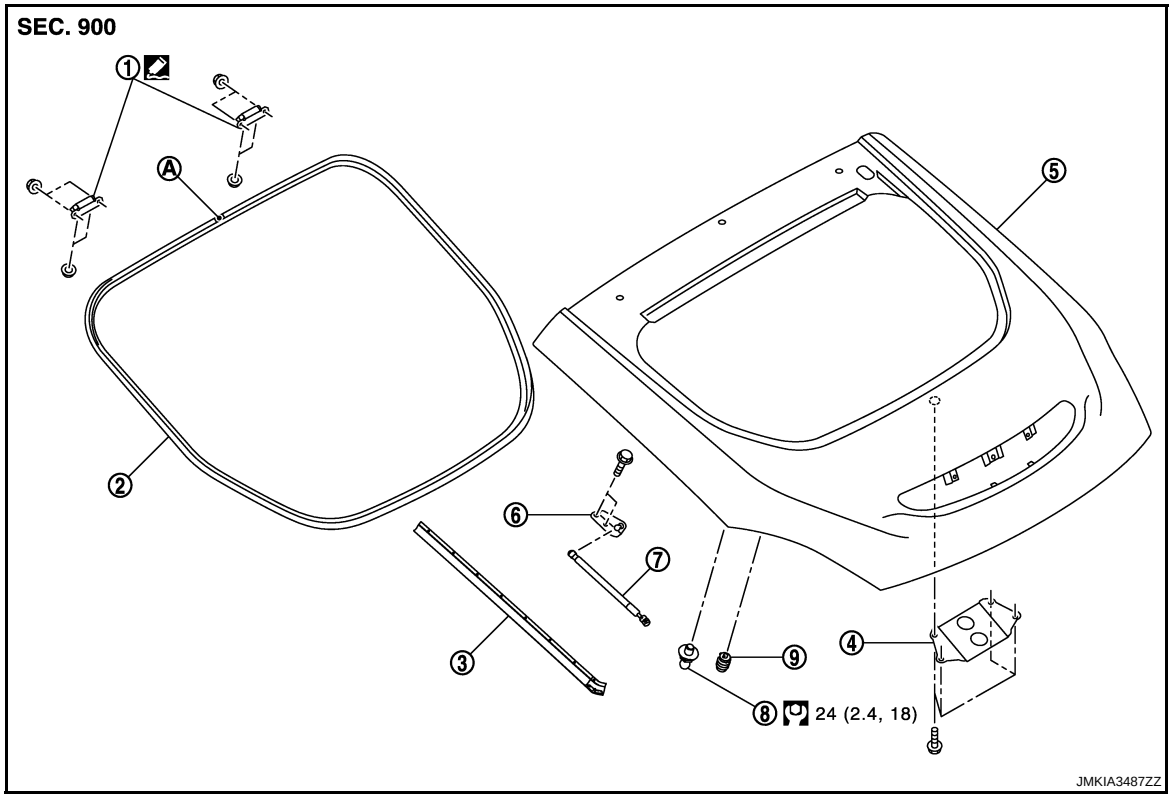
Install in the reverse order of removal.

CAUTION:
- **After installation, check back door open/close, lock/unlock operation.**
- **After installation, perform the fitting adjustment. Refer to DLK-216, "BACK DOOR ASSEMBLY : Adjustment".**

BACK DOOR HINGE

BACK DOOR HINGE : Exploded View

INFOID:0000000004533824



1. Back door hinge	2. Back door weather-strip	3. Back door side seal
4. Back door damper	5. Back door assembly	6. Back door stay bracket
7. Back door stay	8. Stud ball	9. Back door bumper rubber
A : Center mark		

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR HINGE : Removal and Installation

INFOID:0000000004533825

REMOVAL

1. Remove back door assembly. Refer to DLK-214, "BACK DOOR ASSEMBLY : Removal and Installation".
2. Remove luggage side finisher upper (LH/RH). Refer to INT-27, "Removal and Installation".
3. Remove rear pillar finisher (LH/RH). Refer to INT-15, "Removal and Installation".
4. Remove clips of headlining at rear end. Refer to INT-23, "Removal and Installation".
5. Remove back door hinge mounting nuts (body side), and then remove back door hinge.

INSTALLATION

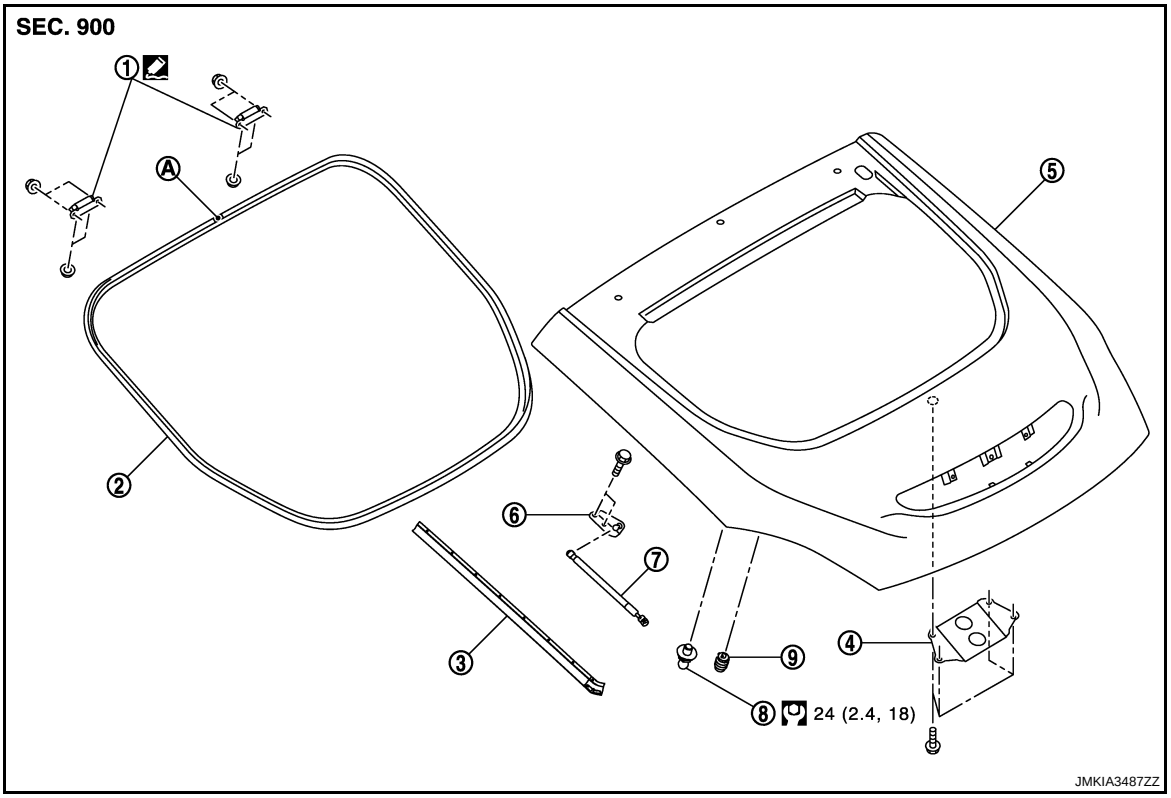
Install in the reverse order of removal.

CAUTION:
- **Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, check back door open/close, lock/unlock operation.**
- **After installation, perform the fitting adjustment. Refer to DLK-216, "BACK DOOR ASSEMBLY : Adjustment".**

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:0000000004533826



1. Back door hinge
2. Back door weather-strip
3. Back door side seal
4. Back door damper
5. Back door assembly
6. Back door stay bracket
7. Back door stay
8. Stud ball
9. Back door bumper rubber

A : Center mark

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR STAY : Removal and Installation

INFOID:0000000004533827

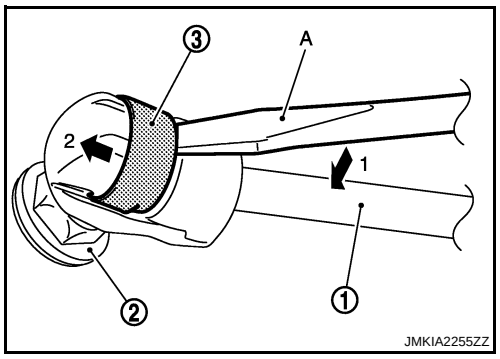
REMOVAL

1. Support back door lock with the suitable material to prevent it from falling.

   WARNING:

   Bodily injury may occur if no supporting rod is holding the back door open when removing the back door stay.

2. Remove the metal clip (3) located on the connection between the back door stay (1) and the stud ball (2) (back door side) by using a flat-bladed screwdriver (A).
3. Remove back door stay (back door side).



4. In the same way, remove back door stay (body side).

INSTALLATION

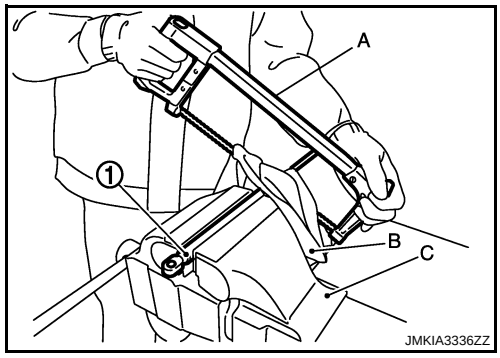
Install in the reverse order of removal.

CAUTION:
After installation, check back door open/close operation.

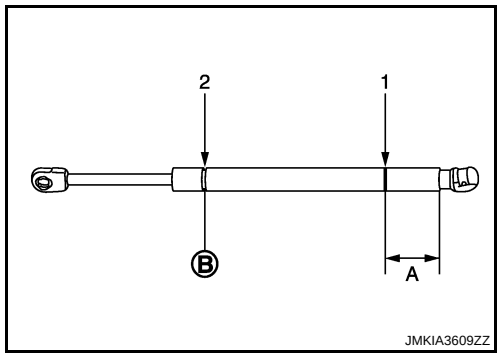
BACK DOOR STAY : Disposal

INFOID:0000000004702875

1. Fix back door stay (1) using a vise (C).
2. Using hacksaw (A) slowly make 2 holes in the back door stay, in numerical order as shown in the figure.
   CAUTION:
   - **When cutting a hole on back door stay, always cover a hacksaw using a shop cloth (B) to avoid scattering metal fragments or oil.**
   - **Wear eye protection (safety glasses).**
   - **Wear gloves.**



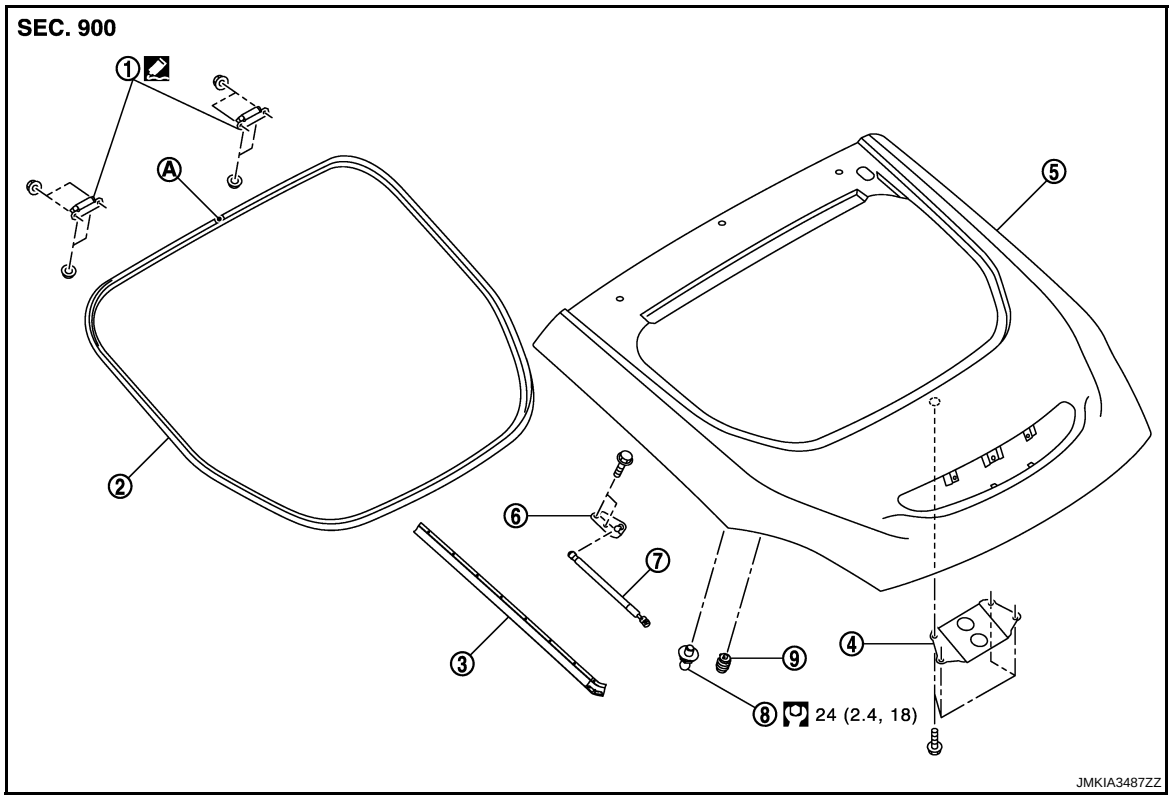
A: 20 mm (0.787 in)
B: Cut at the groove.



BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Exploded View

INFOID:0000000004533828



1. Back door hinge
2. Back door weather-strip
3. Back door side seal
4. Back door damper
5. Back door assembly
6. Back door stay bracket
7. Back door stay
8. Stud ball
9. Back door bumper rubber

A : Center mark

Refer to GI-4, "Components" for symbols in the figure.

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000004533829

REMOVAL

Pull up and remove engagement with body from weather-strip joint.

CAUTION:

Never pull strongly on weather-strip.

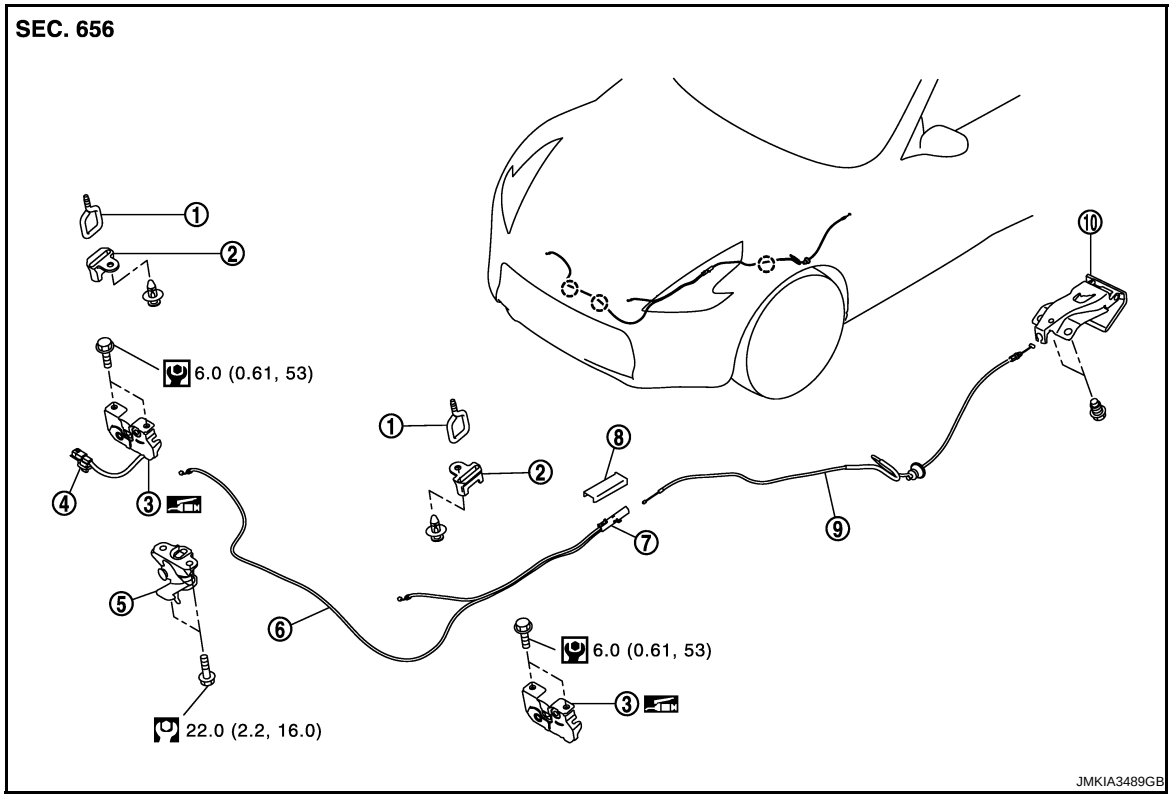
INSTALLATION

1. Working from the upper section, align weather-strip center mark with vehicle center position mark and install weather-strip onto the vehicle.
2. Pull weather-strip gently to check that a section is not loose.
   NOTE:
   Check that weather-strip fits tightly in each corner and luggage rear plate.

HOOD LOCK

Exploded View

INFOID:0000000004533830



1. Hood striker
2. Hood cover
3. Hood lock
4. Hood switch
5. Secondary latch
6. Hood lock control cable (front)
7. Hood lock control cable protector
8. Hood lock control cable protector cover
9. Hood lock control cable (rear)
10. Hood lock opener

: Clip

Refer to GI-4, "Components" for symbols in the figure.

Removal and Installation

INFOID:0000000004533831

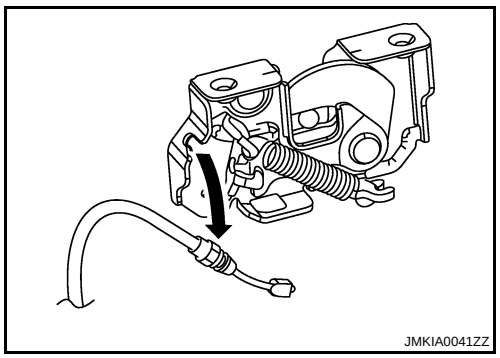
REMOVAL

CAUTION:

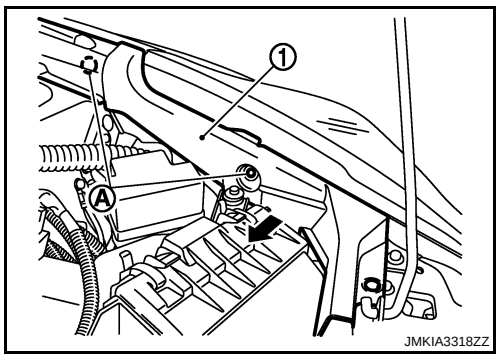
Before removal, confirm how the hood lock control cable is allocated and connected.

1. Remove bumper center upper finisher. Refer to EXT-12, "Exploded View".
2. Remove fender protector (LH). Refer to EXT-24, "FENDER PROTECTOR : Removal and Installation".
3. Disconnect hood lock switch (RH side) harness connector.
4. Disconnect the hood lock control cable clips on front bumper retainer.
5. Remove the hood lock mounting bolts, and disassemble the hood lock from the hood lock bracket (LH/RH). Refer to DLK-204, "Exploded View".
6. Remove mounting bolts and remove hood lock bracket (LH/RH).
7. Disassembly hood lock from hood lock bracket (LH/RH).

8. Disconnect the hood lock control cable (front) from the hood lock.

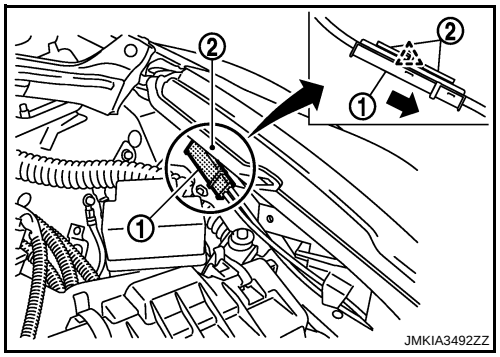


9. Disconnect clip (A) of hood seal assembly (side) (1), and then move toward vehicle inside.



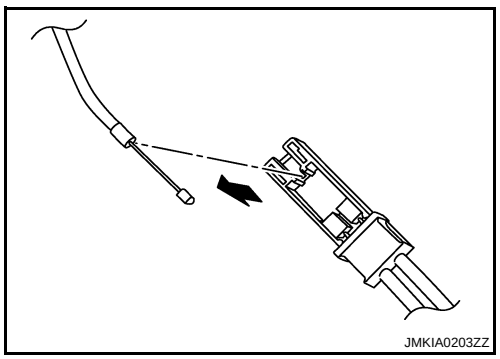
10. Remove the hood lock control cable protector (1) from the headlamp assembly (2).

: Pawl



11. Remove the hood lock control cable cover from hood lock control cable protector.

12. Disconnect the hood lock control cable (rear) from hood lock control cable protector.



13. Remove hood lock control cable from hood lock opener.
14. Remove the grommet on the dash-board, and pull the hood lock control cable (rear) toward the passenger compartment.

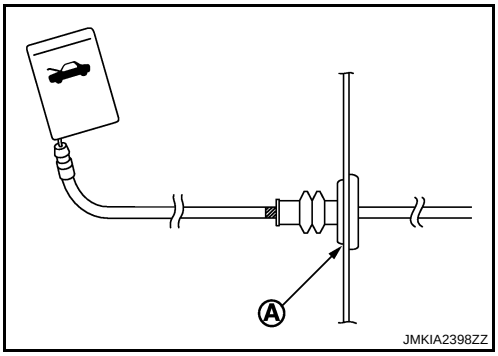
CAUTION:
While pulling, never damage (peeling) the outside of the hood lock control cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:
- **Never bend cable too much. Keep the radius 100 mm (3.937 in) or more.**

- **Check cable is not offset from the positioning grommet, and apply the sealant to the grommet (A) normally.**



- **Check that hood lock control cable is normally engaged with hood lock.**
- **After installation, perform the fitting adjustment. Refer to DLK-200, "HOOD ASSEMBLY : Adjustment".**
- **After installation, perform the inspection. Refer to DLK-224, "Inspection".**

Inspection

INFOID:0000000004533832

NOTE:
If the hood lock cable is bent or deformed, replace it.

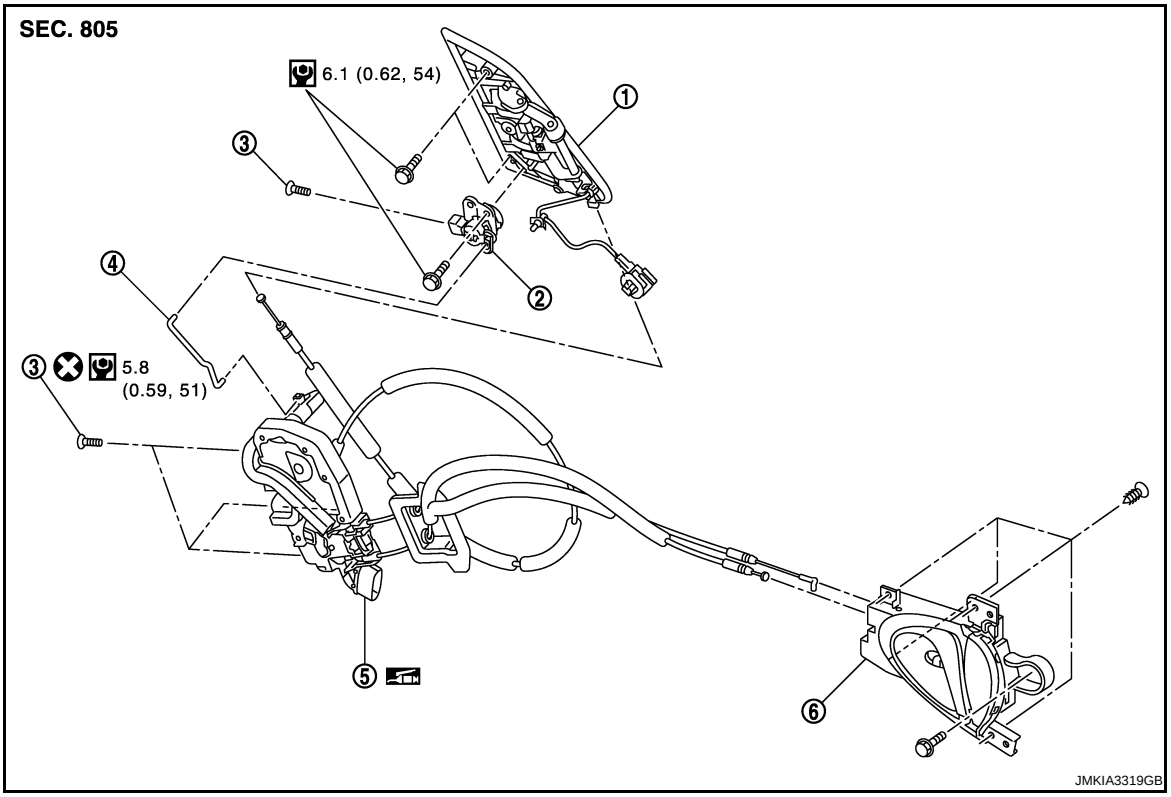
1. Check that secondary latch is normally engaged with secondary striker [6.8 mm (0.268 in)] by hood weight.
2. While operating hood opener, carefully check that the front end of hood is raised by approximately 20 mm (0.787 in). Also check that hood opener returns to the original position.
3. Check that hood opener operating is condition 49 N (5.0 kg, 11.0 lb) or less.
4. Install so that static closing force of hood is 94 – 490 N (9.6 – 50.0 kg, 21.1 – 110 lb).
   NOTE:
   - Exert vertical force on right side and left side of hood lock.
   - Do not simultaneously press both sides.
5. Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.

DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:0000000004533833



1. Outside handle	2. Door key cylinder assembly (driver side)	3. TORX bolt
4. Key rod (driver side)	5. Door lock assembly	6. Inside handle

Refer to GI-4, "Components" for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:0000000004533834

REMOVAL

1. Remove door finisher. Refer to INT-12, "Removal and Installation".
2. Remove door glass. Refer to GW-18, "Removal and Installation".
3. Remove door module assembly. Refer to GW-21, "Removal and Installation".
4. Disconnect key rod (driver side) and outside handle cable from outside handle assembly.
5. Remove door lock assembly TORX bolts.
6. Disconnect door lock actuator connector, and then remove door lock assembly.

INSTALLATION

Install in the reverse order of removal.

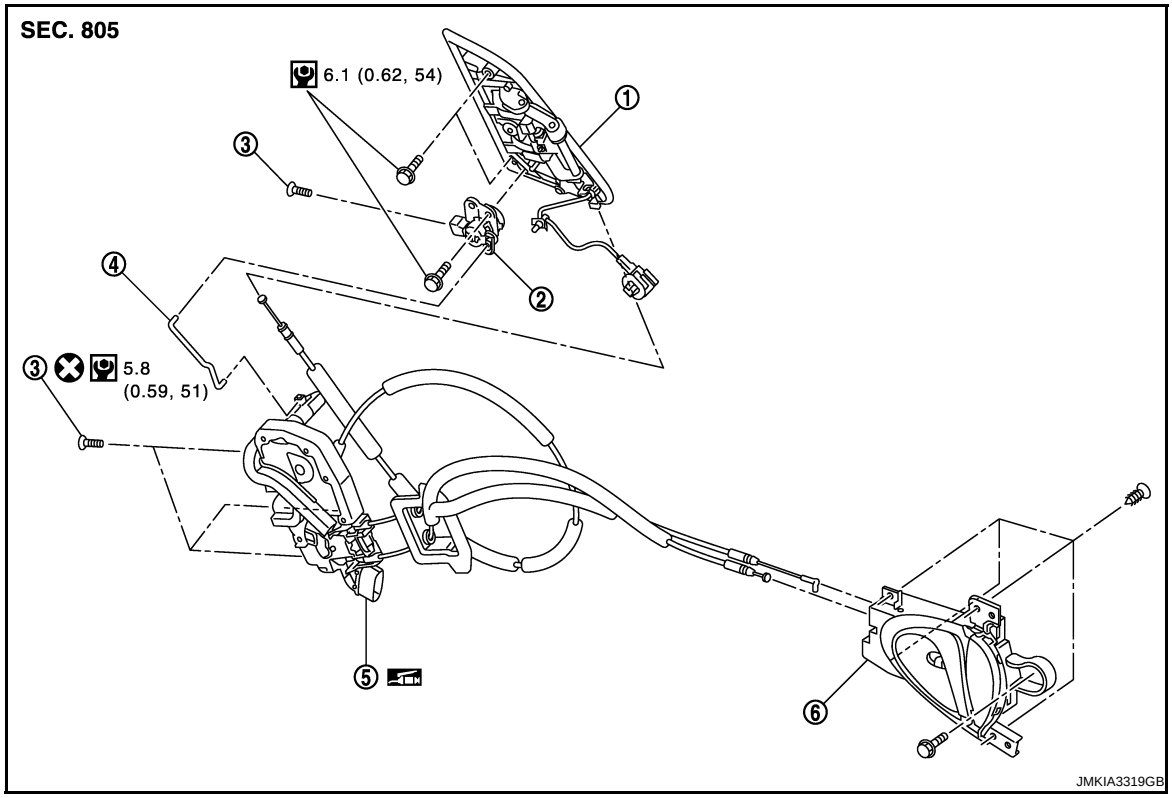
CAUTION:

- **Check that door lock cables are normally engaged with inside handle and outside handle.**
- **When installing key rod, rotate key rod holder until a click is felt.**
- **After installation, check door open/close, and lock/unlock operation.**

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:0000000004533835



1. Outside handle
2. Door key cylinder assembly (driver side)
3. TORX bolt
4. Key rod (driver side)
5. Door lock assembly
6. Inside handle

Refer to GI-4, "Components" for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:0000000004533836

REMOVAL

1. Remove door finisher. Refer to INT-12, "Removal and Installation".
2. Remove inside handle mounting screws, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

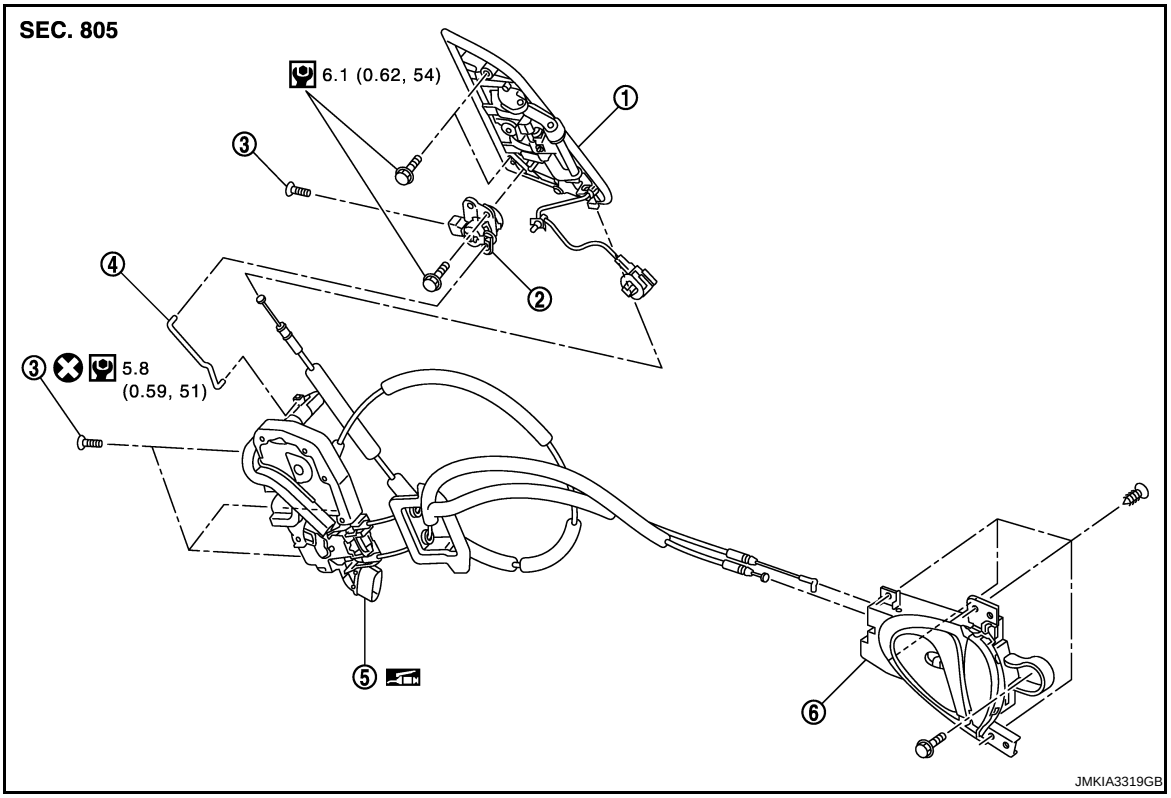
CAUTION:

- **Check that door lock cables are normally engaged with inside handle.**
- **After installation, check door open/close, and lock/unlock operation.**

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View

INFOID:0000000004533837



1. Outside handle
2. Door key cylinder assembly (driver side)
3. TORX bolt
4. Key rod (driver side)
5. Door lock assembly
6. Inside handle

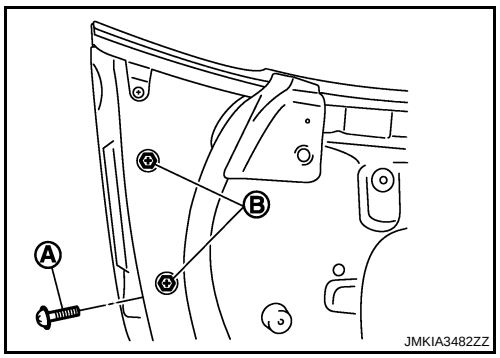
Refer to GI-4, "Components" for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

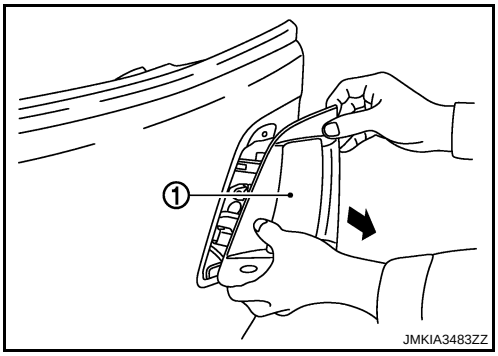
INFOID:0000000004533838

REMOVAL

1. Remove door finisher. Refer to INT-12, "Removal and Installation".
2. Remove door glass. Refer to GW-18, "Removal and Installation".
3. Remove door module assembly. Refer to GW-21, "Removal and Installation".
4. Disconnect key rod (driver side) and outside handle cable.
5. Disconnect door request switch connector, and then disconnect harness clamp.
6. Remove TORX bolt (A) from door key cylinder assembly (driver side).
7. Remove door side grommet, and then remove outside handle mounting bolts (B) through grommet hole.



8. Pull and remove outside handle assembly (1).



INSTALLATION

Install in the reverse order of removal.

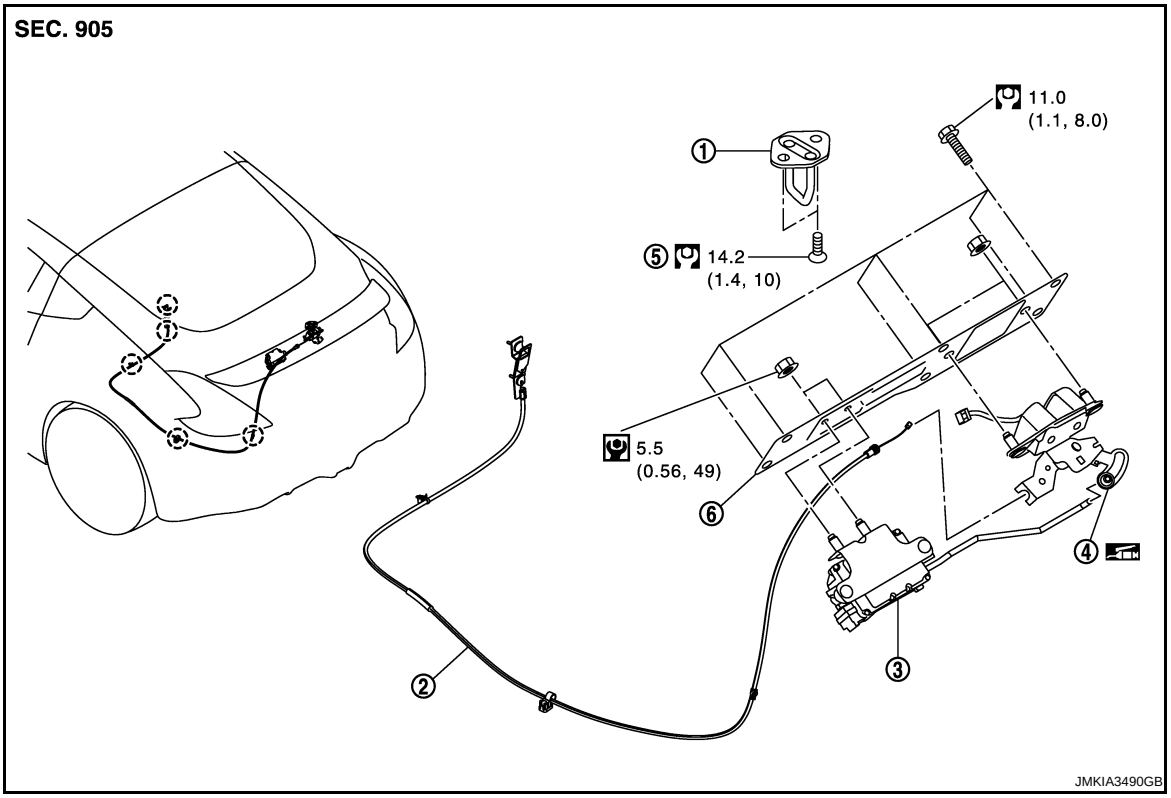
CAUTION:

- **When installing key rod, rotate key rod holder until a click is felt.**
- **Check that door lock cable is normally engaged with outside handle.**
- **After installation, check door open/close, and lock/unlock operation.**

BACK DOOR LOCK

Exploded View

INFOID:0000000004533845



1. Back door striker
2. Inside handle assembly
3. Back door opener actuator
4. Back door lock
5. TORX bolt
6. Back door lock and actuator bracket

: Clip

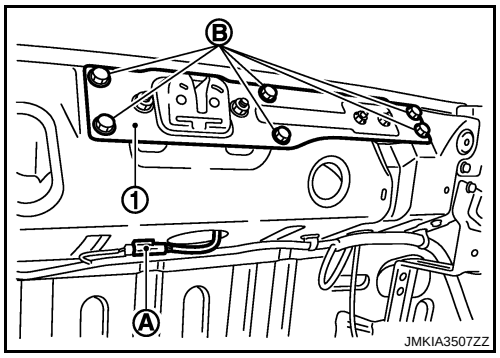
Refer to GI-4, "Components" for symbols in the figure.

Removal and Installation

INFOID:0000000004533846

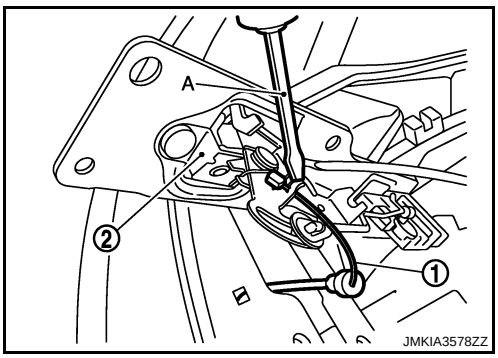
REMOVAL

1. Remove back door weather-strip. Refer to DLK-221, "BACK DOOR WEATHER-STRIP : Removal and Installation".
2. Remove luggage rear plate. Refer to INT-27, "Removal and Installation".
3. Disconnect harness connector (A) of back door lock and remove the harness clip.
4. Remove mounting bolts (B) of back door lock and actuator bracket (1).



5. Disconnect connector of back door opener actuator.

6. Using a flat-bladed screwdriver (A) disconnect inside handle cable (1) from back door lock (2).



7. Remove back door lock and actuator bracket assembly.
8. Disconnect back door lock and back door opener actuator from back door lock and actuator bracket.
9. Remove following parts. Refer to INT-27, "Removal and Installation".
   - Luggage floor carpet assembly
   - Spare tire cover
   - Luggage side finisher upper LH
   - Luggage floor spacer center rear (without BOSE audio)
   - Luggage spacer
   - Luggage side box assembly LH
   - Luggage rear plate
   - Woofer (with BOSE audio)
10. Remove clips and remove inside handle assembly.

INSTALLATION

Install in the reverse order of removal.

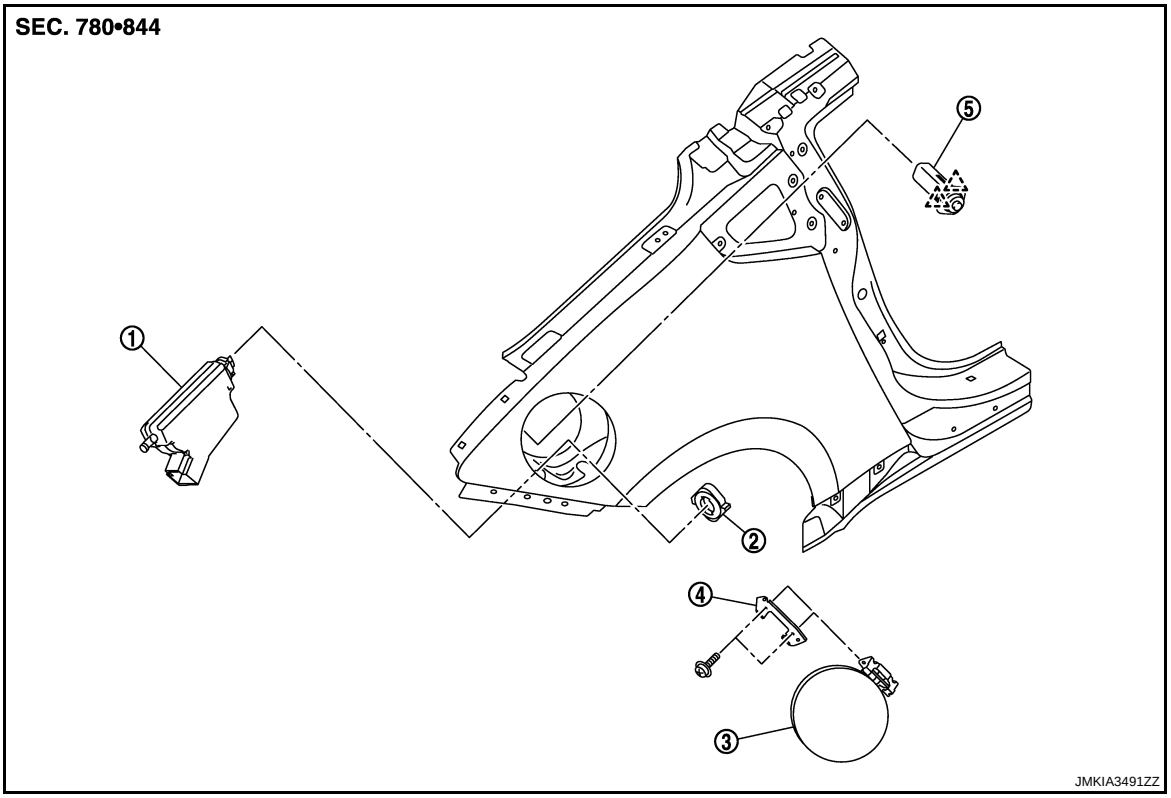
CAUTION:

After installation, check back door open/close, lock/unlock operation.

FUEL FILLER LID OPENER

Exploded View

INFOID:0000000004533847



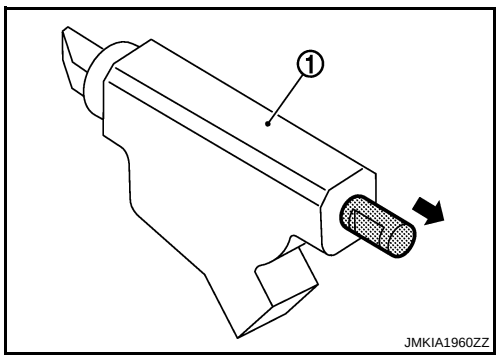
1. Fuel filler lid opener actuator
2. Lock nut
3. Fuel filler lid assembly
4. Cover
5. Lock and rod assembly

: Pawl

Removal and Installation

INFOID:0000000004533848

NOTE:
When fuel filler lid lock actuator (1) is a defective operation, pull the rod to open fuel filler lid.



REMOVAL

1. Remove luggage side finisher upper (RH). Refer to INT-27, "Removal and Installation".
2. Pull and remove lock and rod assembly forward, while pushing the pawls.
3. Rotate lock nut counterclockwise, and then remove lock nut.
4. Push fuel filler lid opener actuator behind the vehicle, while pushing the pawl.
5. Disconnect harness connector and remove fuel filler lid opener actuator.
6. Remove mounting screws, and then remove fuel filler lid.

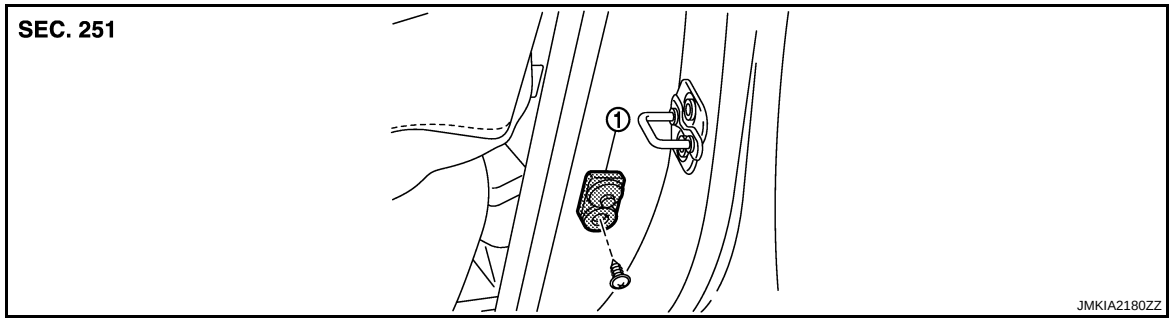
INSTALLATION

Install in the reverse order of removal.

DOOR SWITCH

Exploded View

INFOID:0000000004393906



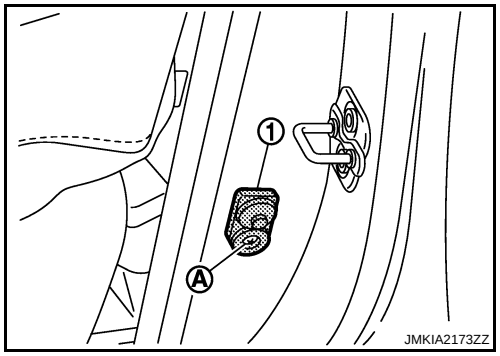
1. Door switch

Removal and Installation

INFOID:0000000004393907

REMOVAL

1. Remove the door switch mounting screw (A), and then remove door switch (1).



INSTALLATION

Install in the reverse order of removal.

BACK DOOR OPENER SWITCH ASSEMBLY

Exploded View

INFOID:0000000004525613

Refer to EXT-15, "Exploded View".

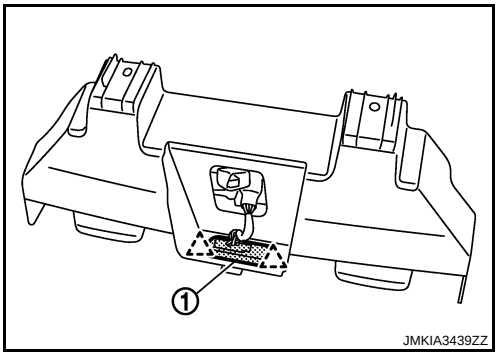
Removal and Installation

INFOID:0000000004525614

REMOVAL

1. Remove the license plate lamp bracket. Refer to EXT-16, "Removal and Installation".
2. Remove the back door opener switch assembly (1), and then remove pawl.

: Pawl



INSTALLATION

Install in the reverse order of removal.

INSIDE KEY ANTENNA

CONSOLE

CONSOLE : Exploded View

INFOID:0000000004393910

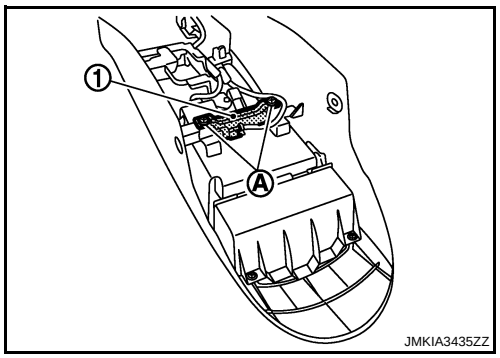
Refer to IP-23, "Exploded View".

CONSOLE : Removal and Installation

INFOID:0000000004393911

REMOVAL

1. Remove the center console assembly. Refer to IP-24, "Removal and Installation".
2. Remove the inside key antenna mounting screw (A), and then remove inside key antenna (console) (1).



INSTALLATION

Install in the reverse order of removal.

LUGGAGE ROOM

LUGGAGE ROOM : Exploded View

INFOID:0000000004393912

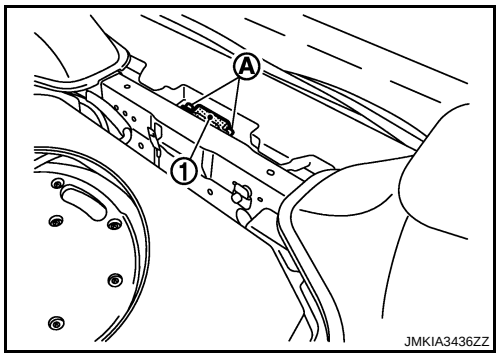
Refer to INT-26, "Exploded View".

LUGGAGE ROOM : Removal and Installation

INFOID:0000000004393913

REMOVAL

1. Remove the luggage floor finisher front. Refer to INT-27, "Removal and Installation".
2. Remove the inside key antenna (luggage room) mounting clips (A), and then remove inside key antenna (luggage room) (1).



INSTALLATION

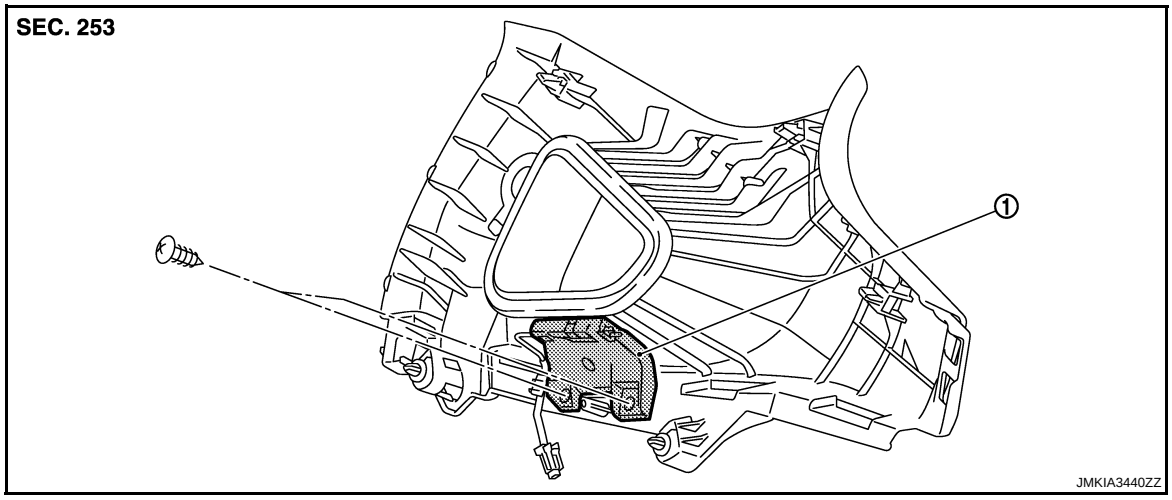
Install in the reverse order of removal.

OUTSIDE KEY ANTENNA

LH

LH : Exploded View

INFOID:0000000004393914



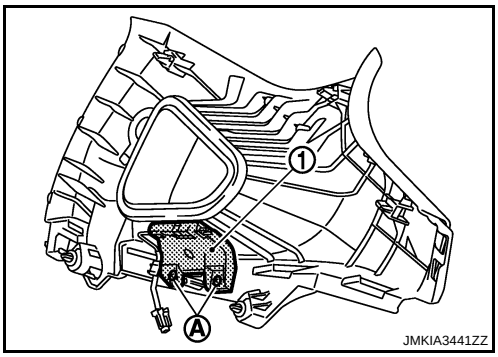
1. Outside key antenna LH

LH : Removal and Installation

INFOID:0000000004393915

REMOVAL

1. Remove the rear pillar finisher LH. Refer to INT-15, "Removal and Installation".
2. Remove the outside key antenna mounting screw (A), and then remove outside key antenna LH (1).



NOTE:
The same procedure is also performed for RH.

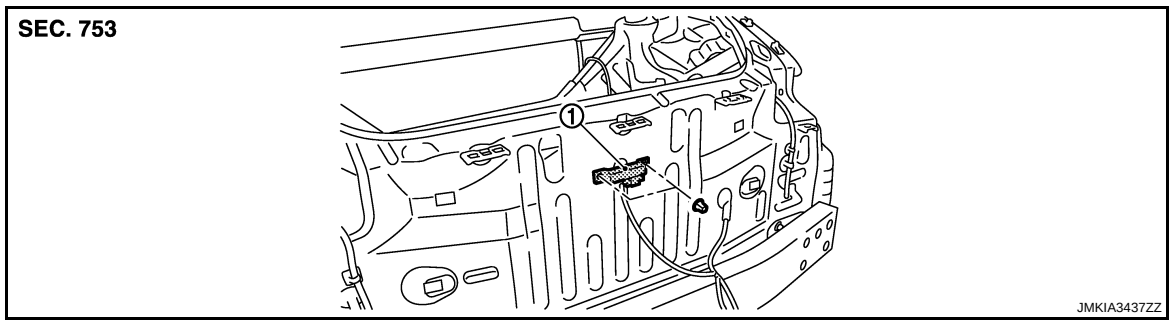
INSTALLATION

Install in the reverse order of removal.

BACK DOOR

BACK DOOR : Exploded View

INFOID:0000000004393918



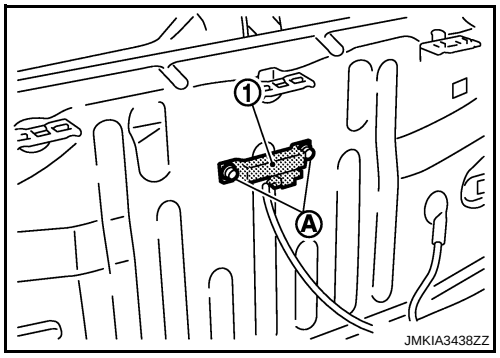
1. Outside key antenna (rear bumper)

BACK DOOR : Removal and Installation

INFOID:0000000004393919

REMOVAL

1. Remove the rear bumper. Refer to EXT-16, "Removal and Installation".
2. Remove the outside key antenna (rear bumper) mounting clips (A), and then remove outside key antenna (rear bumper) (1).



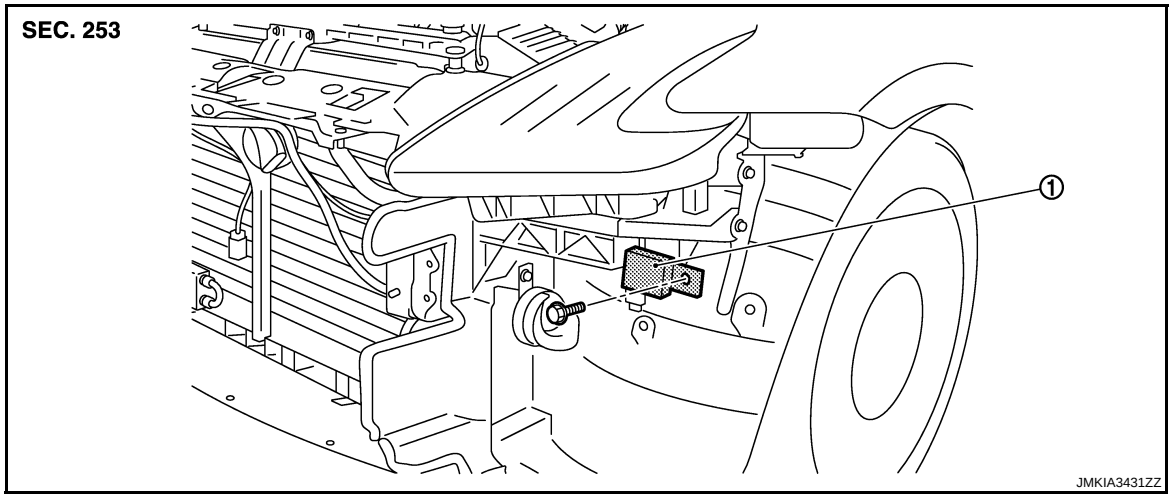
INSTALLATION

Install in the reverse order of removal.

INTELLIGENT KEY WARNING BUZZER

Exploded View

INFOID:0000000004393920



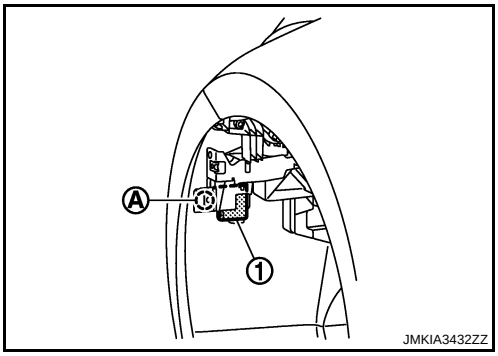
1. Intelligent Key warning buzzer

Removal and Installation

INFOID:0000000004393921

REMOVAL

1. Remove the fender protector LH. Refer to EXT-24, "FENDER PROTECTOR : Removal and Installation".
2. Remove the Intelligent Key warning buzzer mounting bolt (A), and then remove the Intelligent Key warning buzzer (1).



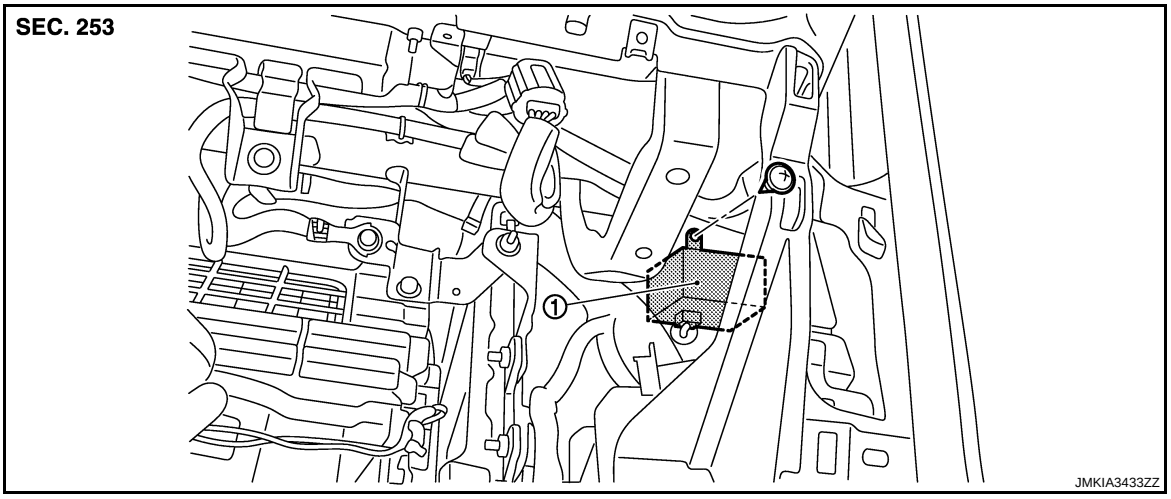
INSTALLATION

Install in the reverse order of removal.

REMOTE KEYLESS ENTRY RECEIVER

Exploded View

INFOID:0000000004393924



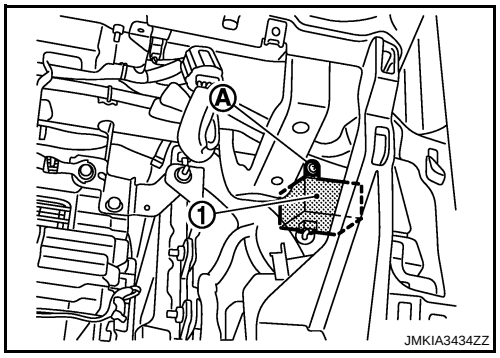
1. Remote keyless entry receiver

Removal and Installation

INFOID:0000000004393925

REMOVAL

1. Remove the instrument lower panel RH. Refer to IP-13, "Removal and Installation".
2. Remove the remote keyless entry receiver mounting screw (A), and then remove remote keyless entry receiver (1).



INSTALLATION

Install in the reverse order of removal.

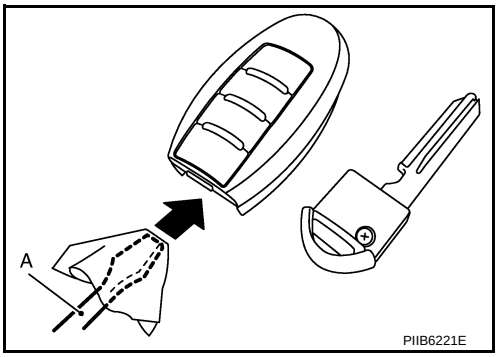
INTELLIGENT KEY BATTERY

Removal and Installation

INFOID:0000000004393926

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.

Battery replacement	**:Coin-type lithium battery (CR2025)**

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.**