SECTION DLK
DOOR & LOCK

CONTENTS

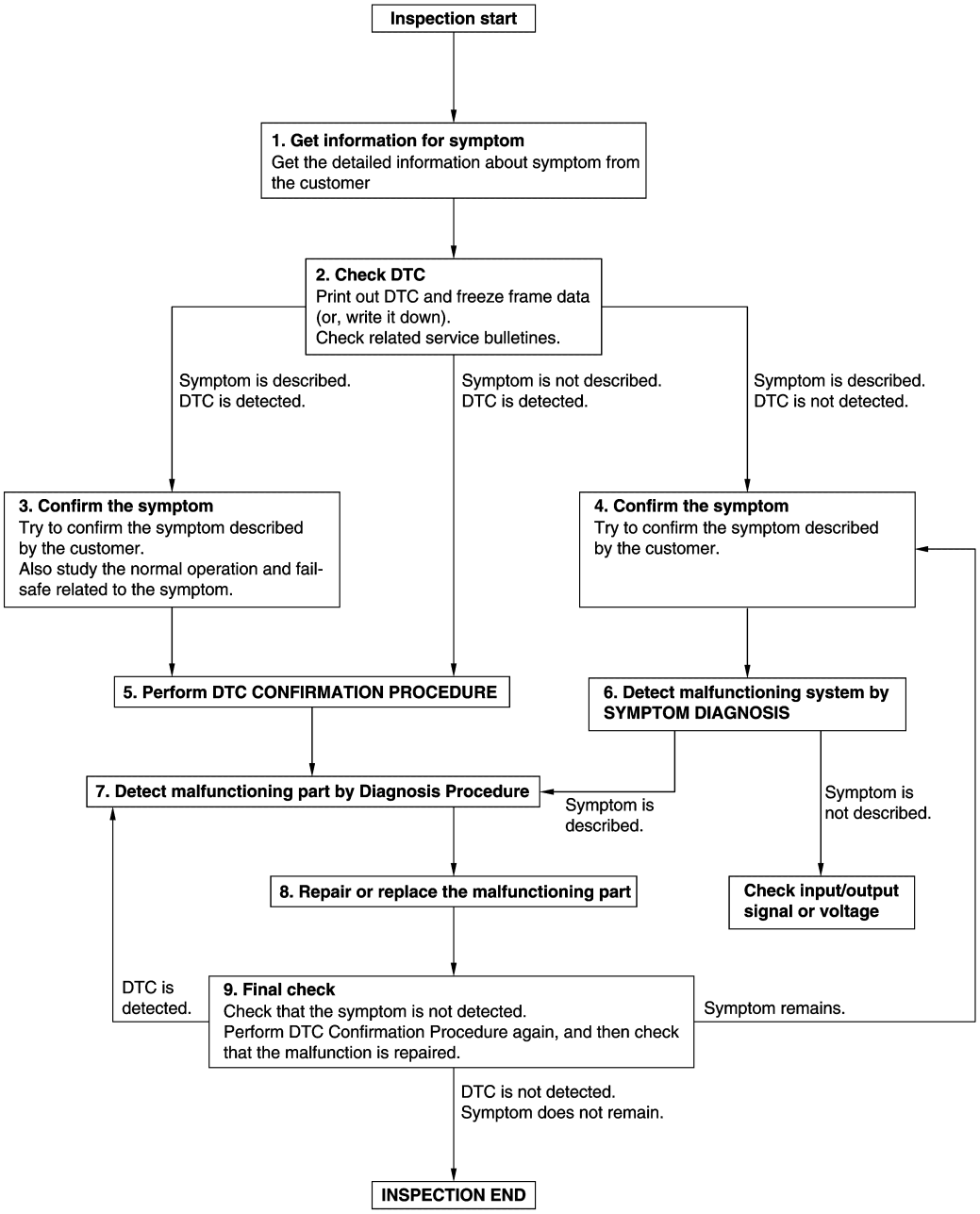
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000011486894

OVERALL SEQUENCE



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DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

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

>> GO TO 2.

2.CHECK DTC

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

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

3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

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

3.CONFIRM THE SYMPTOM

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

>> GO TO 5.

4.CONFIRM THE SYMPTOM

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

>> GO TO 6.

5.PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time.
If two or more DTCs are detected, refer to BCS-83, "DTC Inspection Priority Chart" (BCM), and determine trouble diagnosis order.

NOTE:

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

Is DTC detected?

YES >> GO TO 7.
NO >> Check according to GI-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 symptom.

Is the symptom described?

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

7.DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.
NO >> Check according to GI-39, "Intermittent Incident".

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

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

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.
When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.
YES-2 >> Symptom remains: GO TO 4.
NO >> Before returning the vehicle to the customer, always erase DTC.

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:0000000011486895

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:0000000011486896

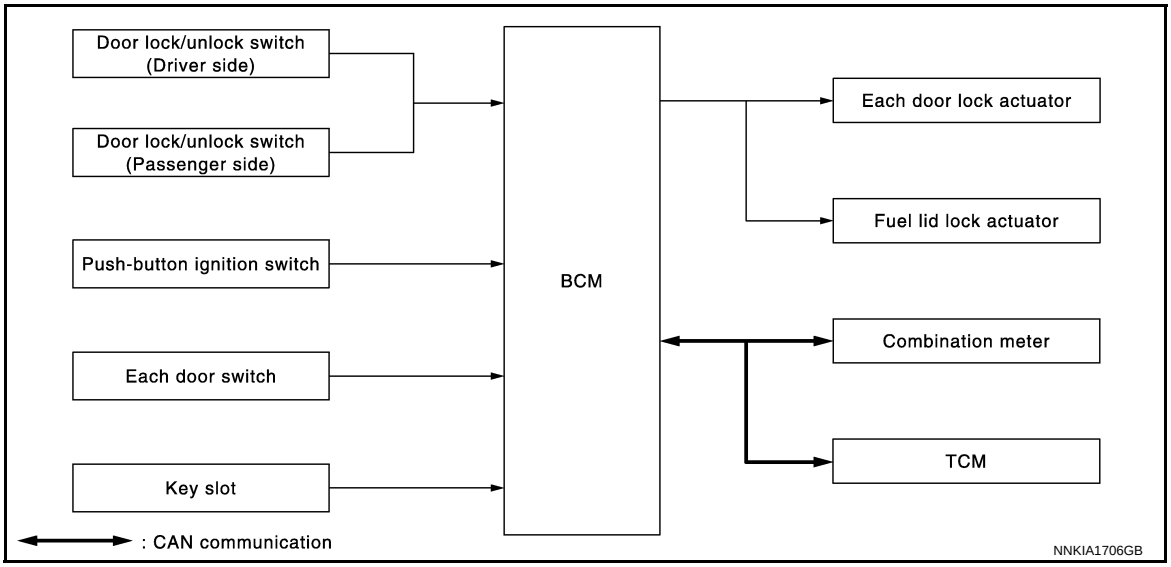
Refer to CONSULT operation manual for the NATS-IVIS/NVIS.

SYSTEM DESCRIPTION

POWER DOOR LOCK SYSTEM

System Diagram

INFOID:0000000011486897



System Description

INFOID:0000000011486898

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.

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.

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (LOCK OPERATION)

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

Vehicle Speed Sensing Auto Door Lock*

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

P Range Interlock Door Lock

All doors are locked when shifting the selector lever from the P 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.

With CONSULT

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

Without CONSULT

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

1. Close all doors (door switch OFF)
2. 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

*: This function is set to ON before delivery.

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (UNLOCK OPERATION)

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

IGN OFF Interlock Door Unlock*

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

P Range Interlock Door Unlock

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

Setting change of Automatic Door Lock/Unlock Function

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

With CONSULT

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

Without CONSULT

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

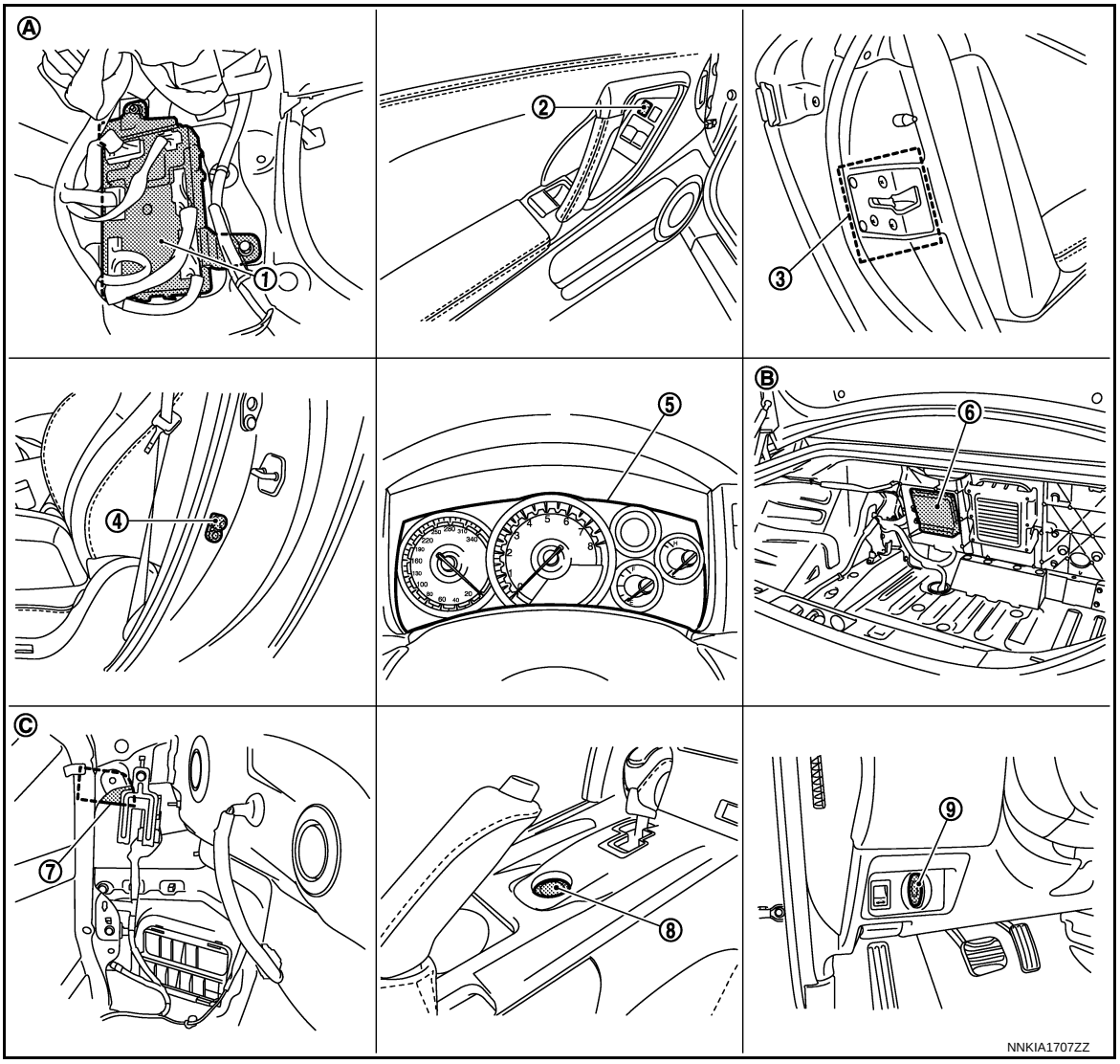
1. Close all doors below (door switch OFF)
2. Turn ignition switch ON
3. Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the ignition switch ON.
4. The switching is complete when the hazard lamp blinks.

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

*: This function is set to ON before delivery.

Component Parts Location

INFOID:0000000011486899



1. BCM M118, M119, M122, M123
2. Power window main switch (door lock and unlock switch) D8
3. Driver side door lock actuator D15
4. Driver side door switch B21
5. Combination meter M53
6. TCM B45
7. Fuel lid lock actuator B244
8. Push-button ignition switch M131
9. Key slot M60

A. View with center console assembly removed
B. View with trunk front finisher removed
C. View with trunk side finisher removed

Component Description

INFOID:0000000011486900

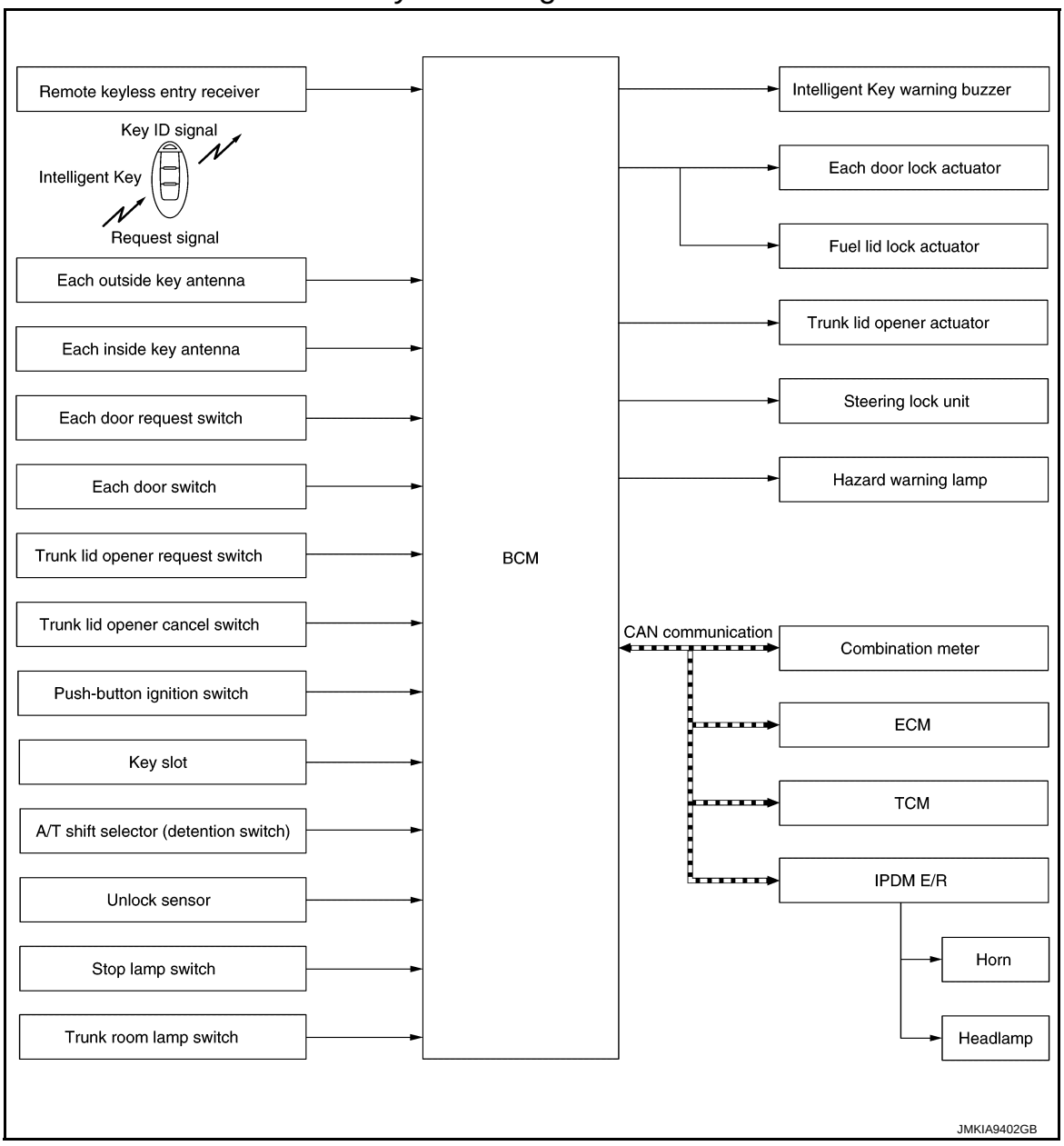
Item	Function
BCM	Controls the door lock function.
Door lock and unlock switch	Inputs lock or unlock signal to BCM.
Door lock actuator	Inputs lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Inputs door open/close condition to BCM.
Key slot	Inputs key insert/remove signal to BCM.
Combination meter	Transmits vehicle speed signal to BCM via CAN communication line.
TCM	Transmits shift position signal to BCM via CAN communication line.

Item	Function
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.

INTELLIGENT KEY SYSTEM
INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Diagram

INFOID:0000000011486901



INTELLIGENT KEY SYSTEM : System Description

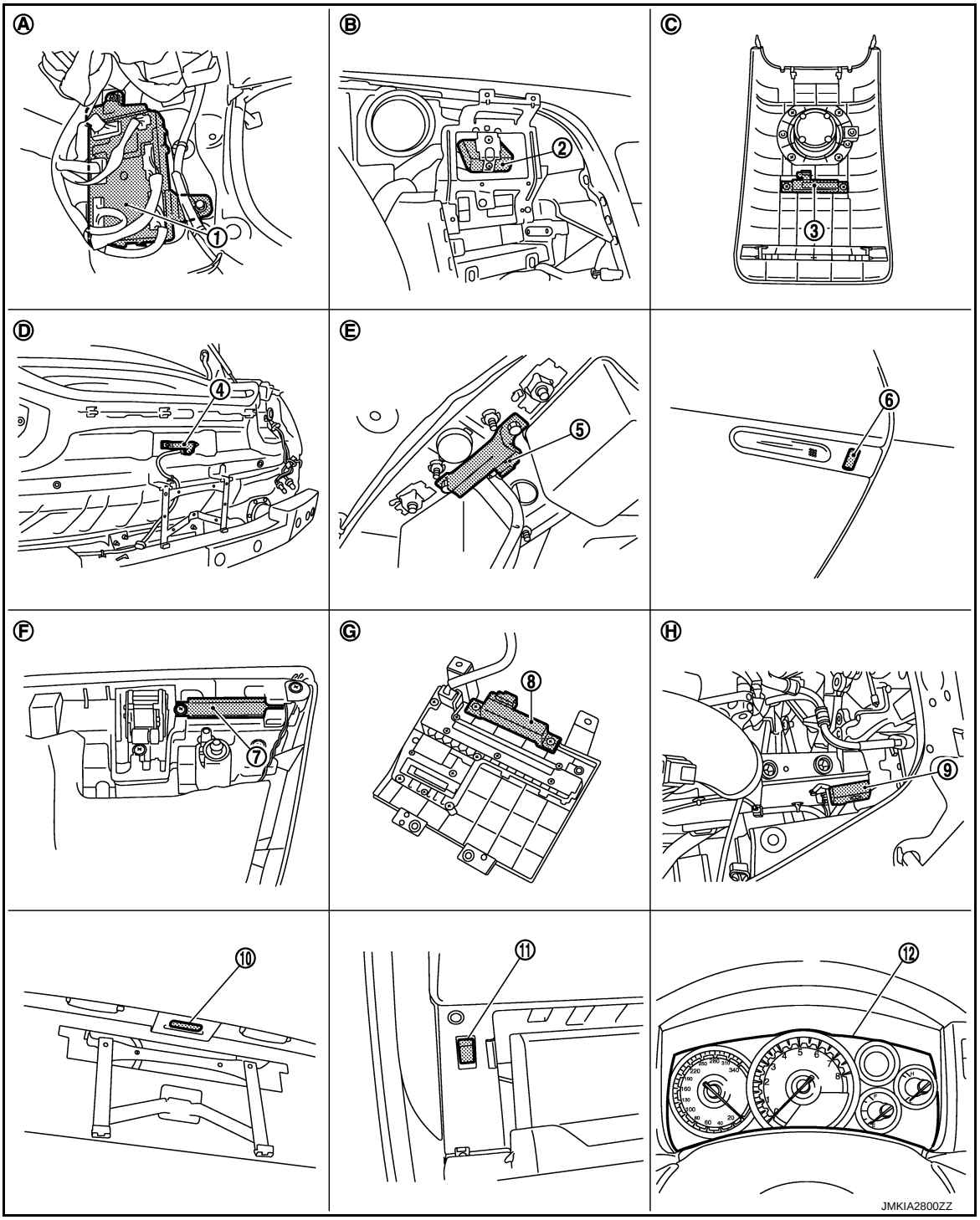
INFOID:0000000011486902

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

Function	Description	Refer
Door lock function	Lock/unlock can be performed by pressing the request switch.	DLK-20
Remote keyless entry function	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.	DLK-29
Trunk open function	The trunk lid can be opened by carrying the Intelligent Key and pressing the trunk lid opener request switch.	DLK-25
Key reminder function	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle.	DLK-35
Warning function	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver.	DLK-39
Engine start function	The engine be turned on while carrying the Intelligent Key.	SEC-9

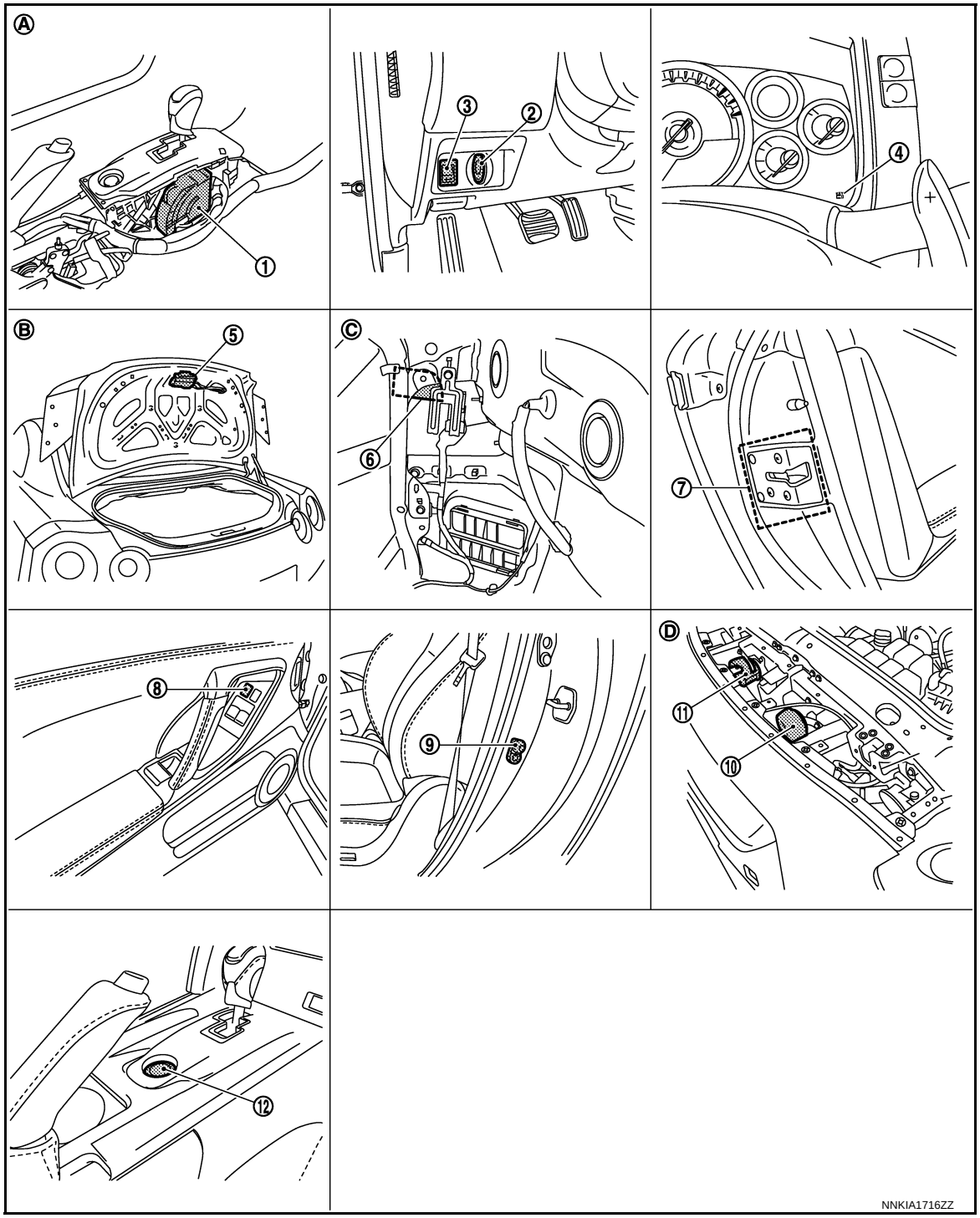
INTELLIGENT KEY SYSTEM : Component Parts Location

INFOID:0000000011486903



1. BCM
2. Remote keyless entry receiver
3. Inside key antenna (console)
4. Outside key antenna (rear bumper)
5. Inside key antenna (trunk room)
6. Outside handle LH (request switch)
7. Outside antenna (driver side)
8. Inside key antenna (instrument center)
9. Intelligent key warning buzzer (engine room)
10. Trunk lid opener request switch
11. Trunk lid opener cancel switch
12. Combination meter

A. Dash side lower (passenger side).
B. Behind display unit.
C. Back of rear console assembly.
D. Behind rear bumper.
E. Behind trunk front finisher.
F. Back of door finisher.
G. Back of cluster lid C (lower).
H. Behind air cleaner box (RH).



1. A/T shift selector (detention switch)
2. Key slot
3. Trunk lid opener switch
4. Key warning lamp
5. Trunk lid lock assembly
6. Fuel lid lock actuator
7. Driver side door lock actuator
8. Power window main switch (door lock and unlock switch)
9. Driver side door switch
10. Horn low
11. Horn high
12. Push-button ignition switch

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D. Behind front bumper

INTELLIGENT KEY SYSTEM : Component Description

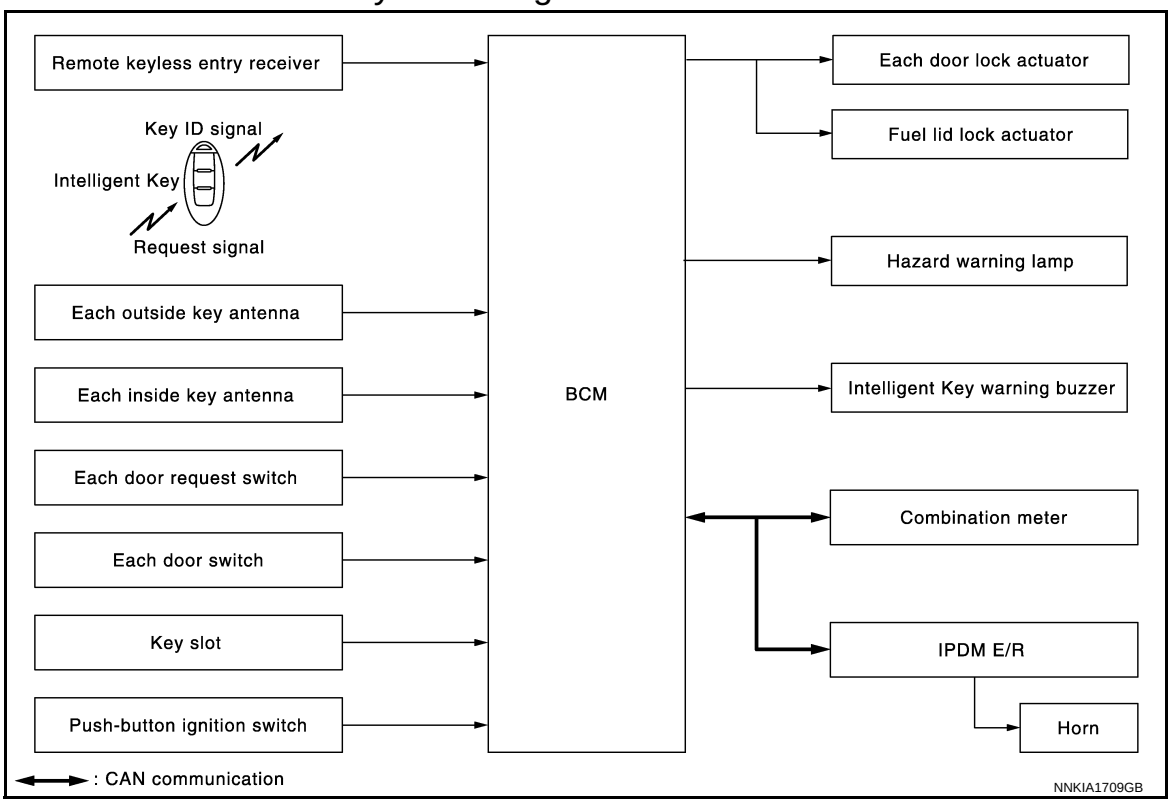
INFOID:0000000011486904

Item	Function
BCM	Controls the Intelligent Key system.
IPDM E/R	Sounds horn and blinks headlamp via CAN communication between BCM.
Door lock actuator	Inputs 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.
Door 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 side door.
Control device (detention switch)	Detects the P range position of shift 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.
Trunk lid opener actuator	Transmits trunk open operation to BCM.
Trunk lid opener request switch	Inputs lock/unlock operation to BCM.
Trunk lid opener cancel switch	Cancels the trunk open operation.
Trunk room lamp switch	Input trunk lid open/close 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	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.

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Diagram

INFOID:0000000011486905



DOOR LOCK FUNCTION : System Description

INFOID:0000000011486906

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

OPERATION DESCRIPTION

- When the BCM detects that each door request switch is pressed, it 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 and fuel lid and sounds Intelligent Key buzzer warning (lock: 2 times, unlock: 1 time) at the same time as a reminder.

OPERATION CONDITION

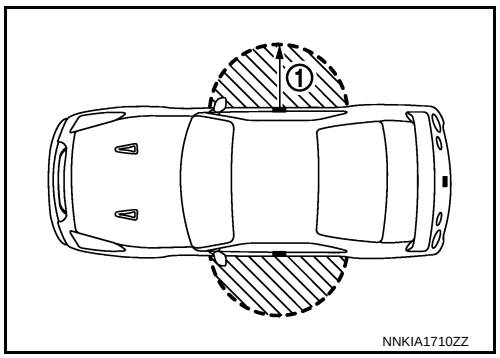
If the following conditions are satisfied, door lock/unlock operation is performed if the door request switch is operated.

Each door 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 driver, passenger door handles (1). 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 or passenger 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 unlock. When another UNLOCK signal is transmitted within 60 seconds, driver side door and fuel lid unlocks.

Selective unlock operation mode can be changed using “DOOR LOCK-UNLOCK SET” mode in “WORK SUPPORT”. Refer to DLK-50, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

HAZARD AND BUZZER REMINDER FUNCTION

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

When doors are locked, unlocked by each door 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 if ignition switch ON position.

How to Change Hazard and Buzzer Reminder Mode

Refer to DLK-52, "INTELLIGENT KEY : CONSULT 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-52, "INTELLIGENT KEY : CONSULT 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-6, "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	×	×	×	×	×	×	×	×			×			
Hazard and buzzer reminder function for door lock/ unlock operation									×	×	×	×		×
Selective unlock function	×				×	×	×	×			×			
Auto door lock function	×	×		×	×	×					×		×	

DOOR LOCK FUNCTION : Component Parts Location

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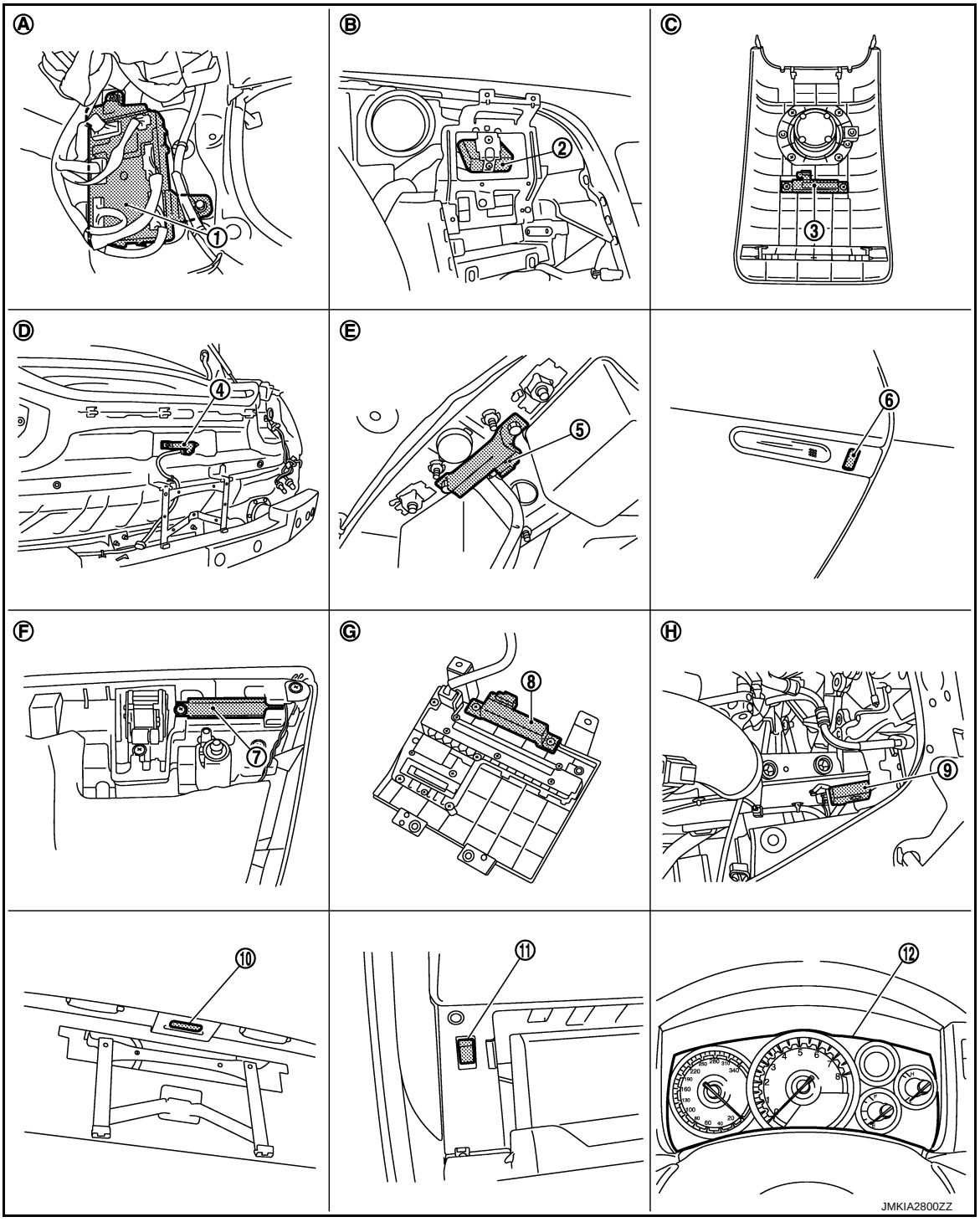
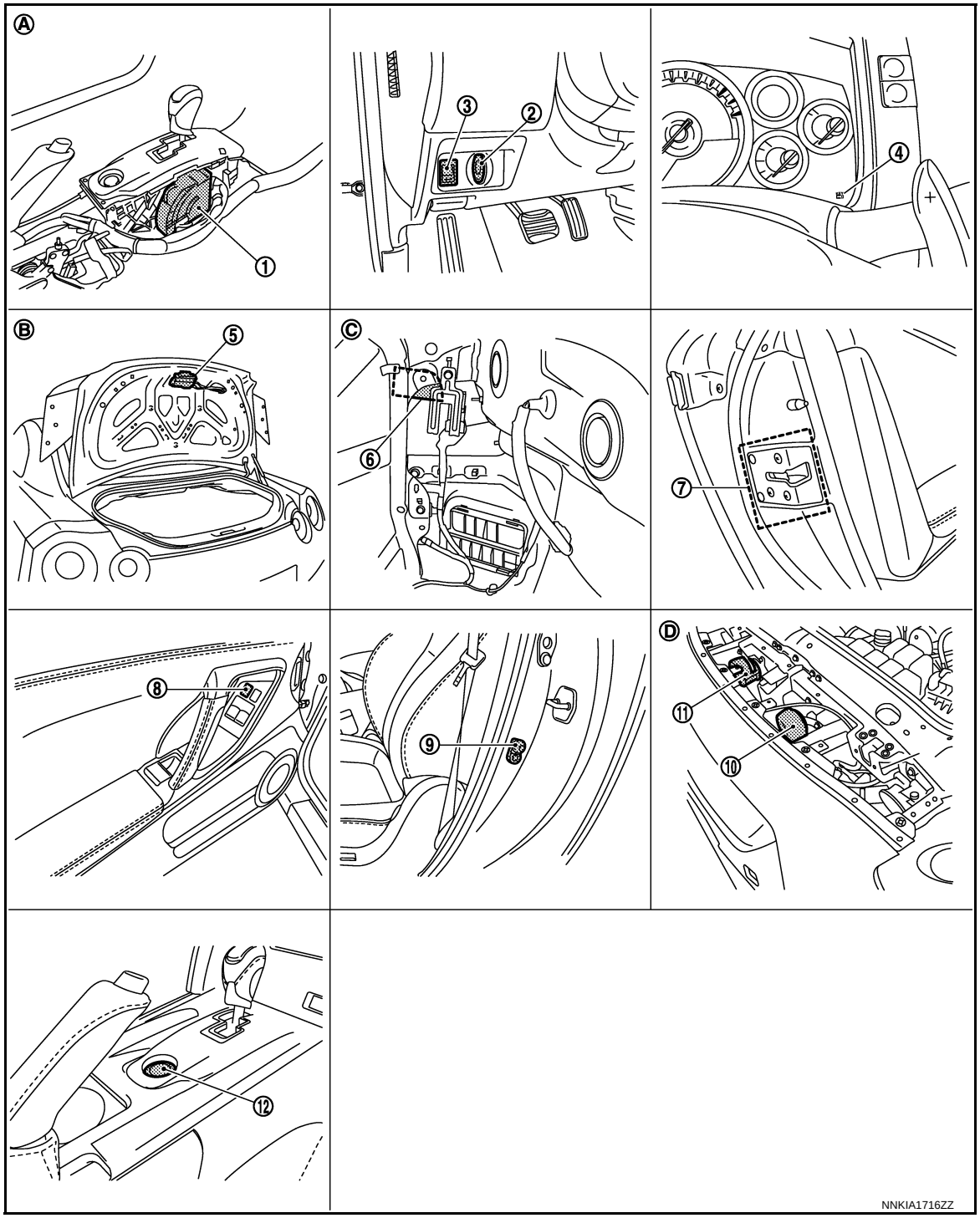


1. BCM
2. Remote keyless entry receiver
3. Inside key antenna (console)
4. Outside key antenna (rear bumper)
5. Inside key antenna (trunk room)
6. Outside handle LH (request switch)
7. Outside antenna (driver side)
8. Inside key antenna (instrument center)
9. Intelligent key warning buzzer (engine room)
10. Trunk lid opener request switch
11. Trunk lid opener cancel switch
12. Combination meter

A. Dash side lower (passenger side).
B. Behind display unit.
C. Back of rear console assembly.
D. Behind rear bumper.
E. Behind trunk front finisher.
F. Back of door finisher.
G. Back of cluster lid C (lower).
H. Behind air cleaner box (RH).



1. A/T shift selector (detention switch)
2. Key slot
3. Trunk lid opener switch
4. Key warning lamp
5. Trunk lid lock assembly
6. Fuel lid lock actuator
7. Driver side door lock actuator
8. Power window main switch (door lock and unlock switch)
9. Driver side door switch
10. Horn low
11. Horn high
12. Push-button ignition switch

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D. Behind front bumper

DOOR LOCK FUNCTION : Component Description

INFOID:0000000011486908

Item	Function
BCM	Controls the door lock function.
IPDM E/R	Sounds horn and blinks headlamp via CAN communication with BCM.
Door lock actuator	Inputs lock/unlock signal from BCM and locks/unlocks each door.
Fuel lid lock actuator	Inputs 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.
Door 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.

TRUNK OPEN FUNCTION

TRUNK OPEN FUNCTION : System Diagram

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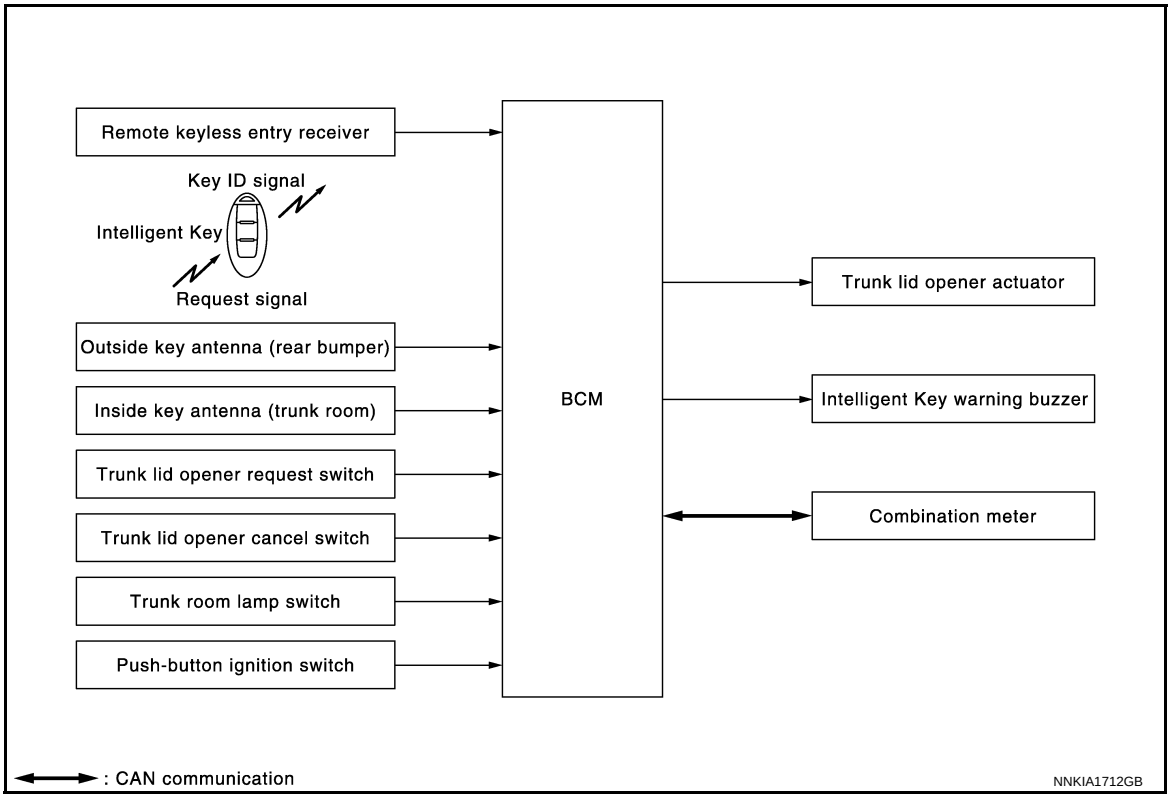


TRUNK OPEN FUNCTION : System Description

INFOID:0000000011486910

TRUNK LID OPENER

- When the BCM detects that trunk lid opener request switch is pressed, it activates the outside key antenna (rear bumper) and inside key antenna and transmits the request signal to the Intelligent Key. And then, checks that the Intelligent Key is near the trunk lid.

- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM transmits the trunk open request signal and sounds Intelligent Key warning buzzer 4 times at the same time (buzzer reminder). However, buzzer reminder does not operate when ignition switch is in the ON position.
- When BCM receives the trunk open request signal, it operates the trunk lid opener actuator and opens the trunk.

How to change buzzer reminder mode

With CONSULT

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

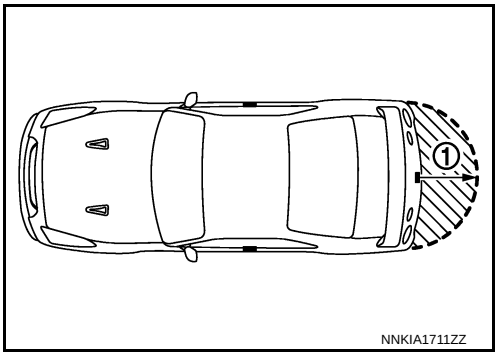
OPERATION CONDITION

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

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

OUTSIDE KEY ANTENNA DETECTION AREA

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



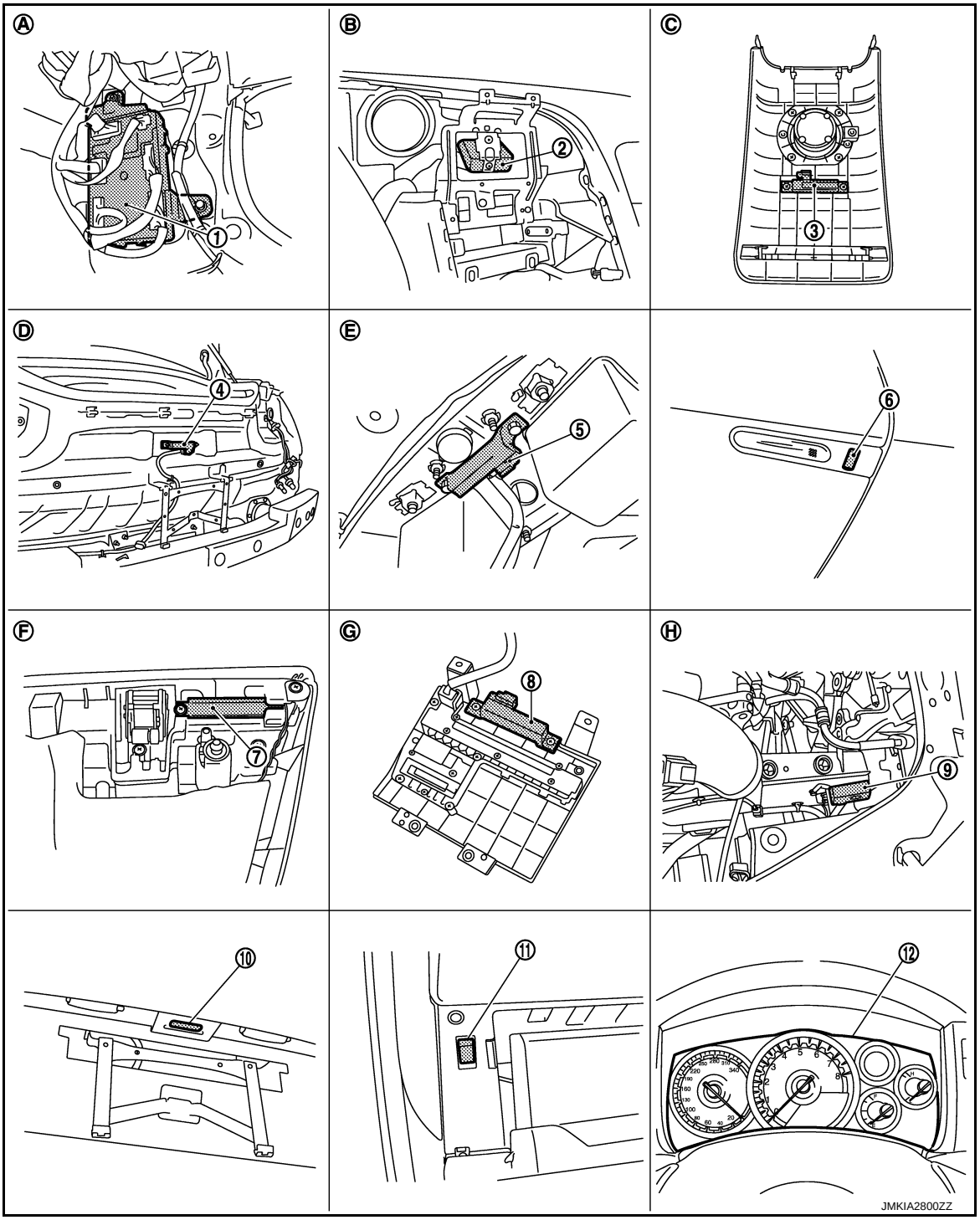
LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

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

TRUNK OPEN FUNCTION : Component Parts Location

INFOID:0000000011486911



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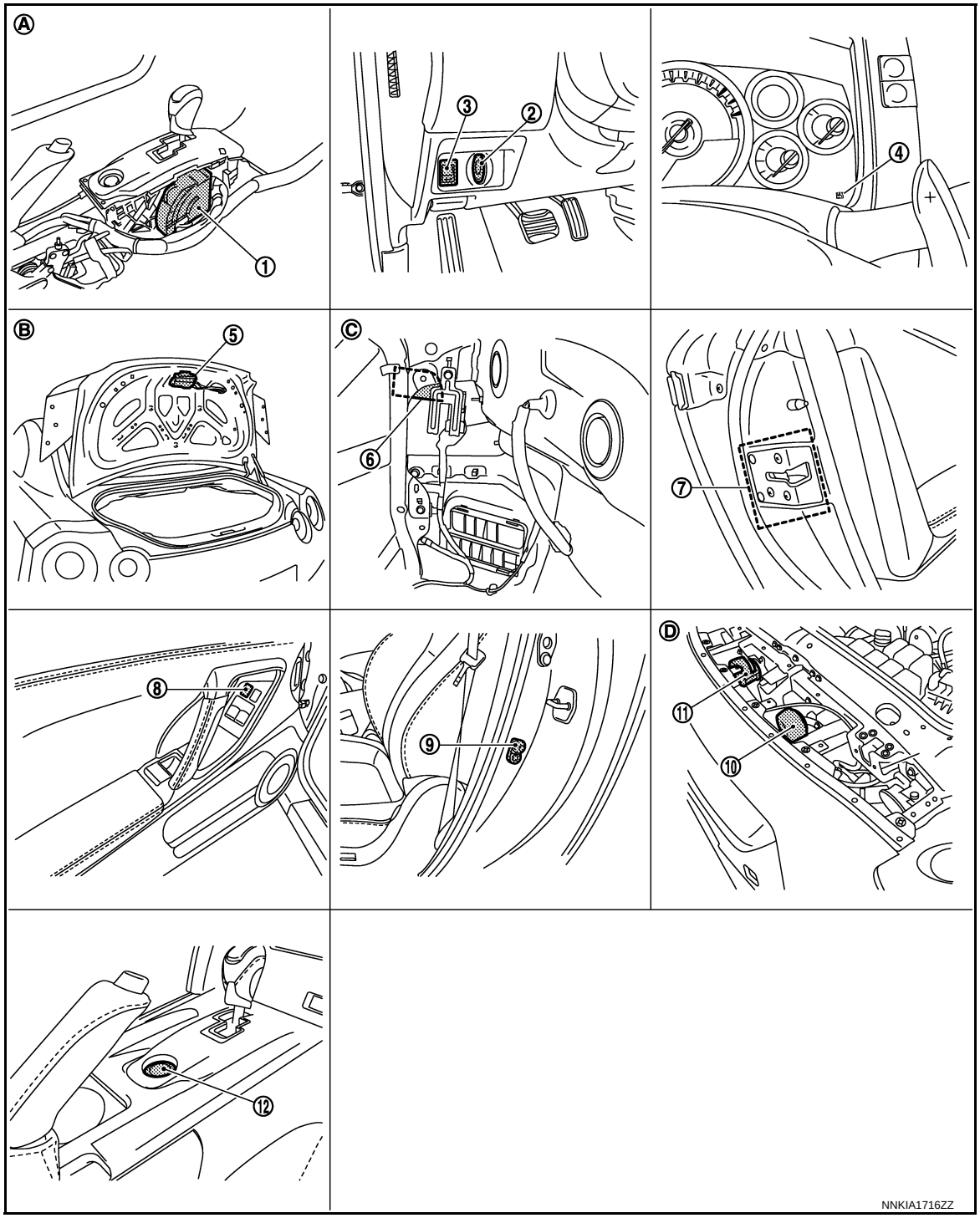
4. Outside key antenna (rear bumper)
5. Inside key antenna (trunk room)
6. Outside handle LH (request switch)
7. Outside antenna (driver side)
8. Inside key antenna (instrument center)
9. Intelligent key warning buzzer (engine room)
10. Trunk lid opener request switch
11. Trunk lid opener cancel switch
12. Combination meter

A. Dash side lower (passenger side).
B. Behind display unit.
C. Back of rear console assembly.
D. Behind rear bumper.
E. Behind trunk front finisher.
F. Back of door finisher.
G. Back of cluster lid C (lower).
H. Behind air cleaner box (RH).



1. A/T shift selector (detention switch)
2. Key slot
3. Trunk lid opener switch
4. Key warning lamp
5. Trunk lid lock assembly
6. Fuel lid lock actuator
7. Driver side door lock actuator
8. Power window main switch (door lock and unlock switch)
9. Driver side door switch
10. Horn low
11. Horn high
12. Push-button ignition switch

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D. Behind front bumper

TRUNK OPEN FUNCTION : Component Description

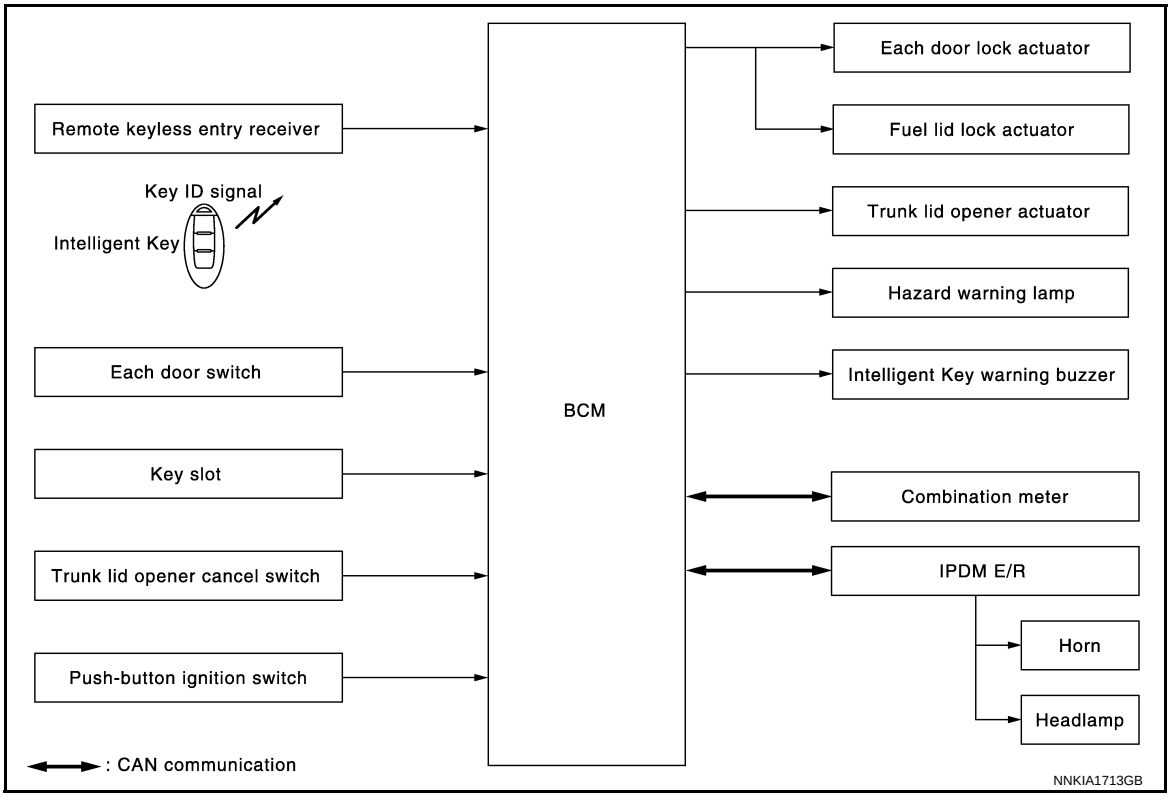
INFOID:0000000011486912

Item	Function
BCM	Controls the trunk open function.
Trunk lid opener actuator	Transmits trunk open operation to BCM.
Combination meter	Transmits vehicle seep signal to CAN communication line.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Trunk lid opener request switch	Inputs lock/unlock operation 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 (trunk room)	Detects if Intelligent Key is inside the vehicle.
Trunk lid opener cancel switch	Cancels the trunk open operation.
Intelligent Key warning buzzer	Warns the user of the open condition and inappropriate operations with the buzzer sound.
Trunk room lamp switch	Input trunk lid open/close condition to BCM.
Push-button ignition switch	Inputs push-button ignition switch ON/OFF condition to BCM.

REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION : System Diagram

INFOID:0000000011486913



REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:0000000011486914

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
- Trunk open

- Hazard and horn reminder
- Auto door lock
- Panic alarm
- Interior lamp

OPERATION AREA

To check that the Intelligent Key works normally, use within 1 m (3 ft) range of each doors, 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 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 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
Lock	• More than 3 seconds are passed since intelligent Key is removed from key slot. • Panic alarm is not activated • P position warning is not activated
Unlock	• More than 3 seconds are passed since intelligent Key is removed from key slot. • Panic alarm is not activated

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-50, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

TRUNK OPEN FUNCTION

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

OPERATION CONDITION

Remote controller operation	Operation condition
Trunk open	• Vehicle speed is less than 5 km/h (3 MPH) • Press and hold the trunk open button for 0.5 second or more* • Ignition switch is except the ON position • More than 3 seconds are passed since intelligent Key is removed from key slot. • Panic alarm is not activated. • Trunk lid opener cancel switch is ON

*: Pattern of trunk open button can be selected using CONSULT. Refer to DLK-52, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

HAZARD AND HORN REMINDER FUNCTION

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

Operating Function of Hazard and Horn Reminder

	C mode			S mode		
Intelligent Key operation	Lock	Unlock	Trunk open	Lock	Unlock	Trunk open

	C mode			S mode		
Hazard warning lamp blinks	Twice	Once	—	Twice	—	—
Horn sound	Once	—	—	—	—	—

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

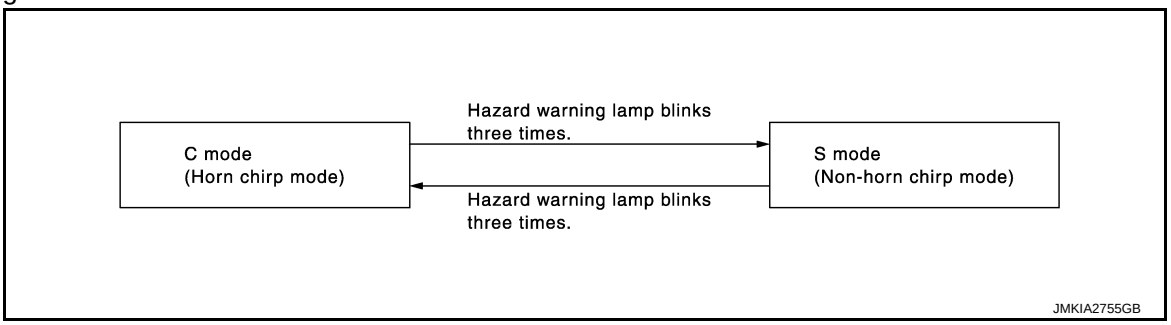
How to change hazard and horn reminder mode

With CONSULT

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

Without CONSULT

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



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-52, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

PANIC ALARM FUNCTION

When Intelligent Key panic alarm button is pressed, head lamp blinks and horn sounds. For panic alarm function, refer to SEC-19, "System Description".

INTERIOR ROOM LAMP CONTROL

Intelligent Key system turns on interior lamp by receiving UNLOCK signal from Intelligent Key. For detailed description, refer to INL-6, "System Description".

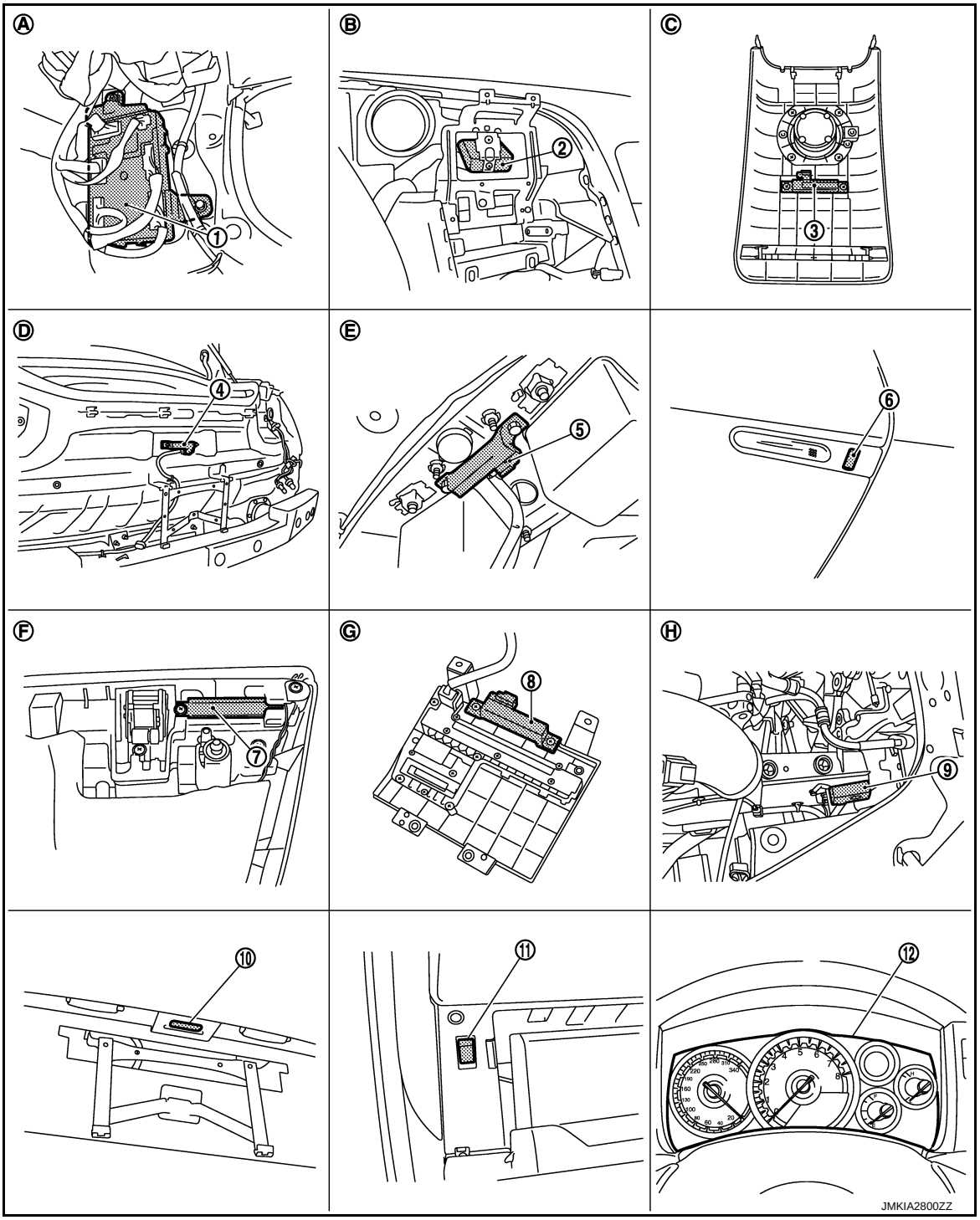
LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Remote keyless entry functions	Intelligent Key	Key slot	Door request switch (Driver, Passenger)	Door switch	Door lock actuator	Intelligent Key warning buzzer	CAN communication system	BCM	Combination meter	Unified meter and A/C amp.	Hazard warning lamp	Horn	IPDM E/R	Trunk lid opener actuator
Door lock/unlock function	×	×		×	×		×	×						
Trunk open function	×					×	×	×		×				×
Hazard and horn reminder function	×					×	×	×	×		×	×	×	
Selective unlock function	×			×	×		×	×						
Auto door lock function	×	×		×			×	×						

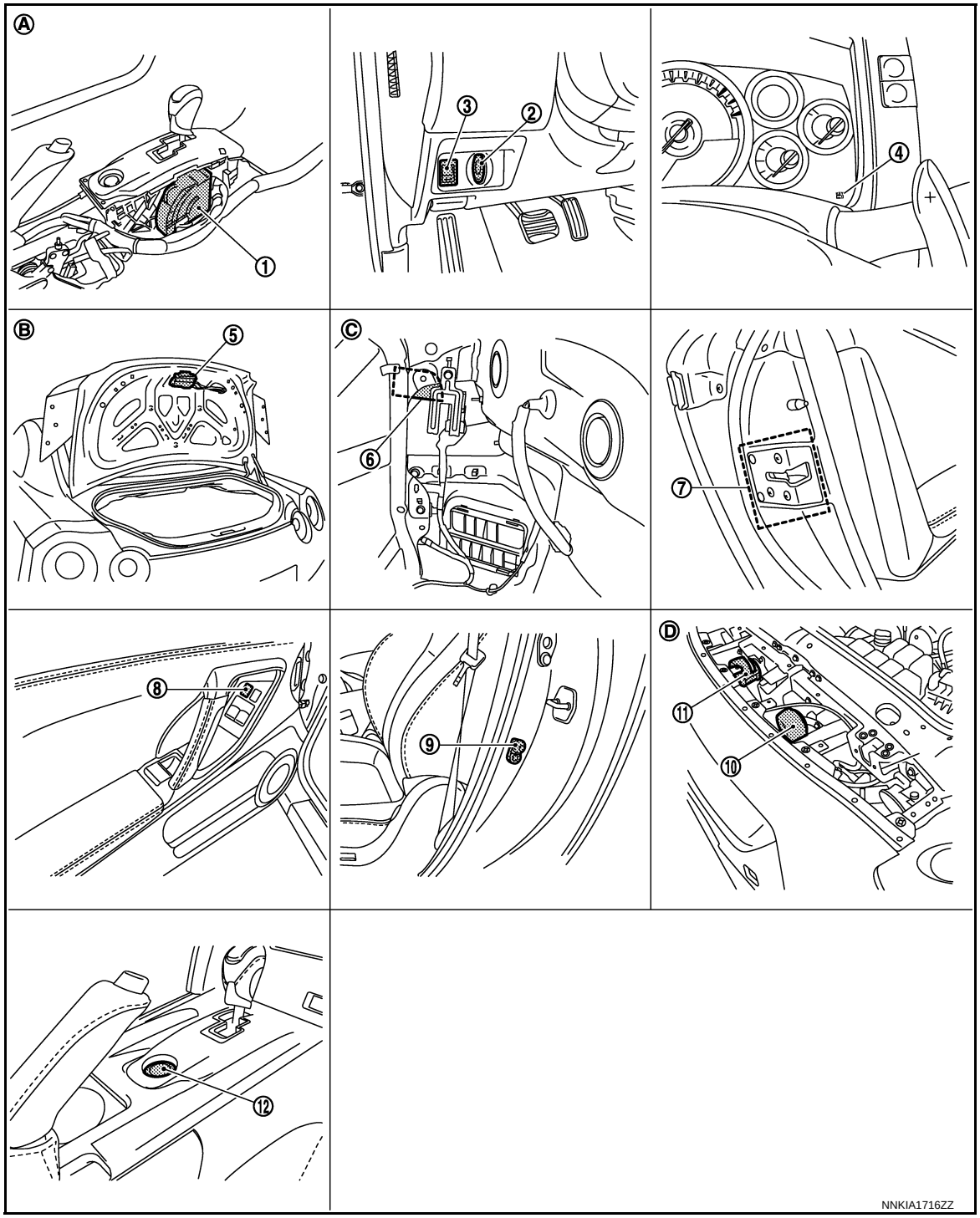
REMOTE KEYLESS ENTRY FUNCTION : Component Parts Location

INFOID:0000000011486915



1. BCM
2. Remote keyless entry receiver
3. Inside key antenna (console)
4. Outside key antenna (rear bumper)
5. Inside key antenna (trunk room)
6. Outside handle LH (request switch)
7. Outside antenna (driver side)
8. Inside key antenna (instrument center)
9. Intelligent key warning buzzer (engine room)
10. Trunk lid opener request switch
11. Trunk lid opener cancel switch
12. Combination meter

A. Dash side lower (passenger side).
B. Behind display unit.
C. Back of rear console assembly.
D. Behind rear bumper.
E. Behind trunk front finisher.
F. Back of door finisher.
G. Back of cluster lid C (lower).
H. Behind air cleaner box (RH).



1. A/T shift selector (detention switch)
2. Key slot
3. Trunk lid opener switch
4. Key warning lamp
5. Trunk lid lock assembly
6. Fuel lid lock actuator
7. Driver side door lock actuator
8. Power window main switch (door lock and unlock switch)
9. Driver side door switch
10. Horn low
11. Horn high
12. Push-button ignition switch

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D. Behind front bumper

REMOTE KEYLESS ENTRY FUNCTION : Component Description

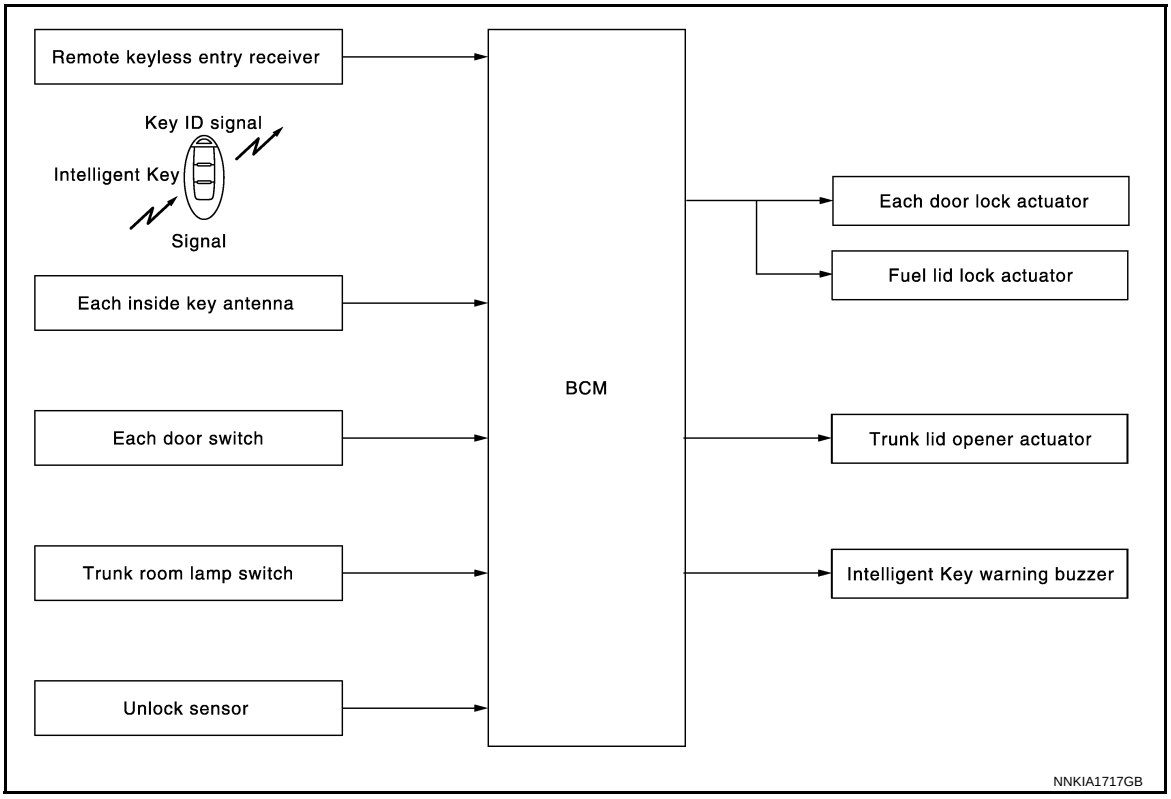
INFOID:0000000011486916

Item	Function
BCM	Controls the door lock function and trunk open function.
IPDM E/R	Sounds horn and blinks head lamp via CAN communication between BCM.
Door lock actuator	Inputs lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Inputs door open/close condition to BCM.
Key slot	Inputs key insert/remove signal to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Combination meter	• Hazard warning lamp is installed to combination meter. • Transmits vehicle seep signal to CAN communication line.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Trunk lid opener actuator	Transmits trunk lid open operation to BCM.
Trunk lid opener cancel switch	Cancels the trunk open operation.
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.
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.

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION : System Diagram

INFOID:0000000011486917



KEY REMINDER FUNCTION : System Description

INFOID:0000000011486918

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 unlock state	All doors unlock
Door is open or closed	Right after all doors are closed under the following conditions • Intelligent Key is inside the vehicle • Any door is open • All doors are locked by door lock and unlock switch or door lock knob	• All doors unlock • Honk Intelligent Key warning buzzer
Trunk is closed	Right after trunk is closed under the following conditions • Intelligent Key is inside trunk room • All doors are closed • All doors are locked	• Trunk open • Honk Intelligent Key warning buzzer

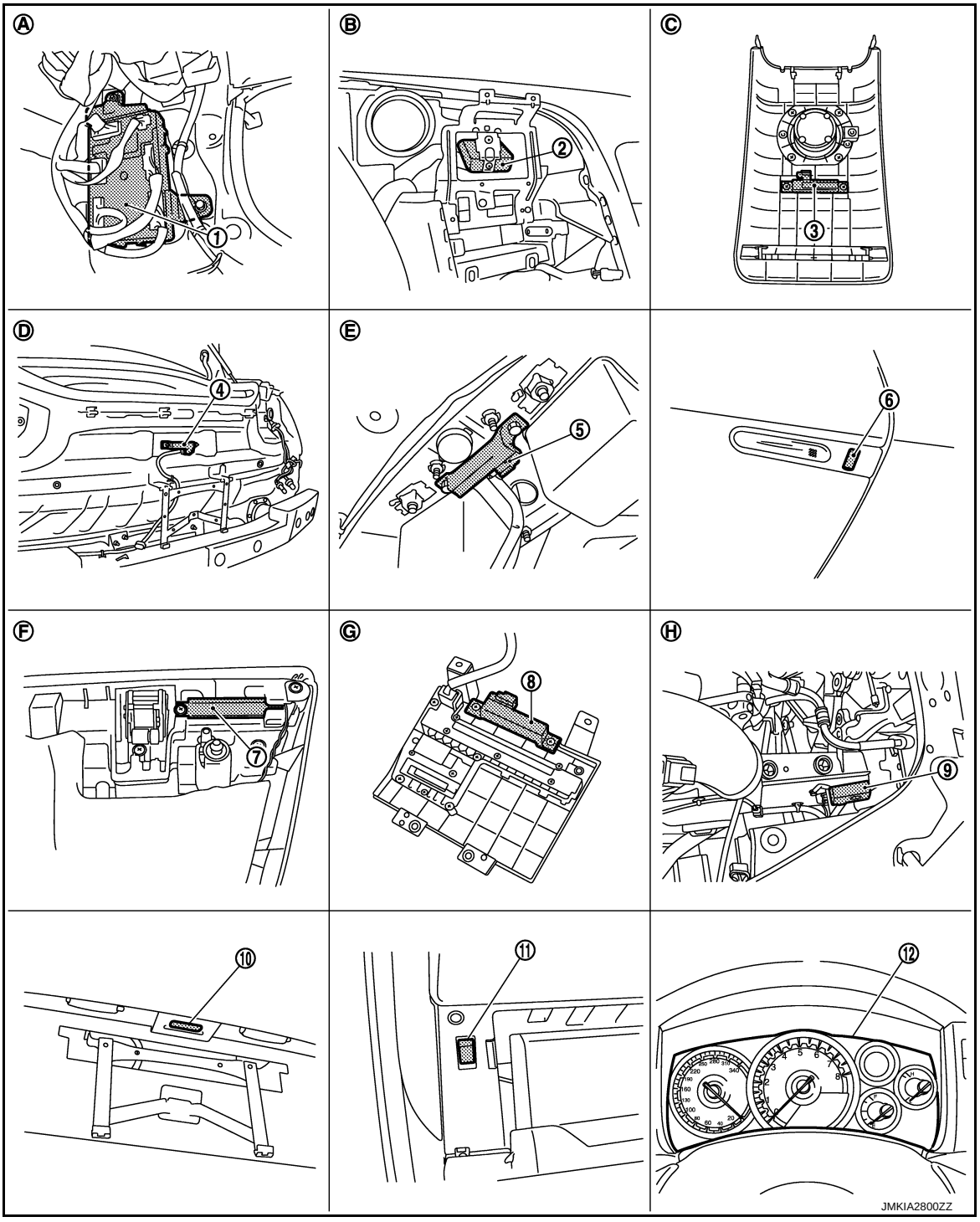
*:If the door closing impact shocks the door lock knob, or contacts against baggage with the door lock knob might activate the door locks accidentally but unlock operation is perform in these cases.

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, rear parcel shelf, or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket for the open door.**

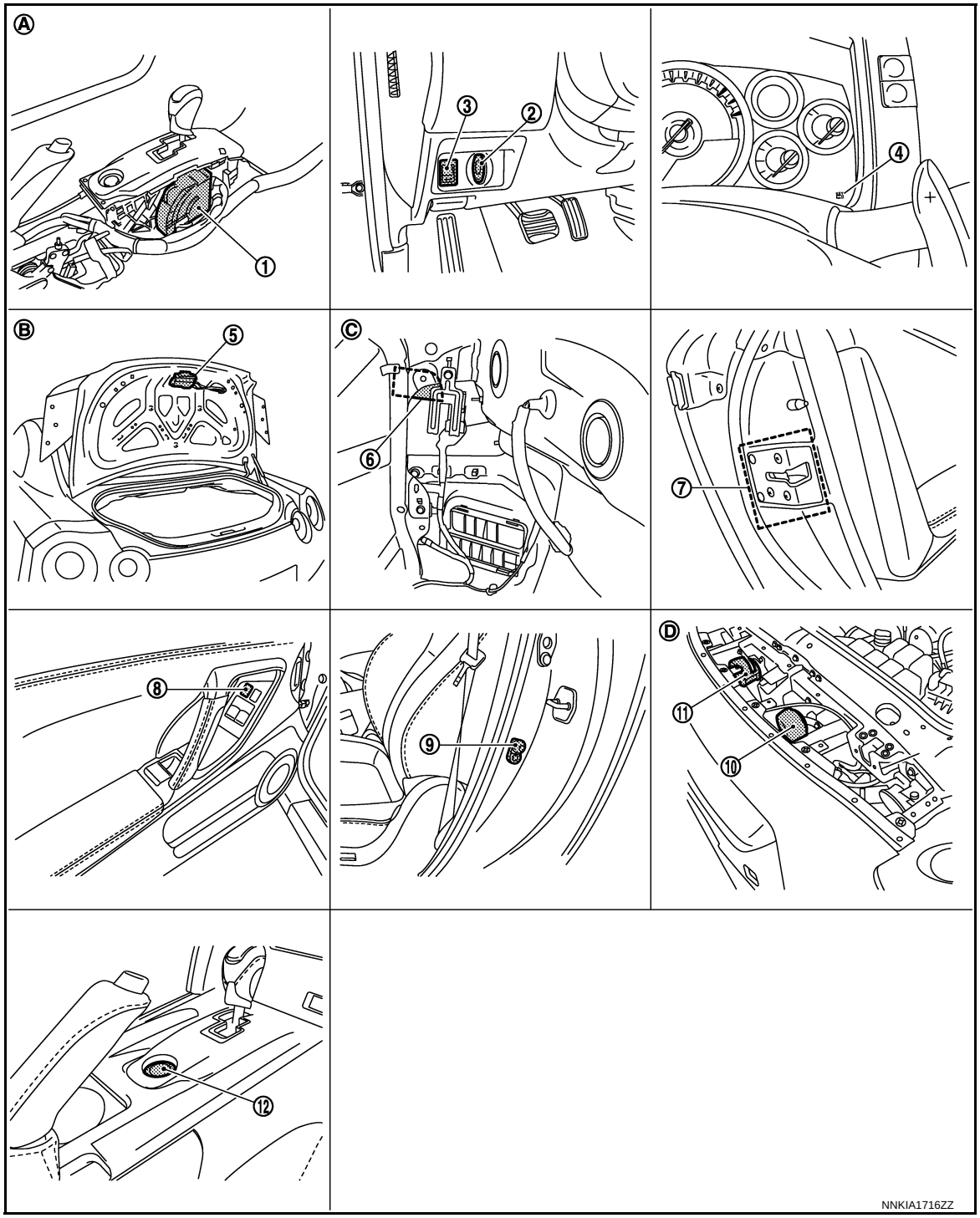
KEY REMINDER FUNCTION : Component Parts Location

INFOID:0000000011486919



1. BCM
2. Remote keyless entry receiver
3. Inside key antenna (console)
4. Outside key antenna (rear bumper)
5. Inside key antenna (trunk room)
6. Outside handle LH (request switch)
7. Outside antenna (driver side)
8. Inside key antenna (instrument center)
9. Intelligent key warning buzzer (engine room)
10. Trunk lid opener request switch
11. Trunk lid opener cancel switch
12. Combination meter

A. Dash side lower (passenger side).
B. Behind display unit.
C. Back of rear console assembly.
D. Behind rear bumper.
E. Behind trunk front finisher.
F. Back of door finisher.
G. Back of cluster lid C (lower).
H. Behind air cleaner box (RH).



1. A/T shift selector (detention switch)
2. Key slot
3. Trunk lid opener switch
4. Key warning lamp
5. Trunk lid lock assembly
6. Fuel lid lock actuator
7. Driver side door lock actuator
8. Power window main switch (door lock and unlock switch)
9. Driver side door switch
10. Horn low
11. Horn high
12. Push-button ignition switch

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D. Behind front bumper

WARNING FUNCTION

WARNING FUNCTION : System Description

INFOID:0000000011486920

OPERATION DESCRIPTION

The warning function are as per the following and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, KEY warning lamp, key slot illumination and 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

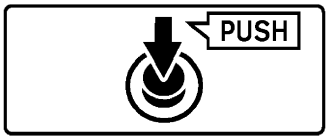
Once the following condition from below is established, alert or warning is executed.

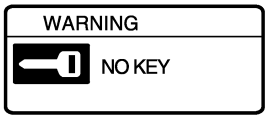
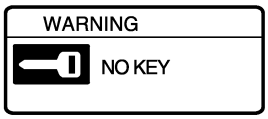
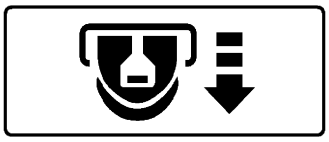
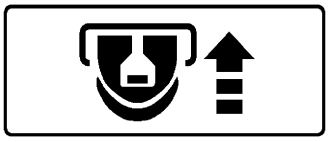
Warning/Information functions		Operation procedure
Intelligent Key system malfunction		When a malfunction is detected on BCM, “KEY” warning lamp illuminates.
OFF position warning	For internal	When condition A, B or condition C is satisfied • Condition A - Ignition switch: ACC position - Door switch (driver side): ON (Door is open) • Condition B - Turn ignition switch from ON to OFF while door is open • Condition C - Intelligent Key is inserted in key slot - 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. • Ignition switch: Except LOCK position. • When intelligent Key is low battery.

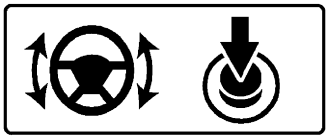
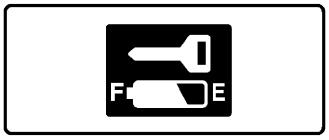
Warning/Information functions		Operation procedure
Door lock operation warning		When door lock operation is requested while door lock operating condition of door request switch is not satisfied.
Key warning		• Ignition switch is OFF position. • Driver side door switch: ON (Driver side door is open). • 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.

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	—	 JMKIA2863ZZ	—	Activate	—
	For external				—	Activate
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	—	 JMKIA2864ZZ	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		—	 JMKIA2864ZZ	—	—	—
Key warning		—	 JMKIA0035GB	Blink	Activate	—
Intelligent Key insert information		—	 JMKIA0034GB	Illuminate	—	—
Engine start information		—	 JMKIA0032GB	—	—	—

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	—	 JMKIA3049ZZ	—	—	—

LIST OF OPERATION RELATED PARTS

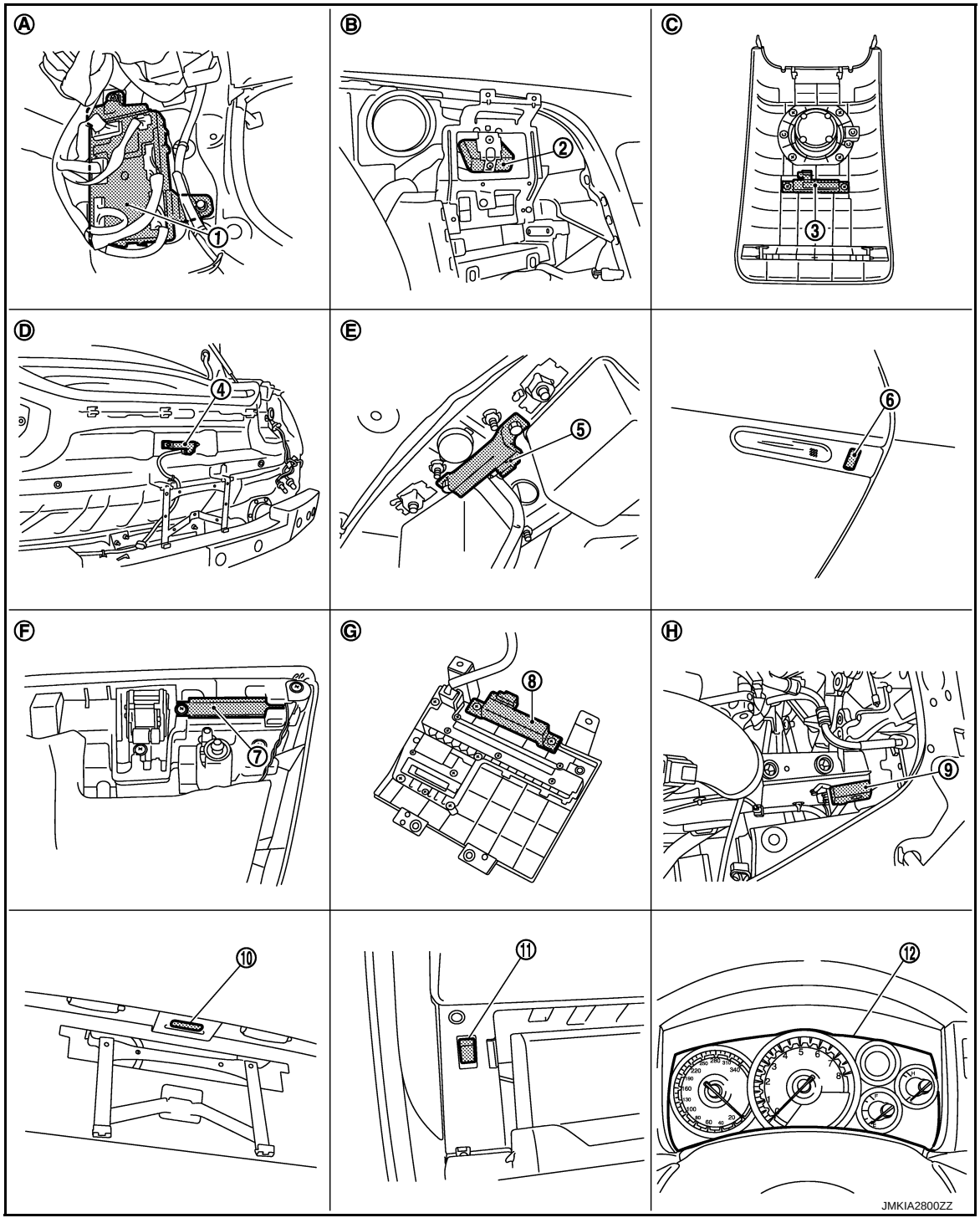
Parts marked with × are the parts related to operation.

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 indicator	Detention 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-ignition switch operation	×		×			×			×	×	×	×	×		
	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 in the ON position	×	×	×			×				×	×	×		×	
	Ignition switch is in any position except the 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 indicator	Detention switch	"KEY" warning lamp
Steering lock information			×							×	×	×			
Intelligent Key low battery warning	×					×				×	×	×			

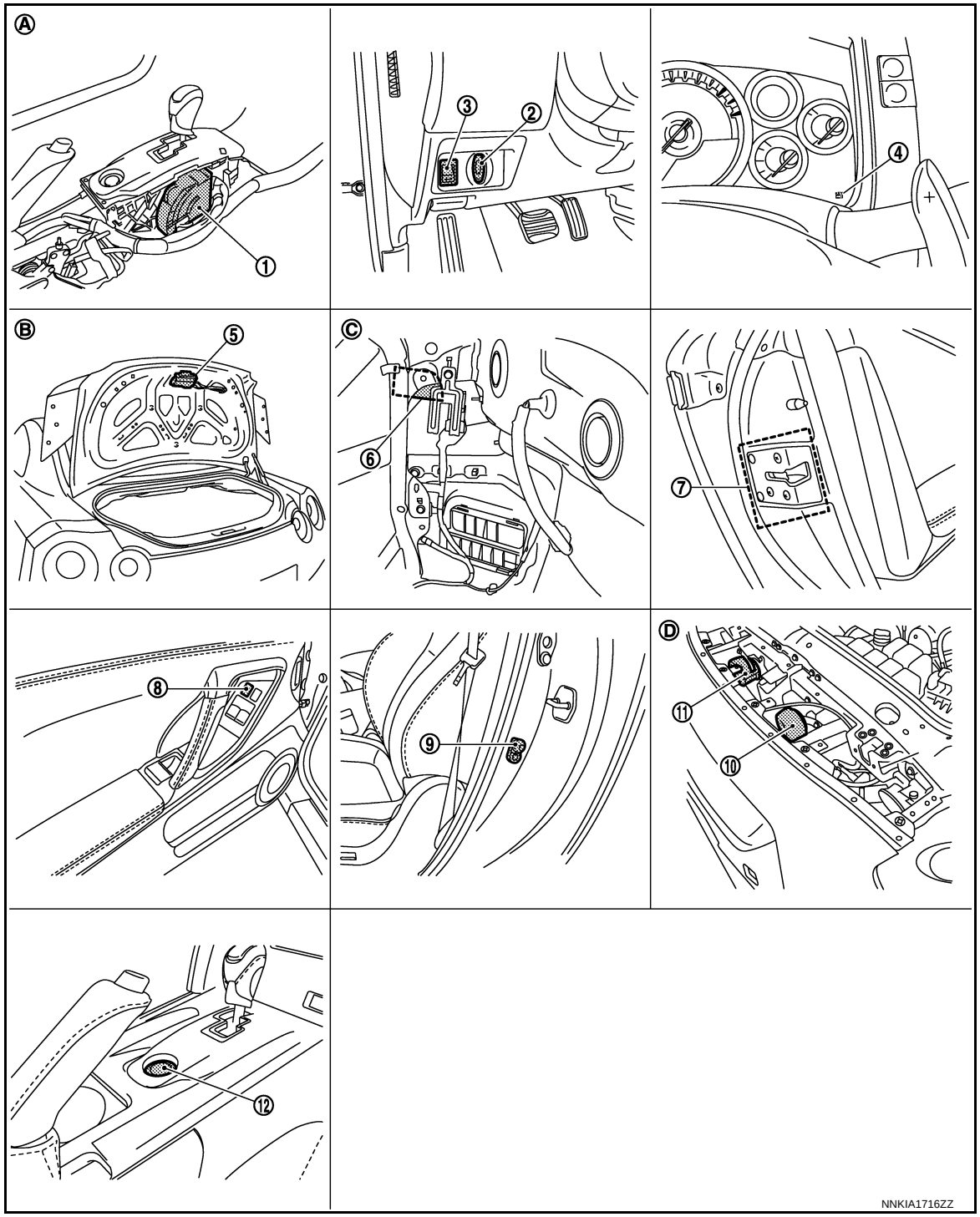
WARNING FUNCTION : Component Parts Location

INFOID:0000000011486921



1. BCM
2. Remote keyless entry receiver
3. Inside key antenna (console)
4. Outside key antenna (rear bumper)
5. Inside key antenna (trunk room)
6. Outside handle LH (request switch)
7. Outside antenna (driver side)
8. Inside key antenna (instrument center)
9. Intelligent key warning buzzer (engine room)
10. Trunk lid opener request switch
11. Trunk lid opener cancel switch
12. Combination meter

A. Dash side lower (passenger side).
B. Behind display unit.
C. Back of rear console assembly.
D. Behind rear bumper.
E. Behind trunk front finisher.
F. Back of door finisher.
G. Back of cluster lid C (lower).
H. Behind air cleaner box (RH).



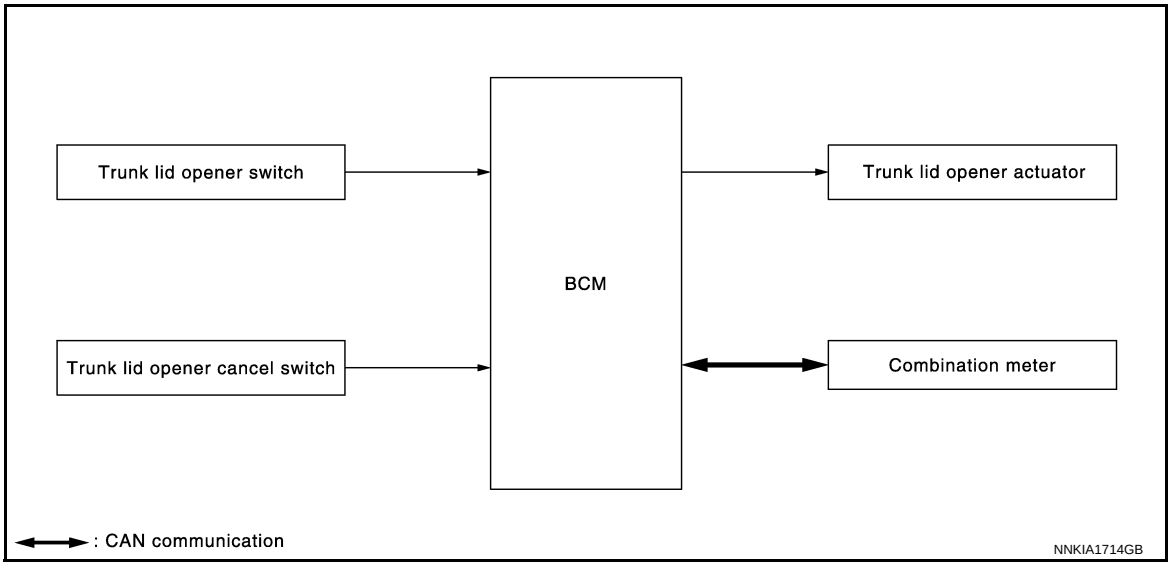
1. A/T shift selector (detention switch)
2. Key slot
3. Trunk lid opener switch
4. Key warning lamp
5. Trunk lid lock assembly
6. Fuel lid lock actuator
7. Driver side door lock actuator
8. Power window main switch (door lock and unlock switch)
9. Driver side door switch
10. Horn low
11. Horn high
12. Push-button ignition switch

A. View with center console assembly removed.
B. View with trunk lid finisher removed.
C. View with trunk side finisher removed.
D. Behind front bumper

TRUNK OPEN FUNCTION

System Diagram

INFOID:0000000011486922



System Description

INFOID:0000000011486923

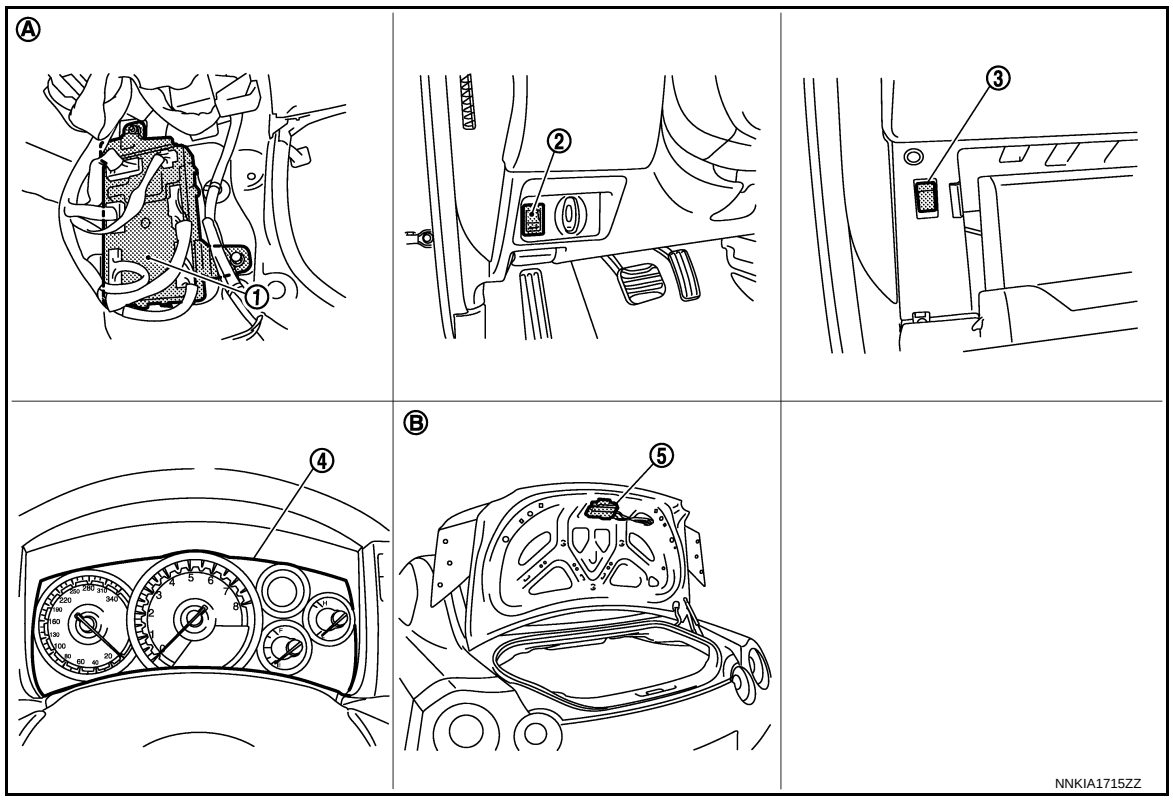
TRUNK LID OPENER OPERATION

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

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

Component Parts Location

INFOID:0000000011486924



1. BCM M118, M119, M120, M121, M122, M123
2. Trunk lid opener switch M20
3. Trunk lid opener cancel switch M105
4. Combination meter M53
5. Trunk lid lock assembly (trunk lid opener actuator) B352

A. Dash side lower (passenger side)
B. View with trunk lid finisher removed

Component Description

INFOID:0000000011486925

Item	Function
BCM	Controls trunk lid open operation.
Trunk lid opener switch	Transmits trunk open operation to BCM.
Trunk lid opener actuator	Opens the trunk after receiving the open signal from BCM.
Trunk lid opener cancel switch	Cancels the trunk open operation.
Combination meter	Transmits vehicle speed signal to CAN communication line.

INTEGRATED HOMELINK TRANSMITTER

Component Description

INFOID:0000000011486926

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

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

INFOID:0000000011797631

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

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

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

×: Applicable item

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

*: 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.

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 shift 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 Function (BCM - DOOR LOCK)

INFOID:0000000011486928

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

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

WORK SUPPORT

Monitor item	Description
DOOR LOCK-UNLOCK SET	Selective unlock function mode can be changed to operate (WITH) or not operate (WITHOUT) with this mode.
AUTOMATIC DOOR LOOK 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 24km/h(15MPH) • P RANGE: All doors are locked when shifting the shift 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 shift 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 shift 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

DATA MONITOR

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

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

ACTIVE TEST

Test item	Description
DOOR LOCK	This test is able to check door lock/unlock operation. • The all door lock actuators are locked when “ALL LCK” on CONSULT screen is touched. • The all door lock actuators are unlocked when “ALL UNLK” on CONSULT screen is touched. • The door lock actuator (driver side) is unlocked when “DR UNLK” on CONSULT screen is touched. • The door lock actuator (passenger side) is unlocked when “AS UNLK” on CONSULT screen is touched. • “OTR ULK” item is displayed, but cannot be monitored.

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:0000000011486929

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

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

WORK SUPPORT

Monitor item	Description
REMO CONT ID CONFIR	It can be checked whether Intelligent Key ID code is registered or not in this mode.
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 and passenger side) mode can be changed to operate (WITH) or not operate (WITHOUT) in this mode.
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (WITH) or not operate (WITHOUT) in this mode.
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by trunk lid opener request switch can be changed to operate (WITH) or not operate (WITHOUT) in this mode.
PANIC ALARM SET	Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following wit this mode. • MODE 1: 0.5 sec. • MODE 2: OFF: Non-operation • MODE 3: 1.5 sec.
PW DOWN SET	This item is displayed, but cannot be used.
TRUNK OPEN DELAY	Trunk button pressing on Intelligent Key button can be selected as per the following in this mode. • MODE 1: Press and hold • MODE 2: Press twice • MODE 3: Press and hold, or press twice
LO-BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (WITH) or not operate (WITHOUT) in this mode.
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (WITH) or not operate (WITHOUT) in this mode.
HAZARD ANSWER BACK	Hazard reminder function mode can be selected from the following in this mode. • LOCK ONLY: Door lock operation only • UNLOCK ONLY: Door unlock operation only • LOCK/UNLOCK: Lock/unlock operation • OFF: Non-operational
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 is this mode. • Horn chirp: Sound horn • Buzzer: Sound Intelligent Key warning buzzer • OFF: Non-operational
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) in this mode.

Monitor item	Description
SHORT CRANKING OUTPUT	Starter motor can operate during the times below. • 70 msec • 100 msec • 200 msec
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis.
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) in this mode.

SELF-DIAG RESULT

Refer to BCS-84, "DTC Index".

DATA MONITOR

NOTE:

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

Monitor Item	Condition
REQ SW -DR	Indicates [ON/OFF] condition of door request switch (driver side).
REQ SW -AS	Indicates [ON/OFF] condition of door request switch (passenger side).
REQ SW -BD/TR	Indicates [ON/OFF] condition of trunk opener request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2.
ACC RLY-FB	**NOTE:** This item is displayed, but cannot be monitored.
CLUTCH SW	**NOTE:** This item is displayed, but cannot be monitored.
BRAKE SW 1	Indicates [ON/OFF]* 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.

< SYSTEM DESCRIPTION >

Monitor Item	Condition
PRMT ENG STRT	Indicates [SET/RESET] condition of engine start possibility.
PRMT RKE STRT	**NOTE:** This item is displayed, but cannot be monitored.
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk lid.
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.
RKE-TR/BD	Indicates [ON/OFF] condition of TRUNK OPEN signal from Intelligent Key.
RKE-PANIC	Indicates [ON/OFF] condition of PANIC button of Intelligent Key.
RKE-P/W OPEN	**NOTE:** This item is displayed, but cannot be monitored.
RKE-MODE CHG	Indicates [ON/OFF] condition of MODE CHANGE signal from Intelligent Key.
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.
REVERSE SWITCH	**NOTE:** This item is displayed, but cannot be monitored.

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

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check interior room lamp operation. The interior room lamp will be activated when “ON” on CONSULT screen is touched.
PW REMOTO DOWN SET	**NOTE:** This item is displayed, but cannot be used.
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer will be activated when “ON” on CONSULT 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 screen is touched. • Key warning chime sounds when “KEY” on CONSULT screen is touched. • P position warning chime sounds when “KNOB” on CONSULT screen is touched.
INDICATOR	This test is able to check warning lamp operation. • “KEY” Warning lamp illuminates when “KEY ON” on CONSULT screen is touched. • “KEY” Warning lamp blinks when “KEY IND” on CONSULT screen is touched.
INT LAMP	This test is able to check interior room lamp operation. The interior room lamp will be activated when “ON” on CONSULT screen is touched.
LCD	This test is able to check meter display information • Engine start information displays when “BP N” on CONSULT screen is touched. • Engine start information displays when “BP I” on CONSULT screen is touched. • Key ID warning displays when “ID NG” on CONSULT screen is touched. • Steering lock information displays when “ROTAT” on CONSULT screen is touched. • P position warning displays when “SFT P” on CONSULT screen is touched. • Intelligent Key insert information displays when “INSRT” on CONSULT screen is touched. • Intelligent Key low battery warning displays when “BATT” on CONSULT screen is touched. • Take away warning displays when “OUTKEY” on CONSULT screen is touched. • OFF position warning displays when “LK WN” on CONSULT screen is touched.
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation. This actuator opens when “OPEN” on CONSULT screen is touched.
FLASHER	This test is able to check security hazard lamp operation. The hazard lamps will be activated when “RH” or “LH”on CONSULT screen is touched.
HORN	This test is able to check horn operation. The horn will be activated when “ON” on CONSULT screen is touched.

Test item	Description
P RANGE	This test is able to check control device power supply Control device power is supplied when “ON” on CONSULT 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 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 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 screen is touched.
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 screen is touched.
KEY SLOT ILLUMI	This test is able to check key slot illumination operation. Key slot illumination illuminates when “ON” on CONSULT screen is touched.
TRUNK/BACK DOOR	This test is able to check trunk lid opener actuator open operation. This actuator opens when “OPEN” on CONSULT screen is touched.

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:0000000011486930

BCM CONSULT FUNCTION

CONSULT 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

NOTE:

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

Monitor Item	Contents
PUSH SW	Indicates [ON/OFF] condition of push switch.
UNLK SEN -DR	Indicates [ON/OFF] condition of unlock sensor.
VEH SPEED 1	Indicates [Km/h] condition of vehicle speed signal from combination meter.
KEY CYL SW-TR	**NOTE:** This item is displayed, but cannot be monitored.
TR CANCEL SW	Indicates [ON/OFF] condition of trunk lid opener cancel switch.
TR/BD OPEN SW	Indicates [ON/OFF] condition of trunk lid opener switch.
TRNK/HAT MNTR	Indicates [ON/OFF] condition of trunk room lamp switch.
RKE-TR/BD	Indicates [ON/OFF] condition of trunk open signal from Intelligent Key remote controller button.

ACTIVE TEST

Test item	Description
TRUNK/GLASS HATCH	This test is able to check trunk lid opener actuator open operation. This actuator opens when “OPEN” on CONSULT screen is touched.

DTC/CIRCUIT DIAGNOSIS

B2621 INSIDE ANTENNA

Description

INFOID:0000000011486931

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

DTC Logic

INFOID:0000000011486932

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2621	INSIDE ANTENNA	An excessive high or low voltage from inside antenna is sent to BCM.	• Inside key antenna (instrument center) • Between BCM ～ Inside key antenna (instrument center)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

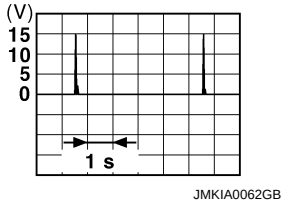
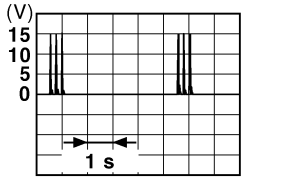
YES >> Refer to DLK-56, "Diagnosis Procedure".
NO >> Inside key antenna (instrument center) is OK.

Diagnosis Procedure

INFOID:0000000011486933

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+)			(–)	Condition	Signal (Reference value)
BCM					
Connector		Terminal			
Instrument center	M122	78, 79	Ground	When Intelligent Key is in the passenger compartment.	 JMKIA0062GB
				When Intelligent Key is not in the passenger compartment.	 JMKIA0063GB

Is the inspection result normal?

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

2.CHECK INSIDE KEY ANTENNA CIRCUIT

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

BCM		Inside key antenna (instrument center)		Continuity
Connector	Terminal	Connector	Terminal	
M122	78	M75	2	Existed
	79		1	

3. Check continuity between BCM harness connector and ground.

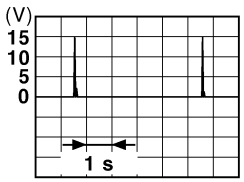
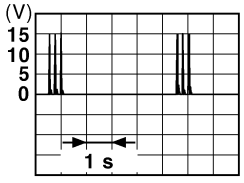
BCM		Ground	Continuity
Connector	Terminal		
M122	78		Not existed
	79		

Is the inspection result normal?

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

3.CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+)			(–)	Condition	Signal (Reference value)
BCM					
Connector		Terminal			
Instrument center	M122	78, 79	Ground	When Intelligent Key is in the passenger compartment.	 JMKIA0062GB
				When Intelligent Key is not in the passenger compartment.	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (instrument center). Refer to DLK-259, "INSTRUMENT CENTER : Removal and Installation".
NO >> Replace BCM. Refer to BCS-89, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

B2622 INSIDE ANTENNA

Description

INFOID:0000000011486934

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

DTC Logic

INFOID:0000000011486935

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA	An excessive high or low voltage from inside antenna 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”.
2. Perform “INTELLIGENT KEY” Self Diagnostic Result.

Is inside key antenna DTC detected?

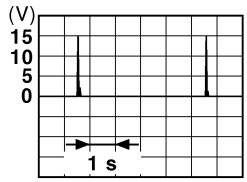
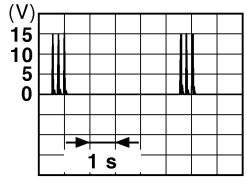
YES >> Refer to DLK-58, "Diagnosis Procedure".
NO >> Inside key antenna (console) is OK.

Diagnosis Procedure

INFOID:0000000011486936

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	When Intelligent Key is in the passenger compartment.	 JMKIA0062GB
				When Intelligent Key is not in the passenger compartment.	 JMKIA0063GB

Is the inspection result normal?

YES >> 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	M146	2	Existed
	73		1	

3. Check continuity between BCM harness connector and ground.

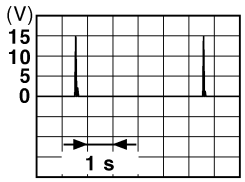
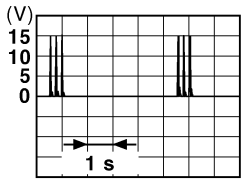
BCM		Ground	Continuity
Connector	Terminal		
M122	72		Not existed
	73		

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	When Intelligent Key is in the passenger compartment.	 JMKIA0062GB
				When Intelligent Key is not in the passenger compartment.	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to DLK-259, "CONSOLE : Removal and Installation".
NO >> Replace BCM. Refer to BCS-89, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

B2623 INSIDE ANTENNA

Description

INFOID:0000000011486937

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

DTC Logic

INFOID:0000000011486938

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is inside key antenna DTC detected?

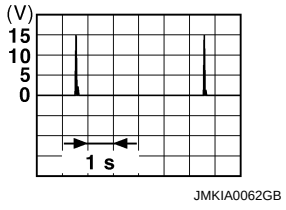
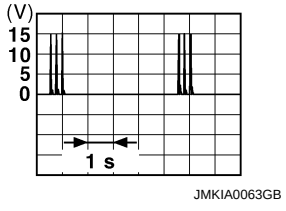
YES >> Refer to DLK-60, "Diagnosis Procedure".
NO >> Inside key antenna (trunk room) is OK.

Diagnosis Procedure

INFOID:0000000011486939

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)
Trunk room	M121	34, 35	Ground	When Intelligent Key is in the passenger compartment.	 JMKIA0062GB
				When Intelligent Key is not in the passenger compartment.	 JMKIA0063GB

Is the inspection result normal?

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

2.CHECK INSIDE KEY ANTENNA CIRCUIT

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

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

BCM		Inside key antenna (trunk room)		Continuity
Connector	Terminal	Connector	Terminal	
M121	34	B41	2	Existed
	35		1	

3. Check continuity between BCM harness connector and ground.

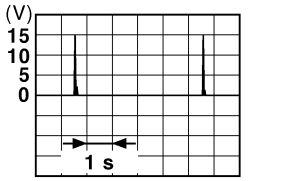
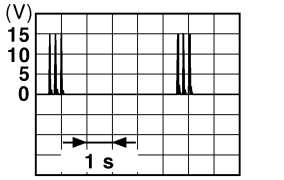
BCM		Ground	Continuity
Connector	Terminal		
M121	34		Not existed
	35		

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

(+)			(–)	Condition	Signal (Reference value)
BCM					
Connector		Terminal			
Trunk room	M121	34, 35	Ground	When Intelligent Key is in the passenger compartment.	 JMKIA0062GB
				When Intelligent Key is not in the passenger compartment.	 JMKIA0063GB

Is the inspection result normal?

YES >> Replace inside key antenna (trunk room). Refer to DLK-260, "TRUNK ROOM : Removal and Installation".
NO >> Replace BCM. Refer to BCS-89, "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:0000000011486940

1.CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.
Battery power supply	I
	10

Is the fuse fusing?

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

2.CHECK POWER SUPPLY CIRCUIT

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

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

Is the measurement value normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	13		Existed

Does continuity exist?

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

DOOR SWITCH

Description

INFOID:0000000011486941

Detects door open/close condition.

Component Function Check

INFOID:0000000011486942

1.CHECK FUNCTION

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

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

Is the inspection result normal?

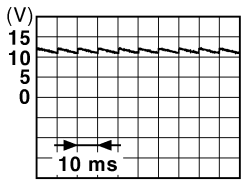
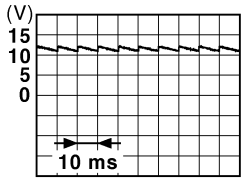
YES >> Door switch is OK.
NO >> Refer to DLK-63, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011486943

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	B21	2	Ground	 JPMIA0011GB
Passenger side	B221	2		 JPMIA0011GB

Is the inspection result normal?

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

2.CHECK DOOR SWITCH CIRCUIT

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

Door switch			BCM		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	B21	2	M123	150	Existed
Passenger side	B221			124	

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

Door switch			Ground	Continuity
Connector		Terminal		
Driver side	B21	2		Not existed
Passenger side	B221			

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK DOOR SWITCH

Refer to DLK-64, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.
NO >> Replace malfunctioning door switch. Refer to DLK-258, "Removal and Installation".

4.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011486944

1.CHECK DOOR SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace malfunction door switch. Refer to DLK-258, "Removal and Installation".

DOOR LOCK AND UNLOCK SWITCH
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000011486945

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000011486946

1.CHECK FUNCTION

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

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?

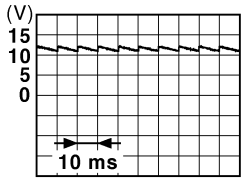
YES >> Door lock and unlock switch is OK.
NO >> Refer to DLK-65, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011486947

1.CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect power window main switch (door lock and unlock switch) connectors.
3. Check signal between power window main switch (door lock and unlock switch) harness connector and ground using oscilloscope.

(+)		(–)	Signal (Reference value)
Power window main switch (door lock and unlock switch)			
Connector	Terminal		
D8	5	Ground	
	13		

JPMIA0011GB

Is the inspection result normal?

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

2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and power window main switch (door lock and unlock switch) harness connector.

BCM		Power window main switch (door lock and unlock switch)		Continuity
Connector	Terminal	Connector	Terminal	
M123	128	D8	5	Existed
	131		13	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	128		Not existed
	131		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between power window main switch (door lock and unlock switch) harness connector and ground.

Power window main switch (door lock and unlock switch)		Ground	Continuity
Connector	Terminal		
D8	8		Existed

Is the inspection result normal?

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

4.CHECK DOOR LOCK AND UNLOCK SWITCH

Refer to DLK-66, "DRIVER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power window main switch (door lock and unlock switch). Refer to PWC-94, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

DRIVER SIDE : Component Inspection

INFOID:0000000011486948

1.CHECK DOOR LOCK AND UNLOCK SWITCH

1. Turn ignition switch OFF.
2. Disconnect power window main switch (door lock and unlock switch) connector.
3. Check continuity between power window main switch (door lock and unlock switch) terminals.

Terminal		Condition		Continuity
5	8	Door lock and unlock switch	Lock	Existed
13			Unlock	

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace power window main switch. Refer to PWC-94, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000011486949

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000011486950

1.CHECK FUNCTION

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

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?

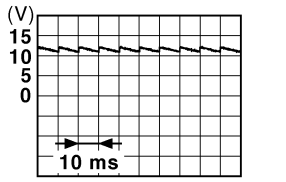
YES >> Door lock and unlock switch is OK.
NO >> Refer to DLK-67, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011486951

1.CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect power window sub-switch (door lock and unlock switch) connector.
3. Check signal between power window sub-switch (door lock and unlock switch) harness connector and ground using oscilloscope.

(+)		(–)	Signal (Reference value)
Power window sub-switch (door lock and unlock switch)			
Connector	Terminal		
D38	2	Ground	
	9		

JPMIA0011GB

Is the inspection result normal?

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

2.CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and power window sub-switch (door lock and unlock switch) harness connector.

BCM		Power window sub-switch (door lock and unlock switch)		Continuity
Connector	Terminal	Connector	Terminal	
M123	128	D38	2	Existed
	131		9	

3. Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	128		Not existed
	131		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Exploded View".
NO >> Repair or replace harness.

3.CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between power window sub-switch (door lock and unlock switch) harness connector and ground.

Power window sub-switch (door lock and unlock switch)		Ground	Continuity
Connector	Terminal		
D38	8		Existed

Is the inspection result normal?

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

4.CHECK DOOR LOCK AND UNLOCK SWITCH

Refer to DLK-68, "PASSENGER SIDE : Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace power window sub-switch (door lock and unlock switch). Refer to PWC-94, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE : Component Inspection

INFOID:0000000011486952

1.CHECK DOOR LOCK AND UNLOCK SWITCH

1. Turn ignition switch OFF.
2. Disconnect power window sub-switch (door lock and unlock switch) connector.
3. Check continuity between power window sub-switch (door lock and unlock switch) terminals.

Terminal		Condition		Continuity
2	8	Door lock and unlock switch	Lock	Existed
9			Unlock	

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace power window sub-switch (door lock and unlock switch). Refer to PWC-94, "Removal and Installation".

DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000011486953

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000011486954

1.CHECK FUNCTION

1. Use CONSULT 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-69, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011486955

1.CHECK DOOR LOCK ACTUATOR OUTPUT SIGNAL

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

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

Is the inspection result normal?

YES >> Replace driver side door lock actuator. Refer to DLK-249, "DOOR LOCK : Removal and Installation (GT-R certified NISSAN dealer)".
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 actuator harness connector.

BCM		Driver side door lock actuator		Continuity
Connector	Terminal	Connector	Terminal	
M119	8	D15	1	Existed
	9		3	

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-89, "Removal and Installation".
NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000011486956

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:0000000011486957

1.CHECK FUNCTION

1. Use CONSULT 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-70, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011486958

1.CHECK DOOR LOCK ACTUATOR OUTPUT SIGNAL

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

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

Is the inspection result normal?

YES >> Replace passenger side door lock actuator. Refer to DLK-249, "DOOR LOCK : Removal and Installation (GT-R certified NISSAN dealer)".
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 actuator harness connector.

BCM		Passenger side door lock actuator		Continuity
Connector	Terminal	Connector	Terminal	
M119	5	D45	3	Existed
	8		1	

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-89, "Removal and Installation".
NO >> Repair or replace harness.

TRUNK LID OPENER ACTUATOR

Description

INFOID:0000000011486959

Trunk lid opener actuator opens trunk lid with the signal from BCM.

Component Function Check

INFOID:0000000011486960

1.CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch position.

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

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

2.CHECK FUNCTION

1. Use CONSULT to perform Active Test (“TRUNK/GLASS HATCH”).
2. Touch “OPEN” to check that it works normally.

Is the inspection result normal?

YES >> Trunk lid opener actuator is OK.
NO >> Refer to DLK-71, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011486961

1.CHECK TRUNK LID OPENER INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Trunk lid lock assembly					
Connector	Terminal				
B352	3	Ground	Trunk lid opener switch	Pressed	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK TRUNK LID OPENER ACTUATOR CIRCUIT

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

BCM		Trunk lid lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
M120	23	B352	3	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-89, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK TRUNK LID OPENER ACTUATOR GROUND CIRCUIT

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

Trunk lid lock assembly		Ground	Continuity
Connector	Terminal		
B352	2		Existed

Is the inspection normal?

YES >> Replace trunk lid lock assembly. Refer to DLK-254, "TRUNK LID LOCK : Removal and Installation"

NO >> Repair or replace harness.

FUEL LID LOCK ACTUATOR

Description

INFOID:0000000011486962

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

Component Function Check

INFOID:0000000011486963

1.CHECK FUNCTION

1. Use CONSULT 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-73, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011486964

1.CHECK OUTPUT SIGNAL

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

(+)		(–)	Condition		Voltage (V) (Approx.)
Fuel lid lock actuator					
Connector	Terminal				
B244	2	Ground	Door lock and unlock switch	Lock	0 → Battery voltage → 0
	1			Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> Replace fuel lid lock actuator. Refer to DLK-257, "Removal and Installation".
NO >> GO TO 2.

2.CHECK FUEL LID OPENER ACTUATOR CIRCUIT

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

BCM		Fuel lid lock actuator		Continuity
Connector	Terminal	Connector	Terminal	
M119	8	B244	2	Existed
	9		1	

3. Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	8		Not existed
	9		

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".
NO >> Repair or replace harness.

REMOTE KEYLESS ENTRY RECEIVER

Description

INFOID:0000000011486965

Receives Intelligent Key operation and transmits to BCM.

Component Function Check

INFOID:0000000011486966

1.CHECK FUNCTION

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

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-74, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011486967

1.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

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

(+)		(–)	Voltage (V) (Approx.)
Remote keyless entry receiver			
Connector	Terminal		
M134	4	Ground	12

Is the inspection result normal?

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

2.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLYCIRCUIT

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	M134	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-89, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M123	137	M134	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	137		Not existed

Is the inspection result normal?

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

4. CHECK BCM SIGNAL

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

(+)		(–)	Voltage (V) (Approx.)
Remote keyless entry receiver			
Connector	Terminal		
M134	2	Ground	12

Is the inspection result normal?

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

5. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

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

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M122	83	M134	2	Existed

3. Check continuity between BCM harness connector and ground.

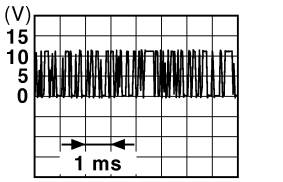
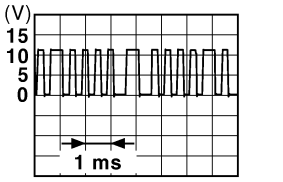
BCM		Ground	Continuity
Connector	Terminal		
M122	83		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".
NO >> Repair or replace harness.

6. CHECK REMOTE KEYLESS ENTRY RECEIVER SIGNAL

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

(+)		(–)	Condition	Signal (Reference value)
Remote keyless entry receiver				
Connector	Terminal			
M134	2	Ground	During waiting.	 JMKIA0064GB
			When operating either button on the Intelligent Key.	 JMKIA0065GB

Is the inspection result normal?

YES >> GO TO 7.
NO >> Replace remote keyless entry receiver. Refer to DLK-267, "Removal and Installation".

7.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

TRUNK LID OPENER SWITCH

Description

INFOID:0000000011486968

Outputs trunk lid open signal to BCM.

Component Function Check

INFOID:0000000011486969

1.CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch position.

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

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

2.CHECK FUNCTION

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

Monitor item	Condition		Status
TR/BD OPEN SW	Trunk lid opener switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

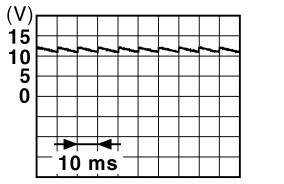
YES >> Trunk lid opener switch is OK.
NO >> Refer to DLK-77, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011486970

1.CHECK TRUNK LID OPENER SWITCH INPUT SIGNAL

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

(+)		(–)	Signal (Reference value)
Trunk lid opener switch			
Connector	Terminal		
M20	1	Ground	

JPMIA0011GB

Is the inspection result normal?

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

2.CHECK TRUNK LID OPENER SWITCH CIRCUIT

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

BCM		Trunk lid opener switch		Continuity
Connector	Terminal	Connector	Terminal	
M121	67	M20	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-89, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK TRUNK LID OPENER SWITCH GROUND CIRCUIT

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

Trunk lid opener switch		Ground	Continuity
Connector	Terminal		
M20	2		Existed

Is the inspection result normal?

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

4.CHECK TRUNK LID OPENER SWITCH

Refer to DLK-78, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace trunk lid opener switch. Refer to DLK-266, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011486971

1.CHECK TRUNK LID OPENER SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace trunk lid opener switch. Refer to DLK-266, "Removal and Installation".

DOOR REQUEST SWITCH

Description

INFOID:0000000011486972

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:0000000011486973

1.CHECK FUNCTION

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

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?

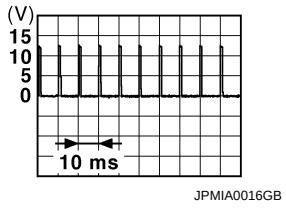
YES >> Door request switch is OK.
NO >> Refer to DLK-79, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011486974

1.CHECK BCM OUTPUT SIGNAL

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

(+)			(–)	Signal (Reference value)
Outside handle (request switch)				
Connector		Terminal		
LH	D13	1	Ground	
RH	D43			

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 BCM harness connector and malfunctioning outside handle (request switch) harness connector.

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

3. Check continuity between BCM harness connector and ground.

BCM			Ground	Continuity
Connector		Terminal		
LH	D13	1		Not existed
RH	D43			

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

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

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

Is the inspection result normal?

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

4.CHECK DOOR REQUEST SWITCH

Refer to DLK-80, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace malfunctioning outside handle. Refer to DLK-253, "OUTSIDE HANDLE : Removal and Installation (GT-R certified NISSAN dealer)".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011486975

1.CHECK DOOR REQUEST SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace malfunctioning outside handle. Refer to DLK-253, "OUTSIDE HANDLE : Removal and Installation (GT-R certified NISSAN dealer)".

TRUNK LID OPENER REQUEST SWITCH

Description

INFOID:0000000011486976

Performs trunk lid open request when it is pressed.

Component Function Check

INFOID:0000000011486977

1.CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch position.

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

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

2.CHECK FUNCTION

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

Monitor item	Condition		Status
REQSW-BD/TR	Trunk lid opener request switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

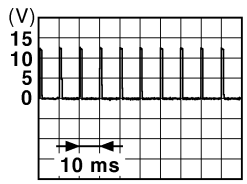
YES >> Trunk lid opener request switch is OK.
NO >> Refer to DLK-81, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011486978

1.CHECK BCM OUTPUT SIGNAL

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

(+)		(–)	Signal (Reference value)
Trunk lid opener request switch			
Connector	Terminal		
B153	1	Ground	

JPMIA0016GB

Is the inspection result normal?

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

2.CHECK TRUNK LID OPENER REQUEST SWITCH CIRCUIT

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

BCM		Trunk lid opener request switch		Continuity
Connector	Terminal	Connector	Terminal	
M121	61	B153	1	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-89, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK TRUNK LID OPENER REQUEST SWITCH GROUND CIRCUIT

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

Trunk lid opener request switch		Ground	Continuity
Connector	Terminal		
B153	2		Existed

Is the inspection result normal?

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

4.CHECK TRUNK LID OPENER REQUEST SWITCH

Refer to DLK-82, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace trunk lid opener request switch. Refer to DLK-265, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011486979

1.CHECK TRUNK LID OPENER REQUEST SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace trunk lid opener request switch. Refer to DLK-265, "Removal and Installation".

TRUNK LID OPENER CANCEL SWITCH

Description

INFOID:0000000011486980

Cancels trunk lid open operation.

Component Function Check

INFOID:0000000011486981

1.CHECK FUNCTION

Check (“TR CANCEL SW”) in “Data Monitor” mode using CONSULT.

Monitor item	Condition		Status
TR CANCEL SW	Trunk lid opener cancel switch	ON	ON
		OFF (Cancel)	OFF

Is the inspection result normal?

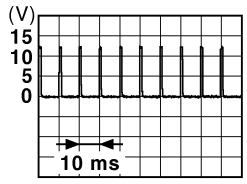
YES >> Trunk lid opener cancel switch is OK.
NO >> Refer to DLK-83, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011486982

1.CHECK BCM OUTPUT SIGNAL

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

(+)		(–)	Signal (Reference value)
Trunk lid opener cancel switch			
Connector	Terminal		
M105	1	Ground	

JPMIA0012GB

Is the inspection result normal?

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

2.CHECK TRUNK LID OPENER CANCEL SWITCH CIRCUIT

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

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

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	129		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".

NO >> Repair or replace harness or connector.

3.CHECK TRUNK LID OPENER CANCEL SWITCH GROUND CIRCUIT

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

Trunk lid opener cancel switch	Terminal	Ground	Continuity
M105	2		Existed

Is the inspection result normal?

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

4.CHECK TRUNK LID OPENER CANCEL SWITCH

Refer to DLK-84, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace trunk lid opener cancel switch. Refer to DLK-268, "Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011486983

1.CHECK TRUNK LID OPENER CANCEL SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace trunk lid opener cancel switch. Refer to DLK-268, "Removal and Installation".

TRUNK ROOM LAMP SWITCH

Description

INFOID:0000000011486984

Detects trunk lid open/close condition.

Component Function Check

INFOID:0000000011486985

1.CHECK FUNCTION

Check (“TRNK/HAT MNTR”) in “Data Monitor” mode using CONSULT.

Monitor item	Condition		Status
TRNK/HAT MNTR	Trunk lid	Open	ON
		Closed	OFF

Is the inspection result normal?

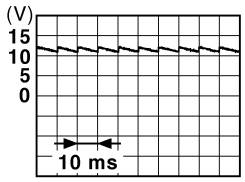
YES >> Trunk room lamp switch is OK.
NO >> Refer to DLK-85, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011486986

1.CHECK TRUNK ROOM LAMP SWITCH INPUT SIGNAL

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

(+)		(–)	Condition		Signal (Reference value)
Trunk lid lock assembly					
Connector	Terminal				
B352	1	Ground	Trunk lid	Open	0
				Close	

JPMIA0011GB

Is the inspection result normal?

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

2.CHECK TRUNK ROOM LAMP SWITCH CIRCUIT

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

BCM		Trunk lid lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
M121	50	B352	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M121	50		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK TRUNK ROOM LAMP SWITCH GROUND CIRCUIT

Check continuity between trunk lid lock assembly connector and ground.

Trunk lid lock assembly		Ground	Continuity
Connector	Terminal		
B352	2		Existed

Is the inspection result normal?

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

4.CHECK TRUNK ROOM LAMP SWITCH

Refer to DLK-86, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace trunk lid lock assembly. Refer to DLK-254, "TRUNK LID LOCK : Removal and Installation".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END.

Component Inspection

INFOID:0000000011486987

1.CHECK TRUNK ROOM LAMP SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace trunk lid lock assembly. Refer to DLK-254, "TRUNK LID LOCK : Removal and Installation".

UNLOCK SENSOR

Description

INFOID:0000000011486988

Detects door lock condition of driver door.

Component Function Check

INFOID:0000000011486989

1.CHECK FUNCTION

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

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

Is the inspection result normal?

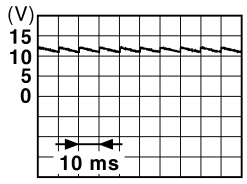
YES >> Unlock sensor is OK.
NO >> Refer to DLK-87, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011486990

1.CHECK BCM OUTPUT SIGNAL

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

(+)		(–)	Signal (Reference value)
Driver side door lock actuator			
Connector	Terminal		
D15	2	Ground	

JPMIA0011GB

Is the inspection result normal?

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

2.CHECK UNLOCK SENSOR CIRCUIT

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

BCM		Driver side door lock actuator		Continuity
Connector	Terminal	Connector	Terminal	
M123	119	D15	2	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-89, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK UNLOCK SENSOR GROUND CIRCUIT

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

Driver side door lock actuator		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-88, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace driver side door lock actuator. Refer to DLK-249, "DOOR LOCK : Removal and Installation (GT-R certified NISSAN dealer)".

5.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000011486991

1.CHECK UNLOCK SENSOR

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

Driver side door lock actuator		Condition		Continuity
Terminal				
2	4	Driver side door	Unlock	Existed
			Lock	Not existed

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace driver side door lock actuator. Refer to DLK-249, "DOOR LOCK : Removal and Installation (GT-R certified NISSAN dealer)".

OUTSIDE KEY ANTENNA

Description

INFOID:0000000011486992

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

Component Function Check

INFOID:0000000011486993

1.CHECK OUT SIDE KEY ANTENNA FUNCTION

Check that intelligent key is in each outside key antenna detection range.

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

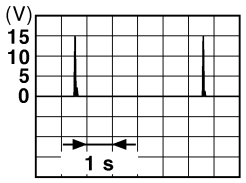
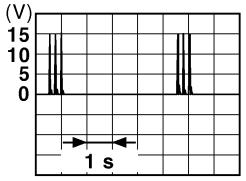
YES >> Outside key antenna is OK.
NO >> Refer to DLK-89, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011486994

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.)
Driver side	M122	76, 77	Ground	Door request switch or trunk lid opener request switch is pressed.	When Intelligent Key is in the antenna detection area.	 JMKIA0062GB
Passenger side		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-89, "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 BCM harness connector and outside key antenna harness connector.

Outside key antenna			BCM		Continuity
Connector		Terminal	Connector	Terminal	
Driver side	D24	1	M122	77	Existed
		2		76	
Passenger side	D54	1		75	
		2		74	
Rear bumper	B60	1	M121	39	
		2		38	

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

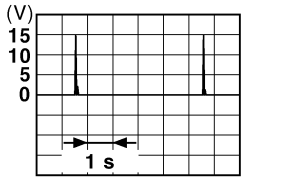
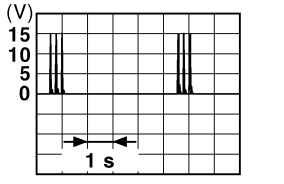
Outside key antenna			Ground	Continuity
Connector		Terminal		
Driver side	D24	1	Ground	Not existed
		2		
Passenger side	D54	1		
		2		
Rear bumper	B60	1		
		2		

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 outside key antenna connector.
3. Check signal between BCM harness connector and ground using oscilloscope.

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace BCM. Refer to BCS-89, "Removal and Installation".

INTELLIGENT KEY WARNING BUZZER

Description

INFOID:0000000011486995

Answers back and warns for an inappropriate operation.

Component Function Check

INFOID:0000000011486996

1.CHECK FUNCTION

1. Use CONSULT 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-91, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011486997

1.CHECK FUSE

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

Is fuse fusing?

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

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		
E62	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	E62	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

Check DLK-92, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".
NO >> Replace Intelligent Key warning buzzer. Refer to DLK-263, "Removal and Installation".

Component Inspection

INFOID:0000000011486998

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.

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace Intelligent Key warning buzzer. Refer to DLK-263, "Removal and Installation".

INTELLIGENT KEY

Description

INFOID:0000000011486999

The following functions are available when having and carrying intelligent key.
- Door lock/unlock
- Trunk lid open
- Engine start

Remote control entry function and panic alarm function have specific buttons.

Component Function Check

INFOID:0000000011487000

1.CHECK FUNCTION

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

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

Is the inspection result normal?

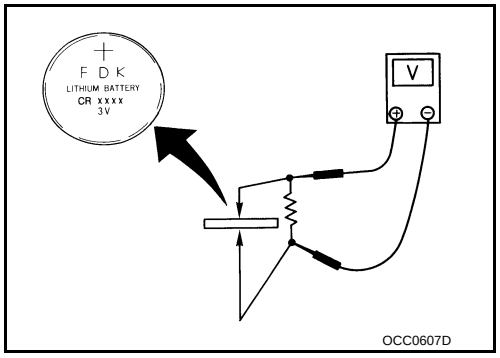
YES >> Intelligent Key is OK.
NO >> Refer to DLK-93, "Component Inspection".

Component Inspection

INFOID:0000000011487001

1.CHECK INTELLIGENT KEY BATTERY

Check by connecting a resistance (approximately 300 Ω) so that the current value becomes about 10 mA. Refer to DLK-269, "Disassembly and Assembly".



Standard : Approx. 2.5 - 3.0 V

Is the measurement value within the specification?

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

KEY SLOT

Description

INFOID:0000000011487002

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

Component Function Check

INFOID:0000000011487003

1.CHECK FUNCTION

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

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-94, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011487004

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10 A fuse, [No.11, located in fuse block (J/B)].

Is fuse fusing?

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

2.CHECK KEY SLOT POWER SUPPLY CIRCUIT

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

(+)		(–)	Voltage (V) (Approx.)
Key slot			
Connector	Terminal		
M60	1	Ground	Battery voltage

Is the inspection result normal?

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

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	M60	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-95, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".
NO >> Replace key slot. Refer to DLK-264, "Removal and Installation".

Component Inspection

INFOID:0000000011487005

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 DLK-264, "Removal and Installation".

KEY SLOT INDICATOR

Description

INFOID:0000000011487006

Blinks when Intelligent Key insertion is required.

Component Function Check

INFOID:0000000011487007

1.CHECK FUNCTION

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

Is the inspection result normal?

YES >> Key slot indicator is OK.
NO >> Refer to DLK-96, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011487008

1.CHECK FUSE

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

Is fuse fusing?

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

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		
M60	5	Ground	Battery voltage

Is the inspection result normal?

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

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	M60	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-97, "Component Inspection".

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-89, "Removal and Installation".
NO >> Replace key slot. Refer to DLK-264, "Removal and Installation".

Component Inspection

INFOID:0000000011487009

1. CHECK KEY SLOT ILLUMINATION

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

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

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace key slot. Refer to DLK-264, "Removal and Installation".

COMBINATION METER DISPLAY

Description

INFOID:0000000011487010

Displays each operation method guide and warning for system malfunction.

Component Function Check

INFOID:0000000011487011

1.CHECK FUNCTION

Use CONSULT 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-98, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011487012

1.CHECK COMBINATION METER

Refer to MWI-100, "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:0000000011487013

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:0000000011487014

1.CHECK FUNCTION

1. Use CONSULT 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-99, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011487015

1.CHECK METER BUZZER CIRCUIT

Refer toWCS-25, "Component Function Check".

Is the inspection result normal?

Yes >> GO TO 2.
No >> Repair or replace the malfunctioning parts.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

KEY WARNING LAMP

Description

INFOID:0000000011487016

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:0000000011487017

1.CHECK FUNCTION

1. Use CONSULT 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-100, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011487018

1.CHECK KEY WARNING LAMP

Refer to MWI-4, "Work flow".

Is the inspection result normal?

Yes >> GO TO 2.
No >> Repair or replace the malfunctioning parts.

2.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

HAZARD FUNCTION

Description

INFOID:0000000011487019

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

Component Function Check

INFOID:0000000011487020

1.CHECK FUNCTION

1. Use CONSULT 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-101, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000011487021

1.CHECK HAZARD SWITCH CIRCUIT

Refer to EXL-65, "Component Function Check".

Is the inspection result normal?

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

2.CHECK INTERMITTENT INCIDENT

Refer to GI-39, "Intermittent Incident".

>> INSPECTION END

INTEGRATED HOMELINK TRANSMITTER

Description

INFOID:0000000011487022

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:0000000011487023

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-102, "Diagnosis Procedure".

3.CHECK TRANSMITTER

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

Is the inspection result normal?

YES >> Receiver or hand-held transmitter malfunction, not vehicle related.
NO >> Replace auto anti-dazzling inside mirror (homelink universal transceiver). Refer to MIR-18, "Removal and Installation".

Diagnosis Procedure

INFOID:0000000011487024

1.CHECK POWER SUPPLY

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

(+)		(-)	Condition		Voltage (V) (Approx.)
Auto anti-dazzling inside mirror (Homelink universal transceiver)					
connector	Terminal	Ground	Ignition switch position	OFF	Battery voltage
R9	5			ON	

Is the inspection result normal?

YES >> GO TO 2.
NO-1 >> 10A 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 (homelink universal transceiver).

2.CHECK GROUND CIRCUIT

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

Auto anti-dazzling inside mirror (Homelink universal transceiver)		Ground	Continuity
Connector	Terminal		
R9	8		Existed

Is the inspection result normal?

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

3.CHECK INTERMITTENT INCIDENT

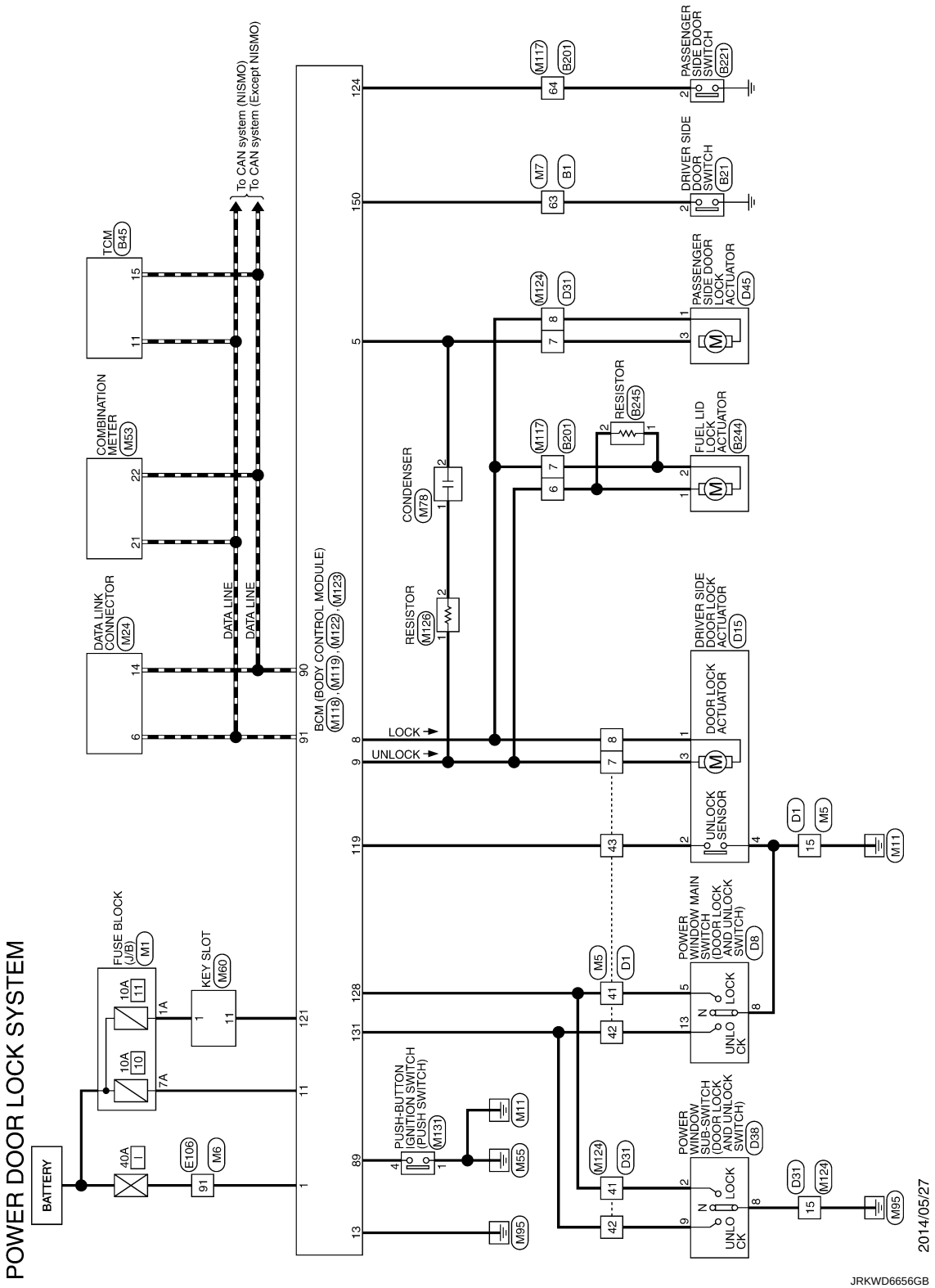
Refer to GI-39, "Intermittent Incident".

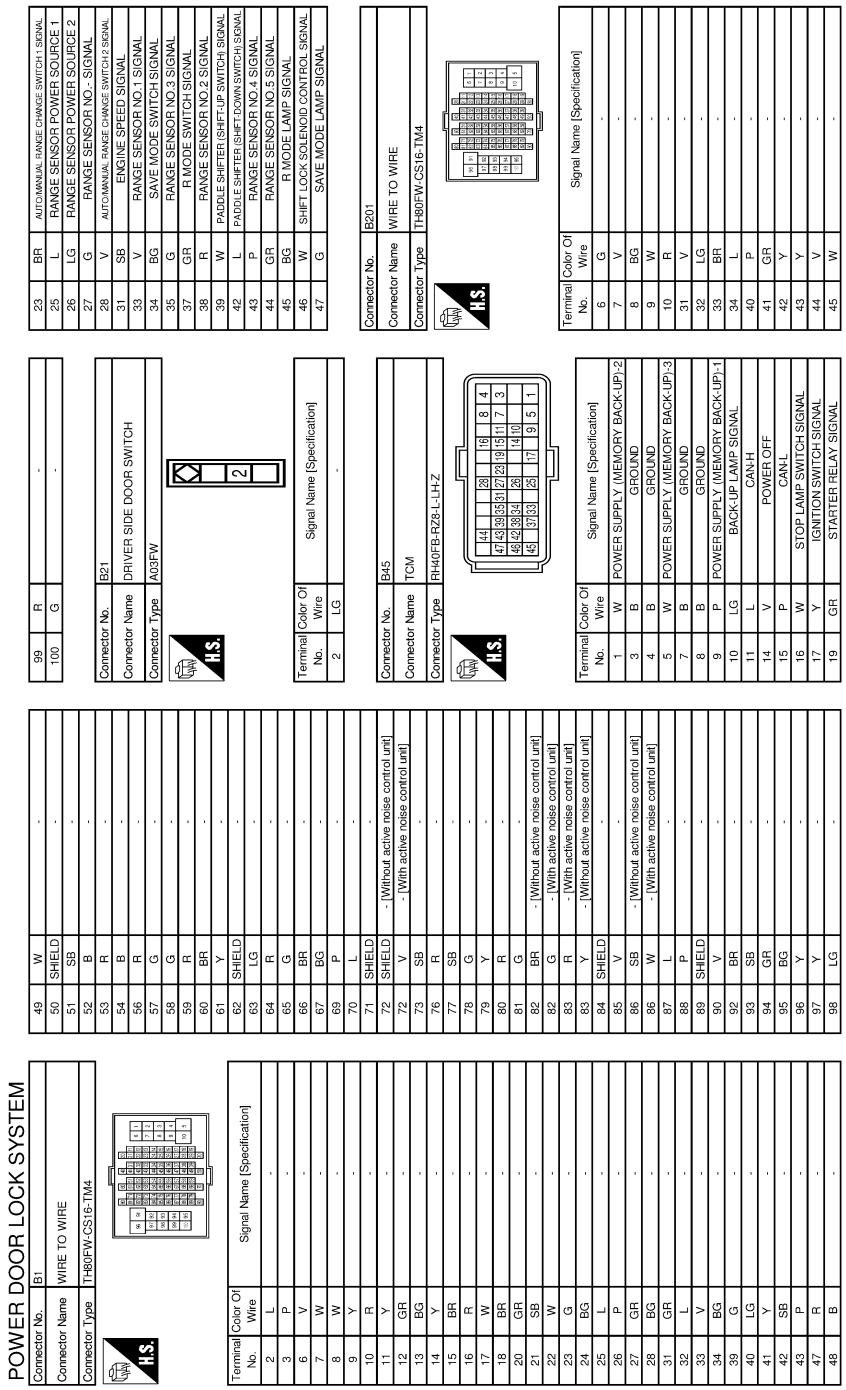
>> INSPECTION END

POWER DOOR LOCK SYSTEM

Wiring Diagram - POWER DOOR LOCK SYSTEM -

INFOID:0000000011487025





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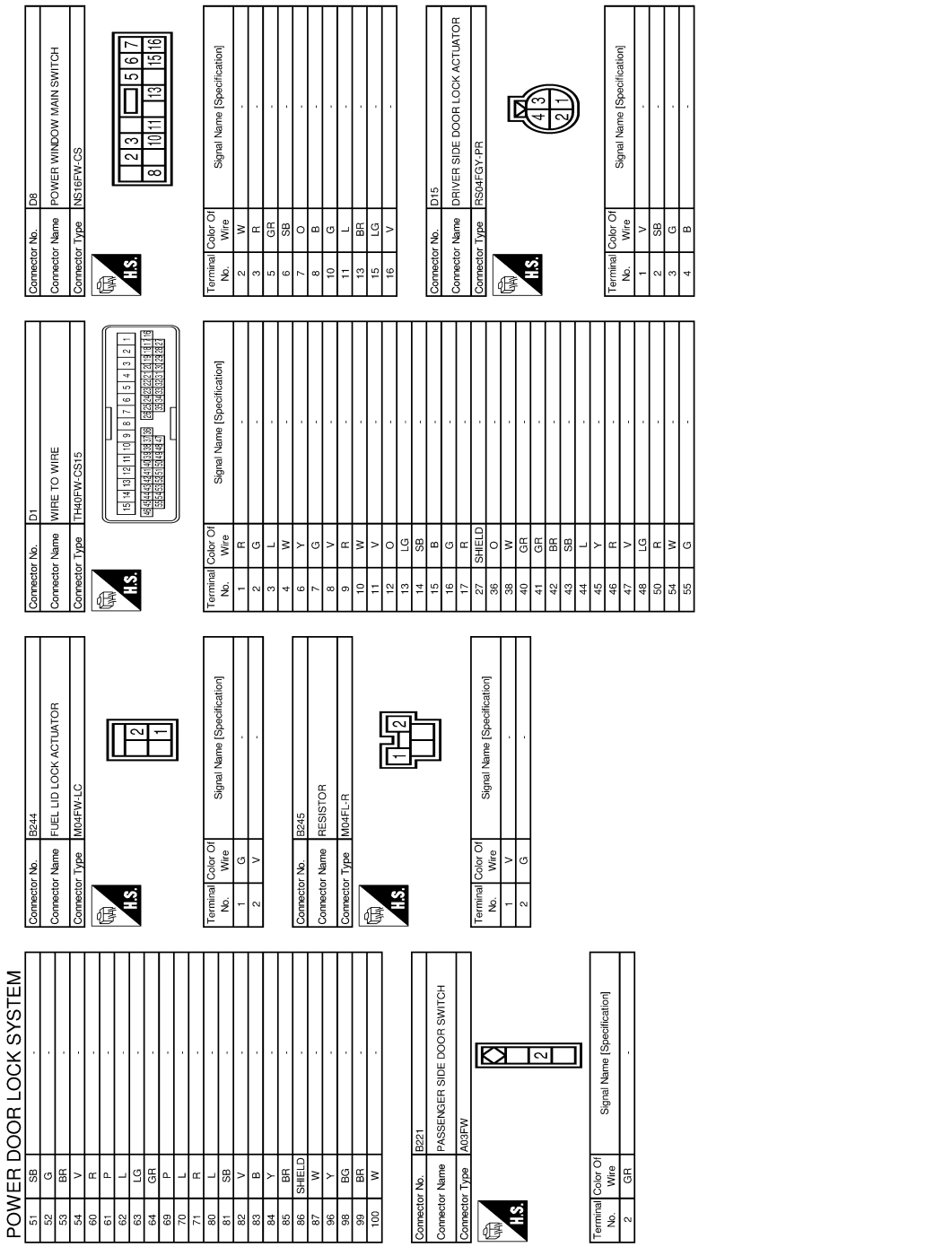

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POWER DOOR LOCK SYSTEM

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	L	-
4	W	-
6	Y	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	O	-
13	LG	-
14	SB	-
15	B	-
16	R	-
17	G	-
27	SHIELD	-
36	O	-
38	W	-
40	LG	-
41	GR	-
42	BR	-
44	L	-
45	Y	-
46	R	-
47	V	-
48	LG	-
50	R	-
54	W	-
55	G	-

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	-
3	V	-
5	SB	-
6	O	-
7	LG	-
8	B	-
9	BR	-
11	W	-
14	R	-
15	G	-
16	L	-

Connector No.	D45
Connector Name	PASSENGER SIDE DOOR LOCK ACTUATOR
Connector Type	RS04FGY-PR

H.S.

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

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
3	BG	-
4	BG	-
5	R	-
6	P	-
7	BG	-
8	P	-
9	W	-
10	Y	-
11	SB	-
12	BG	-
13	P	-
14	L	-
15	SB	-
16	BG	-
17	SHIELD	-
18	L	-
19	P	-
20	B	-
21	Y	-
22	V	-
23	Y	-
24	V	-
25	BR	-
26	L	-
27	SHIELD	-
28	G	-
29	R	-
30	W	-
31	V	-
32	G	-
33	GR	-
34	P	-
35	LG	-
36	G	-
37	Y	-
38	SB	-
39	GR	-
40	G	-
41	V	-
42	V	-
43	L	-
44	BR	-
45	G	-
46	SB	-
48	BG	-
49	L	-
50	R	-
51	SHIELD	-
60	P	-
61	L	-
71	LG	-
72	SB	-
74	P	-
75	BR	-
76	LG	-
77	V	-
78	BR	-
79	W	-
80	Y	-
81	GR	-
82	BG	-
84	P	-
85	P	-
86	GR	-
87	R	-
88	L	-
89	BG	-
90	G	-
91	GR	-
92	R	-
93	R	-
94	LG	-
95	G	-
96	GR	-
97	L	-
98	LG	-
99	BG	-
100	L	-

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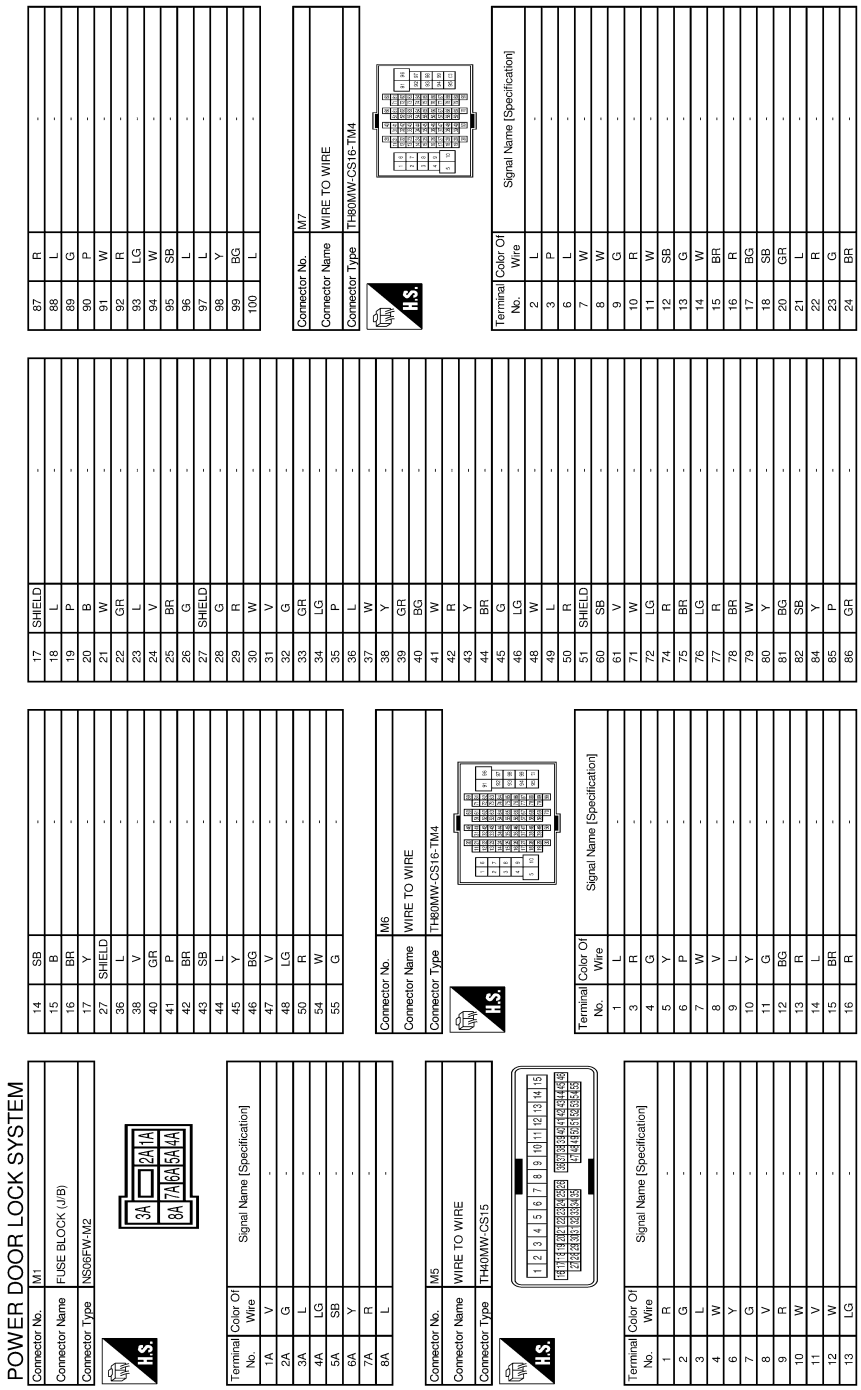

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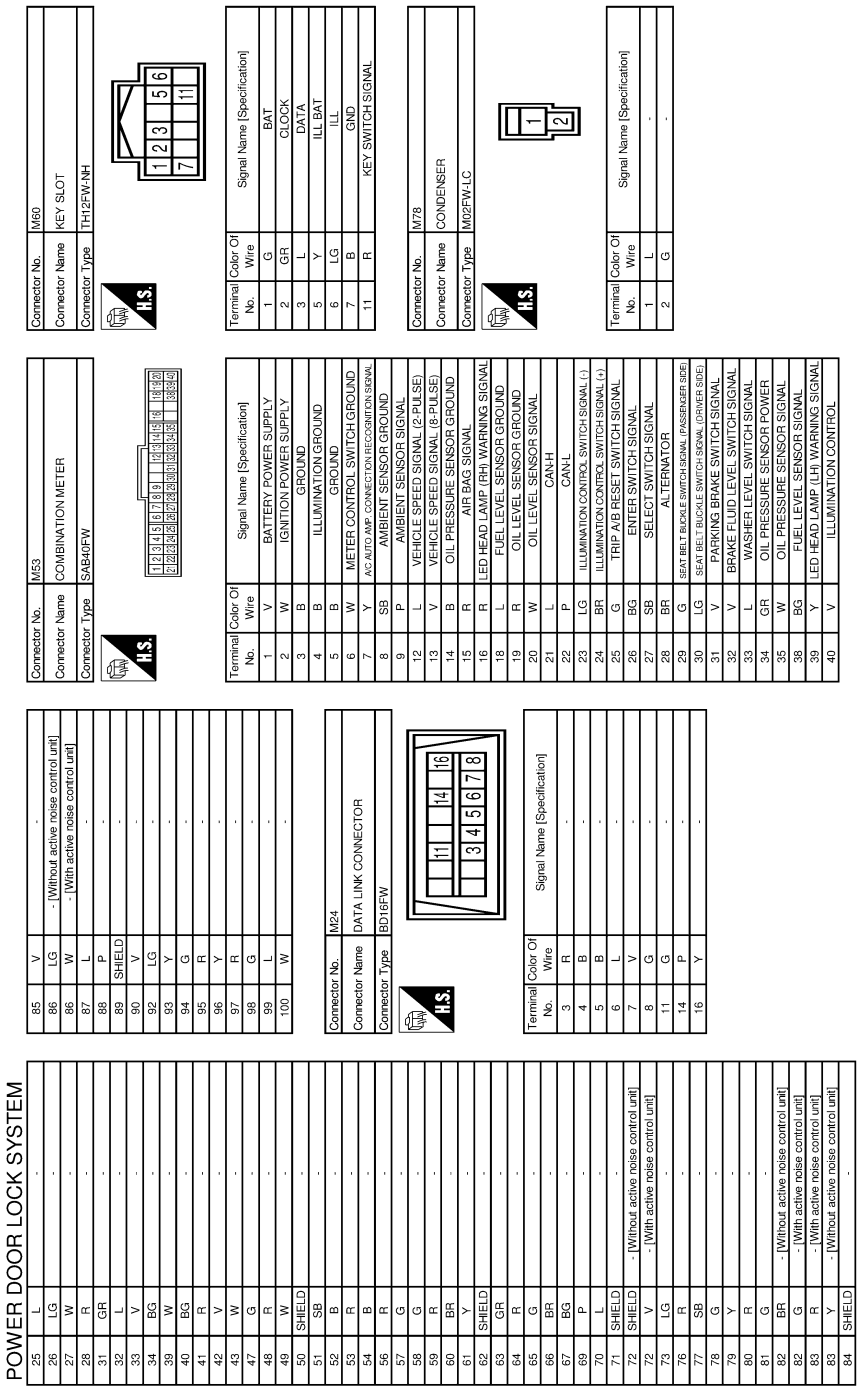

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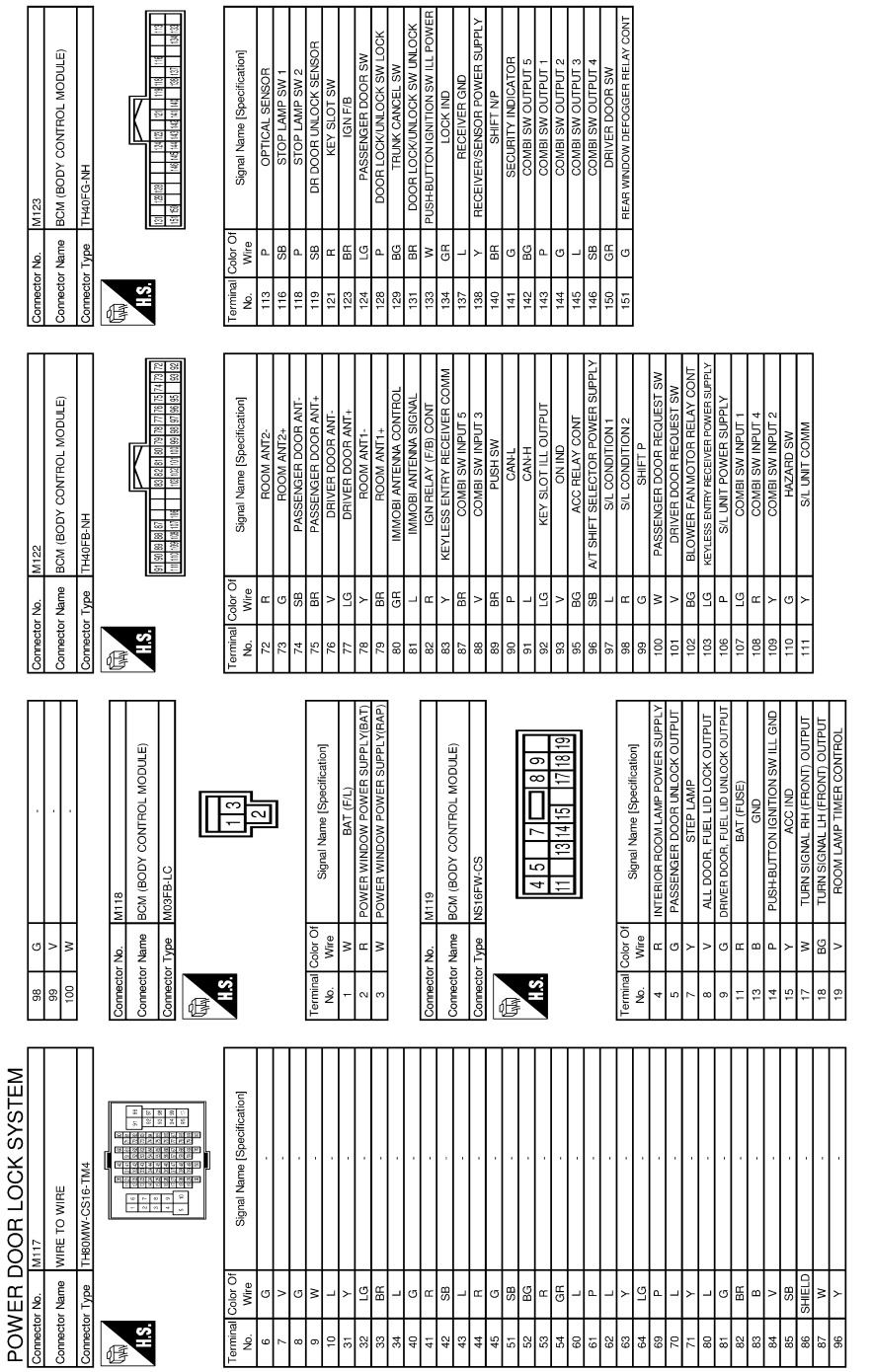

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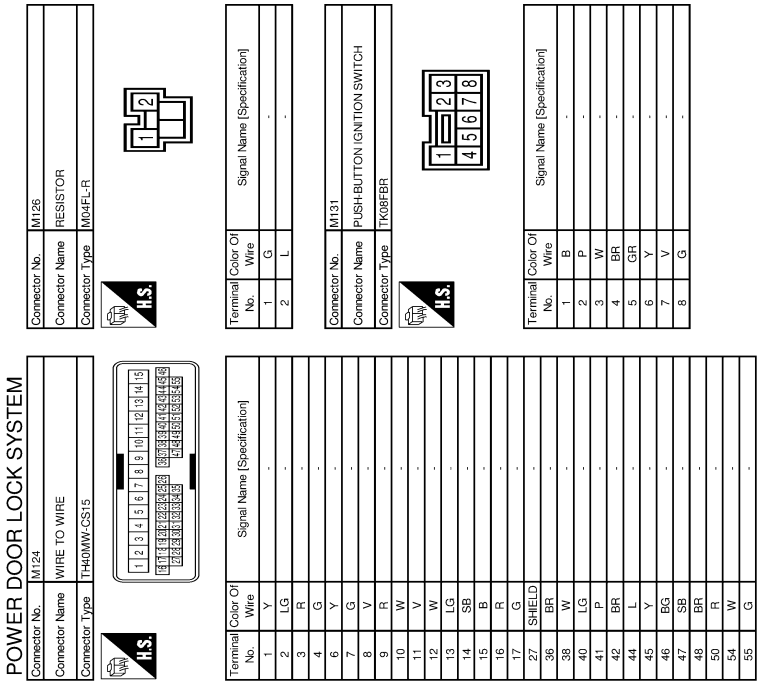

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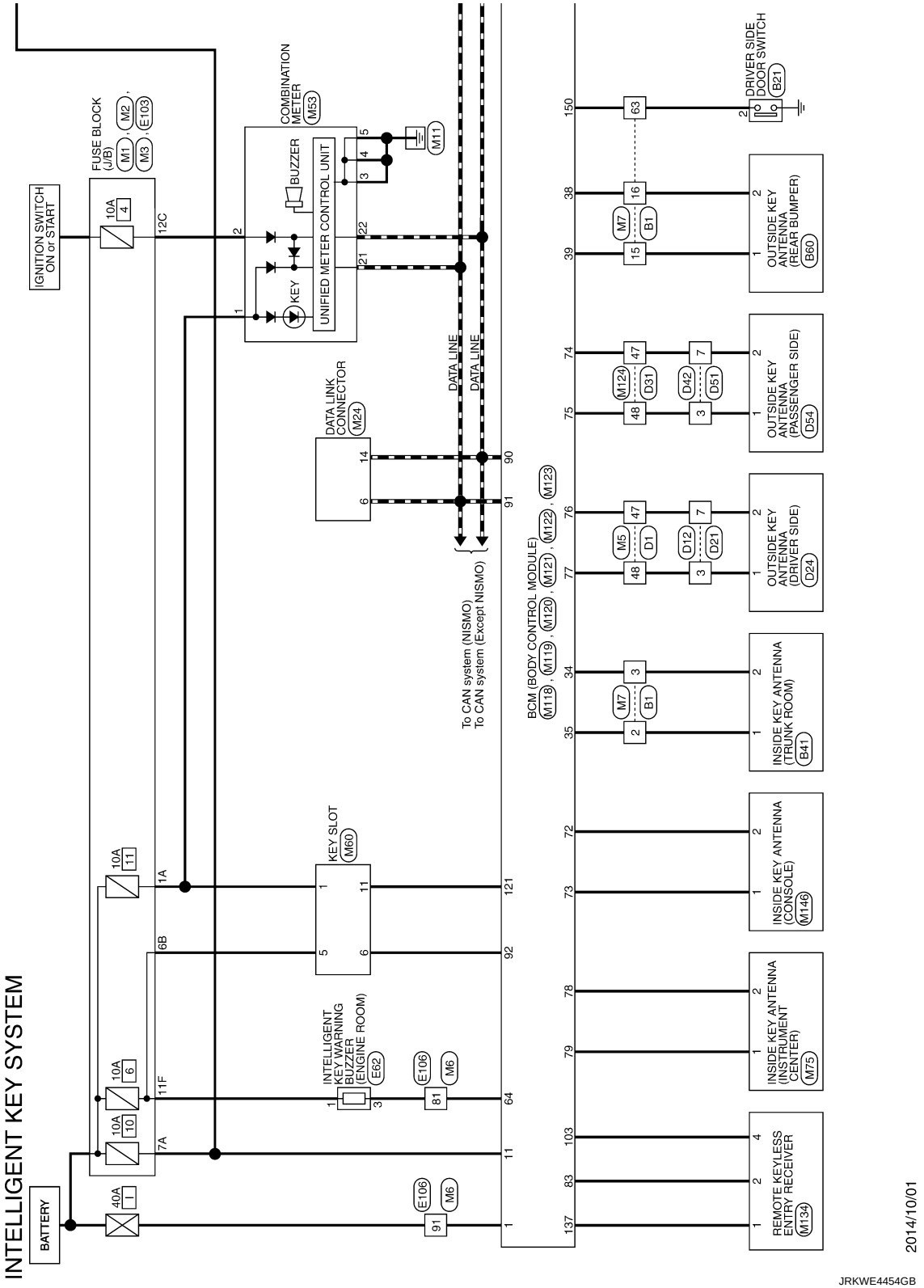
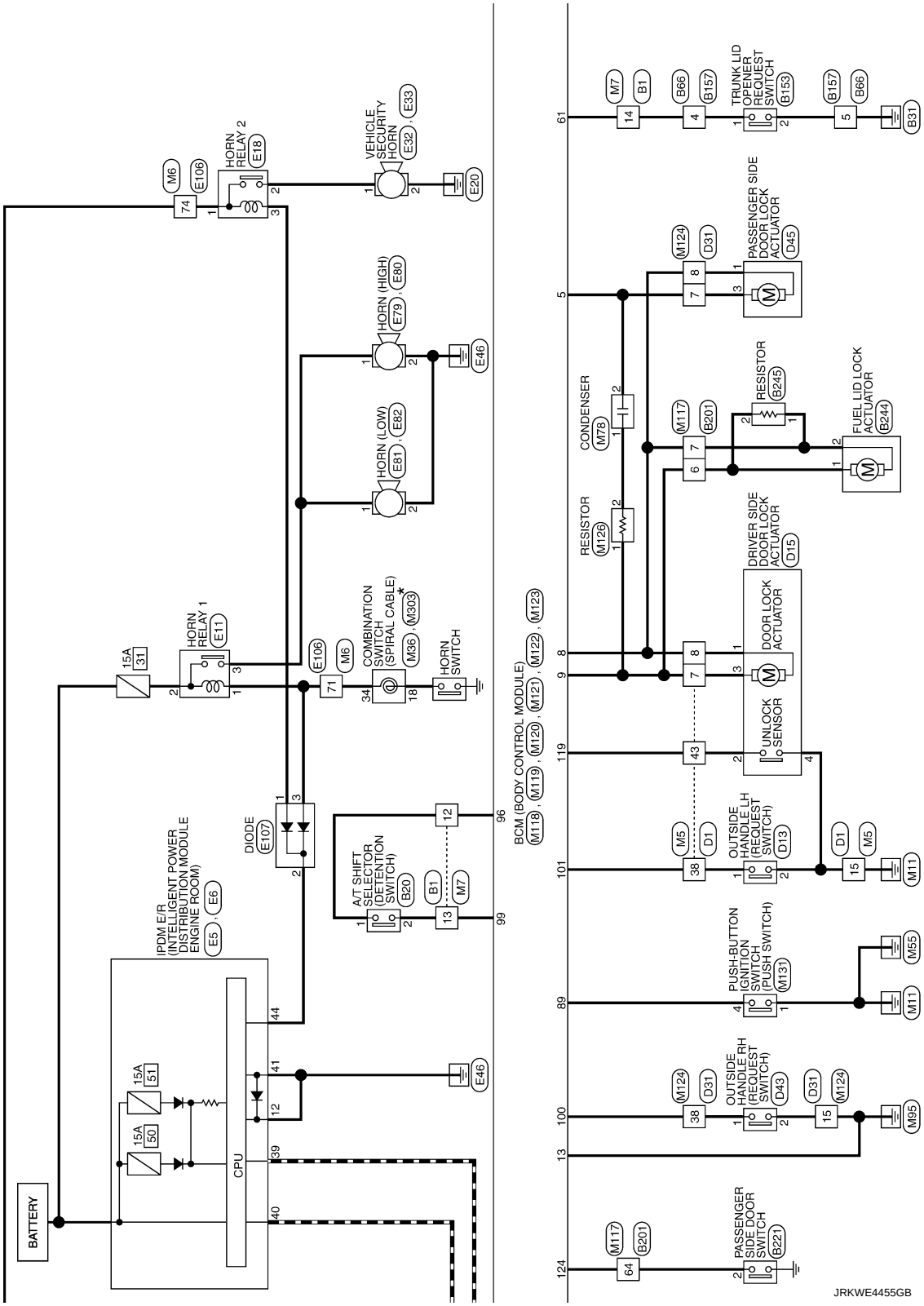
INTELLIGENT KEY SYSTEM

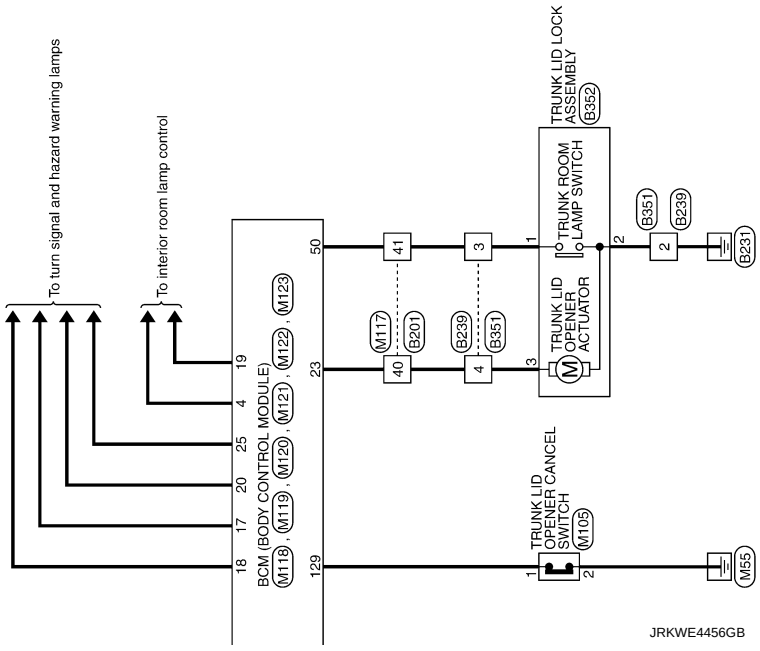
Wiring Diagram - INTELLIGENT KEY SYSTEM -

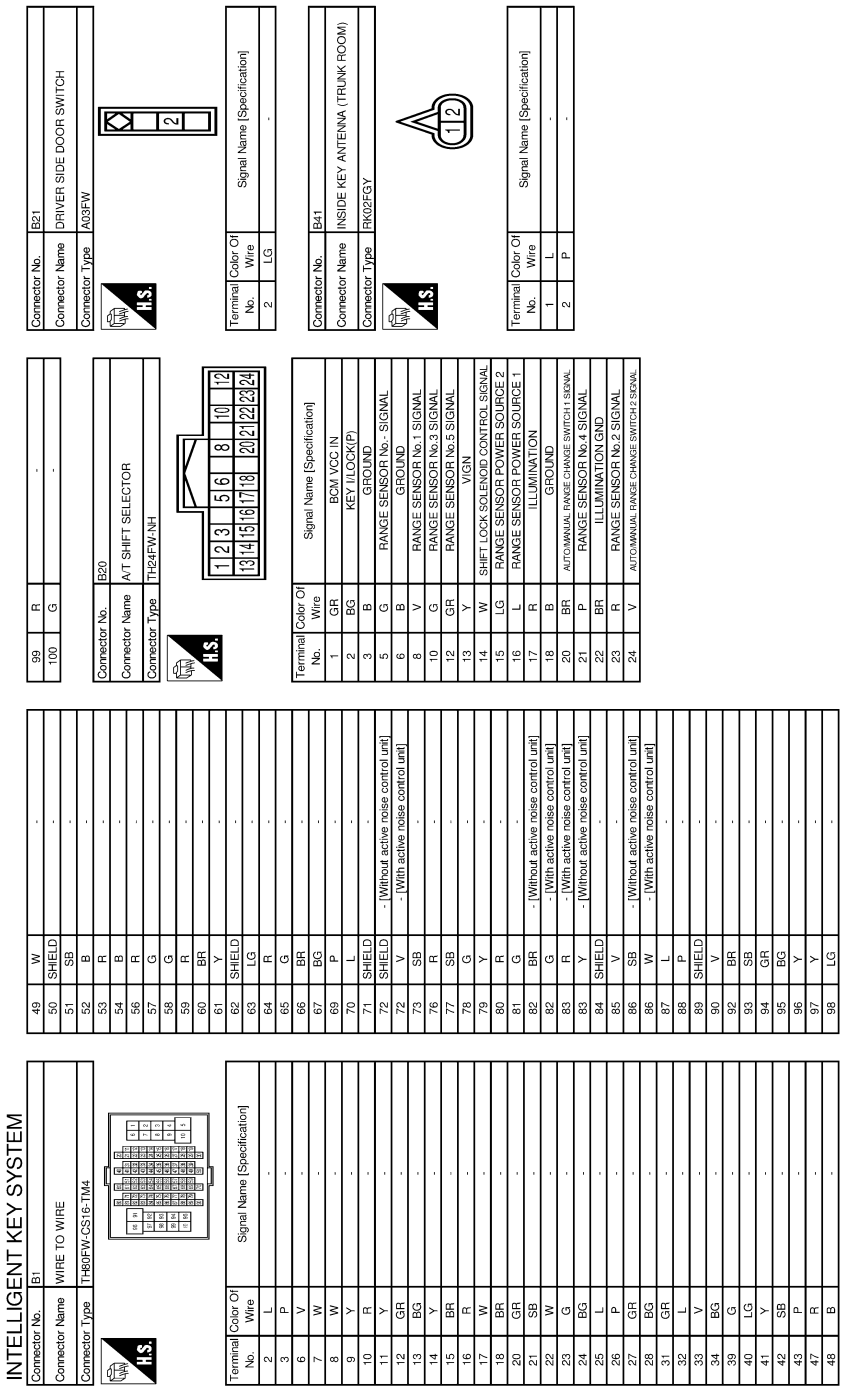
INFOID:0000000011487026




BATTERY
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) E5, E6
CPU
15A 51
15A 50
15A 31
HORN RELAY 1 E11
HORN RELAY 2 E18
DIODE E107
COMBINATION SWITCH (SPIRAL CABLE)* M303
HORN SWITCH
A/T SHIFT SELECTOR DETENTION SWITCH B20
VEHICLE SECURITY HORN E32, E33
HORN (HIGH) E79, E80
HORN (LOW) E81, E82
BCM (BODY CONTROL MODULE) M118, M119, M120, M121, M122, M123
TRUNK LID OPENER REQUEST SWITCH B153
PASSENGER SIDE DOOR LOCK ACTUATOR D45
CONDENSER M78
RESISTOR M129
RESISTOR B245
FUEL LID LOCK ACTUATOR B244
DRIVER SIDE DOOR LOCK ACTUATOR D15
DOOR LOCK ACTUATOR
UNLOCK SENSOR
OUTSIDE HANDLE LH (REQUEST SWITCH) D13
OUTSIDE HANDLE RH (REQUEST SWITCH) D43
PUSH-BUTTON IGNITION SWITCH (PUSH SWITCH) M131
PASSENGER SIDE DOOR SWITCH B221
JRKWE4455GB

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





JRKWE4457GB

INTELLIGENT KEY SYSTEM

Connector No.	B60
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FGY

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

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	RH10MB

Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	B	-
4	Y	-
5	B	-
6	G	-
7	R	-
8	B	-
9	W	-
10	SHIELD	-

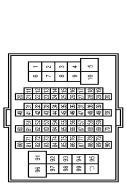
Connector No.	B153
Connector Name	TRUNK LID OPENER REQUEST SWITCH
Connector Type	RK02ML

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

Connector No.	B157
Connector Name	WIRE TO WIRE
Connector Type	RH10FB

Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-
3	B	-
4	W	-
5	B	-
6	G	-
7	R	-
8	B	-
9	W	-
10	SHIELD	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
6	G	-
7	V	-
8	BG	-
9	W	-
10	R	-
31	V	-
32	LG	-
33	BR	-
34	L	-
40	P	-
41	GR	-
42	Y	-
43	Y	-
44	V	-
45	W	-
51	SB	-
52	G	-
53	BR	-
54	V	-
60	R	-
61	P	-
62	L	-
63	LG	-
64	GR	-
69	P	-
70	L	-
71	R	-
80	L	-
81	SB	-
82	V	-
83	B	-
84	Y	-
85	BR	-
86	SHIELD	-
87	W	-
96	Y	-
98	BG	-
99	BR	-
100	W	-

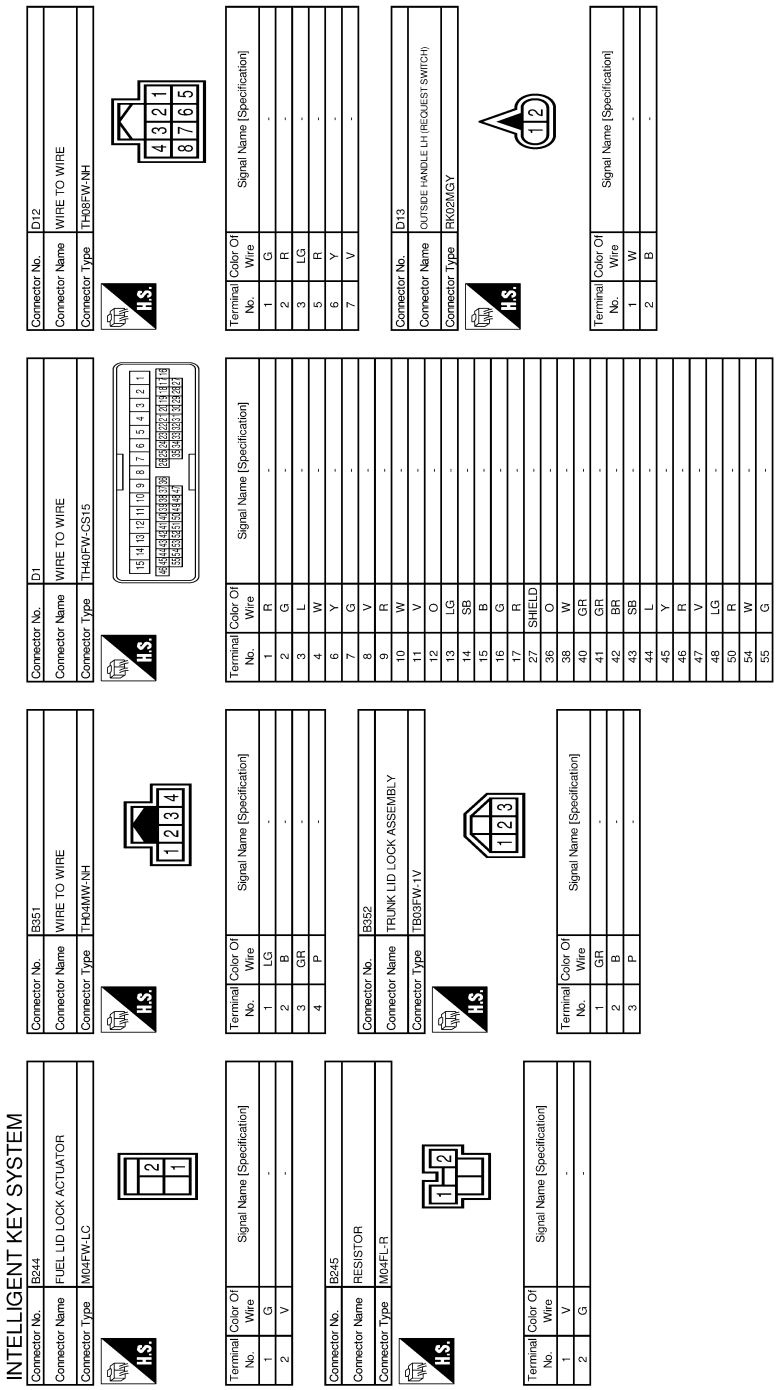
Connector No.	B221
Connector Name	PASSENGER SIDE DOOR SWITCH
Connector Type	A03FW

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

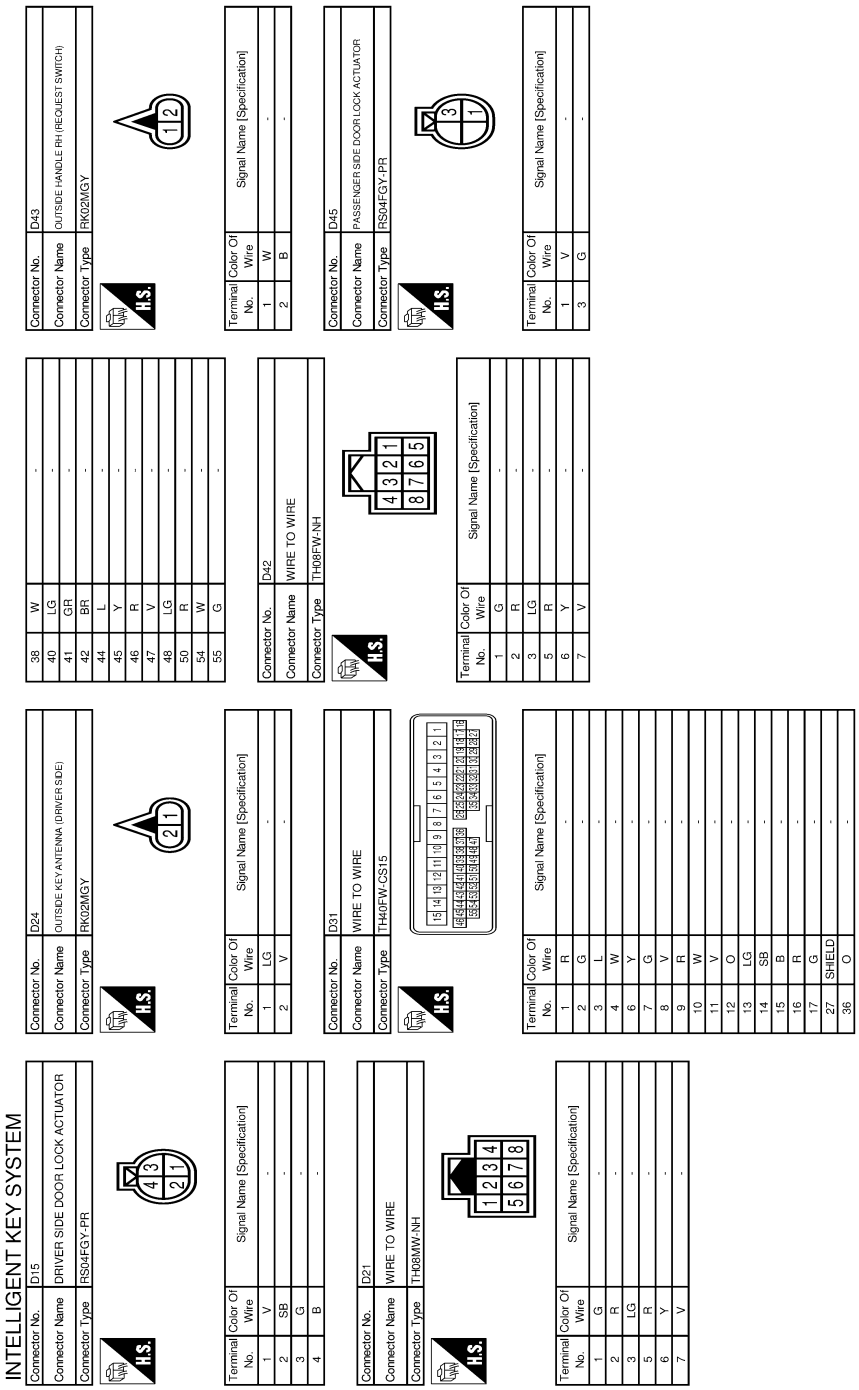
Connector No.	B239
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH

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

JRKWE4458GB



JRKWE4459GB



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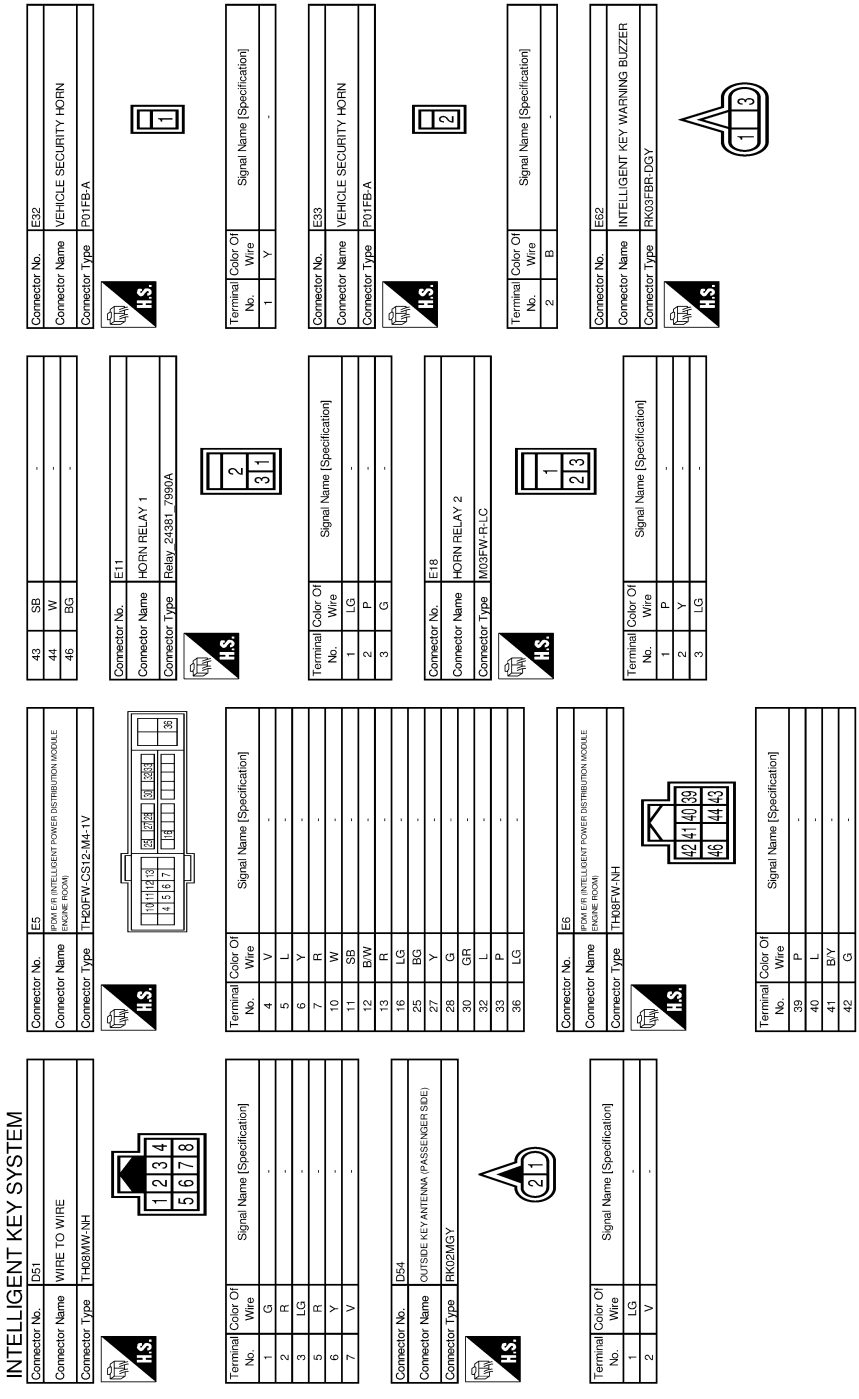

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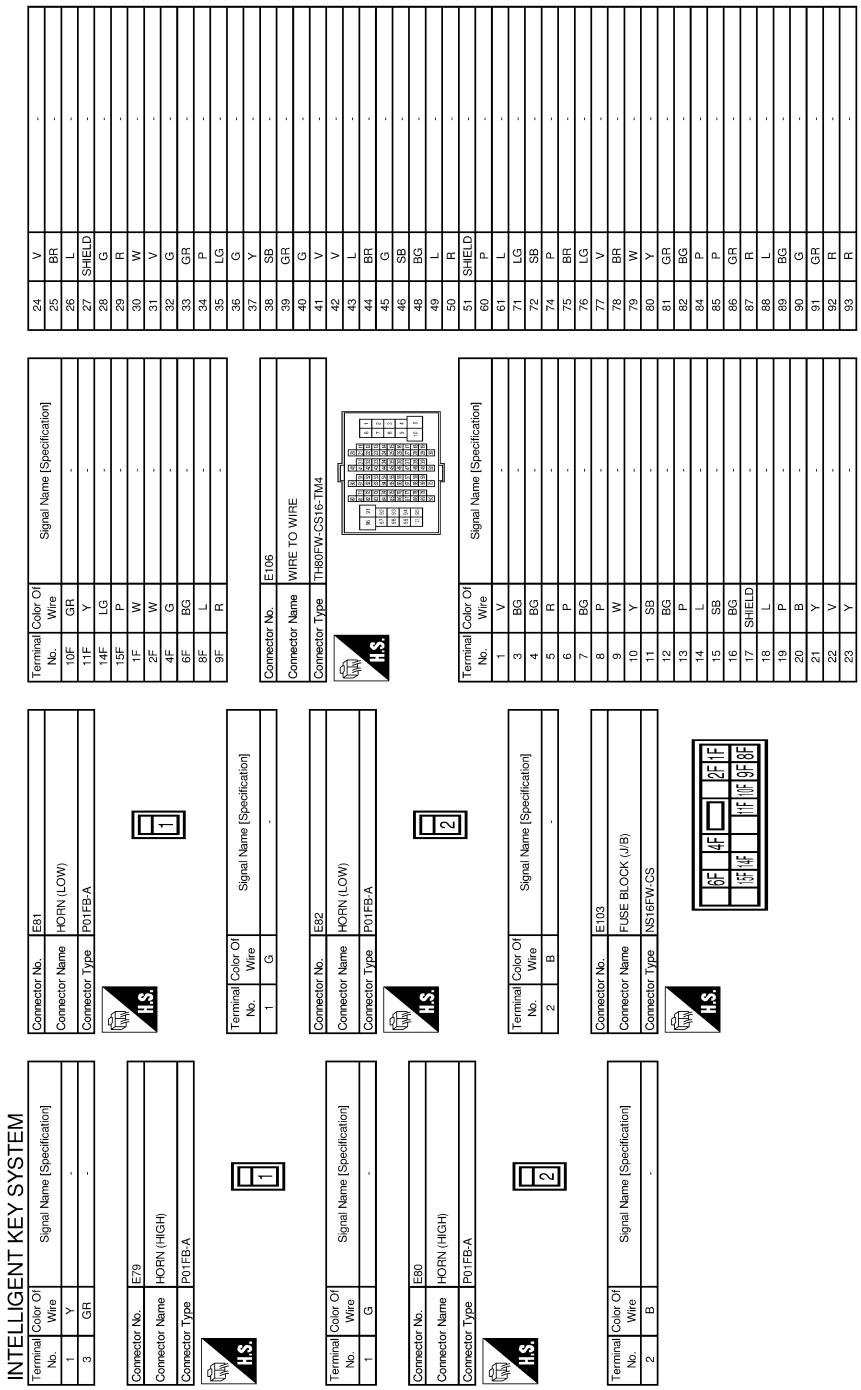

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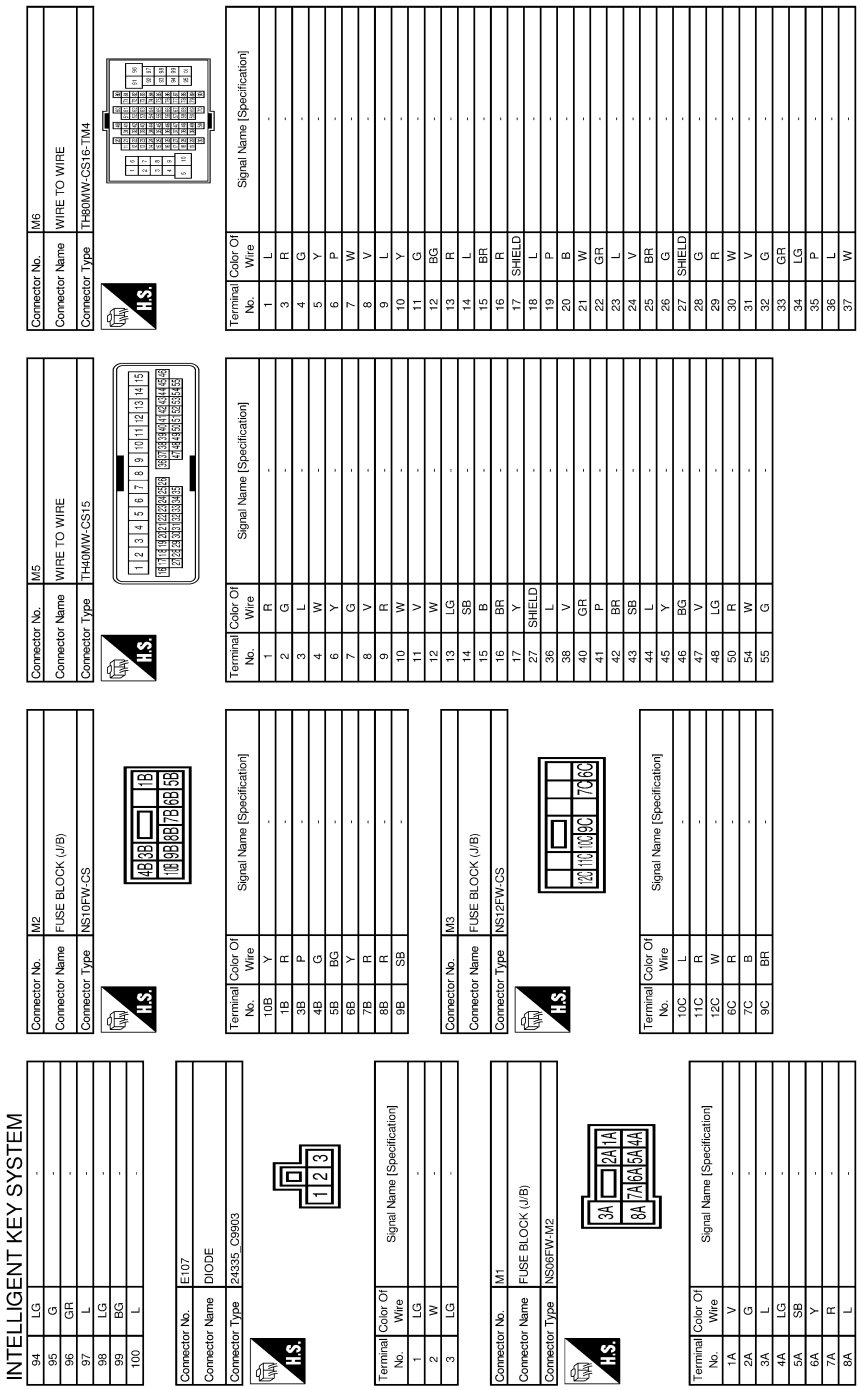


JRKWE4463GB

INTELLIGENT KEY SYSTEM		
38	Y	-
39	GR	-
40	BG	-
41	W	-
42	R	-
43	Y	-
44	BR	-
45	G	-
46	LG	-
48	W	-
49	L	-
50	R	-
51	SHIELD	-
60	SB	-
61	V	-
71	W	-
72	LG	-
74	R	-
75	BR	-
76	LG	-
77	R	-
78	BR	-
79	W	-
80	Y	-
81	BG	-
82	SB	-
84	Y	-
85	P	-
86	GR	-
87	R	-
88	L	-
89	G	-
90	P	-
91	W	-
92	R	-
93	LG	-
94	W	-
95	SB	-
96	L	-
97	L	-
98	Y	-
99	BG	-
100	L	-

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

Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
6	L	-
7	W	-
8	W	-
9	G	-
10	R	-
11	W	-
12	SB	-
13	G	-
14	W	-
15	BR	-
16	R	-
17	BG	-
18	SB	-
20	GR	-
21	L	-
22	R	-
23	G	-
24	BR	-
25	L	-
26	LG	-
27	W	-
28	R	-
31	GR	-
32	L	-
33	V	-
34	BG	-
39	W	-
40	BG	-
41	R	-
42	V	-
43	W	-
47	G	-
48	R	-
49	W	-
50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	Y	-
62	SHIELD	-
63	GR	-
64	R	-
65	G	-
66	BR	-
67	BG	-
69	P	-
70	L	-
71	SHIELD	- [Without active noise control unit]
72	SHIELD	- [With active noise control unit]
73	V	-
76	LG	-
77	R	-
78	SB	-
79	G	-
80	Y	-
81	R	-
82	G	-
83	BR	-
84	R	-
85	SHIELD	-
86	V	- [Without active noise control unit]
87	LG	- [With active noise control unit]
88	W	-
89	L	-
90	P	-
91	SHIELD	-
92	V	-
93	LG	-
94	Y	-
95	G	-
96	R	-
97	Y	-
98	R	-
99	G	-
100	L	-
100	W	-

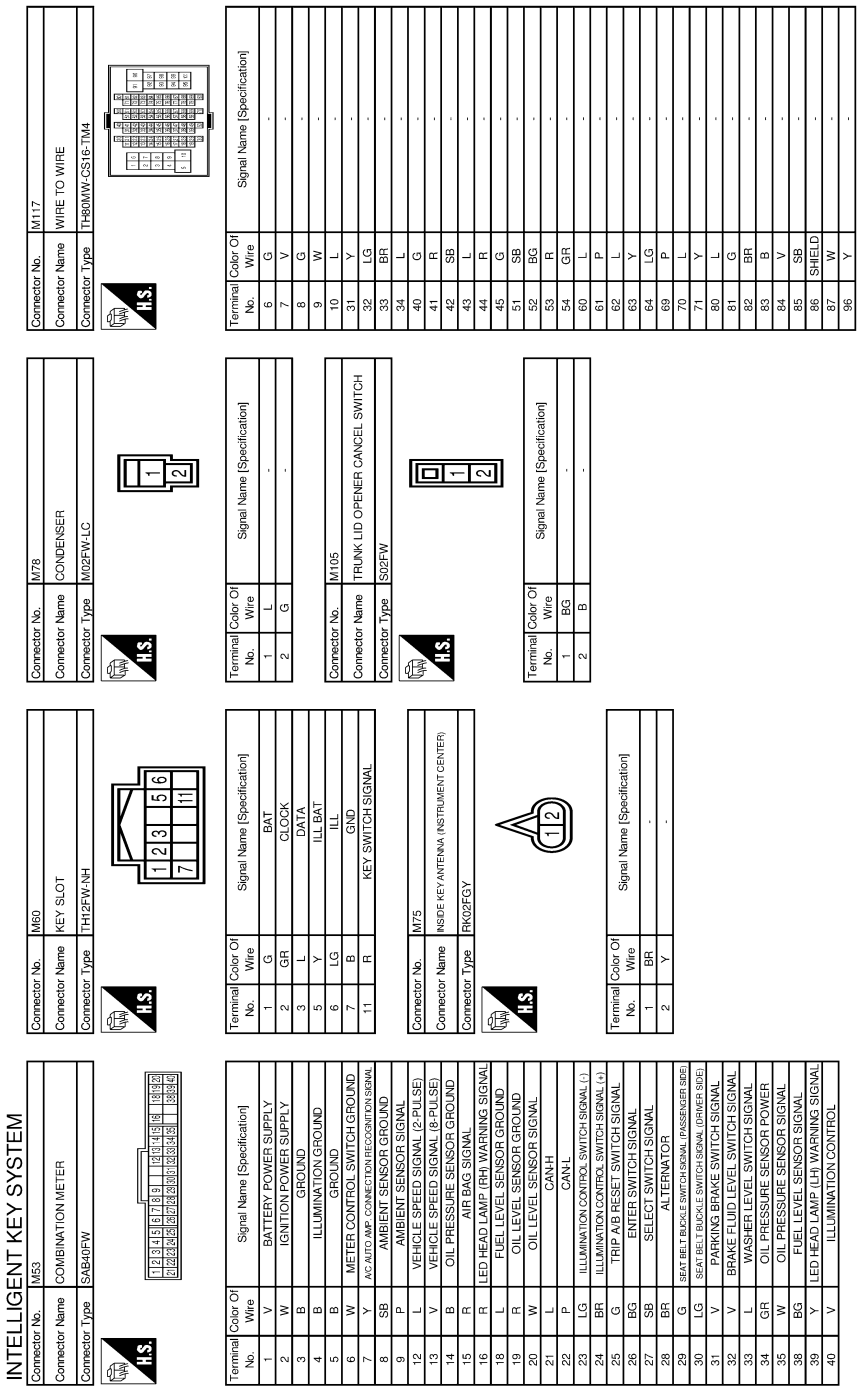
Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
4	B	-
5	B	-
6	L	-
7	V	-
8	G	-
11	G	-
14	P	-
16	Y	-

Connector No.	M36
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V

Terminal No.	Color Of Wire	Signal Name [Specification]
24	V	-
25	G	-
26	Y	-
31	SB	-
32	R	-
33	GR	-
34	W	-

JRKWE4464GB



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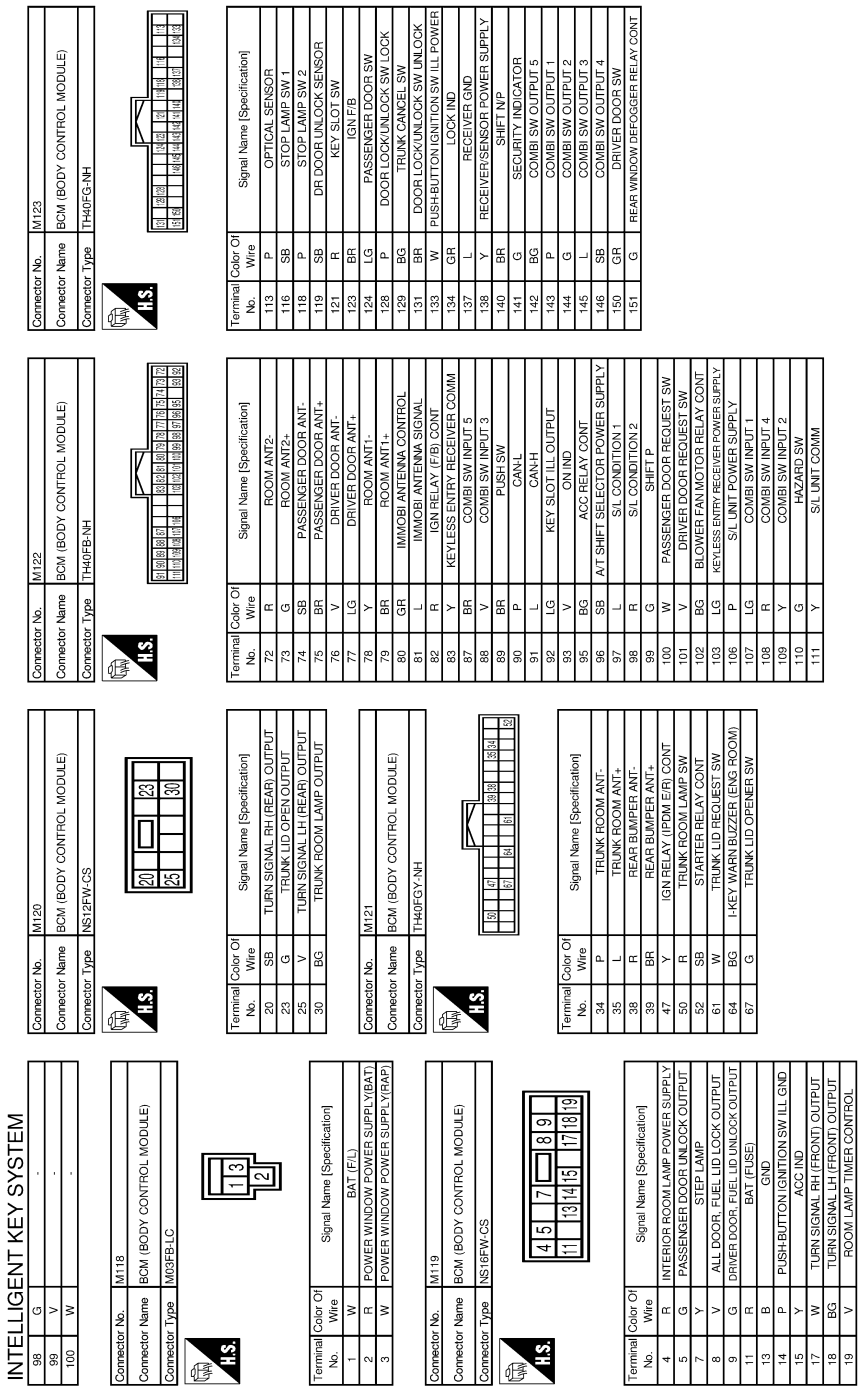

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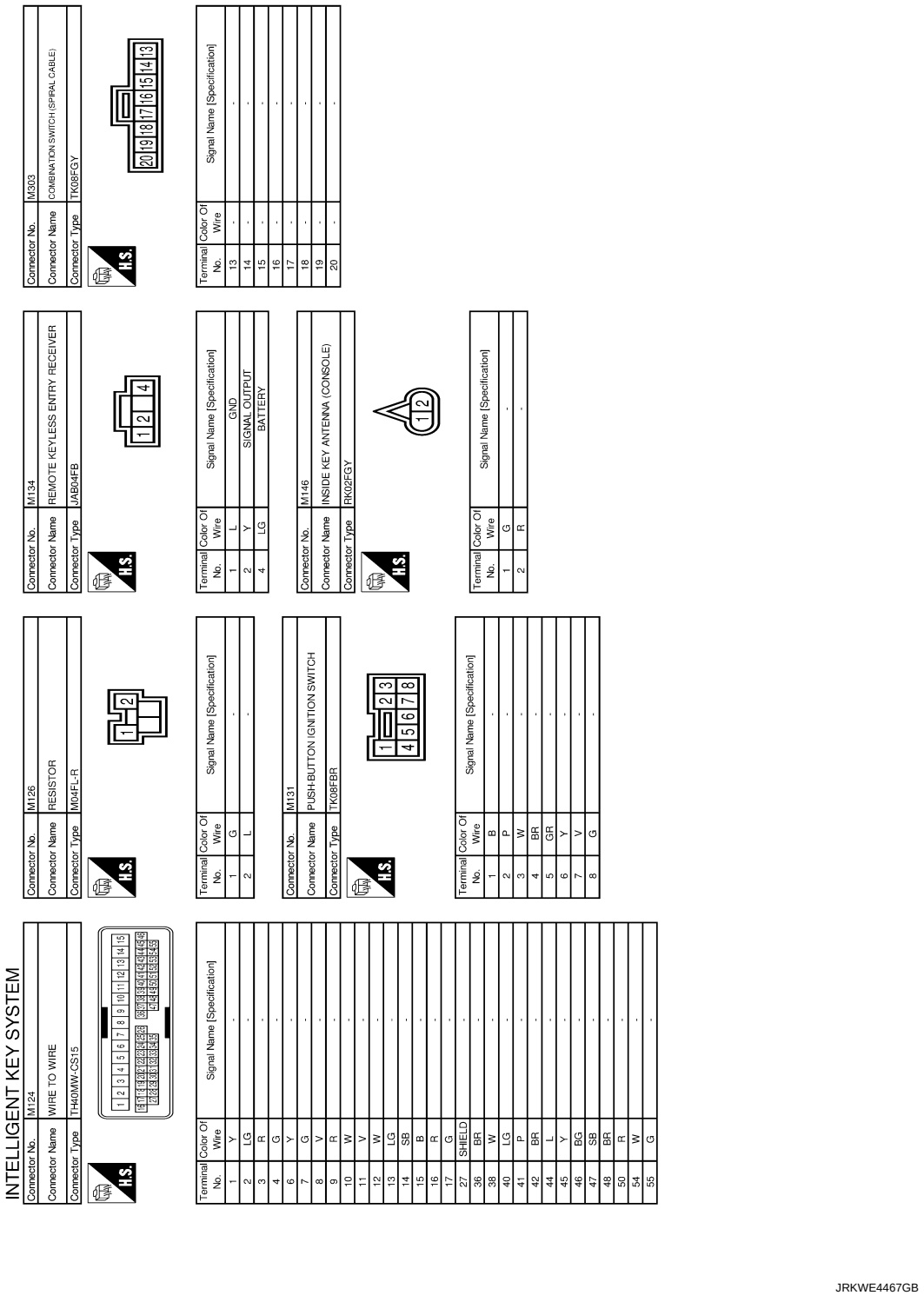
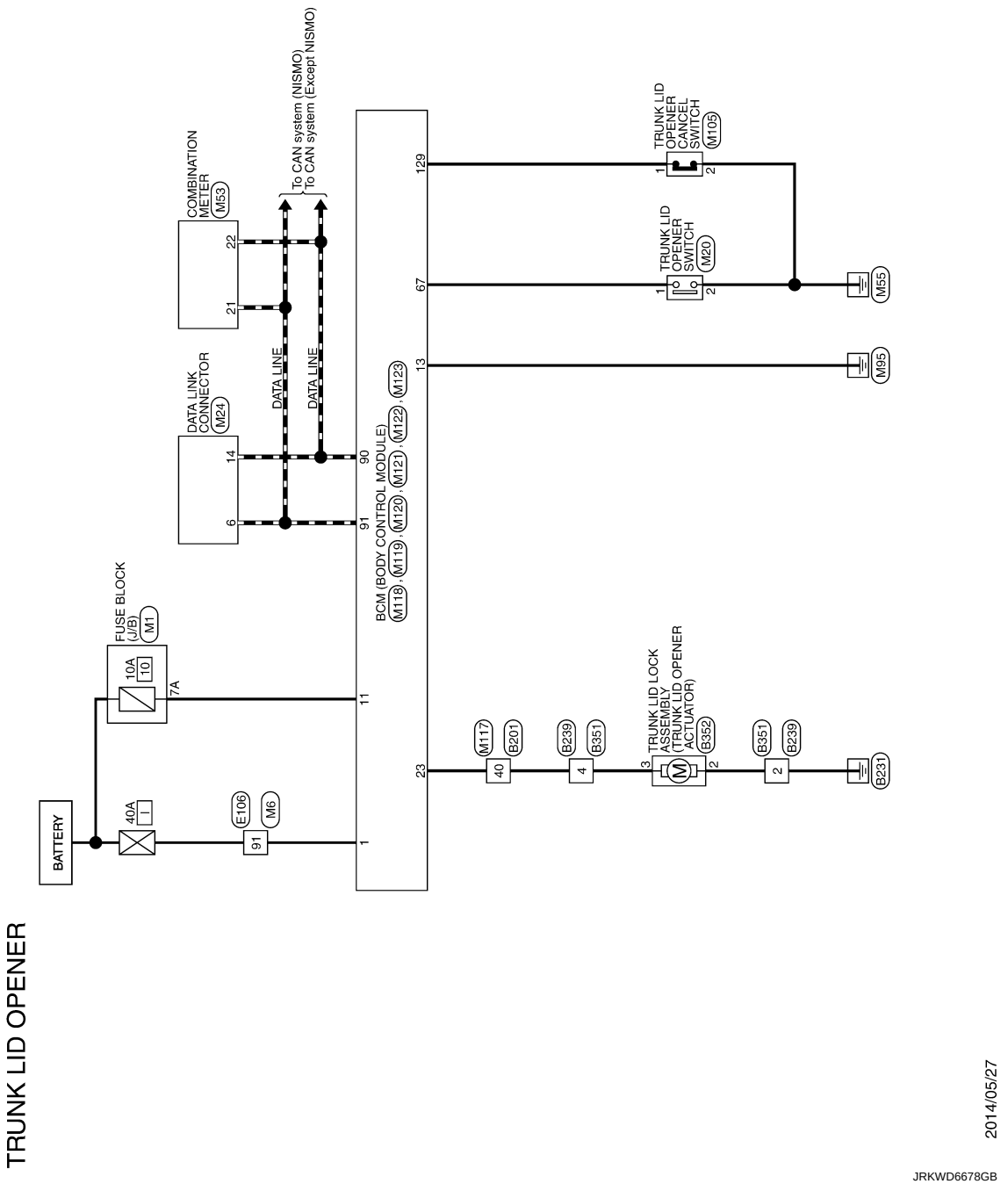


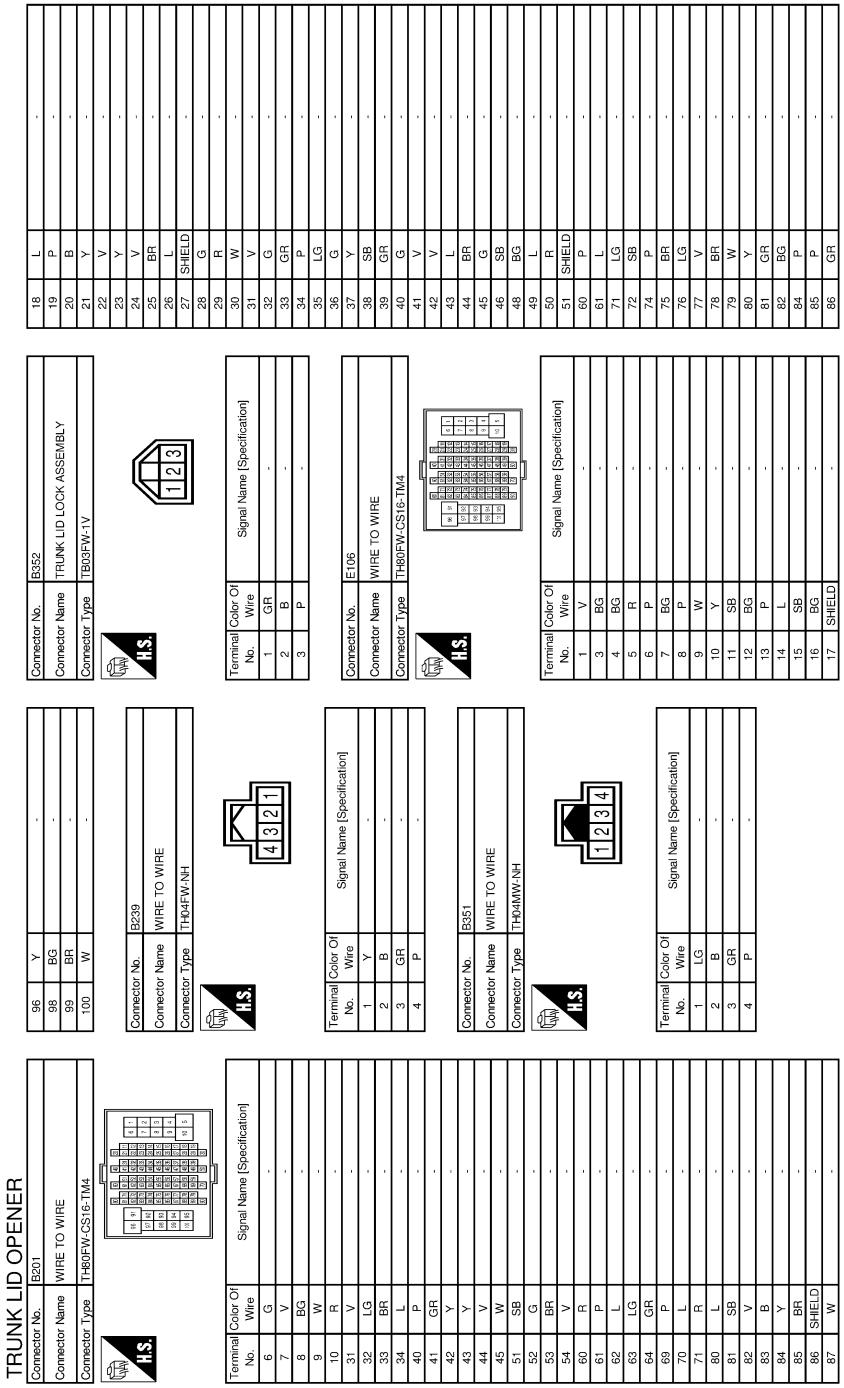
JRKWE4467GB

TRUNK LID OPENER

Wiring Diagram - TRUNK LID OPENER -

INFOID:0000000011487027





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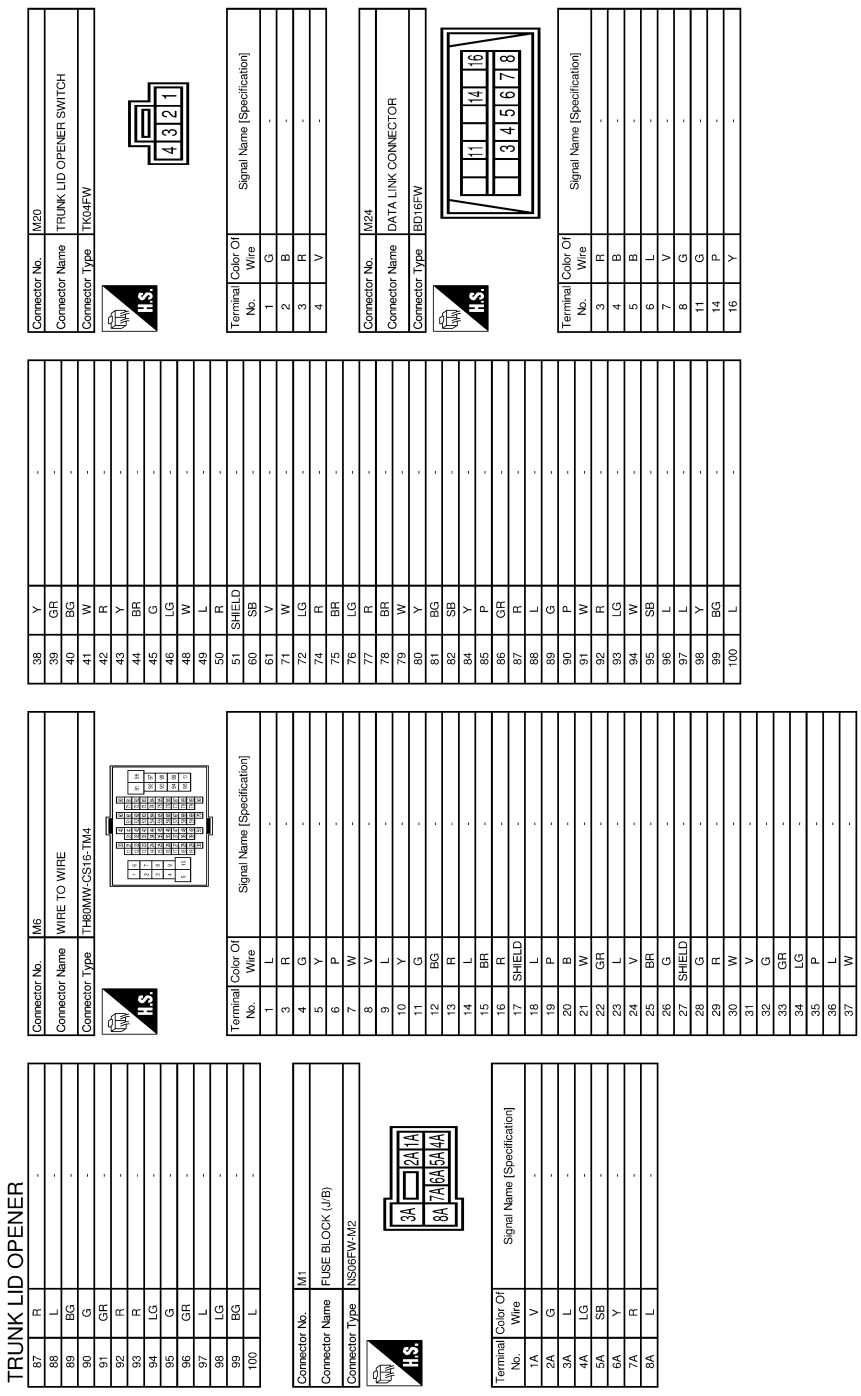

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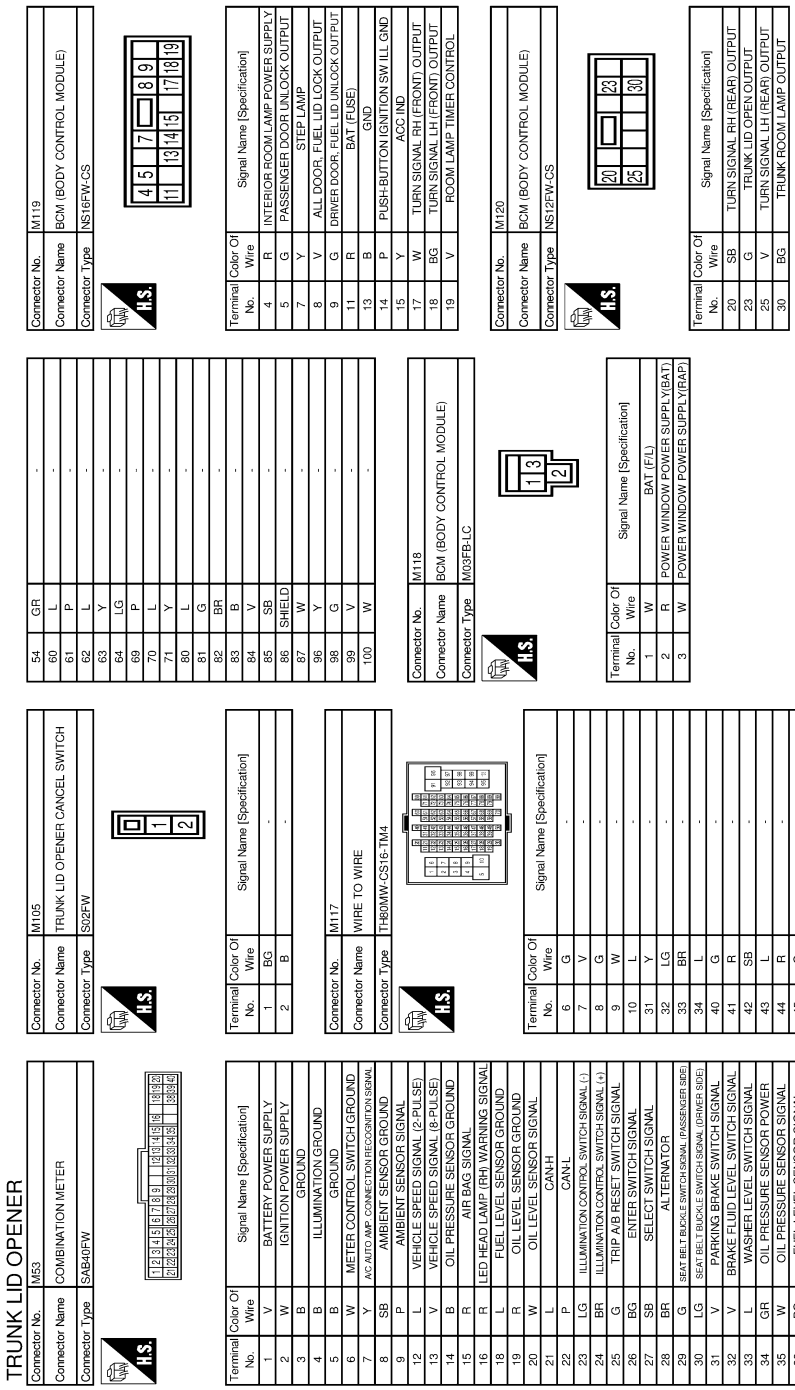

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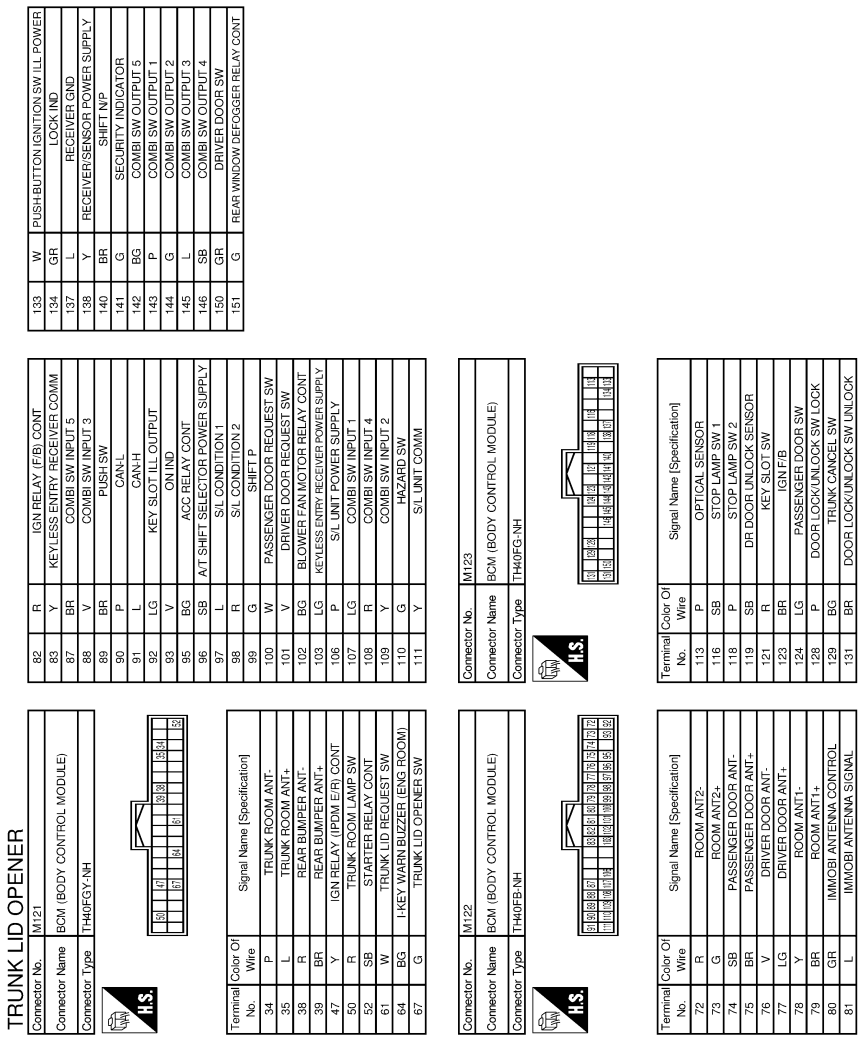


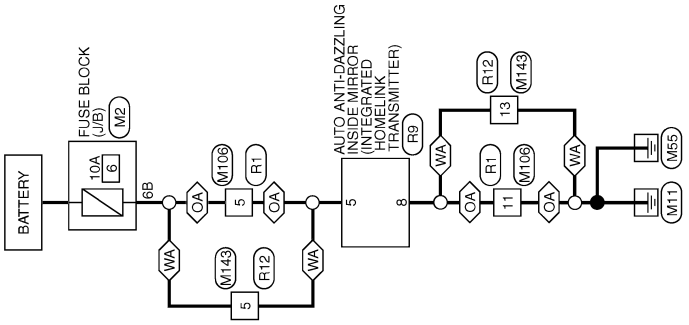
JRKWE4471GB

INTEGRATED HOMELINK TRANSMITTER SYSTEM

Wiring Diagram - INTEGRATED HOMELINK TRANSMITTER SYSTEM -

INFOID:0000000011487028

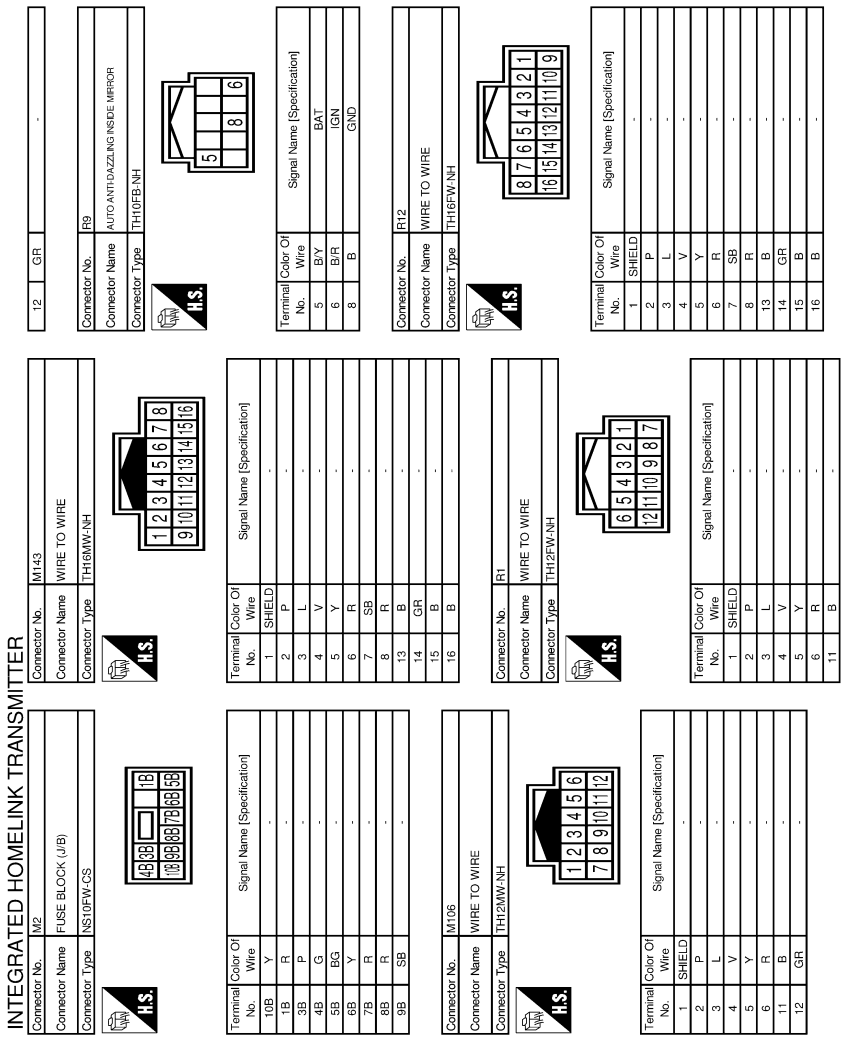
OA : Without active noise control
WA : With active noise control



INTEGRATED HOMELINK TRANSMITTER

2013/11/28

JRKWD1324GB



JRKWE4472GB

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000011797626

VALUES ON THE DIAGNOSIS TOOL

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

CONSULT 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
RR FOG SW	**NOTE:** The item is indicated, but not monitored.	Off
DOOR SW-DR	Driver door closed	Off
	Driver door opened	On
DOOR SW-AS	Passenger door closed	Off
	Passenger door opened	On
DOOR SW-RR	**NOTE:** The item is indicated, but not monitored.	Off

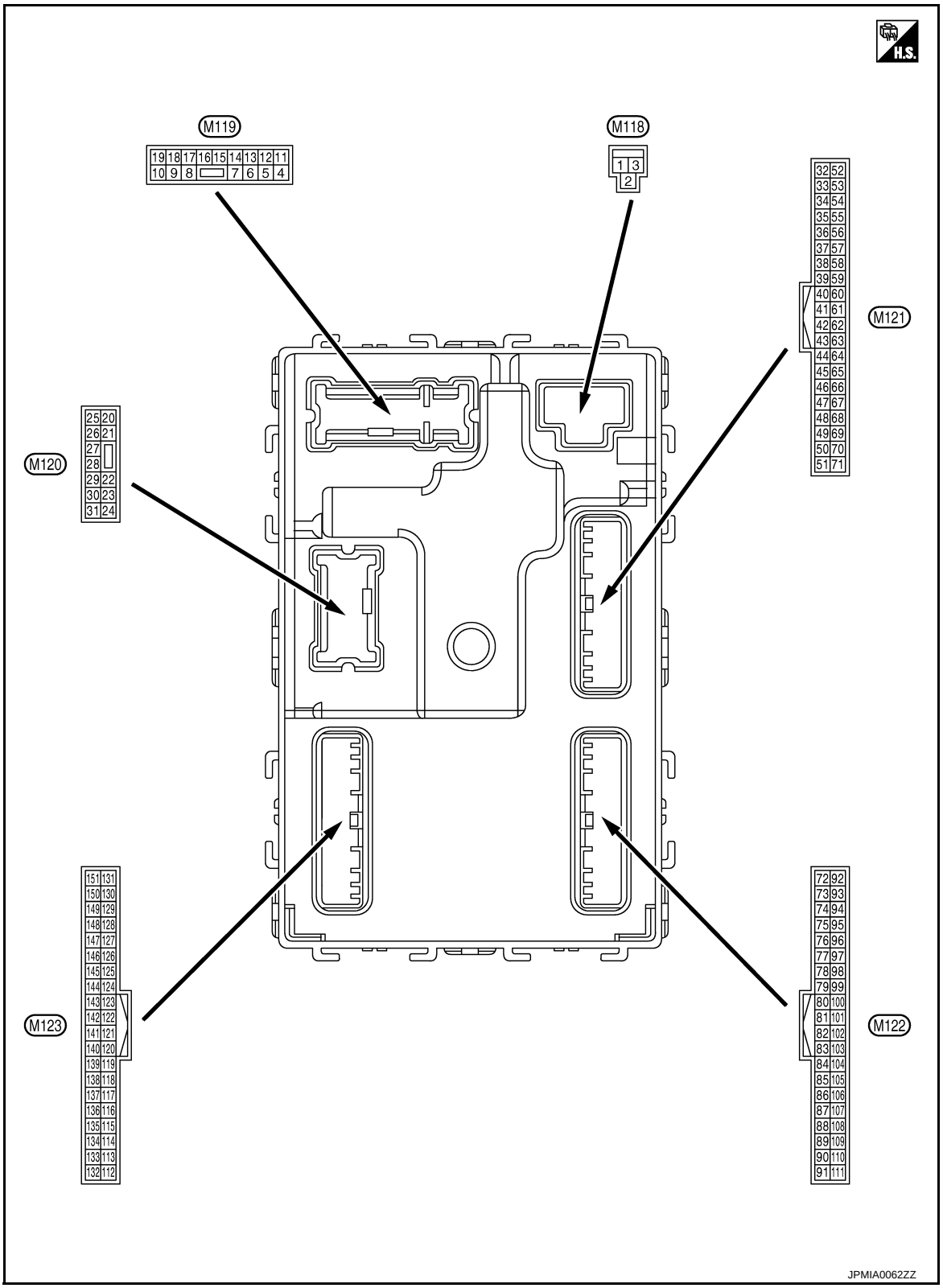
Monitor Item	Condition	Value/Status
DOOR SW-RL	**NOTE:** The item is indicated, but not monitored.	Off
DOOR SW-BK	**NOTE:** The item is indicated, but not monitored.	Off
CDL LOCK SW	Other than power door lock switch LOCK	Off
	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch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

Monitor Item	Condition	Value/Status
REQ SW-RL	**NOTE:** The item is indicated, but not monitored.	Off
REQ SW-RR	**NOTE:** The item is indicated, but not monitored.	Off
REQ SW-BD/TR	Trunk lid opener request switch is not pressed	Off
	Trunk lid opener 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	**NOTE:** The item is indicated, but not monitored.	Off
ACC RLY -F/B	**NOTE:** The item is indicated, but not monitored.	Off
CLUCH SW	**NOTE:** The item is indicated, but not monitored.	Off
BRAKE SW 1	The brake pedal is depressed when No. 7 fuse is blown	Off
	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On
BRAKE SW 2	The brake pedal is not depressed	Off
	The brake pedal is depressed	On
DETE/CANCL SW	Shift lever in P position	Off
	Shift lever in any position other than P	On
SFT PN/N SW	Shift lever in any position other than P and N	Off
	Shift lever in P or N position	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	Shift lever in any position other than P	Off
	Shift lever in P position	On
SFT PN -IPDM	Shift lever in any position other than P and N	Off
	Shift lever in P or N position	On
SFT P -MET	Shift lever in any position other than P	Off
	Shift lever in P position	On
SFT N -MET	Shift lever in any position other than N	Off
	Shift lever in N position	On

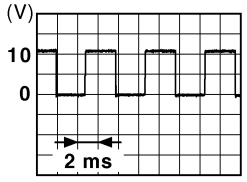
Monitor Item	Condition	Value/Status
ENGINE STATE	Engine stopped	Stop
	While the engine stalls	Stall
	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
	Steering is unlocked	On
S/L RELAY-REQ	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
	Steering lock system is the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speed-ometer reading
VEH SPEED 2	While driving	Equivalent to speed-ometer reading
DOOR STAT-DR	Driver door is locked	LOCK
	Wait with selective UNLOCK operation (5 seconds)	READY
	Driver door is unlocked	UNLOCK
DOOR STAT-AS	Passenger door is locked	LOCK
	Wait with selective UNLOCK operation (5 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	Intelligent Key is not inserted into key slot	Off
	Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key
RKE OPE COUN2	**NOTE:** The item is indicated, but not monitored.	—
CONFRM ID ALL	The key ID that the key slot receives 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
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

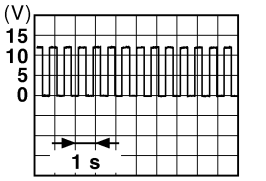
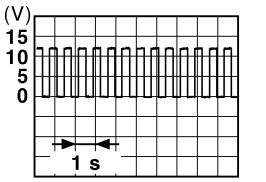
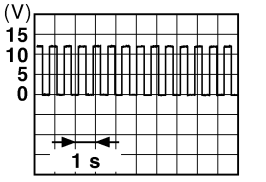
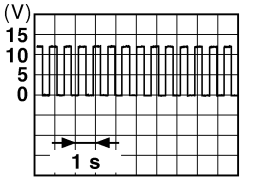
Monitor Item	Condition	Value/Status
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not 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

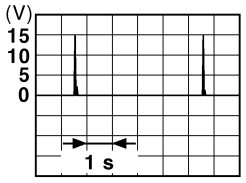
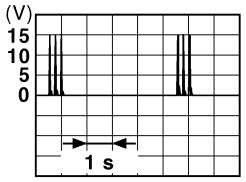
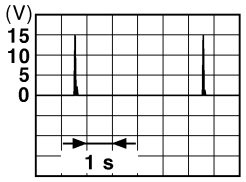
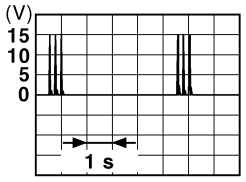
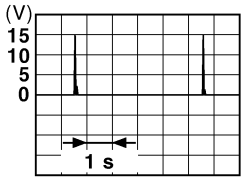
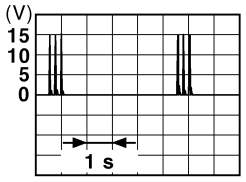
TERMINAL LAYOUT

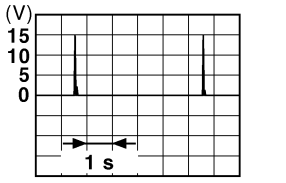
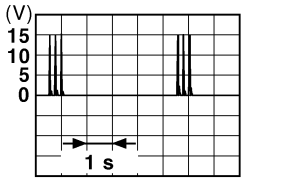
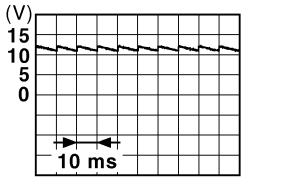
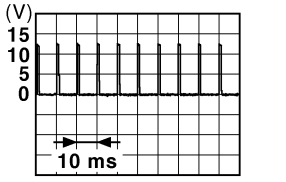


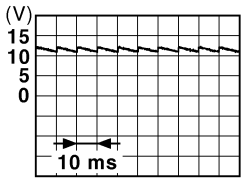
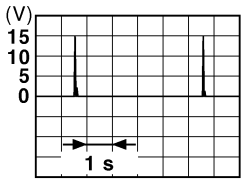
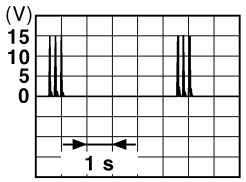
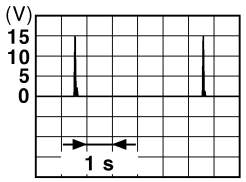
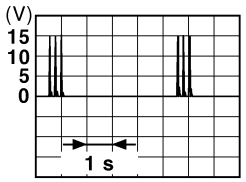
PHYSICAL VALUES

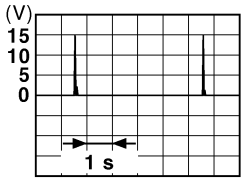
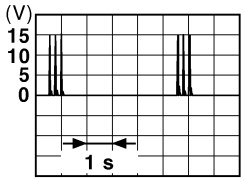
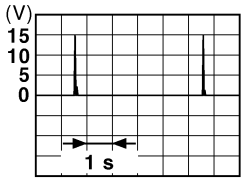
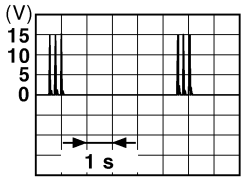
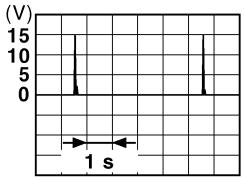
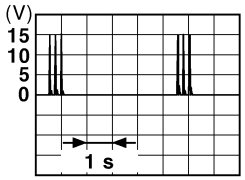
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
2 (R)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
3 (W)	Ground	P/W power supply (RAP)	Output	Ignition switch ON		Battery voltage
4 (R)	Ground	Interior room lamp power supply	Output	After passing the interior room lamp battery saver operation time		0 V
				Any other time after passing the interior room lamp battery saver operation time		Battery voltage
5 (G)	Ground	Passenger door UNLOCK	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
7 (Y)	Ground	Step lamp control signal	Output	Step lamp	ON	0 V
					OFF	Battery voltage
8 (V)	Ground	All doors, fuel lid LOCK	Output	All doors, fuel lid	LOCK (Actuator is activated)	Battery voltage
					Other than LOCK (Actuator is not activated)	0 V
9 (G)	Ground	Driver door, fuel lid UNLOCK	Output	Driver door, fuel lid	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
11 (R)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
14 (P)	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 or ON	0 V

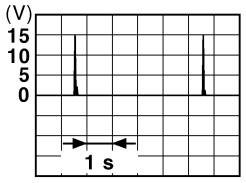
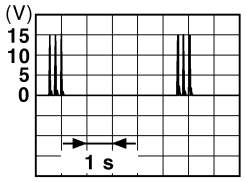
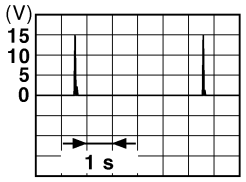
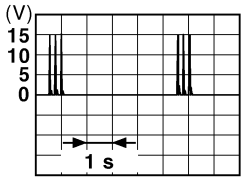
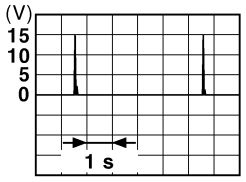
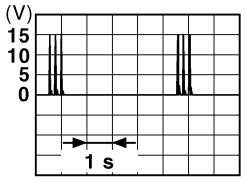
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF	0 V
					Turn signal switch RH	 PKID0926E 6.5 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn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

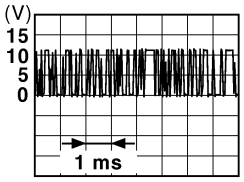
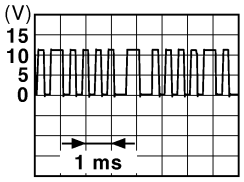
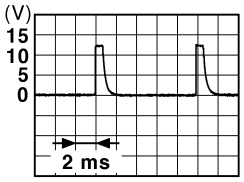
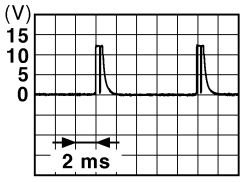
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
34 (P)	Ground	Trunk room antenna (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
35 (L)	Ground	Trunk 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 (R)	Ground	Rear bumper antenna (-)	Output	When the trunk lid opener 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

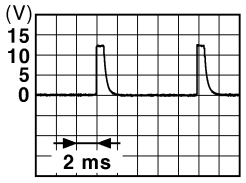
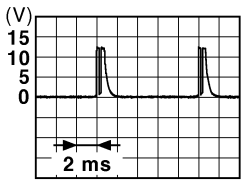
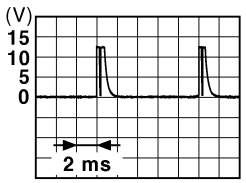
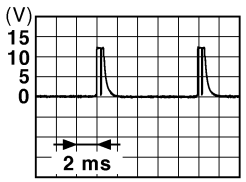
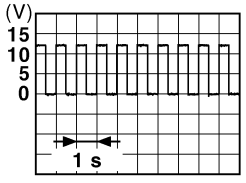
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
39 (BR)	Ground	Rear bumper antenna (+)	Output	When the trunk lid opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When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

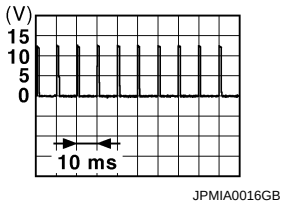
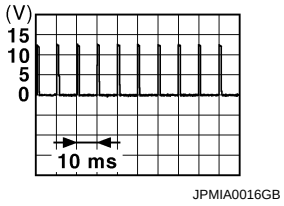
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
67 (G)	Ground	Trunk lid opener switch	Input	Trunk lid opener switch	Pressed	0 V
					Not pressed	 JPMIA0011GB 11.8 V
72 (R)	Ground	Room antenna 2 (-) (Center console)	Output	Ignition switch OFF	When Intelligent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

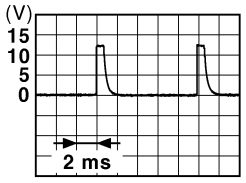
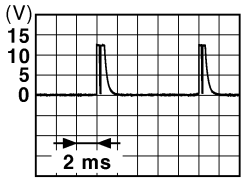
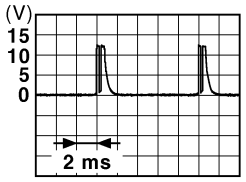
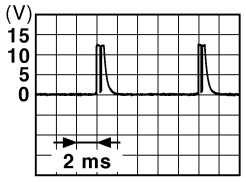
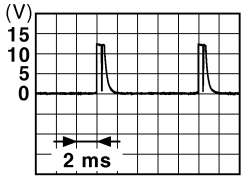
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
74 (SB)	Ground	Passenger door antenna (-)	Output	When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When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

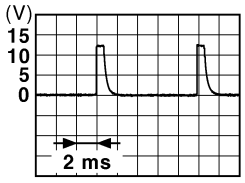
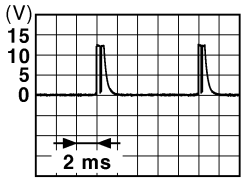
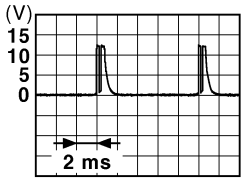
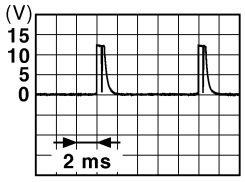
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
77 (LG)	Ground	Driver door antenna (+)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	 JMKIA0062GB
					When Intelligent Key is not in the antenna detection area	 JMKIA0063GB
78 (Y)	Ground	Room antenna 1 (-) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB
79 (BR)	Ground	Room antenna 1 (+) (Instrument panel)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment	 JMKIA0062GB
					When Intelligent Key is not in the passenger compartment	 JMKIA0063GB

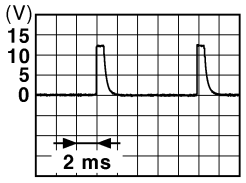
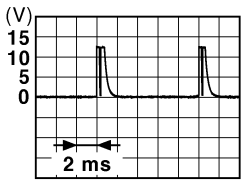
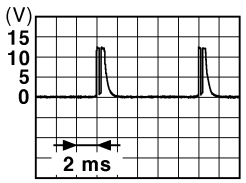
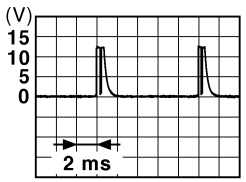
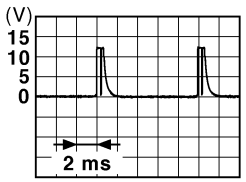
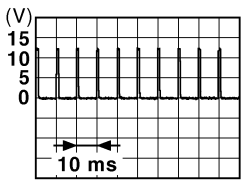
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (L)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (R)	Ground	Ignition relay [fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
83 (Y)	Ground	Remote keyless entry receiver communication	Input/ Output	During waiting		 JMKIA0064GB
				When operating either button on Intelligent Key		 JMKIA0065GB
87 (BR)	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 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

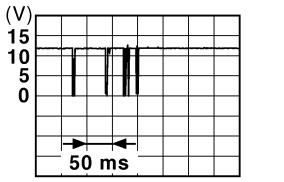
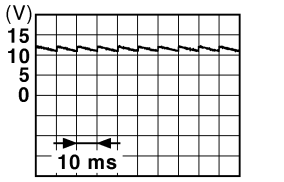
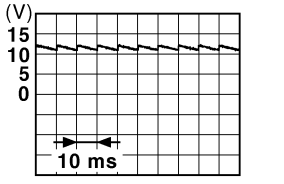
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
88 (V)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
					Lighting switch HI (Wiper intermittent dial 4)	 JPMIA0036GB 1.3 V
					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	Battery voltage
					Blinking	 JPMIA0015GB 6.5 V
					ON	0 V

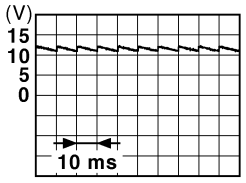
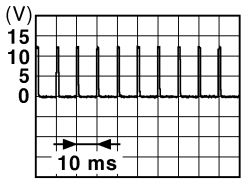
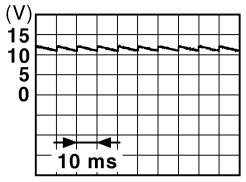
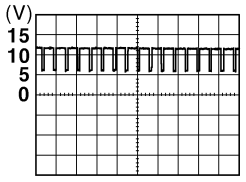
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
93 (V)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
					ON or ACC	0 V
95 (BG)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
					ACC or ON	Battery voltage
96 (SB)	Ground	A/T shift selector (detention switch) power supply	Output	—		Battery voltage
97 (L)	Ground	Steering lock condition No. 1	Input	Steering lock	LOCK status	0 V
					UNLOCK status	Battery voltage
98 (R)	Ground	Steering lock condition No. 2	Input	Steering lock	LOCK status	Battery voltage
					UNLOCK status	0 V
99 (G)	Ground	Shift lever P position switch	Input	Shift lever	P position	0 V
					Any position other than P	Battery voltage
100 (W)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
101 (V)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V
					OFF (Not pressed)	 JPMIA0016GB 1.0 V
102 (BG)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
103 (LG)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF		Battery voltage
106 (P)	Ground	Steering lock unit power supply	Output	Ignition switch	OFF or ACC	Battery voltage
					ON	0 V

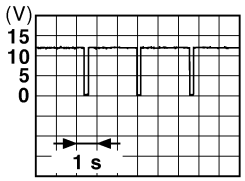
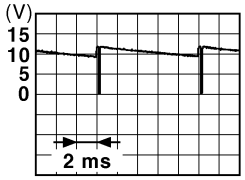
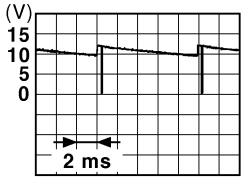
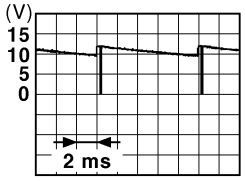
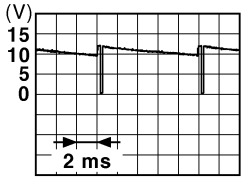
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper intermittent dial 4)	All switches OFF	 JPMIA0041GB 1.4 V
					Turn signal switch LH	 JPMIA0037GB 1.3 V
					Turn signal switch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

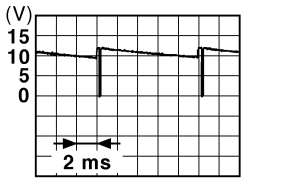
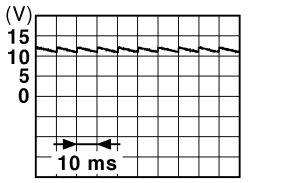
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
108 (R)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 JPMIA0041GB 1.4 V
					Lighting switch AUTO (Wiper intermittent dial 4)	 JPMIA0038GB 1.3 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 (G)	Ground	Hazard switch	Input	Hazard switch	Pressed	0 V
					Not pressed	 JPMIA0012GB 1.1 V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
111 (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK status	Battery voltage
					LOCK or UNLOCK	 JMKIA0066GB
					For 15 seconds after UNLOCK	Battery voltage
					15 seconds or later after UNLOCK	0 V
113 (P)	Ground	Optical sensor	Input	Ignition switch ON	When bright outside of the vehicle	Close to 5 V
					When dark outside of the vehicle	Close to 0 V
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 actuator (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	 JPMIA0011GB 11.8 V
					UNLOCK status (Unlock sensor switch ON)	0 V
121 (R)	Ground	Key slot switch	Input	When Intelligent Key is inserted into key slot		Battery voltage
				When Intelligent Key is not inserted into key slot		0 V
123 (BR)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
					ON	Battery voltage
124 (LG)	Ground	Passenger door switch	Input	Passenger door switch	OFF (When passenger door closes)	 JPMIA0011GB 11.8 V
					ON (When passenger door opens)	0 V

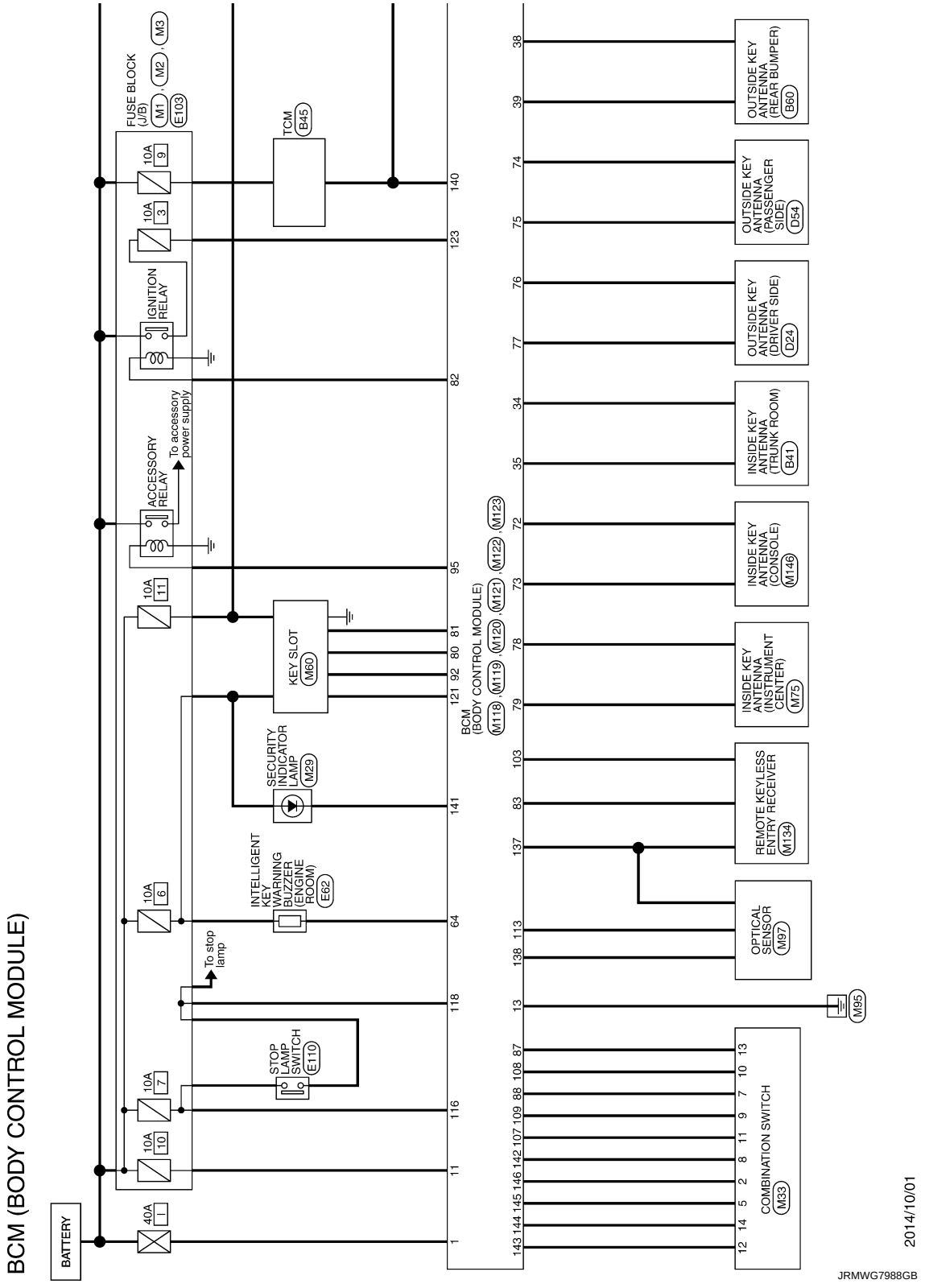
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
128 (P)	Ground	Door lock and unlock switch LOCK	Input	Door lock and unlock switch (power window main switch or power window sub-switch)	NEUTRAL position	 JPMIA0011GB 11.8 V
					LOCK position	0 V
129 (BG)	Ground	Trunk lid opener cancel switch	Input	Trunk lid opener cancel switch	CANCEL	 JPMIA0012GB 1.1 V
					ON	0 V
131 (BR)	Ground	Door lock and unlock switch UNLOCK	Input	Door lock and unlock switch (power window main switch or power window sub-switch)	NEUTRAL position	 JPMIA0011GB 11.8 V
					LOCK position	0 V
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (When tail lamps OFF)	5.5 V
					ON (When tail lamps ON)	**NOTE:** The pulse width of this wave is varied by the illumination brightening/dimming level.  JPMIA0159GB
					OFF	0 V
134 (GR)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON	0 V
					OFF	Battery voltage
137 (L)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138 (Y)	Ground	Sensor power supply	Output	Ignition switch	OFF	0 V
					ACC or ON	5.0 V
140 (BR)	Ground	Shift lever P/N position	Input	Shift lever	P or N position	12 V
					Except P and N positions	0 V

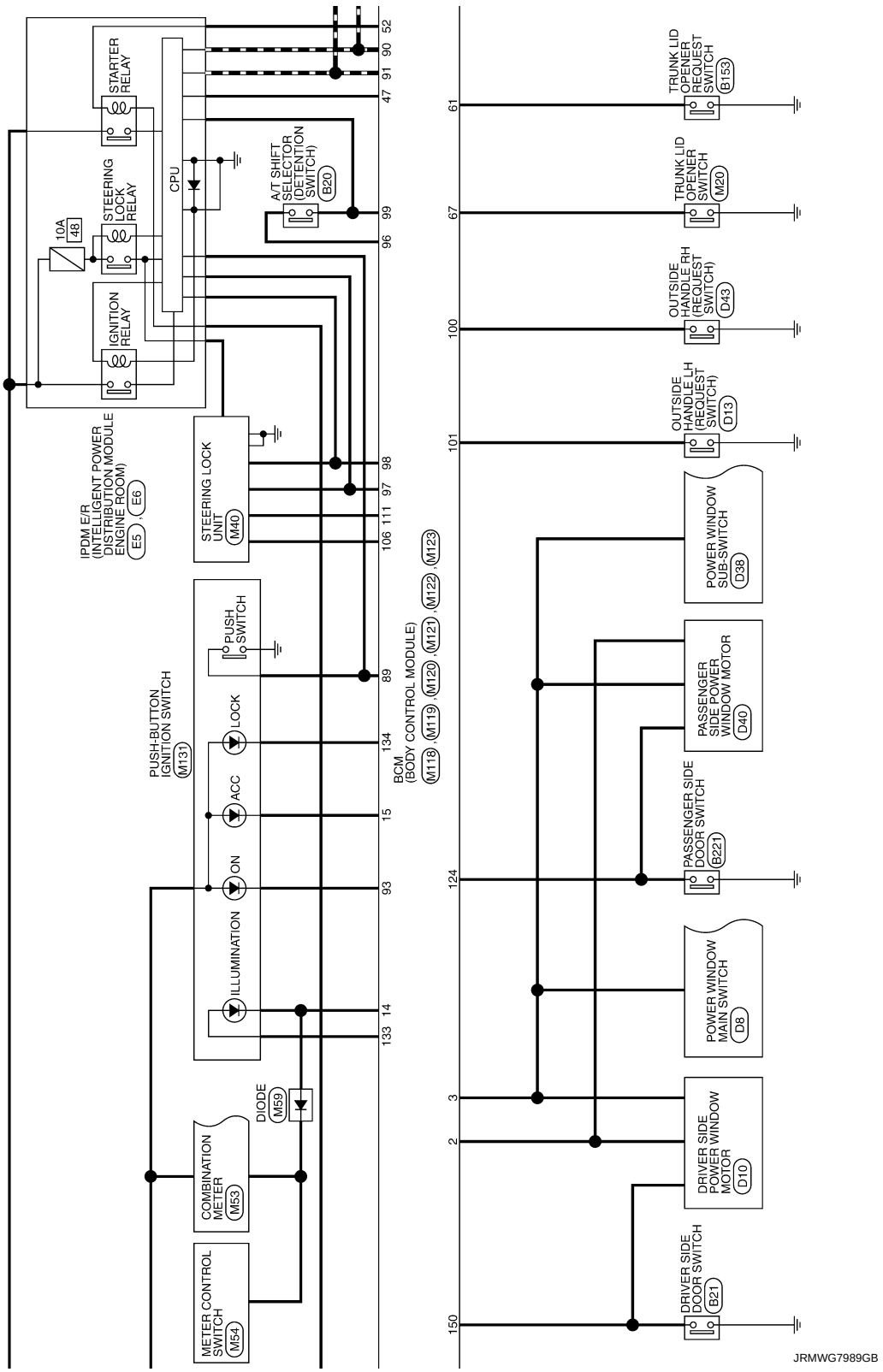
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
141 (G)	Ground	Security indicator	Output	Security indicator	ON	0 V
					Blinking	 JPMIA0014GB 11.3 V
					OFF	Battery voltage
142 (BG)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermit-tent 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	
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 intermit-tent dial 4)	All switches OFF	0 V
					Front wiper switch INT	 JPMIA0034GB 10.7 V
					Front wiper switch LO	
					Lighting switch AUTO	

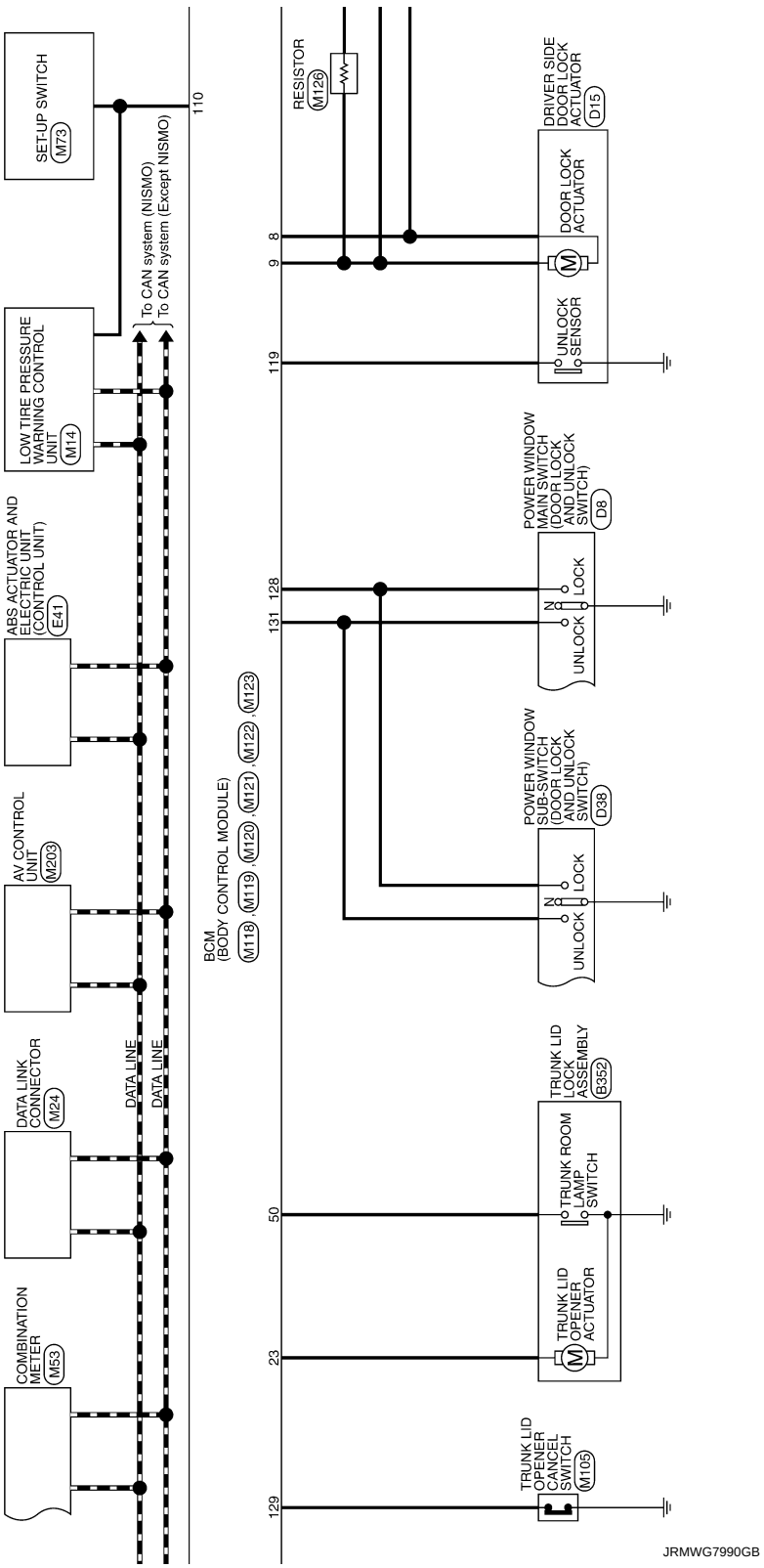
Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	–	Signal name	Input/ Output			
146 (SB)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF	0 V
					Lighting switch 2ND	 JPMIA0035GB 10.7 V
					Lighting switch PASS	
					Turn signal switch LH	
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closes)	 JPMIA0011GB 11.8 V
					ON (When driver door opens)	0 V
151 (G)	Ground	Rear window defogger relay control	Output	Rear window defogger	Active	0 V
					Not activated	Battery voltage

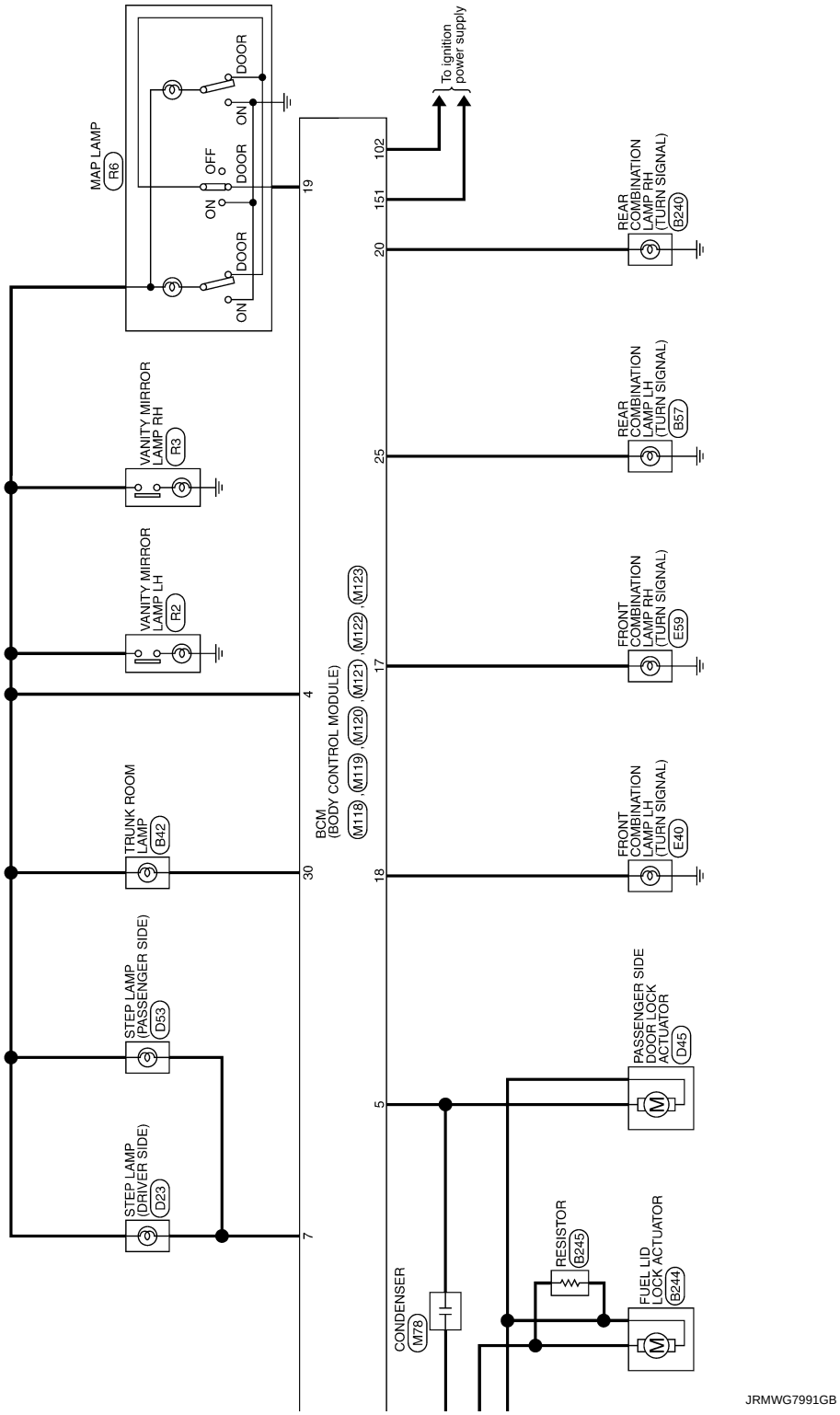
Wiring Diagram - BCM -

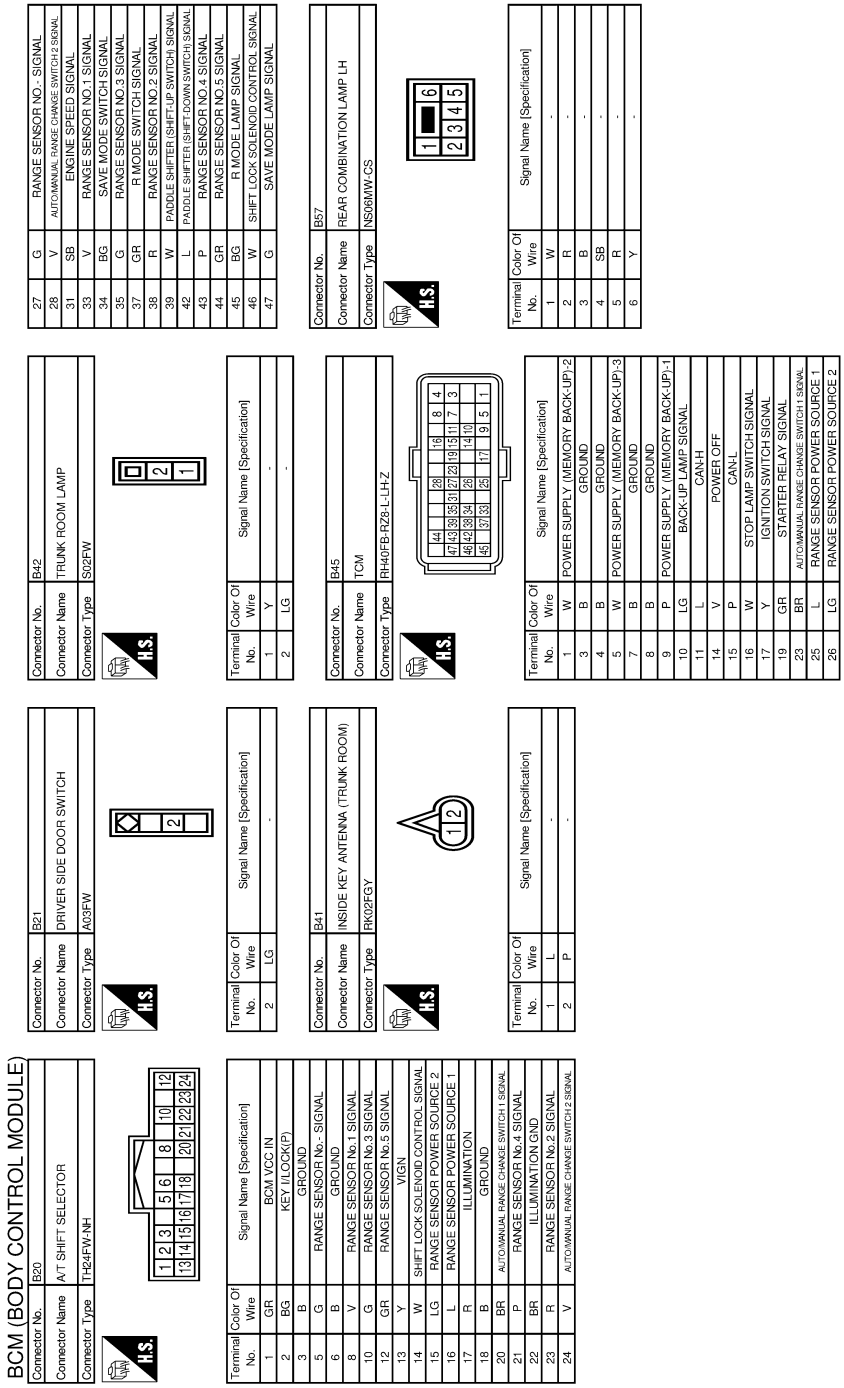
INFOID:0000000011797627




STARTER RELAY
CPU
STEERING LOCK RELAY
IGNITION RELAY
10A 48
A/T SHIFT SELECTOR (DETENTION SWITCH) B20
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) E5, E6
STEERING LOCK UNIT M40
PUSH-BUTTON IGNITION SWITCH M131
PUSH SWITCH
LOCK
ACC
ON
ILLUMINATION
DIODE M59
COMBINATION METER M53
METER CONTROL SWITCH M54
BCM (BODY CONTROL MODULE) M118, M119, M120, M121, M122, M123
TRUNK LID OPENER REQUEST SWITCH B153
TRUNK LID OPENER SWITCH M20
OUTSIDE HANDLE RH (REQUEST SWITCH) D43
OUTSIDE HANDLE LH (REQUEST SWITCH) D13
POWER WINDOW SUB SWITCH D38
PASSENGER SIDE POWER WINDOW MOTOR D40
PASSENGER SIDE DOOR SWITCH B221
POWER WINDOW MAIN SWITCH D8
DRIVER SIDE POWER WINDOW MOTOR D10
DRIVER SIDE DOOR SWITCH B21
JRMWG7989GB


SET-UP SWITCH M73
LOW TIRE PRESSURE WARNING CONTROL UNIT M14
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) E41
AV CONTROL UNIT M203
DATA LINK CONNECTOR M24
COMBINATION METER M53
110
To CAN system (NISMO)
To CAN system (Except NISMO)
DATA LINE
DATA LINE
BCM (BODY CONTROL MODULE)
M118 M119 M120 M121 M122 M123
RESISTOR M126
DRIVER SIDE DOOR LOCK ACTUATOR D15
DOOR LOCK ACTUATOR
UNLOCK SENSOR
8
9
119
POWER WINDOW MAIN SWITCH (DOOR LOCK AND UNLOCK SWITCH) D8
UNLOCK
LOCK
128
131
POWER WINDOW SUB-SWITCH (DOOR LOCK AND UNLOCK SWITCH) D38
UNLOCK
LOCK
TRUNK LID LOCK ASSEMBLY B352
TRUNK ROOM LAMP SWITCH
TRUNK LID OPENER ACTUATOR
50
23
TRUNK LID OPENER CANCEL SWITCH M105
129
JRMWG7990GB


MAP LAMP
R6
DOOR
ON
OFF
DOOR
ON
DOOR
ON
To ignition power supply
102
151
19
20
REAR COMBINATION LAMP RH (TURN SIGNAL)
B240
VANITY MIRROR LAMP RH
R3
25
REAR COMBINATION LAMP LH (TURN SIGNAL)
B57
VANITY MIRROR LAMP LH
R2
FRONT COMBINATION LAMP RH (TURN SIGNAL)
E59
4
17
BCM (BODY CONTROL MODULE)
M118, M119, M120, M121, M122, M123
TRUNK ROOM LAMP
B42
30
18
FRONT COMBINATION LAMP LH (TURN SIGNAL)
E40
STEP LAMP (PASSENGER SIDE)
D53
PASSENGER SIDE DOOR LOCK ACTUATOR
D45
5
STEP LAMP (DRIVER SIDE)
D23
7
RESISTOR
B245
FUEL LID LOCK ACTUATOR
B244
CONDENSER
M78
JRMWG7991GB



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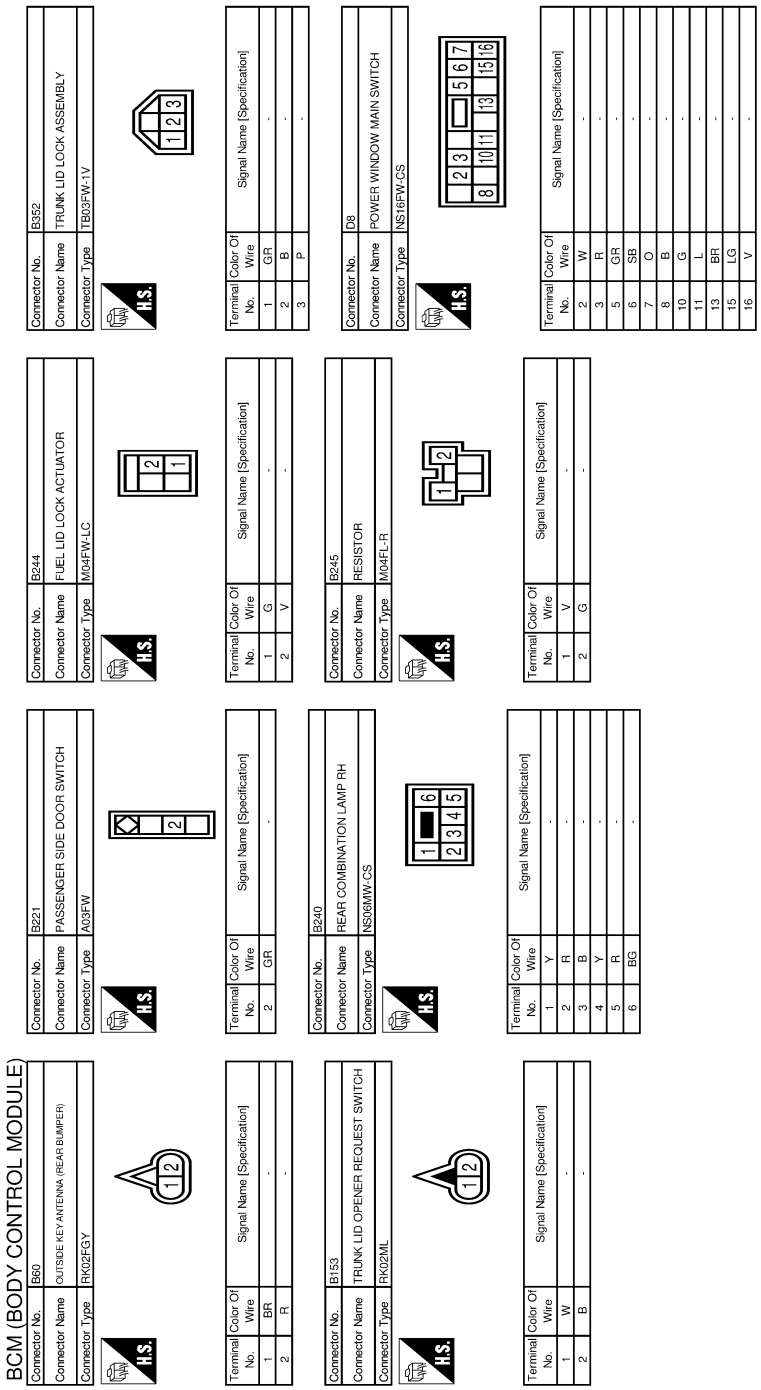
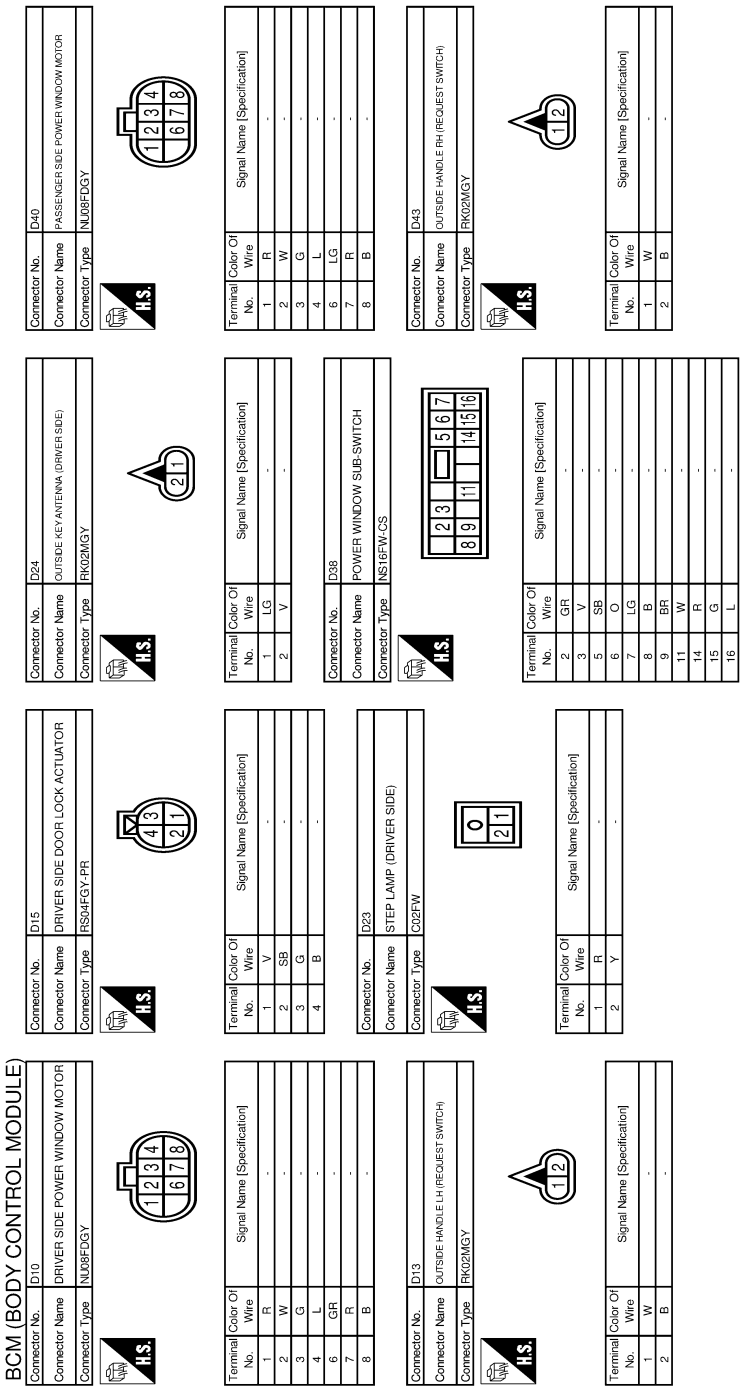


JRMWG7993GB



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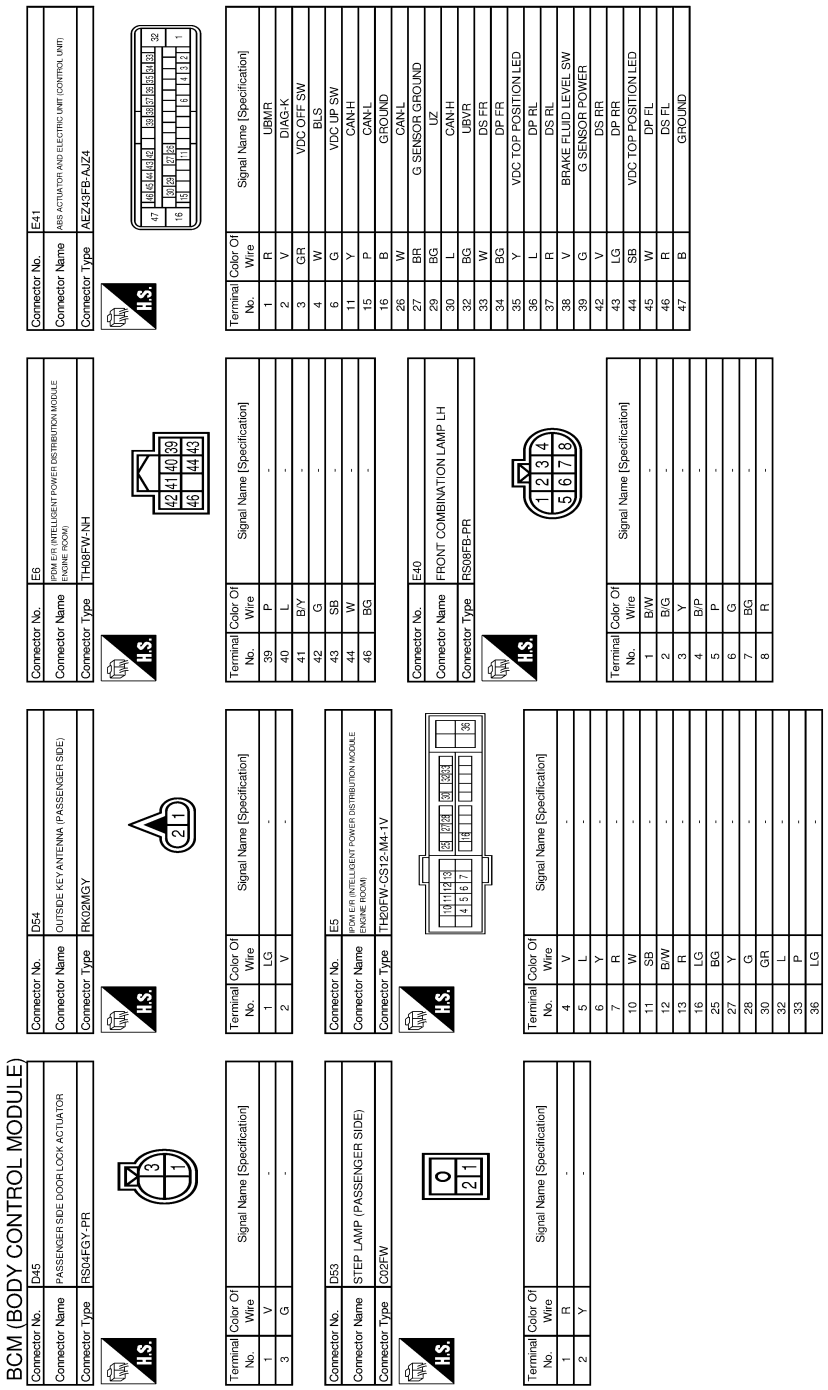

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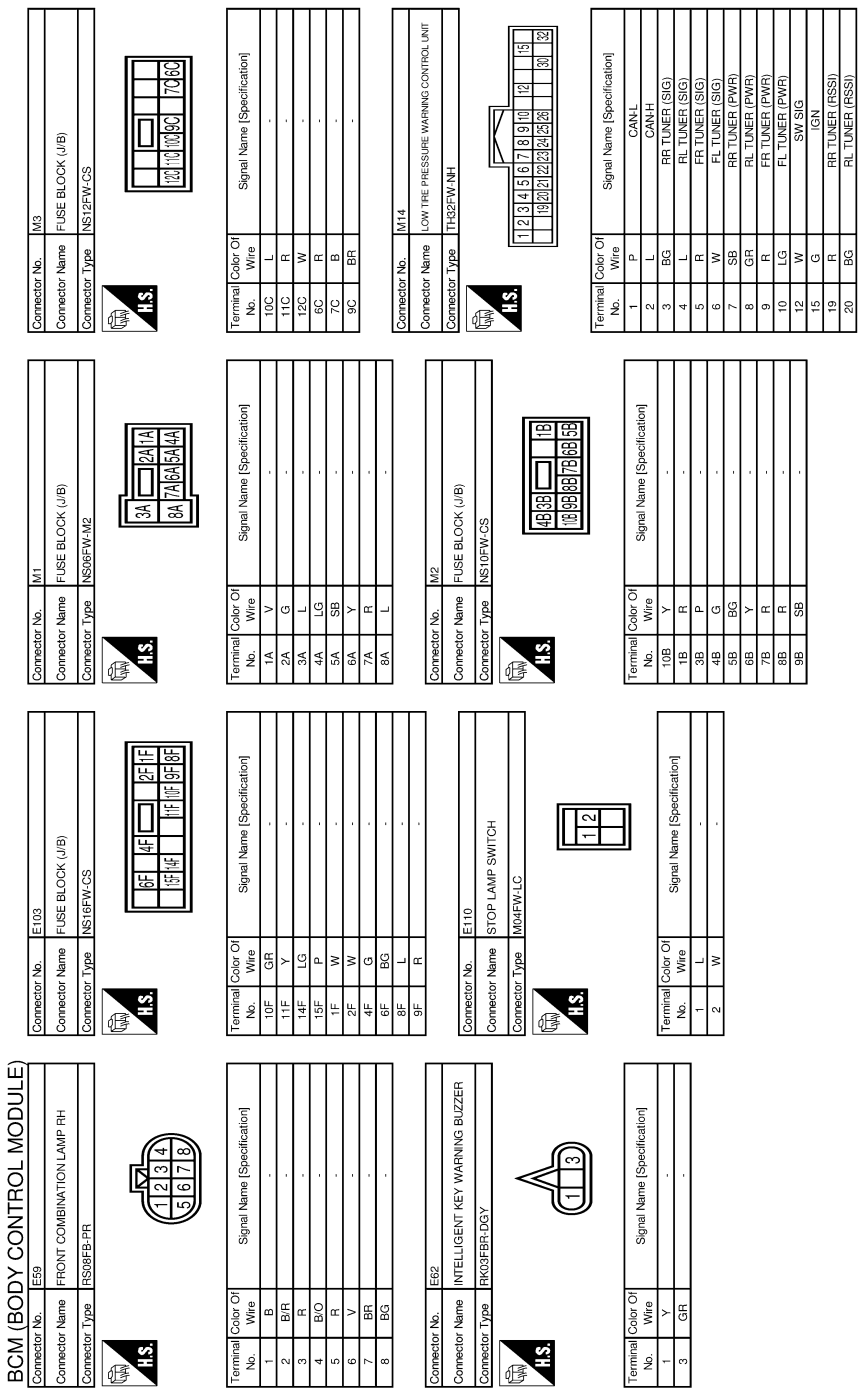

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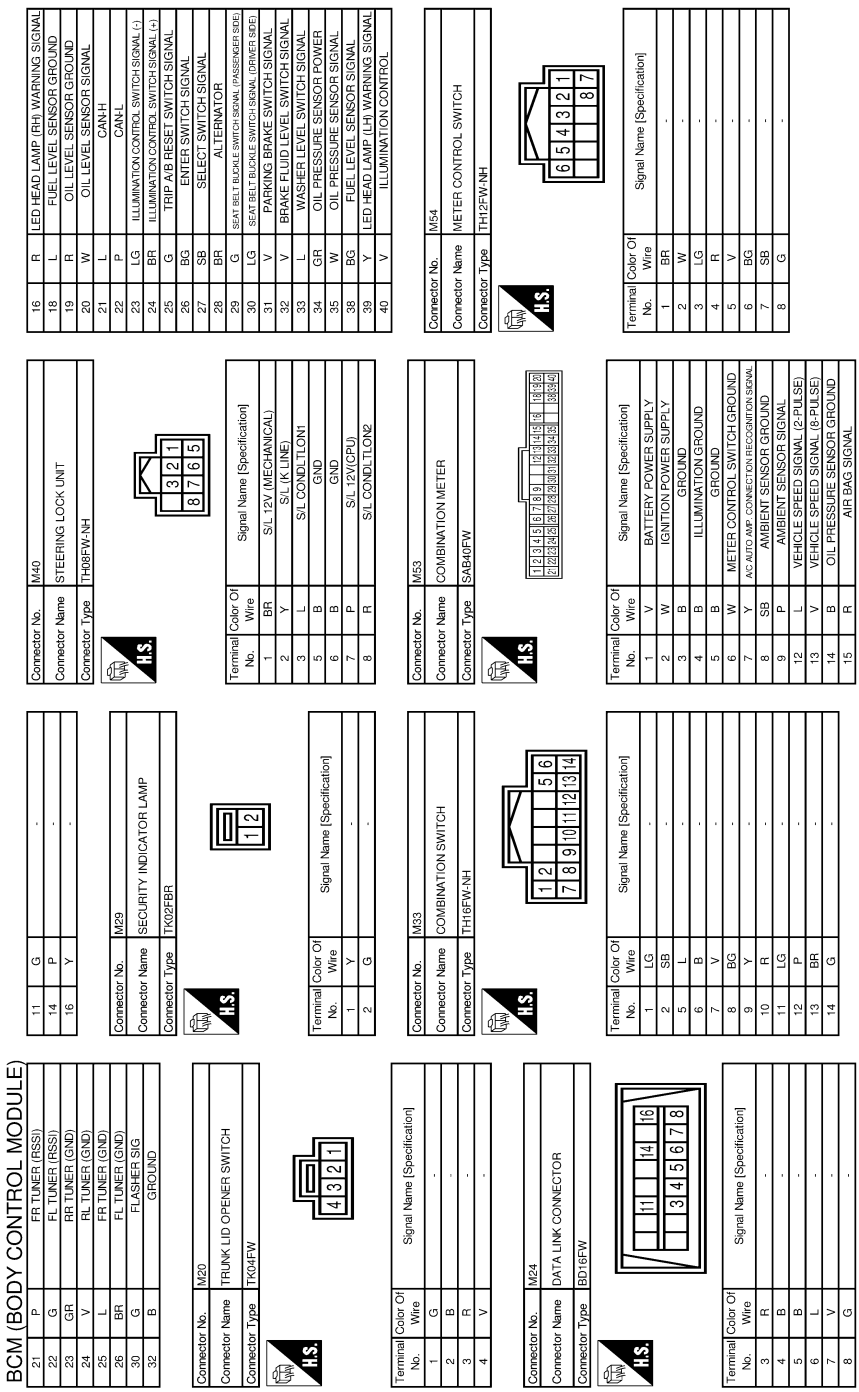

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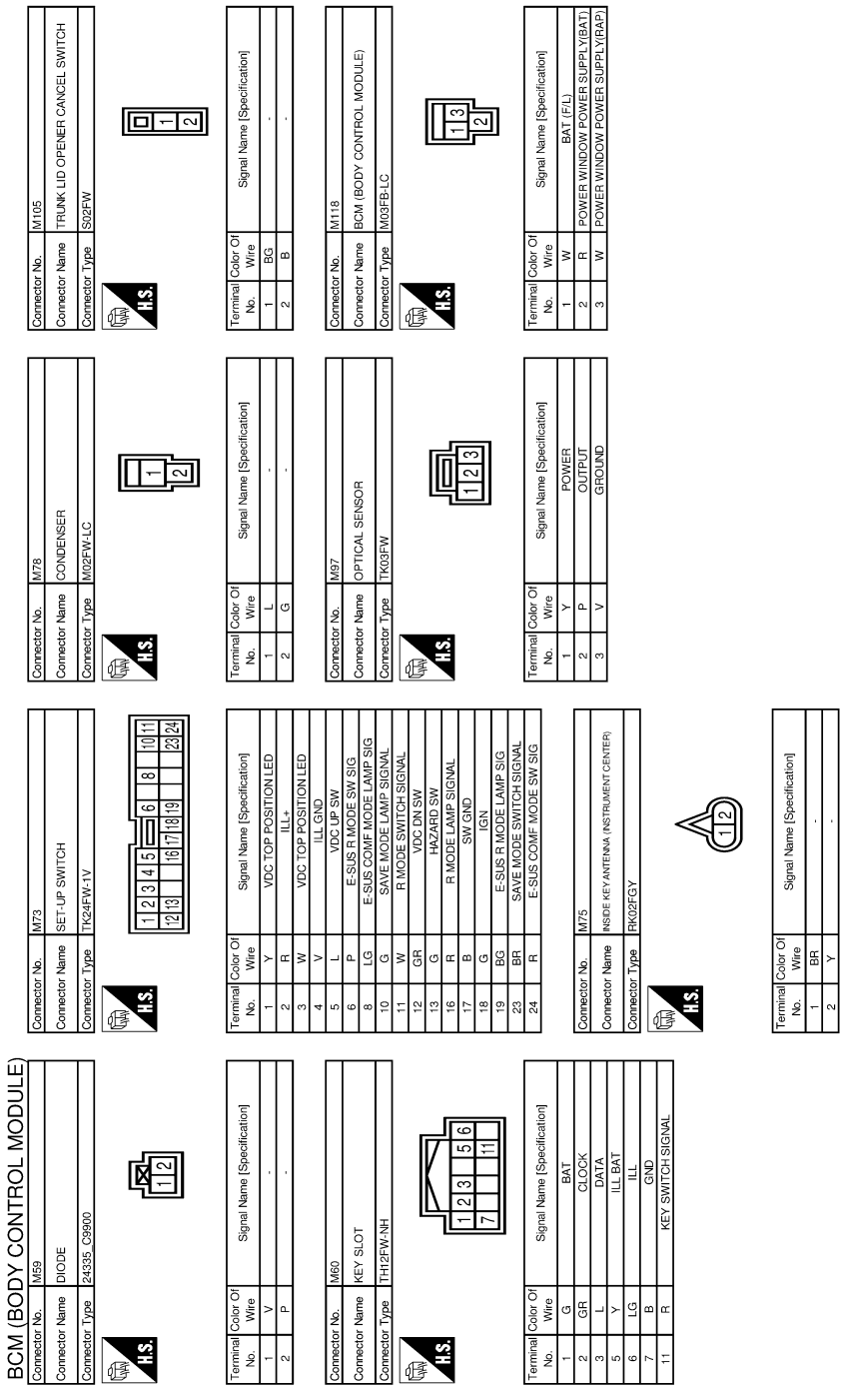
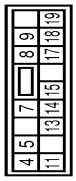


JRMWG7998GB

BCM (BODY CONTROL MODULE)

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
7	Y	STEP LAMP
8	V	ALL DOOR, FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR, FUEL LID UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GND
14	P	PUSH-BUTTON IGNITION SW ILL GND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT) OUTPUT
18	BG	TURN SIGNAL LH (FRONT) OUTPUT
19	V	ROOM LAMP TIMER CONTROL

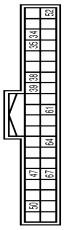
Connector No.	M120
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
20	SB	TURN SIGNAL RH (REAR) OUTPUT
23	G	TRUNK LID OPEN OUTPUT
25	V	TURN SIGNAL LH (REAR) OUTPUT
30	BG	TRUNK ROOM LAMP OUTPUT

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

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
34	P	TRUNK ROOM ANT-
35	L	TRUNK ROOM ANT+
38	R	REAR BUMPER ANT-
39	BR	REAR BUMPER ANT+
47	Y	IGN RELAY (PDM E/R) CONT
50	R	TRUNK ROOM LAMP SW
52	SB	STARTER RELAY CONT
61	W	TRUNK LID REQUEST SW
64	BG	I-KEY WARN BUZZER (ENG ROOM)
67	G	TRUNK LID OPENER SW

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

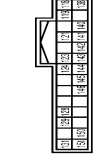
H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
72	R	ROOM ANT2-
73	G	ROOM ANT2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	IMMOBI ANTENNA CONTROL
81	L	IMMOBI ANTENNA SIGNAL

82	R	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL OUTPUT
93	V	ON IND
95	BG	ACC RELAY CONT
96	SB	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	R	S/L CONDITION 2
99	G	SHIFT P
100	W	PASSENGER DOOR REQUEST SW
101	V	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	P	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	S/L UNIT COMM

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

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
113	P	OPTICAL SENSOR
116	SB	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	R	KEY SLOT SW
123	BR	IGN F/B
124	LG	PASSENGER DOOR SW
128	P	DOOR LOCK/UNLOCK SW LOCK
129	BG	TRUNK CANCEL SW
131	BR	DOOR LOCK/UNLOCK SW UNLOCK

133	W	PUSH-BUTTON IGNITION SW ILL POWER
134	GR	LOCK IND
137	L	RECEIVER GND
138	Y	RECEIVER/SENSOR POWER SUPPLY
140	BR	SHIFT N/P
141	G	SECURITY INDICATOR
142	BG	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

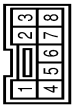
Connector No.	M126
Connector Name	RESISTOR
Connector Type	M04FL-R

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	L	-

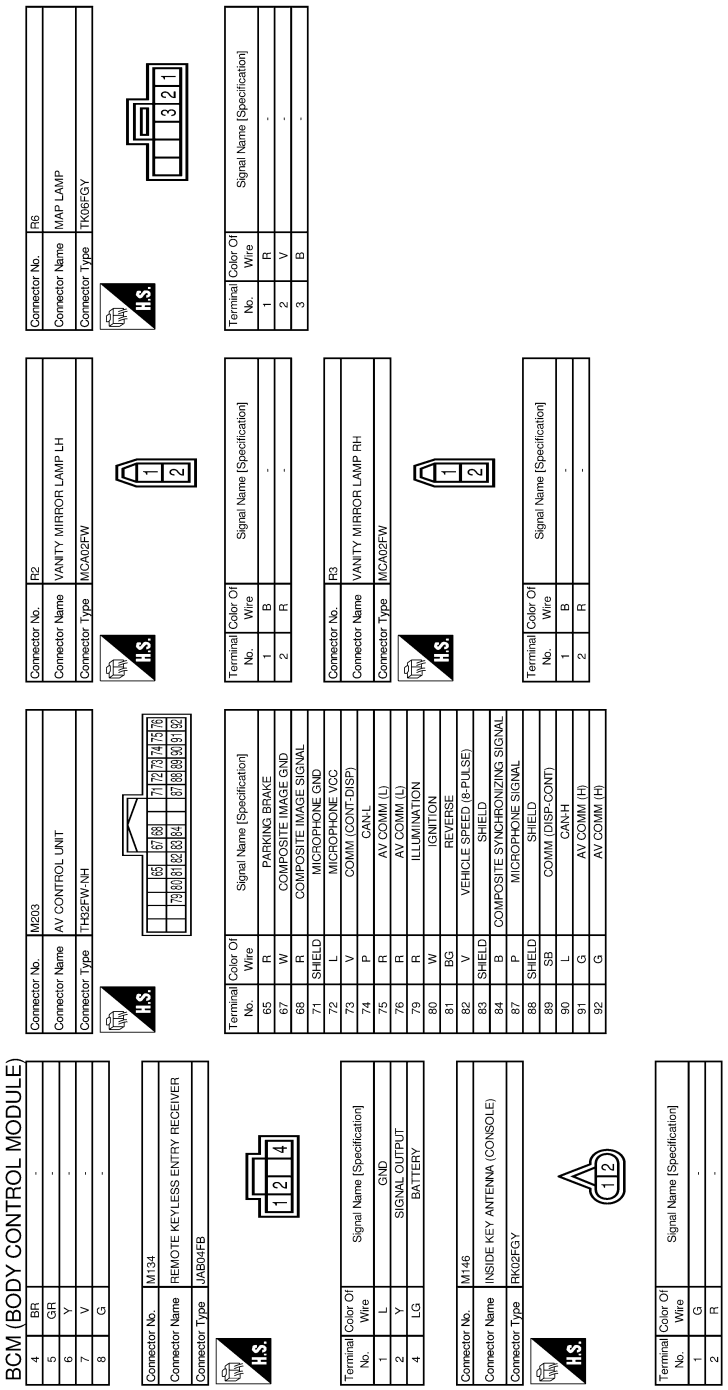
Connector No.	M131
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	P	-
3	W	-

JRMWG7999GB



JRMWG8000GB

Fail-safe

INFOID:0000000011797628

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 • Shift 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 • Shift 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 • Shift lever P position switch signal: Except P position (Battery voltage) • Shift lever P/N position signal: Except P and N positions (0 V)
B2604: PNP/CLUTCH 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 - Shift 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 - Shift lever P/N position signal: Except P and N positions (0 V) - P range signal and N range signal (CAN): OFF
B2605: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled • Ignition switch is in the ON position - Power position: IGN - Shift 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 - Shift 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)
B2607: 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
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: BCM	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
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)

DTC Inspection Priority Chart

INFOID:0000000011797629

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 • 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

Priority	DTC
4	• B2013: ID DISCORD BCM-S/L • B2014: CHAIN OF S/L-BCM • B2553: IGNITION RELAY • B2555: STOP LAMP • B2556: PUSH-BTN IGN SW • B2557: VEHICLE SPEED • B2560: STARTER CONT RELAY • B2601: SHIFT POSITION • B2602: SHIFT POSITION • B2603: SHIFT POSI STATUS • B2604: PNP/CLUTCH SW • B2605: PNP/CLUTCH 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: BCM • B2615: BCM • B2616: BCM • B2617: BCM • B2618: BCM • B2619: BCM • B261A: PUSH-BTN IGN SW • B261E: VEHICLE TYPE • B26E9: S/L STATUS • B26EA: KEY REGISTRATION • U0415: VEHICLE SPEED
5	• B2621: INSIDE ANTENNA • B2622: INSIDE ANTENNA • B2623: INSIDE ANTENNA
6	B26E7: TPMS CAN COMM

DTC Index

INFOID:0000000011797630

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-49, "COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)".

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Reference page
No DTC is detected. Further testing may be required.	—	—	—	—
U1000: CAN COMM	—	—	—	BCS-36
U1010: CONTROL UNIT (CAN)	—	—	—	BCS-37
U0415: VEHICLE SPEED	—	—	—	BCS-38
B2013: ID DISCORD BCM-S/L	×	×	—	SEC-48
B2014: CHAIN OF S/L-BCM	×	×	—	SEC-49
B2190: NATS ANTENNA AMP	×	—	—	SEC-40

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Reference page
B2191: DIFFERENCE OF KEY	×	—	—	SEC-43
B2192: ID DISCORD BCM-ECM	×	—	—	SEC-44
B2193: CHAIN OF BCM-ECM	×	—	—	SEC-46
B2195: ANTI-SCANNING	×	—	—	SEC-47
B2553: IGNITION RELAY	—	×	—	PCS-50
B2555: STOP LAMP	—	×	—	SEC-52
B2556: PUSH-BTN IGN SW	—	×	×	SEC-54
B2557: VEHICLE SPEED	×	×	×	SEC-56
B2560: STARTER CONT RELAY	×	×	×	SEC-57
B2562: LOW VOLTAGE	—	×	—	BCS-39
B2601: SHIFT POSITION	×	×	×	SEC-58
B2602: SHIFT POSITION	×	×	×	SEC-61
B2603: SHIFT POSI STATUS	×	×	×	SEC-63
B2604: PNP/CLUTCH SW	×	×	×	SEC-65
B2605: PNP/CLUTCH SW	×	×	×	SEC-67
B2606: S/L RELAY	×	×	×	SEC-69
B2607: S/L RELAY	×	×	×	SEC-70
B2608: STARTER RELAY	×	×	×	SEC-72
B2609: S/L STATUS	×	×	×	SEC-74
B260A: IGNITION RELAY	×	×	×	PCS-52
B260B: STEERING LOCK UNIT	—	×	×	SEC-78
B260C: STEERING LOCK UNIT	—	×	×	SEC-79
B260D: STEERING LOCK UNIT	—	×	×	SEC-80
B260F: ENG STATE SIG LOST	×	×	×	SEC-81
B2612: S/L STATUS	×	×	×	SEC-84
B2614: BCM	—	×	×	PCS-54
B2615: BCM	—	×	×	PCS-56
B2616: BCM	—	×	×	PCS-58
B2617: BCM	×	×	×	SEC-88
B2618: BCM	×	×	×	PCS-60
B2619: BCM	×	×	×	SEC-90
B261A: PUSH-BTN IGN SW	—	×	×	SEC-91
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	SEC-93
B2621: INSIDE ANTENNA	—	×	—	DLK-56
B2622: INSIDE ANTENNA	—	×	—	DLK-58
B2623: INSIDE ANTENNA	—	×	—	DLK-60
B26E7: TPMS CAN COMM	—	—	—	BCS-40
B26E9: S/L STATUS	×	×	× (Turn ON for 15 seconds)	SEC-82
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	SEC-83

SYMPTOM DIAGNOSIS

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

ALL DOOR

ALL DOOR : Description

INFOID:0000000011487034

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

ALL DOOR : Diagnosis Procedure

INFOID:0000000011487035

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to DLK-62, "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-65, "DRIVER SIDE : Component_Function_Check".
- Passenger side: Refer to DLK-67, "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-69, "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:0000000011487036

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011487037

1. CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).
Refer to DLK-69, "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:0000000011487038

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011487039

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (passenger side).
Refer to DLK-70, "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 REQUEST SWITCH

ALL DOOR

ALL DOOR : Description

INFOID:0000000011487040

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

ALL DOOR : Diagnosis Procedure

INFOID:0000000011487041

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-29, "REMOTE KEYLESS ENTRY FUNCTION : System Description".

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

Check “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT 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:0000000011487042

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

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011487043

1. CHECK DRIVER SIDE DOOR REQUEST SWITCH

Check driver side 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 LH

Check outside key antenna LH.
Refer to DLK-89, "Component Function Check".

Is the inspection result normal?

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

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000011487044

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

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000011487045

1.CHECK PASSENGER SIDE DOOR REQUEST SWITCH

Check passenger side 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 RH

Check outside key antenna RH.
Refer to DLK-89, "Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:0000000011487046

1.CHECK INTELLIGENT KEY

For Intelligent Key that cannot be used for door lock and unlock, check that the Intelligent Key belongs to the vehicle to be checked.

Does the Intelligent Key belong to the vehicle to checked?

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

2.CHECK INTELLIGENT KEY LOW BATTERY WARNING

Check that the Intelligent Key low battery warning is operated.

Is the Intelligent Key low battery warning operated?

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

3.CHECK INTELLIGENT KEY BUTTON OPERATION

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

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

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

4.CHECK ENGINE START

Insert Intelligent Key into the key slot. Operate the push-button ignition switch, and check that the vehicle is in START status.

Is the vehicle in START status?

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

5.CHECK INTELLIGENT KEY

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

Is the vehicle in START status?

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

6.CHECK INTELLIGENT KEY BATTERY

Check the Intelligent Key battery.
Refer to DLK-93, "Component Function Check".

Is the inspection result normal?

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

7.CHECK POWER DOOR LOCK OPERATION

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

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

YES >> GO TO 8.
NO >> Refer to DLK-173, "ALL DOOR : Diagnosis Procedure".

8.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.
Refer to DLK-74, "Component Function Check".

Is the inspection result normal?

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

9. CHECK DOOR SWITCH

Check door switch.
Refer to DLK-63, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 10.
NO >> Repair or replace the malfunctioning parts.

10. REPLACE INTELLIGENT KEY

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

Is the result normal?

YES >> INSPECTION END
NO >> Replace BCM. Refer to BCS-89, "Removal and Installation".

TRUNK LID DOES NOT OPEN WITH TRUNK LID OPENER SWITCH

Diagnosis Procedure

INFOID:0000000011487047

1.CHECK TRUNK LID OPENER SWITCH

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

Is the inspection result normal?

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

2.CHECK TRUNK LID OPENER ACTUATOR

Check trunk lid opener actuator.
Refer to DLK-71, "Component Function Check".

Is the inspection result normal?

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

3.CHECK TRUNK LID OPENER CANCEL SWITCH

Check trunk lid opener cancel switch.
Refer to DLK-83, "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-100, "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.

TRUNK LID DOES NOT OPEN WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:0000000011487048

1.CHECK TRUNK LID OPEN FUNCTION

Check trunk lid open function with trunk lid opener switch.

Does trunk lid open with trunk lid opener switch?

YES >> GO TO 2.
NO >> Refer to DLK-179, "Diagnosis Procedure".

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

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

Is the inspection result normal?

YES >> GO TO 3.
NO >> Set “TRUNK OPEN DELAY” 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 DTC for BCM. Refer to BCS-84, "DTC Index".

4.CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.
Refer to DLK-93, "Component Function Check".

Is the inspection result normal?

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

5.CHECK VEHICLE SPEED SIGNAL

Check combination meter.
Refer to MWI-100, "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.

TRUNK LID DOES NOT OPEN WITH TRUNK LID OPENER REQUEST SWITCH

Diagnosis Procedure

INFOID:0000000011487049

1.CHECK TRUNK LID OPEN FUNCTION

Check trunk lid open function with Intelligent Key.

Does trunk lid open with Intelligent Key?

YES >> GO TO 2.
NO >> Refer to DLK-180, "Diagnosis Procedure".

2.CHECK TRUNK LID OPENER REQUEST SWITCH

Check trunk lid opener request switch.
Refer to DLK-81, "Component Function Check".

Is the inspection result normal?

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

3.CHECK OUTSIDE KEY ANTENNA (REAR BUMPER)

Check outside key antenna (rear bumper).
Refer to DLK-89, "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-100, "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.

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011487050

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

Check “DOOR LOCK-UNLOCK SET” setting in “WORK SUPPORT”.
Refer to DLK-50, "DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)".

Is the inspection result normal?

YES >> GO TO 2.
NO >> Set “DOOR LOCK-UNLOCK SET” 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.

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011487051

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-173, "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-50, "DOOR LOCK : CONSULT 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-50, "DOOR LOCK : CONSULT 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-100, "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.

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011487052

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-173, "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-50, "DOOR LOCK : CONSULT 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-50, "DOOR LOCK : CONSULT 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 BCS-84, "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

Diagnosis Procedure

INFOID:0000000011487053

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-173, "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-50, "DOOR LOCK : CONSULT 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-50, "DOOR LOCK : CONSULT 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-50, "DOOR LOCK : CONSULT 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-342, "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

Diagnosis Procedure

INFOID:0000000011487054

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

Check “AUTO LOCK SET” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT 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.

FUEL LID LOCK ACTUATOR DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011487055

1.CHECK FUEL LID OPENER ACTUATOR

Check fuel lid opener actuator.
Refer to DLK-73, "Component Function Check".

Is the inspection result normal?

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

2.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

HAZARD AND HORN REMINDER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011487056

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

Check “HAZARD ANSWER BACK” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT 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-52, "INTELLIGENT KEY : CONSULT 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 HAZARD FUNCTION

Check hazard function.
Refer to DLK-101, "Component Function Check".

Is the inspection result normal?

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

4.CHECK HORN FUNCTION

Check horn function.
Refer to SEC-117, "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.

HAZARD AND BUZZER REMINDER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011487057

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

Check “HAZARD ANSWER BACK” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

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-52, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

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-52, "INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)".

Is the inspection result normal?

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

4. CHECK HAZARD FUNCTION

Check hazard function.
Refer to DLK-101, "Component Function Check".

Is the inspection result normal?

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

5. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-91, "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.

KEY REMINDER FUNCTION DOES NOT OPERATE
INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : Description

INFOID:0000000011487058

Key reminder function is not operated by intelligent Key system.

INTELLIGENT KEY SYSTEM : Diagnosis Procedure

INFOID:0000000011487059

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

Check “ANTI KEY LOCK IN FUNCTI” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT 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-63, "Component Function Check".

Is the inspection result normal?

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

3.CHECK TRUNK ROOM LAMP SWITCH

Check trunk room lamp switch.
Refer to DLK-85, "Component Function Check".

Is the inspection result normal?

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

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
- Instrument center: Refer to DLK-56, "DTC Logic".
- Console: Refer to DLK-58, "DTC Logic".
- Trunk room: Refer to DLK-60, "DTC Logic".

Is the inspection result normal?

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

5.CHECK UNLOCK SENSOR

Check unlock sensor.
Refer to DLK-87, "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.

POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : Description

INFOID:0000000011487060

Key reminder function is not operated by power door lock system.

POWER DOOR LOCK SYSTEM : Diagnosis Procedure

INFOID:0000000011487061

1.CHECK KEY SLOT

Check key slot.
Refer to DLK-94, "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-63, "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

Diagnosis Procedure

INFOID:0000000011487062

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-99, "Component Function Check".

Is the inspection result normal?

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

2.CHECK DOOR SWITCH

Check door switch (driver side).
Refer to DLK-63, "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-94, "Component Function Check".

Is the inspection result normal?

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

4.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.
Refer to DLK-98, "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-96, "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

Diagnosis Procedure

INFOID:0000000011487063

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 BCS-84, "DTC Index".

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-99, "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-91, "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-63, "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

Diagnosis Procedure

INFOID:0000000011487064

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 BCS-84, "DTC Index".

2.CHECK DETENTION SWITCH

Check BCM for DTC.
Refer to BCS-84, "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-91, "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-99, "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-63, "Component Function Check".

Is the inspection result normal?

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

6.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
- Instrument center: Refer to DLK-56, "DTC Logic".
- Console: Refer to DLK-58, "DTC Logic".
- Trunk room: Refer to DLK-60, "DTC Logic".

Is the inspection result normal?

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

7.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.
Refer to DLK-98, "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

Diagnosis Procedure

INFOID:0000000011487065

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 BCS-84, "DTC Index".

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).
Refer to DLK-99, "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-98, "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

Diagnosis Procedure

INFOID:0000000011487066

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 BCS-84, "DTC Index".

2.CHECK DOOR SWITCH

Check door switch.
Refer to DLK-63, "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-94, "Component Function Check".

Is the inspection result normal?

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

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
- Instrument center: Refer to DLK-56, "DTC Logic".
- Console: Refer to DLK-58, "DTC Logic".
- Trunk room: Refer to DLK-60, "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-99, "Component Function Check".

Is the inspection result normal?

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

6.CHECK COMBINATION METER DISPLAY FUNCTION

Check combination meter display function.
Refer to DLK-98, "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-91, "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-96, "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

Diagnosis Procedure

INFOID:0000000011487067

1.CHECK “LO- BATT OF KEY FOB WARN” SETTING IN “WORK SUPPORT”

Check “LO- BATT OF KEY FOB WARN” setting in “WORK SUPPORT”.
Refer to DLK-52, "INTELLIGENT KEY : CONSULT 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 BATTERY

Check Intelligent Key battery.
Refer to DLK-93, "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-98, "Component Function Check".

Is the inspection result normal?

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

4.CHECK INSIDE KEY ANTENNA

Check inside key antenna.
- Instrument center: Refer to DLK-56, "DTC Logic".
- Console: Refer to DLK-58, "DTC Logic".
- Trunk room: Refer to DLK-60, "DTC Logic".

Is the inspection result normal?

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

5.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011487068

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-175, "DRIVER SIDE : Diagnosis Procedure".
NO-2 >> Passenger side: Refer to DLK-176, "PASSENGER SIDE : Diagnosis Procedure".

2.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.
Refer to DLK-91, "Component Function Check".

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

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

KEY ID WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011487069

1.CHECK INTELLIGENT KEY BATTERY

Check Intelligent Key battery.
Refer to DLK-93, "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-98, "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

Diagnosis Procedure

INFOID:0000000011487070

1.CHECK KEY WARNING LAMP

Check key warning lamp.
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.

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011487071

1.CHECK INTEGRATED HOMELINK TRANSMITTER

Check integrated homelink transmitter.
Refer to DLK-102, "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.

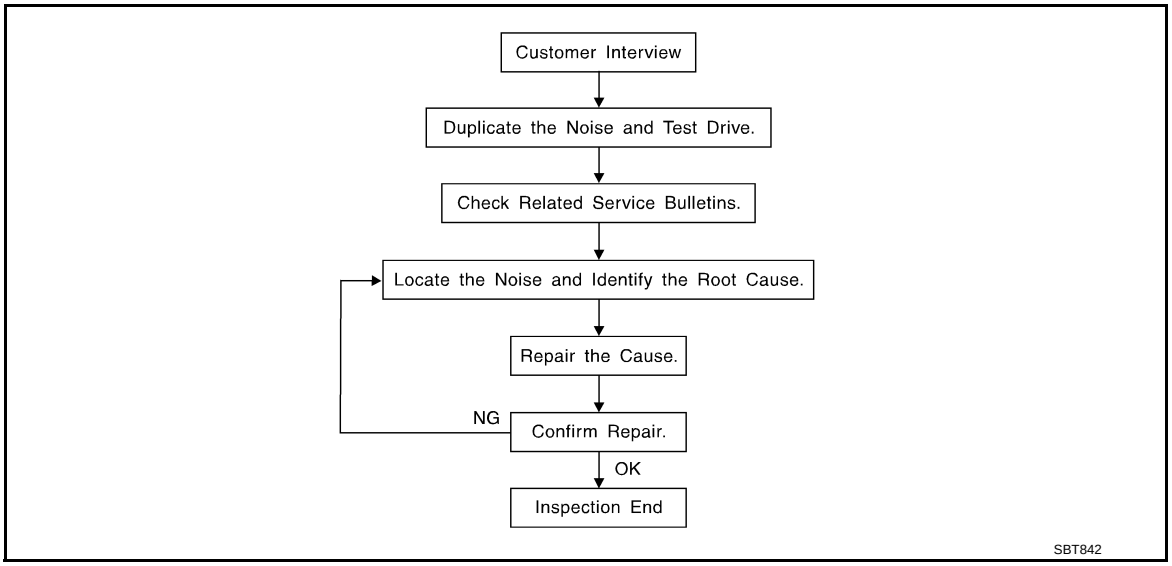
Is the result normal?

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000011487072



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-208, "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-206, "Inspection Procedure".

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
- Separate components by repositioning or loosening and retightening the component, if possible.
- Insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A Nissan Squeak and Rattle Kit (J-50397) is available through the authorized Nissan Parts Department.

CAUTION:
Never use excessive force as many components are constructed of plastic and may be damaged.
NOTE:
Always check with the Parts Department for the latest parts information.
The following materials are contained in the Nissan Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.
URETHANE PADS [1.5 mm (0.059 in) thick]
Insulates connectors, harness, etc.
76268-9E005: 100 × 135 mm (3.94 × 5.31 in)/76884-71L01: 60 × 85 mm (2.36 × 3.35 in)/76884-71L02:15 × 25 mm (0.59 × 0.98 in)
INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
73982-9E000: 45 mm (1.77 in) thick, 50 × 50 mm (1.97 × 1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50 × 50 mm (1.97 × 1.97 in)
INSULATOR (Light foam block)
80845-71L00: 30 mm (1.18 in) thick, 30 × 50 mm (1.18 × 1.97in)
FELT CLOTHTAPE
Used to insulate where movement does not occur. Ideal for instrument panel applications.
68370-4B000: 15 × 25 mm (0.59 × 0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll
The following materials, not found in the kit, can also be used to repair squeaks and rattles.
UHMW (TEFLON) TAPE

Insulates where slight movement is present. Ideal for instrument panel applications.
SILICONE GREASE
Used in place of UHMW tape that is be visible or does not fit. Will only last a few months.
SILICONE SPRAY
Used when grease cannot be applied.
DUCT TAPE
Used to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Inspection Procedure

INFOID:0000000011487073

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint
   These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.
   CAUTION:
   Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

1. Shifter assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the following:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated with felt cloth tape or insulator foam blocks from the Nissan Squeak and Rattle Kit (J-50397) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the customer.
In addition look for the following:

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment
3. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise.
Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs.Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.
Causes of transmitted underhood noise include:

1. Any component mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

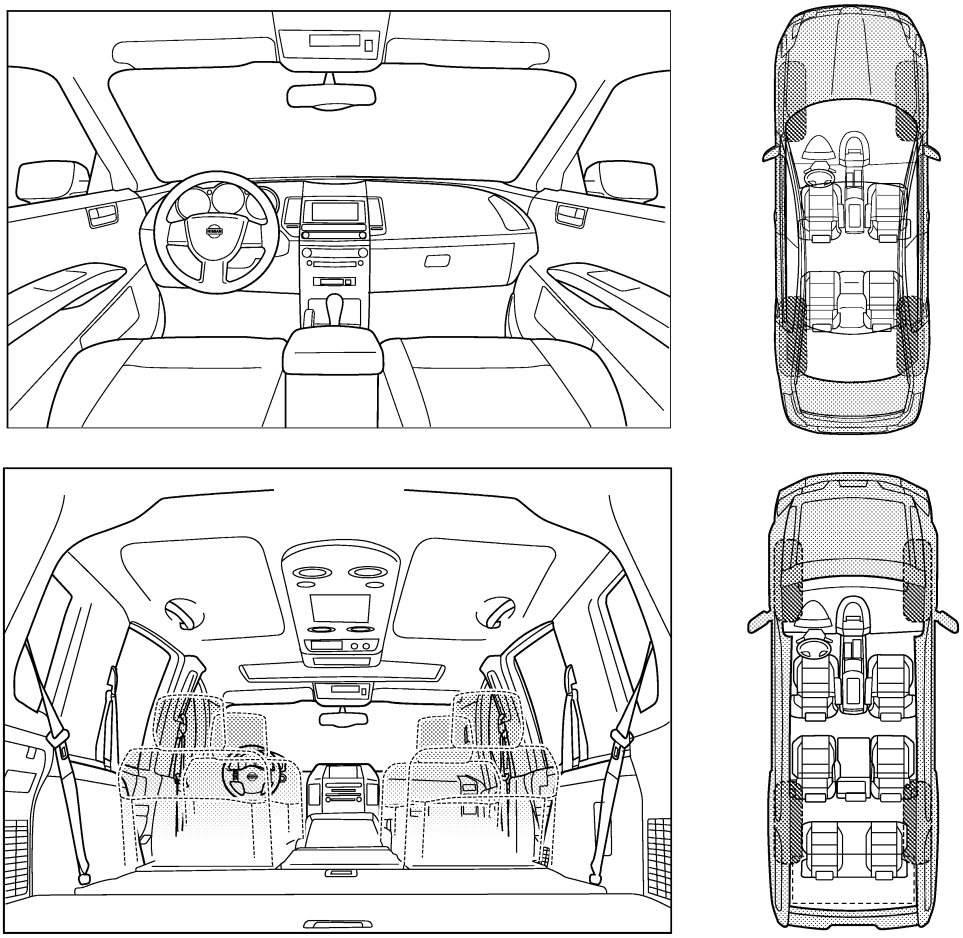
Diagnostic Worksheet

INFOID:0000000011487074

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:0000000011487075

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

WARNING:

Always observe the following items for preventing accidental activation.

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see “SRS AIR BAG”.**
- **Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Precaution for Battery Service

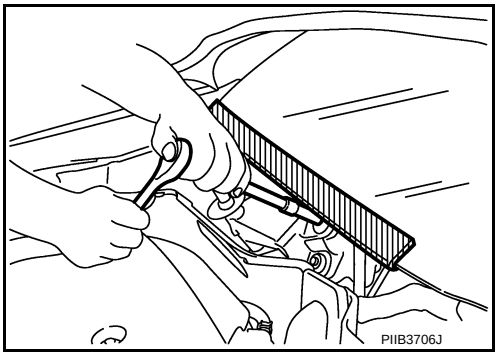
INFOID:0000000011487076

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

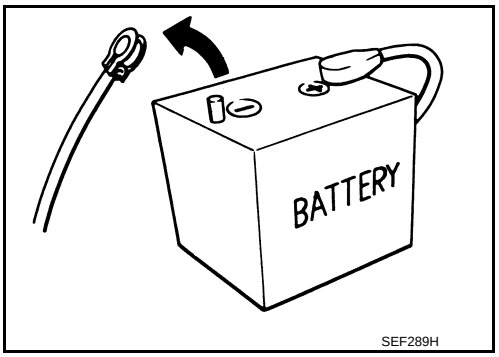
INFOID:0000000011487077

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



Precautions for Removing Battery Terminal

INFOID:0000000011487078



- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
  NOTE:
  ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
  NOTE:
  If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.
- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
  NOTE:
  The removal of 12V battery may cause a DTC detection error.

Aluminum Die-Casting Parts Handling

INFOID:0000000011487079

PROHIBITION OF WELDING OR BEATING REPAIR

- Material made of aluminum die-casting parts is heat-treated and looses strength when being exposed to welding heat. Do not perform welding repair for cracks, damage or others.
- For aluminum die-casting parts deformation, do not perform repair by beating. Always repair by replacement as an assembly.

CRACK CHECK

When the vehicle is damaged, always perform a visual deformation check and a crack check.

Crack Check Procedures

For a crack check, use dye penetrant inspection fluid (pre-cleaning fluid, penetrant fluid and developer fluid).

CAUTION:

Always perform a crack check in accordance with the procedures specified by the manufacturer of the dye penetrant inspection fluid.

1. Spray pre-cleaning fluid on the checking surface for cleaning.
2. Spray penetrant fluid on the checking surface and wait until the penetrant fluid soaks into any cracks.
3. Wipe off excessive penetrant fluid, and then also lightly wipe off penetrant fluid using a wet cloth.
4. Spray developer fluid on the checking surface.
5. Cracks, if any, are dyed red in color.

STRAY CURRENT CORROSION

- Corrosion occurs to aluminum die-casting parts by the stray current corrosion phenomenon, when directly contacting other parts made of steel. Always apply anti-stray current corrosion paint (primer) on the mounting surface.
- Clean mounting surface to prevent any foreign matter, steel powder or others from being mixed in. Always apply the specified adhesive when installing.
- Corrosion by stray current corrosion may occur when installing with any other bolts than the specified bolt. Always use the specified bolt that is surface treated.
- When loosening the specified bolt that is tightened, the treated surface may peel. Never reuse the specified bolt that is tightened once.

TIGHTENING TORQUE CONTROL

Material made of aluminum die-casting parts is soft in term of hardness. Tightening torque must be controlled exactly as specified. Always use a torque wrench to install any part to the specified tightening torque.

WARNING:

Never use a power tool to remove or tighten bolts for aluminum die-casting part to prevent damage to aluminum die-casting parts.

Work

INFOID:0000000011487080

- 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.

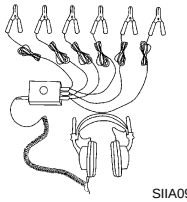
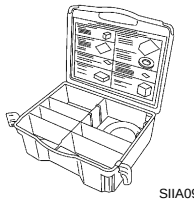
PREPARATION

PREPARATION

Special Service Tools

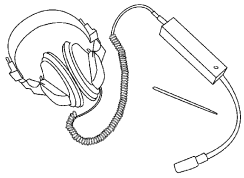
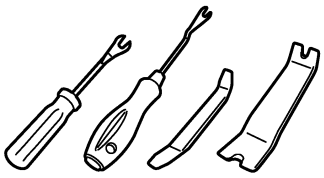
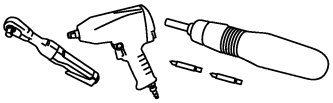
INFOID:0000000011487081

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

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

Commercial Service Tools

INFOID:0000000011487082

Tool name		Description
Engine ear	 SIIA0995E	Locates the noise
Remover tool	 JMKIA3050ZZ	Removes the clips, pawls, and metal clips
Power tool	 PIIB1407E	

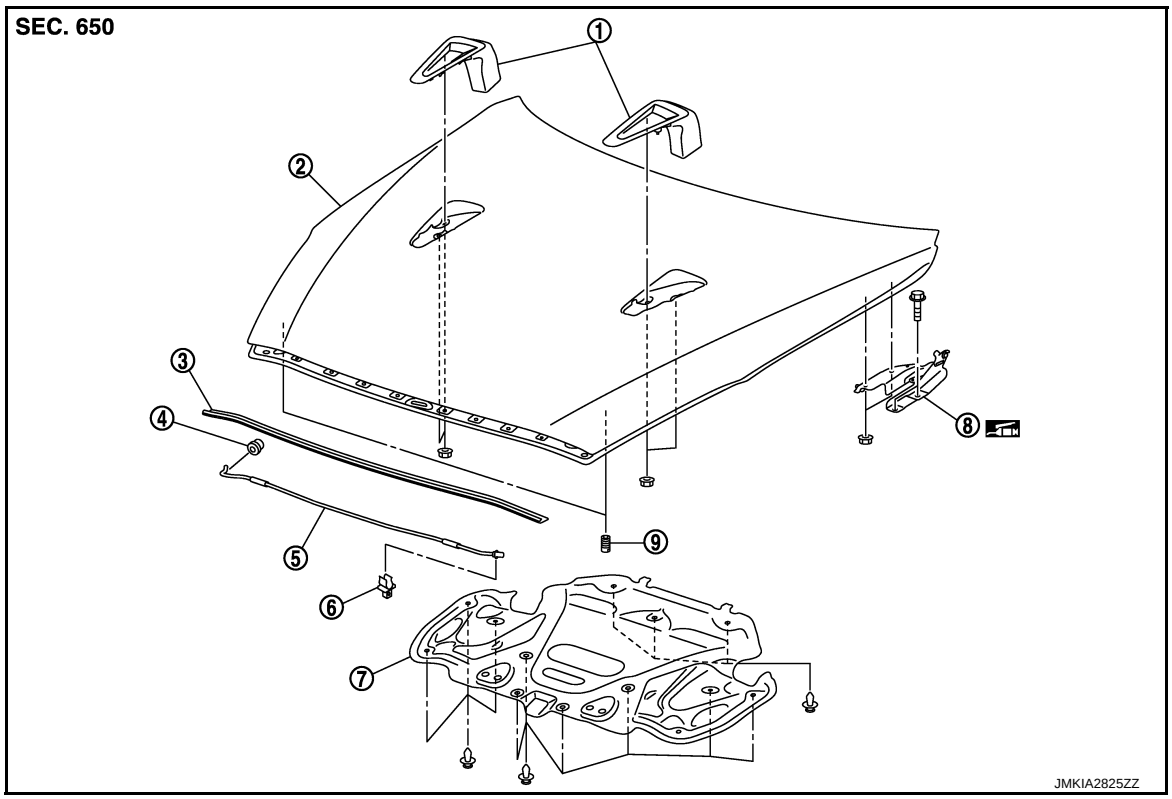
REMOVAL AND INSTALLATION

HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:0000000011487083



1. Hood air intake
2. Hood panel
3. Hood front seal
4. Grommet
5. Hood support rod
6. Clamp
7. Hood insulator
8. Hood hinge
9. Hood bumper rubber

Refer to GI-4, "Components" for the symbols shown in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:0000000011487084

CAUTION:
- **Operate with two workers, because of its heavy weight.**
- **Use protective tape or shop cloth to protect from damage during removal and installation.**

REMOVAL

1. Disengage the clips using a remover tool, and then remove the hood hinge cover (LH/RH).
2. Remove the hood hinge mounting nut (hood side), and then remove the hood assembly.

INSTALLATION

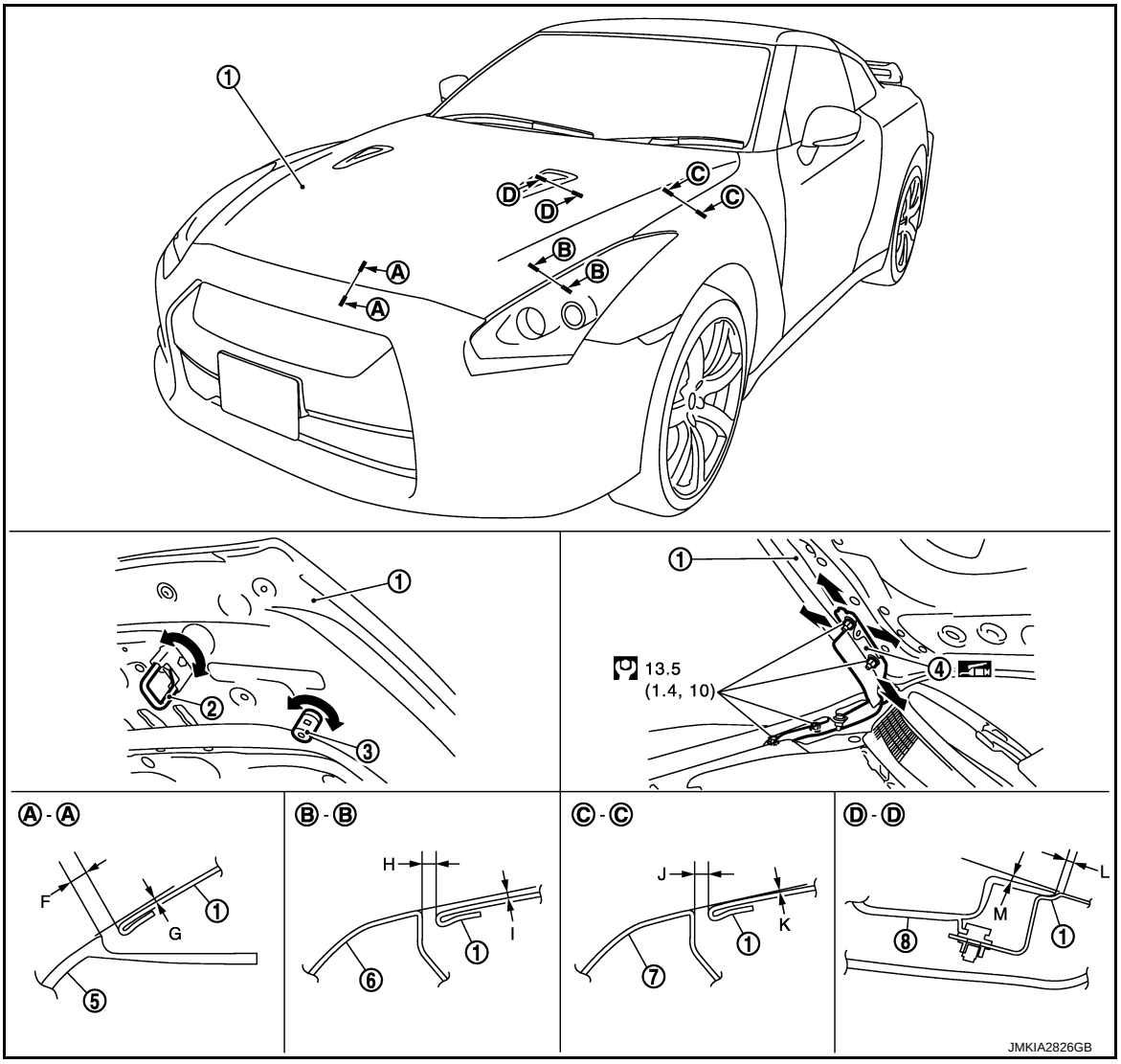
Install in the reverse order of removal.

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, perform the fitting adjustment. Refer to DLK-215, "HOOD ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of hood hinge mounting bolts and nuts.**

HOOD ASSEMBLY : Adjustment

INFOID:0000000011487085

ADJUSTMENT



1. Hood assembly
2. Hood striker
3. Hood bumper rubber
4. Hood hinge
5. Front bumper fascia
6. Front combination lamp
7. Front fender
8. Hood air intake

Refer to GI-4, "Components" for the symbols shown in the figure.

Check both visually and by touch that the clearance and surface height difference between the hood and each part are within the specified value. If they are out of the specified range, adjust them as per the following procedures.

Location				Standard	Difference (LH/RH, MAX)
Hood – front bumper fascia	A – A	F	Clearance	1.5 – 5.5 mm (0.059 – 0.217)	—
		G	Surface height	-2.0 – 0.0 mm (-0.079 – 0.000 in)	—

Location				Standard	Difference (LH/RH, MAX)
Hood – front combination lamp	B – B	H	Clearance	1.5 – 5.5 mm (0.059 – 0.217 in)	2.5mm (0.098 in)
		I	Surface height	-2.5 – 1.5 mm (-0.098 – 0.059 in)	2.0 mm (0.079 in)
Hood – front fender	C – C	J	Clearance	2.5 – 4.5 mm (0.098 – 0.177 in)	2.0 mm (0.079 in)
		K	Surface height	-2.0 – 1.0 mm (-0.079 – 0.039 in)	—
Hood – hood air intake	D – D	L	Clearance	0.4 – 1.8 mm (0.016 – 0.071 in)	0.8 mm (0.031 in)
		M	Surface height	-1.2 – 0.2 mm (-0.047 – 0.008 in)	—

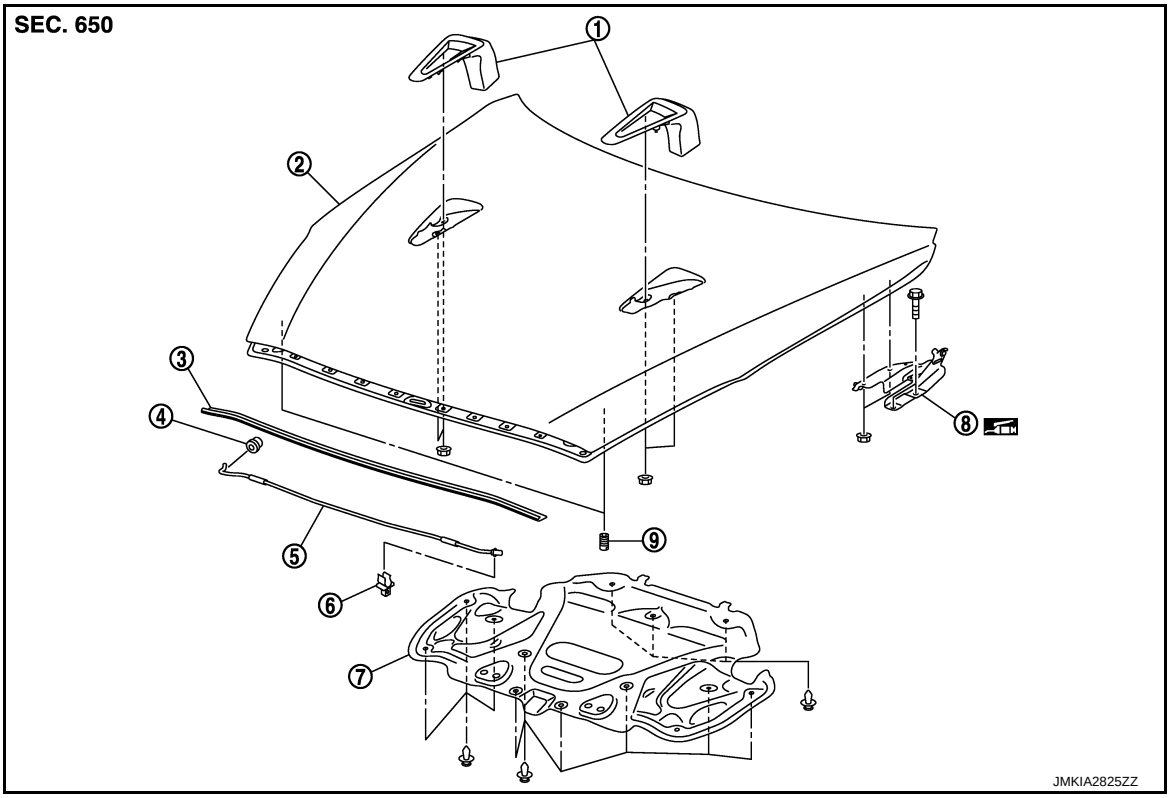
1. Disengage the clips using a remover tool, and then remove the hood hinge cover.
2. Loosen the hood hinge mounting nut (hood side).
3. Adjust the clearance between hood and front bumper fascia, front combination lamp, and front fender within the specified value as shown in the table, while moving the hood.
4. Disengage the clips, and then remove the hood lock cover.
5. Remove the hood striker.
6. Rotate the hood bumper rubber and adjust the surface height difference between hood and front fender to the specified value as shown in the table, while pressing and closing the hood by hands until hood bumper rubber contacts the vehicle body (front end module).
7. Install the hood striker. Then, rotate the hood striker and adjust the surface height difference between hood and front bumper within the specified value as shown in the table.
8. Check that the secondary latch and the hood lock stay are securely engaged by the weight of the hood when letting the hood free fall from a height of approximately 100 mm (3.937 in).
9. Check that the hood striker and the hood lock are securely engaged by the weight of the hood when letting the hood free fall from a height of approximately 300 mm (11.811 in).
   CAUTION:
   - **Check that the hood locks LH/RH are engaged securely.**
   - **Check once again that the clearance and surface height difference of each part are with in the specified value.**
10. Tighten the hood hinge mounting nut to the specified torque after adjustment, and then install the following parts.
    - Hood hinge cover
    - Hood lock cover

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 head of hood hinge mounting bolts and nuts.**

HOOD HINGE

HOOD HINGE : Exploded View

INFOID:0000000011487086



1. Hood air intake
2. Hood panel
3. Hood front seal
4. Grommet
5. Hood support rod
6. Clamp
7. Hood insulator
8. Hood hinge
9. Hood bumper rubber

Refer to GI-4, "Components" for the symbols shown in the figure.

HOOD HINGE : Removal and Installation

INFOID:0000000011487087

REMOVAL

1. Remove the hood assembly. Refer to DLK-214, "HOOD ASSEMBLY : Removal and Installation".
2. Remove the front fender. Refer to DLK-225, "Removal and Installation".
3. Remove the hood hinge mounting bolts (body side), and then remove the hood hinge.

INSTALLATION

Install in the reverse order of removal.

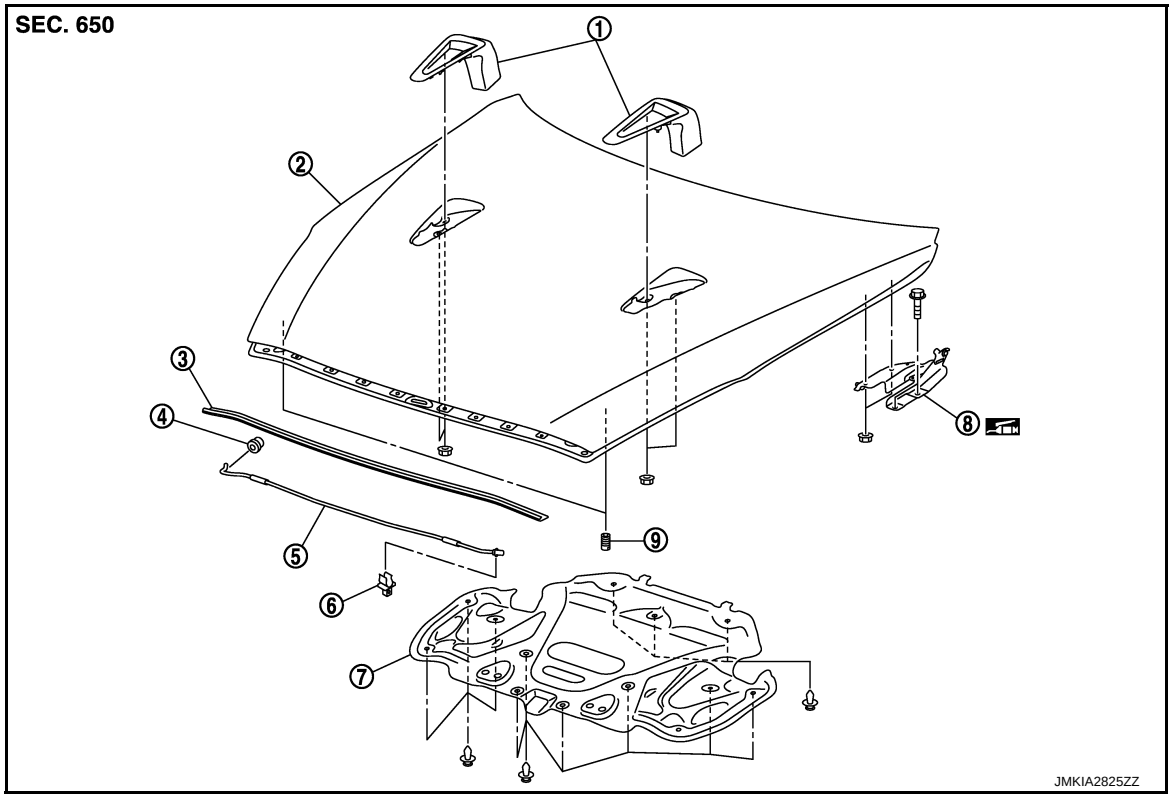
CAUTION:

- **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 head of hood hinge mounting bolts and nuts.**
- **After installation, perform the fitting adjustment. Refer to DLK-215, "HOOD ASSEMBLY : Adjustment".**

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Exploded View

INFOID:0000000011487088



1. Hood air intake
2. Hood panel
3. Hood front seal
4. Grommet
5. Hood support rod
6. Clamp
7. Hood insulator
8. Hood hinge
9. Hood bumper rubber

Refer to GI-4, "Components" for the symbols shown in the figure.

HOOD SUPPORT ROD : Removal and Installation

INFOID:0000000011487089

CAUTION:
Two workers are required to support the hood.

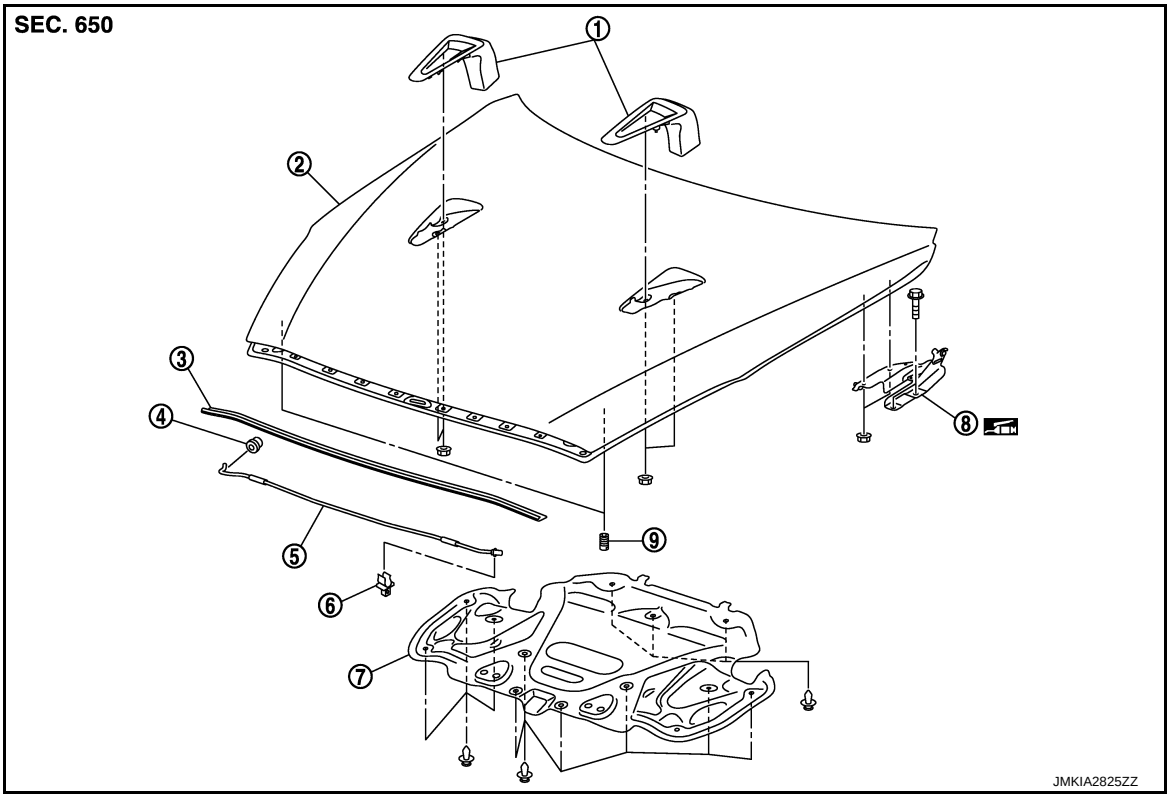
REMOVAL
Pull out and remove the hood support rod from the grommet.

INSTALLATION
Install in the reverse order of removal.

HOOD AIR INTAKE

HOOD AIR INTAKE : Exploded View

INFOID:0000000011487090



1. Hood air intake
2. Hood panel
3. Hood front seal
4. Grommet
5. Hood support rod
6. Clamp
7. Hood insulator
8. Hood hinge
9. Hood bumper rubber

Refer to GI-4, "Components" for the symbols shown in the figure.

HOOD AIR INTAKE : Removal and Installation

INFOID:0000000011487091

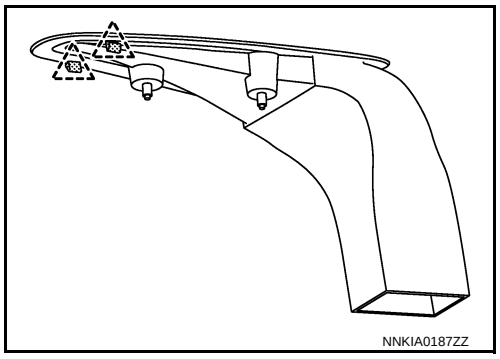
REMOVAL

1. Remove the mounting clips, and then remove the hood insulator.
2. Remove the hood air intake mounting nuts.
3. Disengage the pawls from the hood panel.

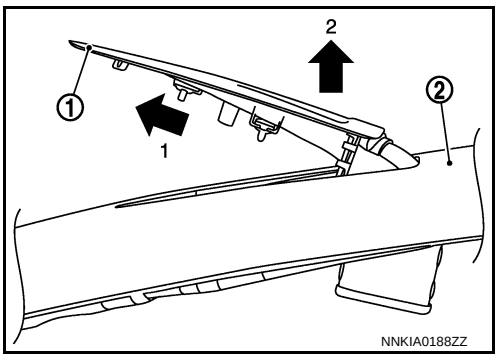
: Pawl

NOTE:
Press and remove the pawls from the access holes set to the panel.

CAUTION:
Carefully disengage the pawls because they may be damaged if they are disengaged forcibly.



4. Slide the hood air intake (1) toward vehicle front, and then lift up and remove it from the hood panel (2).



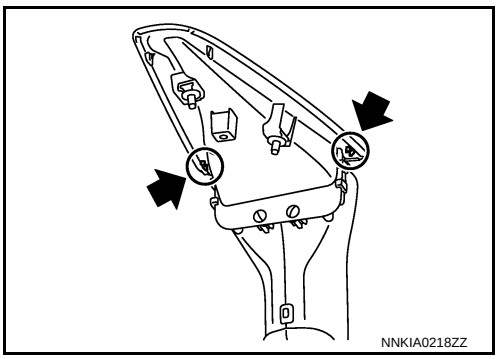
INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Securely engage the pawls with the panel until it clicks.**
- **Check that the guide rib does not run on to the hood panel.**

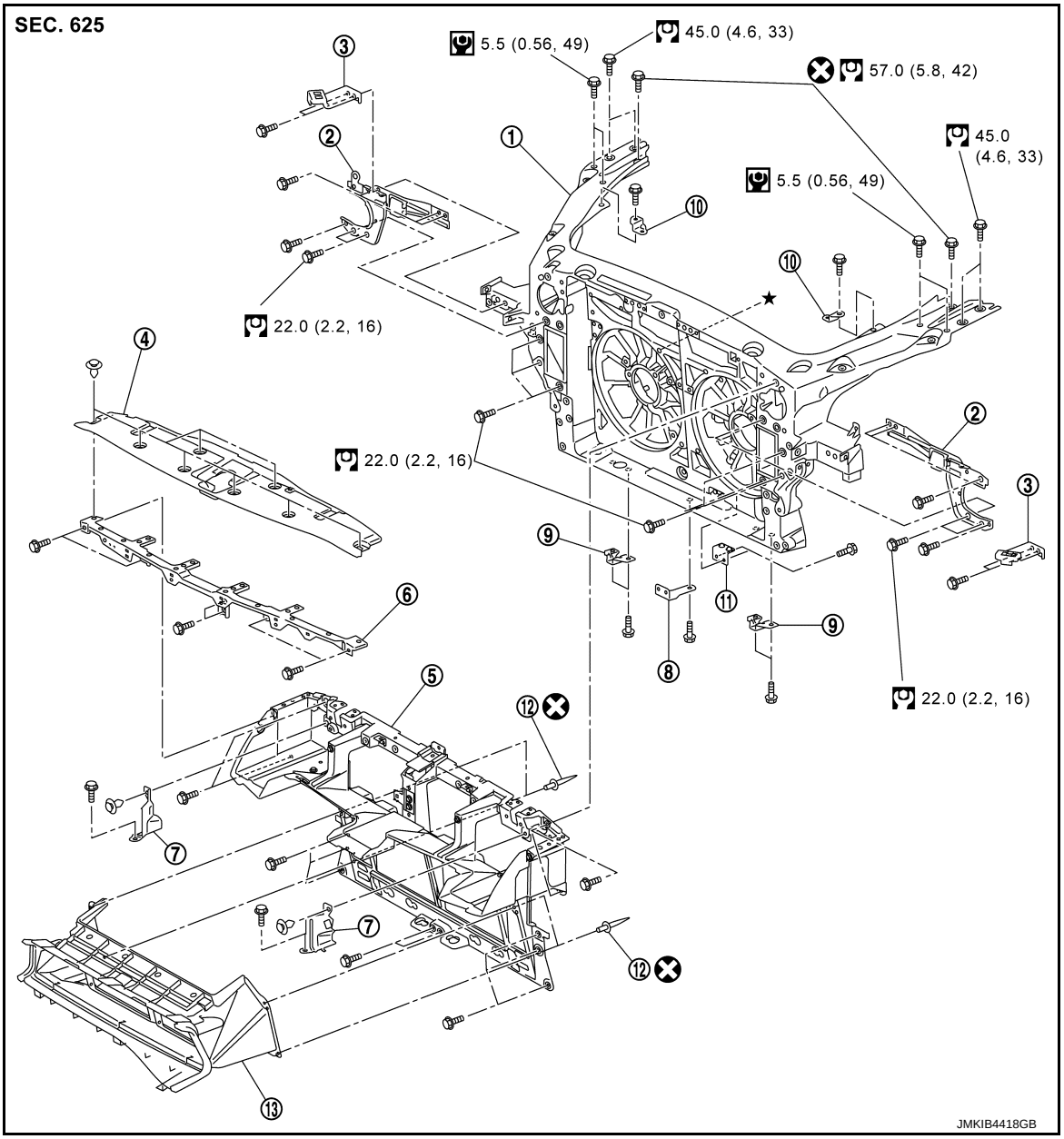
⬅ : Guide rib



RADIATOR CORE SUPPORT

Exploded View (GT-R certified NISSAN dealer)

INFOID:0000000011487092



1. Radiator core support assembly	2. Hood lock bracket assembly (LH/RH)	3. Bumper clip bracket (LH/RH)
4. Radiator cover	5. Air intake duct assembly 1	6. Bumper fascia bracket
7. Air guide bracket (LH/RH)	8. Air duct bracket lower	9. Radiator under bracket (LH/RH)
10. Air cleaner bracket (LH/RH)	11. Power steering pipe bracket	12. Rivet
13. Air intake duct assembly 2	14. Flap (lower)	15. Flap (center)
16. Flap (LH)	17. Flap (upper)	18. Flap (RH)

Refer to GI-4, "Components" for the symbol shown in the figure.

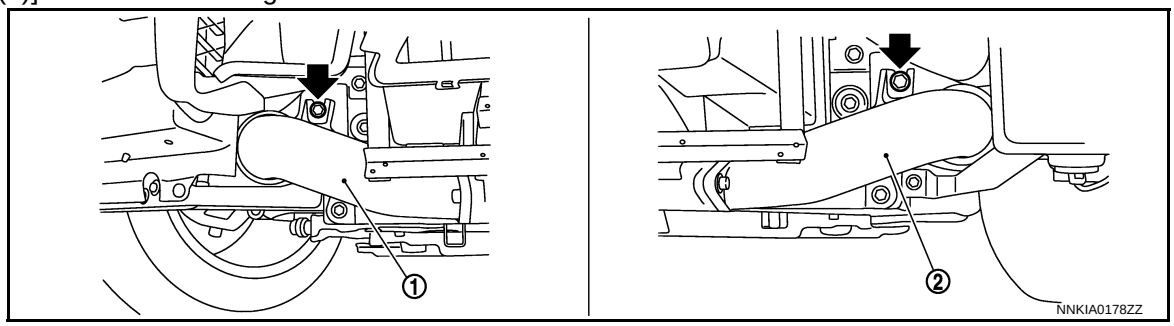
Removal and Installation (GT-R certified NISSAN dealer)

INFOID:0000000011487093

REMOVAL

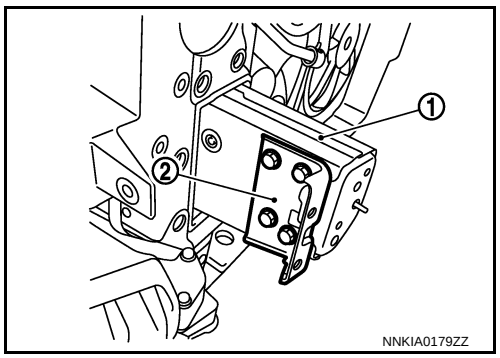
1. Discharge refrigerant. Refer to HA-27, "Collection and Charge".

2. Disengage the clips, and then remove the radiator cover.
3. Remove the front bumper fascia and the bumper reinforcement. Refer to EXT-15, "Removal and Installation".
4. Remove the dust duct side (LH/RH). Refer to EM-28, "Exploded View".
5. Remove the harness clip and hood lock cable clamp from the bumper fascia bracket.
6. Remove the hood lock cable clamp from the air intake duct assembly 1.
7. Disengage the connector of horns (HIGH/LOW). Refer to HRN-7, "Removal and Installation".
8. Disengage the hood lock switch connector of hood lock (LH).
9. Disconnect the ambient sensor connector. Refer to HAC-97, "Removal and Installation".
10. Remove the power steering oil cooler mounting bolt. Refer to ST-33, "Exploded View".
11. Remove the washer tank and the washer tank inlet. Refer to WW-92, "Exploded View".
12. Disconnect the air inlet hose, air inlet pipe, and recirculation hose from the charge air cooler assembly (bank 1 and bank 2). Refer to EM-30, "Exploded View".
13. Remove the mounting bolts (arrows shown in the figure) of charge air cooler assembly [bank 1: (1), bank 2: (2)] as shown in the figure.



14. Remove the mounting bolts of the hood lock (LH/RH).
15. Check that all connections of connector, hose, and pipe are disconnected from the air intake duct assembly.
16. Remove the mounting bolts, and then remove the air intake duct assembly.
17. Remove the hood lock (LH/RH) from the air intake duct assembly 1. Refer to DLK-245, "HOOD LOCK : Removal and Installation (GT-R certified NISSAN dealer)".
18. Disconnect the refrigerant pressure sensor connector. Refer to HAC-102, "Exploded View (GT-R certified NISSAN dealer)".
19. Remove the front combination lamp assembly (LH/RH). Refer to EXL-171, "Removal and Installation".
20. Remove the air inlet hose and the air inlet pipe assembly connected to the upper side of charge air cooler (bank 1 and bank 2). Refer to EM-30, "Exploded View".
21. Remove the power steering oil cooler. Refer to ST-33, "Exploded View".
22. Remove the engine oil cooler. Refer to LU-16, "Removal and Installation (GT-R certified NISSAN dealer)".
23. Remove the air cleaner. Refer to EM-28, "Exploded View".
24. Disconnect the high-pressure flexible hose and high-pressure pipe 1 from the condenser.
    - High-pressure flexible hose: Refer to HA-42, "HIGH-PRESSURE FLEXIBLE HOSE : Removal and Installation (GT-R certified NISSAN dealer)".
    - High-pressure pipe 1: Refer to HA-43, "HIGH-PRESSURE PIPE 1 : Removal and Installation (GT-R certified NISSAN dealer)".
25. Drain the coolant from the radiator. Refer to CO-10, "Draining".
26. Remove the coolant reservoir tank. Refer to CO-15, "Exploded View (GT-R certified NISSAN dealer)".
27. Remove the front side mounting bolts of engine undercover. Refer to EXT-39, "ENGINE UNDER COVER : Removal and Installation".
28. Remove the power steering fluid reservoir tank. Refer to ST-33, "Exploded View".
29. Disengage the joint of power steering fluid pipe and radiator core support assembly at the radiator core support side.
30. Disconnect the cooling fan connector.
31. Disconnect the crash zone sensor harness connector.

32. Remove the mounting bolts, and then remove the hood lock bracket (LH/RH).
33. Remove the radiator & condenser assembly. Refer to CO-15, "Removal and Installation (GT-R certified NISSAN dealer)".
34. Remove the mounting bolts, and then remove the stay (LH/RH) (2) that is next to the side member (1).



35. Disconnect all harness clamp from the radiator core support assembly.
36. Check that all connections of connector, hose, and pipe are disconnected from the radiator core support assembly.
37. Remove the mounting bolts, and then remove the radiator core support assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Never reuse the bolts connecting the front strut housing with the radiator core support. Use a genuine part.**
- **Tighten to the specified torque.**
- **Refill the following parts after installation.**
- **Refrigerant: Refer to HA-27, "Collection and Charge".**
- **Power steering fluid: Refer to ST-9, "Inspection".**
- **Engine oil: Refer to LU-11, "Refilling".**
- **Engine coolant: Refer to CO-10, "Refilling".**
- **Perform aiming adjustment of front combination lamp after installation. Refer to EXL-168, "Aiming Adjustment Procedure".**

Disassembly and assembly (GT-R certified NISSAN dealer)

INFOID:0000000011487094

RADIATOR CORE SUPPORT ASSEMBLY

Disassembly

1. Remove the crash zone sensor. Refer to SR-21, "Removal and Installation".
2. Remove the cooling fan (LH/RH), cooling fan control module, fan motor, and fan motor cover. Refer to CO-19, "Removal and Installation (GT-R certified NISSAN dealer)".
3. Remove all flaps.

Assembly

Assemble in the reverse order of disassembly.

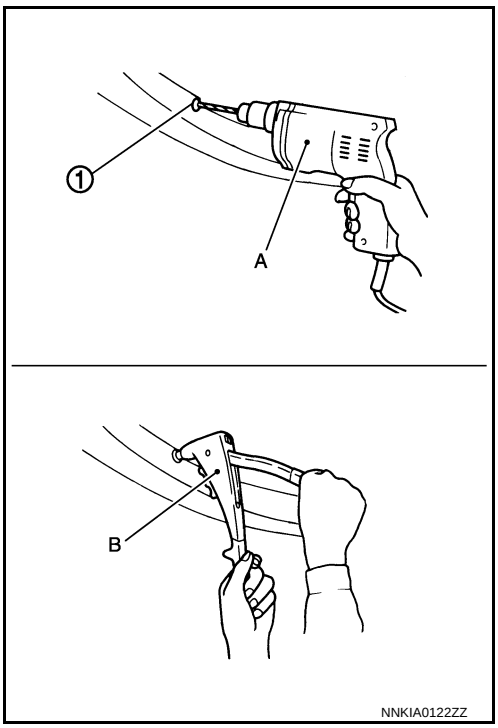
AIR INTAKE DUCT ASSEMBLY

Disassembly

1. Remove the rivets, and then remove the air intake duct assembly 2.
   NOTE:
   Removal and installation of rivet

- Grind the head of rivet (1) with a drill (A) (blade of ϕ4.0 - 4.5 mm), and then remove the air intake duct 2.
- Securely crimp it with the air intake duct 2 using a hand riveter (B).

Air intake duct	
Crimping thickness	**: 0.5 – 6.4 mm (0.020 – 0.252 in)**
Prepared hole diameter	**: ϕ 5.1**



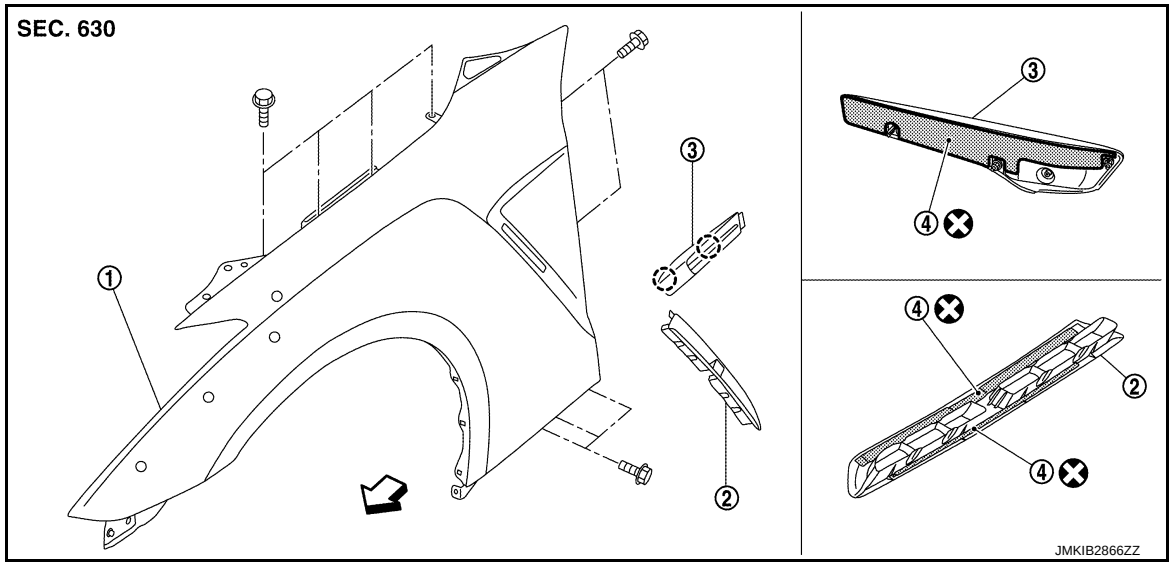
2. Remove the charge air cooler. Refer to EM-31, "Removal and Installation".
3. Remove the mounting bolts, and then remove the bumper fascia bracket.
4. Remove the horn (HIGH/LOW). Refer to HRN-7, "Removal and Installation".
5. Remove the ambient sensor. Refer to HAC-97, "Removal and Installation".
6. Remove the clips and mounting bolts, and then remove the air guide bracket.

Assembly
Assemble in the reverse order of disassembly.

FRONT FENDER

Exploded View

INFOID:0000000011487095



1. Front fender
2. Front fender duct
3. Front fender finisher
4. Double-faced adhesive tape [t: 0.8 mm (0.031 in)]

: Clip

: Vehicle front

Refer to GI-4, "Components" for the symbol shown in the figure.

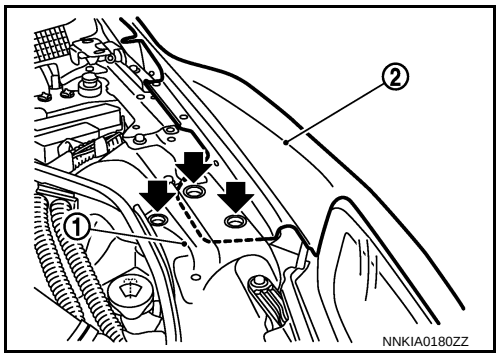
Removal and Installation

INFOID:0000000011487096

CAUTION:
Use protective tape or shop cloth to protect from damage during removal and installation.

REMOVAL

1. Remove the front bumper fascia. Refer to EXT-15, "Removal and Installation".
2. Remove the front combination lamp. Refer to EXL-171, "Removal and Installation".
3. Remove the fender protector. Refer to DLK-225, "Removal and Installation".
4. Remove the center mudguard. Refer to EXT-36, "Removal and Installation".
5. Remove the mounting bolt of radiator core support assembly (1) indicated by the arrows in the figure.
6. Remove the mounting bolts, and then remove the front fender (2).
   NOTE:
   Pull out and remove the front fender under the radiator core support because the part of front fender front end overlaps with the radiator core support assembly.
   CAUTION:
   A viscous urethane foam is installed on the back surface of front fender. When removing the front fender, be careful to not deform the front fender while performing the procedure and removing the viscous urethane foam a little at a time.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

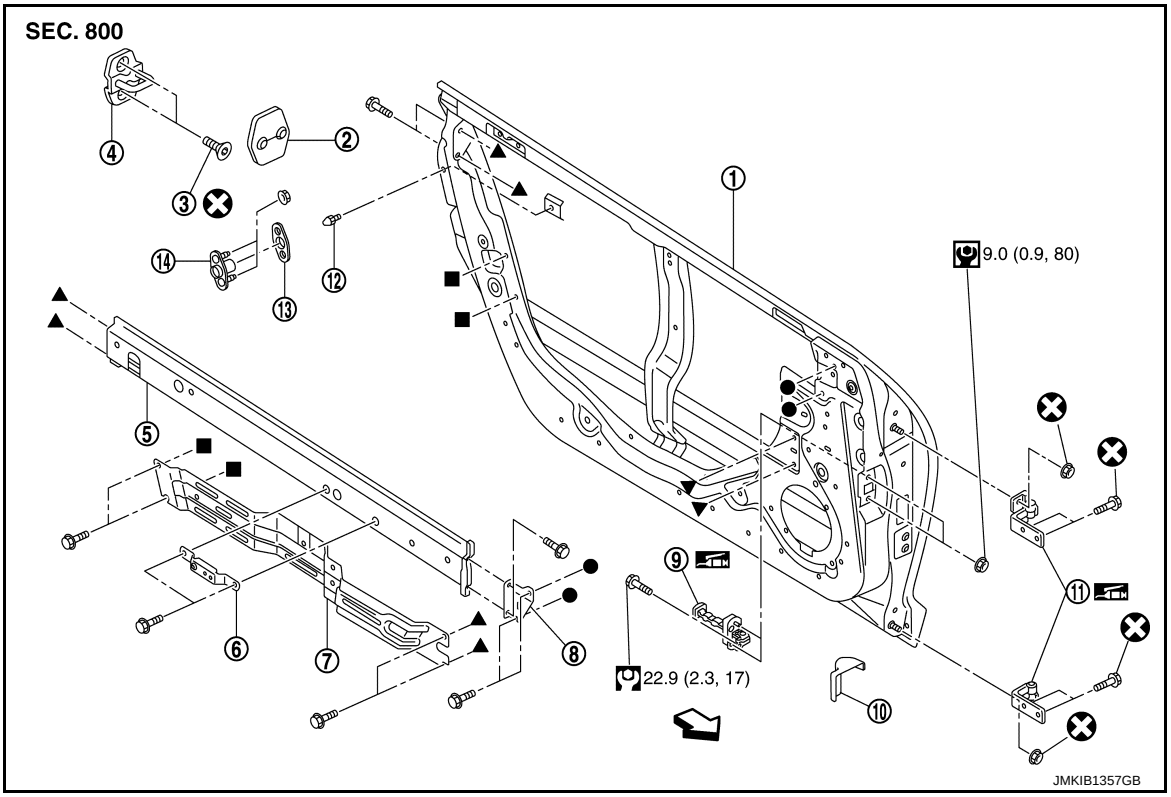
- **Temporarily tighten each bolt, and then move and adjust the front fender so that the adjustment value of hood and door is within the specified value. Refer to DLK-215, "HOOD ASSEMBLY : Adjustment" and DLK-228, "DOOR ASSEMBLY : Adjustment".**
- **Apply anticorrosive agent onto the mounting surface.**
- **After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.**

DOOR

DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:0000000011487097



1. Door panel
2. Door striker cover
3. TORX bolt
4. Door striker
5. Door inner west reinforcement
6. Door grip bracket
7. Door module assembly
8. Bracket
9. Check link
10. Check link cover
11. Door hinge
12. Dovetail male
13. Dovetail female cover
14. Dovetail female

⇦ : Vehicle front

Refer to GI-4, "Components" for the symbols shown in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:0000000011487098

CAUTION:
- **Operate with two workers, because of its heavy weight.**
- **Support door with a jack and use protective tape or shop cloth to protect from damage during removal and installation.**

REMOVAL

1. Disconnect the door harness connector.
2. Remove the door check link mounting bolts (body side).
3. Remove the door hinge mounting nuts (door side), and then remove the door assembly.

INSTALLATION

Install in the reverse order of removal.

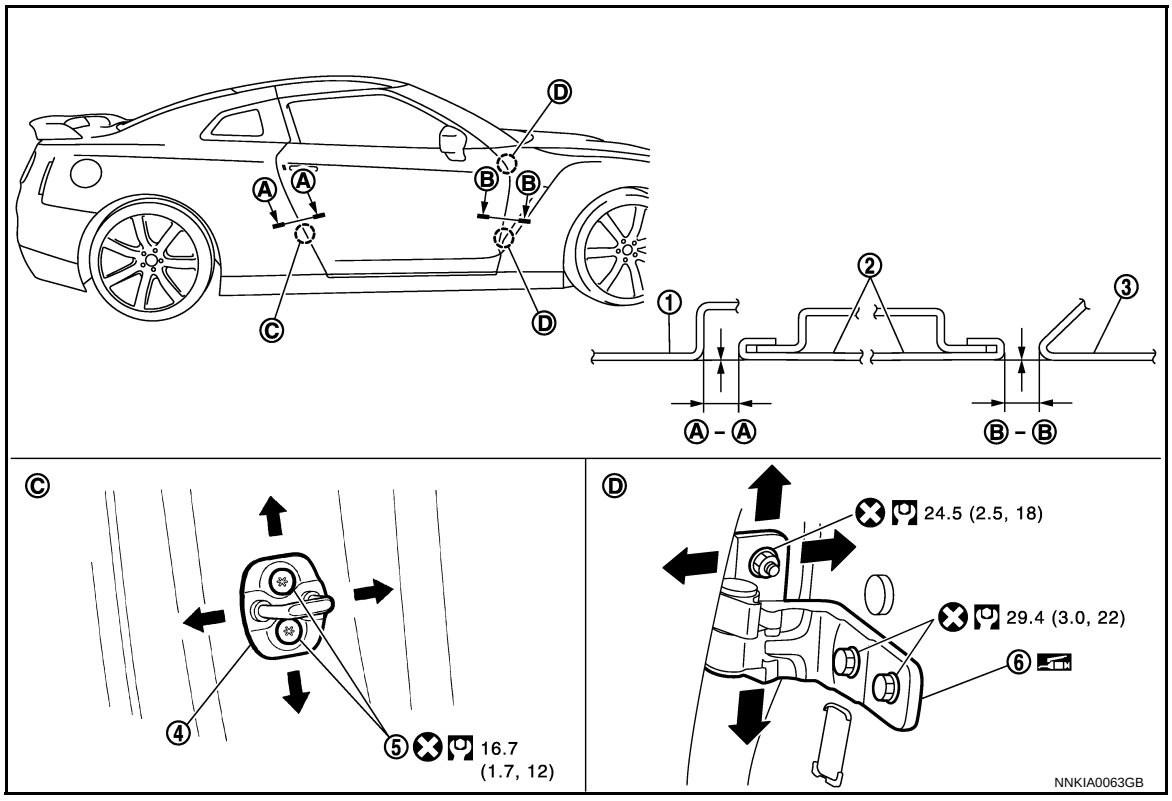
CAUTION:
- **Never reuse bolts and nuts connecting the door hinge with the door striker. Use the specified bolts and nuts when installing.**
- **Apply anticorrosive agent onto the mounting surface.**

- **After installation, perform the fitting adjustment. Refer to DLK-228, "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:0000000011487099

ADJUSTMENT



1. Rear fender
2. Door panel
3. Front fender
4. Door striker
5. TORX bolt
6. Door hinge

Refer to GI-4, "Components" for the symbols shown in the figure.

Check both visually and by touch that the clearance and surface height difference of the door panel and each part are within the specified value. If they are out of the specified value, adjust them as per the following procedures.

Location			Standard
Rear fender and door panel	A – A	Clearance	3.0 – 5.0 mm (0.118 – 0.197 in)
		Surface height	-0.5 – 1.0 mm (-0.020 – 0.039 in)
Door panel and front fender	B – B	Clearance	3.0 – 5.0 mm (0.118 – 0.197 in)
		Surface height	-1.0 – 1.0 mm (-0.039 – 0.039 in)

1. Remove the front fender. Refer to DLK-225, "Removal and Installation".
2. Loosen the door hinge mounting bolts (door side).
3. Adjust the surface height difference within the specified value as shown in the table, while moving the door.
4. Tighten the door hinge mounting bolts (door side).
5. Loosen the door hinge mounting bolts (body side).
6. Adjust the clearance within the specified value as shown in the table, while moving the door rear end up or down.

7. Tighten the door hinge mounting nuts and bolts to the specified torque after adjustment.
   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, lock/unlock operation.**
8. Install the front fender. Refer to DLK-225, "Removal and Installation".
   CAUTION:
   After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.

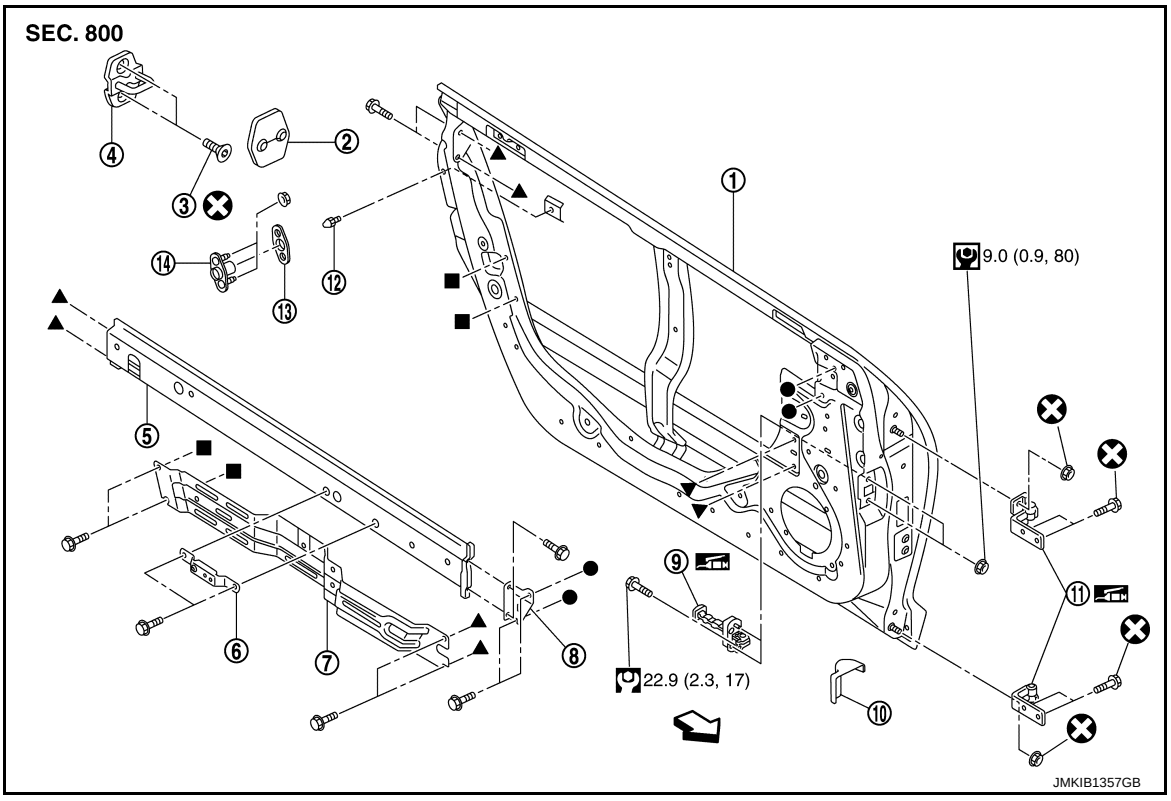
STRIKER ADJUSTMENT

Adjust the striker until it is parallel to the lock engagement direction.

DOOR STRIKER

DOOR STRIKER : Exploded View

INFOID:0000000011487100



1. Door panel	2. Door striker cover	3. TORX bolt
4. Door striker	5. Door inner west reinforcement	6. Door grip bracket
7. Door module assembly	8. Bracket	9. Check link
10. Check link cover	11. Door hinge	12. Dovetail male
13. Dovetail female cover	14. Dovetail female	

⇦ : Vehicle front

Refer to GI-4, "Components" for the symbols shown in the figure.

DOOR STRIKER : Removal and Installation

INFOID:0000000011487101

REMOVAL

1. Remove the door striker cover with remover tool.
2. Remove the TORX bolts, and then remove the door striker.

INSTALLATION

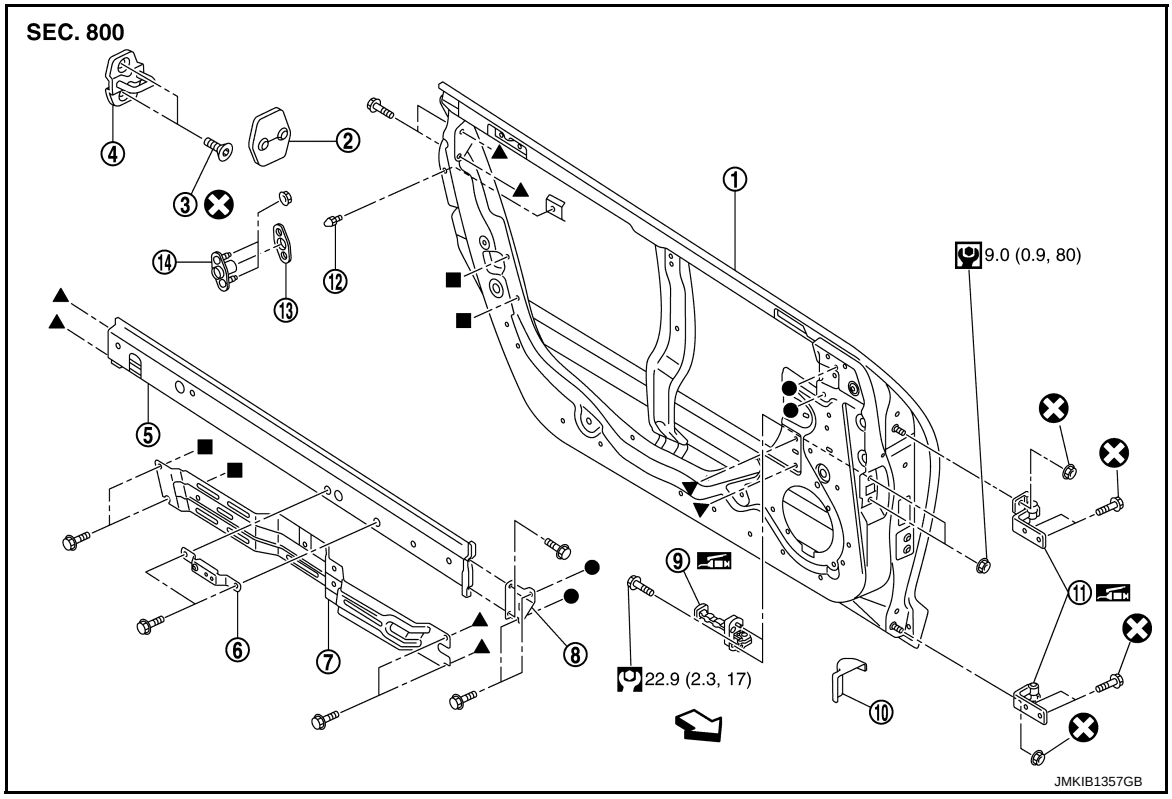
Install in the reverse order of removal.

CAUTION:
- **After installation, check door open/close, lock/unlock operation.**
- **After installation, perform the fitting adjustment. Refer to DLK-228, "DOOR ASSEMBLY : Adjustment".**

DOOR HINGE

DOOR HINGE : Exploded View

INFOID:0000000011487102



1. Door panel	2. Door striker cover	3. TORX bolt
4. Door striker	5. Door inner west reinforcement	6. Door grip bracket
7. Door module assembly	8. Bracket	9. Check link
10. Check link cover	11. Door hinge	12. Dovetail male
13. Dovetail female cover	14. Dovetail female	

⇦ : Vehicle front

Refer to GI-4, "Components" for the symbols shown in the figure.

DOOR HINGE : Removal and Installation

INFOID:0000000011487103

CAUTION:
- **Operate with two workers, because of its heavy weight.**
- **Support door with a jack and use protective tape or shop cloth to protect from damage during removal and installation.**

REMOVAL

1. Remove the door assembly. Refer to DLK-227, "DOOR ASSEMBLY : Removal and Installation".
2. Remove the front fender. Refer to DLK-225, "Removal and Installation".
3. Remove the door hinge mounting bolts (body side), and then remove the door hinge.

INSTALLATION

Install in the reverse order of removal.

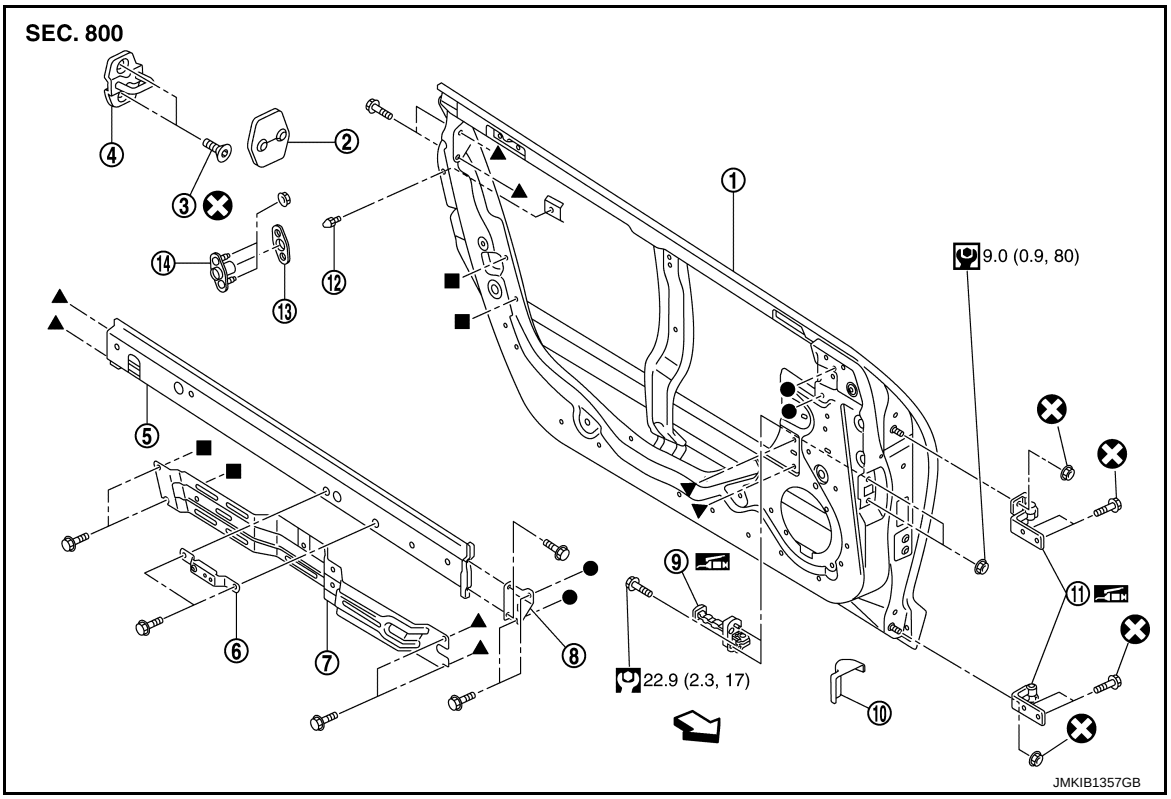
CAUTION:

- **Never reuse bolts and nuts connecting the door hinge with the door striker. Use the specified bolts and nuts when installing.**
- **Apply anticorrosive agent onto the mounting surface.**
- **After installation, perform the fitting adjustment. Refer to DLK-228, "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:0000000011487104



1. Door panel	2. Door striker cover	3. TORX bolt
4. Door striker	5. Door inner west reinforcement	6. Door grip bracket
7. Door module assembly	8. Bracket	9. Check link
10. Check link cover	11. Door hinge	12. Dovetail male
13. Dovetail female cover	14. Dovetail female	

⇦ : Vehicle front

Refer to GI-4, "Components" for the symbols shown in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:0000000011487105

REMOVAL

1. Remove the door finisher. Refer to INT-12, "Removal and Installation".
2. Fully close the door window.
3. Remove the door speaker.
4. Remove check link cover.
5. Remove the door check link (body side) mounting bolts.
6. Remove the driver side mounting bolts of door check link, and then remove the door check link from the inside of the door panel.
   CAUTION:

Never damage the door window with the door check link.

INSTALLATION

Install in the reverse order of removal.

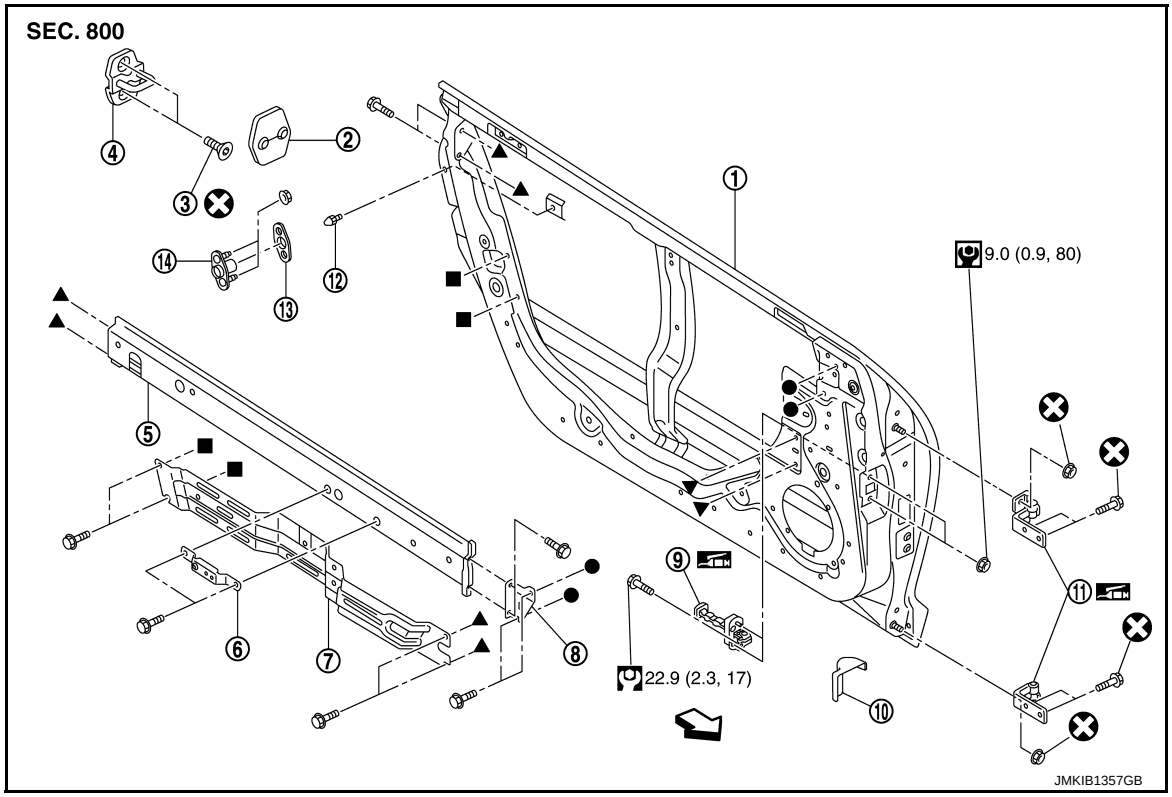
CAUTION:

- **Apply anticorrosive agent onto the mounting surface.**
- **After installation, check door open/close operation.**

DOVETAIL

DOVETAIL : Exploded View

INFOID:0000000011487106



1. Door panel
2. Door striker cover
3. TORX bolt
4. Door striker
5. Door inner west reinforcement
6. Door grip bracket
7. Door module assembly
8. Bracket
9. Check link
10. Check link cover
11. Door hinge
12. Dovetail male
13. Dovetail female cover
14. Dovetail female

⇦ : Vehicle front

Refer to GI-4, "Components" for the symbols shown in the figure.

DOVETAIL : Removal and Installation

INFOID:0000000011487107

REMOVAL

Dovetail Male

1. Remove the door inner west reinforcement. Refer to DLK-227, "DOOR ASSEMBLY : Exploded View".
2. Fix the nut in the door panel using tools, and then rotate the dovetail male to remove.
   CAUTION:
   Never drop the nuts in the door panel.

Dovetail Female

1. Remove the dovetail female cover.

2. Remove the rear side finisher. Refer to INT-15, "Removal and Installation".
3. Remove the mounting bolts, and then remove the dovetail female.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

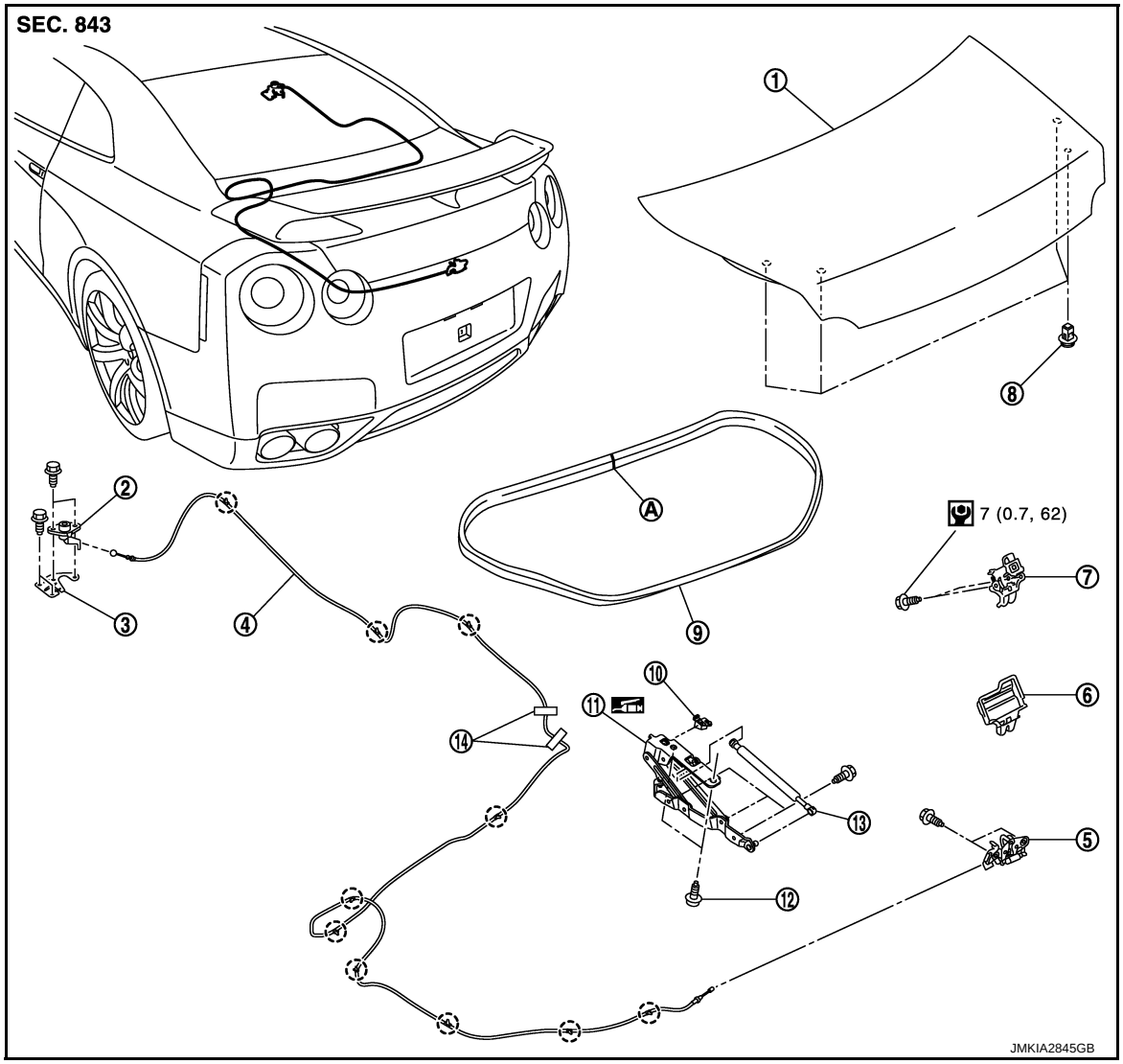
- **Be careful about the direction of the dovetail male mounting nut.**
- **Check the engagement between dovetail female and dovetail male for noise or looseness when closing the door.**

TRUNK LID

TRUNK LID ASSEMBLY

TRUNK LID ASSEMBLY : Exploded View

INFOID:0000000011487108



1. Trunk lid assembly
2. Trunk lid key cylinder
3. Trunk lid cylinder bracket
4. Trunk lid lock control cable
5. Trunk lid striker
6. Trunk lid lock cover
7. Trunk lid lock assembly
8. Bumper rubber
9. Trunk lid weather-strip
10. Trunk lid hinge stopper
11. Trunk lid hinge
12. TORX bolt
13. Trunk lid stay
14. Protector harness

A. Vehicle center mark

: Clip

Refer to GI-4, "Components" for the symbols shown in the figure.

CAUTION:

Bumper rubber installed to carbon trunk lid cannot be re-used. When bumper rubber is removed, be sure to replace it with a new one.

TRUNK LID ASSEMBLY : Removal and Installation

INFOID:0000000011487109

CAUTION:

- **Never apply any chemical products like wax, coating agent, and compound for carbon parts. They are produced by composite manufacturing methods similar to a racing vehicle and special paint is adopted to enhance the look and feel of materials. (Otherwise, water may penetrate to carbon layers and may cause corrosion.)**
- **Never place any carbon parts directly on the ground. Always protect them using a soft sheet during removal, installation, and replacement operations.**
- **Never touch carbon parts with oily hands or allow oil or grease to get on them.**
- **Operate with two workers, because of its heavy weight.**
- **Use protective tape or shop cloth to protect from damage during removal and installation.**

REMOVAL

1. Remove the trunk lid finisher inner. Refer to INT-29, "Removal and Installation".
2. Disconnect the clamp of each harness connector in trunk lid, remove the grommet, and then pull out the harness form the trunk lid.
3. Place a supporting block on the trunk lid striker to prevent it from dropping.

   WARNING:
   Bodily injury may occur if no supporting rod is holding the trunk lid open when removing the trunk lid stay.
4. Remove the metal clip from the trunk lid side stud ball of trunk lid stay using a screwdriver.
5. Disengage the trunk lid side joint of trunk lid stay (LH/RH) and stud ball.
6. Remove the TORX bolt (trunk lid side) of trunk lid hinge (LH/RH).
7. Remove the trunk lid assembly.

INSTALLATION

Install in the reverse order of removal.

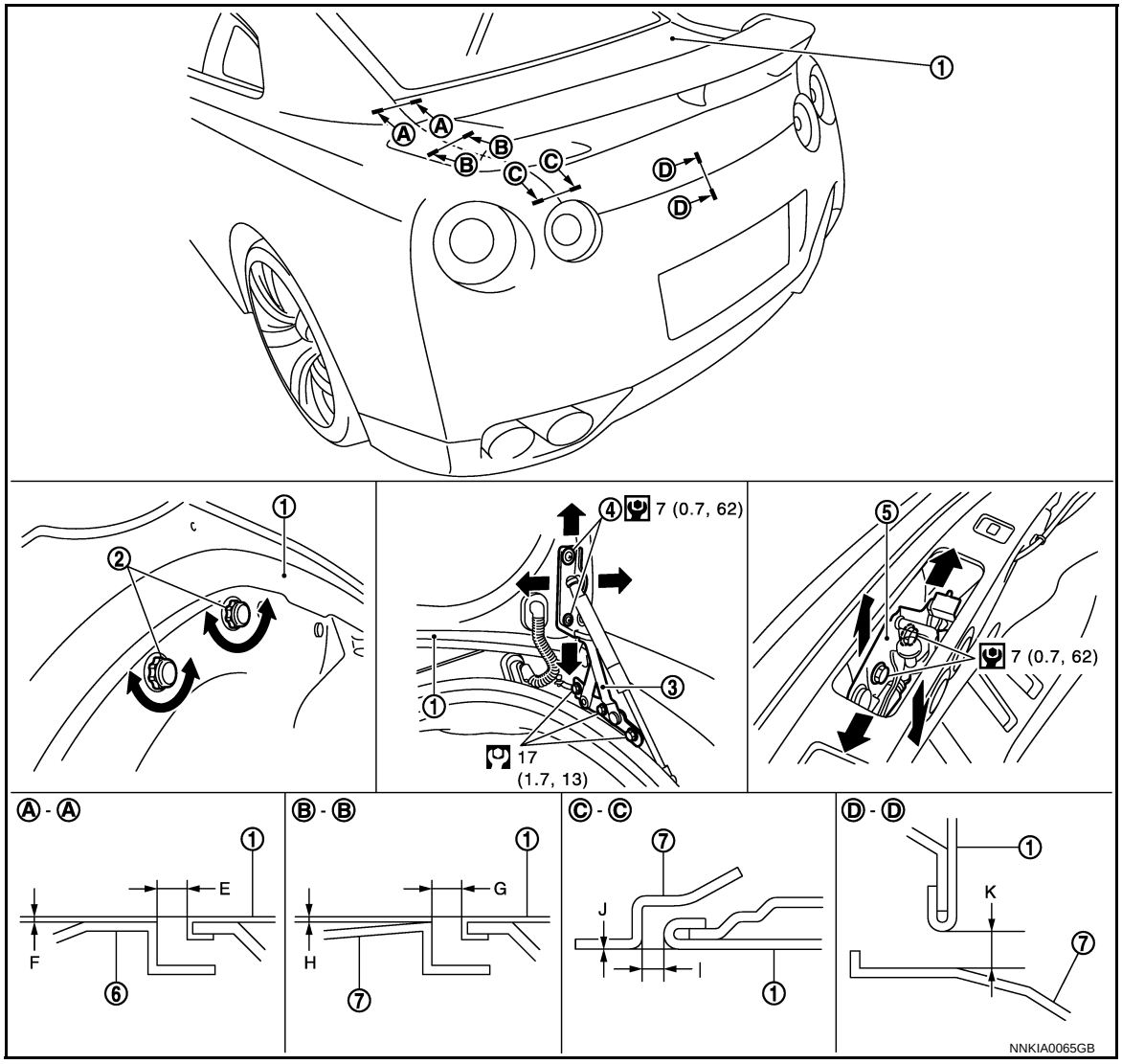
CAUTION:

- **Apply anticorrosive agent onto the mounting surface.**
- **Check trunk lid hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, check trunk lid open/close, lock/unlock operation.**
- **After installation, perform the fitting adjustment. Refer to DLK-235, "TRUNK LID ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of trunk lid hinge mounting bolts and nuts.**

TRUNK LID ASSEMBLY : Adjustment

INFOID:0000000011487110

ADJUSTMENT



1. Trunk lid panel
2. Bumper rubber
3. Trunk lid hinge
4. TORX bolt
5. Trunk lid striker
6. Rear fender
7. Rear bumper fascia

Refer to GI-4, "Components" for the symbols shown in the figure.

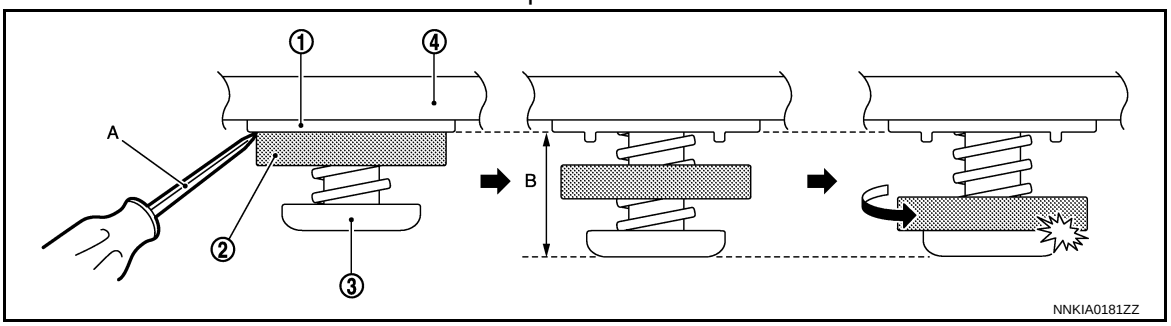
CAUTION:

- **Never apply any chemical products like wax, coating agent, and compound for carbon parts. They are produced by composite manufacturing methods similar to a racing vehicle and special paint is adopted to enhance the look and feel of materials. (Otherwise, water may penetrate to carbon layers and may cause corrosion.)**
- **Never place any carbon parts directly on the ground. Always protect them using a soft sheet during removal, installation, and replacement operations.**
- **Never touch carbon parts with oily hands or allow oil or grease to get on them.**

Check both visually and by touch that the clearance and surface height difference between trunk lid panel and each part are with in the specified value. If they are out of the specified value, adjust them as per the following procedures.

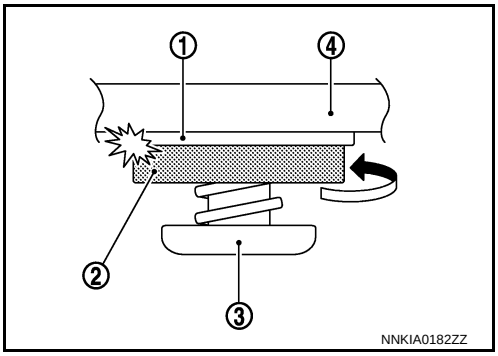
Location				Standard	Difference (LH/RH, MAX)
Trunk lid panel – rear fender	A – A	E	Clearance	2.5 – 4.5 mm (0.098 – 0.177 in)	1.5 mm (0.059)
		F	Surface height	-1.0 – 1.0 mm (-0.039 – 0.039 in)	1.5 mm (0.059)
Trunk lid panel – rear bumper fascia	B – B	G	Clearance	2.0 – 6.0 mm (0.079 – 0.236 in)	2.5 mm (0.098 in)
		H	Surface height	-1.5 – 0.5 mm (-0.059 – 0.020)	2.0 mm (0.079 in)
Trunk lid panel – rear bumper	C – C	I	Clearance	2.5 – 6.5 mm (0.098 – 0.256)	—
		J	Surface height	-1.9 – 1.9 mm (-0.075 – 0.075 in)	—
	D – D	K	Clearance	4.0 – 8.0 mm (0.157 – 0.315 in)	—

1. Loosen the trunk lid striker mounting bolt, and then adjust the values of E and G on the table to within the specified value.
2. Lift up the trunk lid assembly to 100 – 150 mm (3.937 – 5.906 in) and close.
3. Check for noise when engaging trunk lid lock and trunk lid striker.
4. Check that the trunk lid assembly is within the specified value as shown in the table.
5. Loosen the mounting bolt of trunk lid striker, adjust the position, and then repeat steps 3 and 4 if necessary.
6. Tighten the mounting bolts of trunk lid striker and trunk lid hinge to the specified torque after adjustment.
7. Initialize the height of bumper rubber.
   - Insert screwdriver (A) wrapped with the protective tape between the body (1) and the collar (2), and then pull out the bumper rubber (3) from the trunk lid (4).
   - Rotate the collar and contact it with the bumper rubber.



8. Close the trunk lid by pushing with hands.
   NOTE:
   The bumper rubber is pressed to the vehicle body side, and it is compressed in the trunk lid.
   CAUTION:
   - **Close the trunk lid gently because the bumper rubber is compressed excessively by slamming the trunk lid.**
   - **If the bumper rubber is compressed excessively, initialize the height of bumper rubber, and then repeat the procedure again.**

9. Open the trunk lid, and then engage it with the body by rotating the collar.
CAUTION:
Check the collar for looseness.



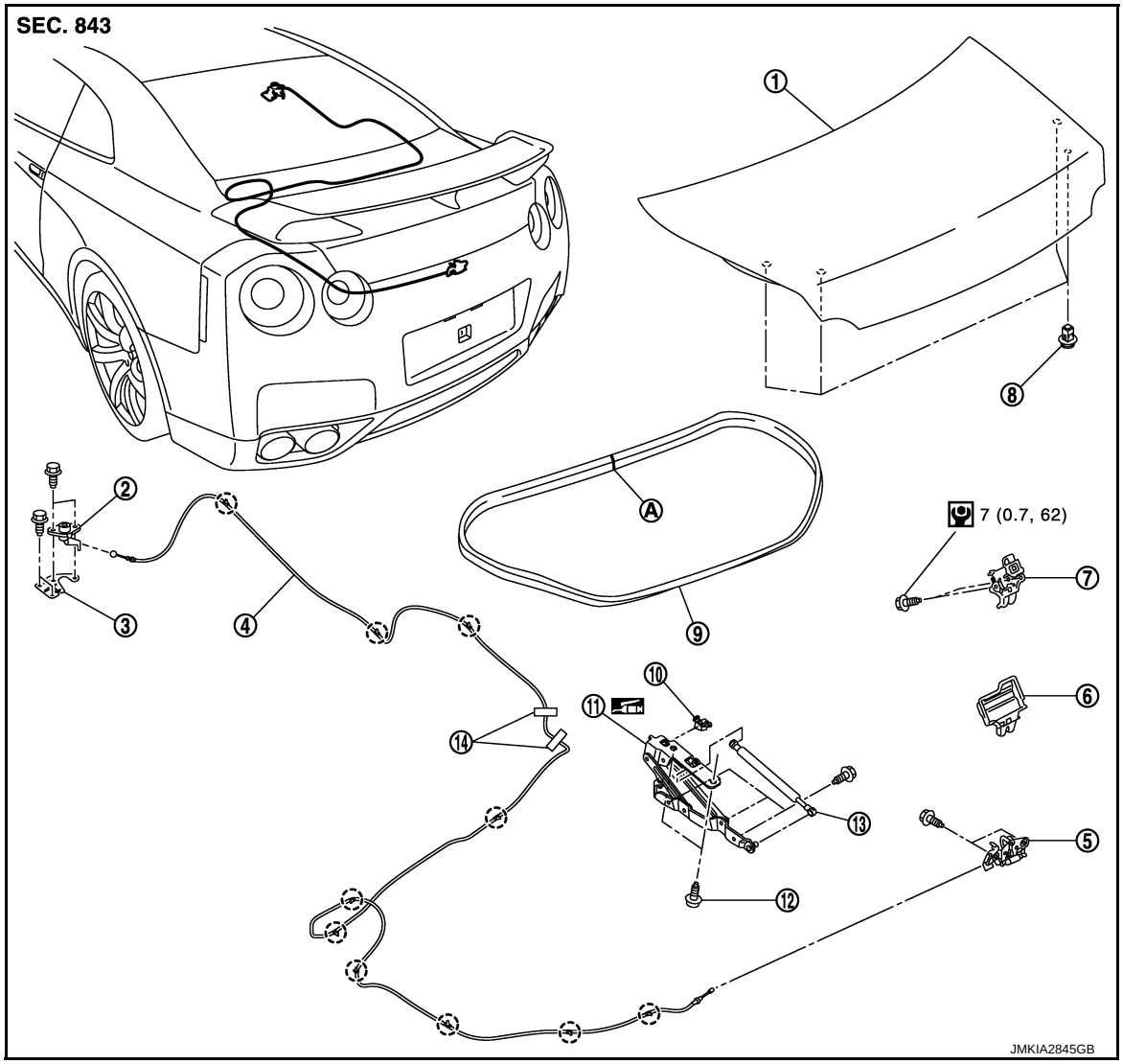
(1) : Body
(2) : Collar
(3) : Bumper rubber
(4) : Trunk lid

CAUTION:
- **Apply anticorrosive agent onto the mounting surface.**
- **After installation, check trunk lid open/close, lock/unlock operation.**
- **After installation, apply touch-up paint (the body color) onto the head of trunk lid hinge mounting bolts and nuts.**

TRUNK LID STRIKER

TRUNK LID STRIKER : Exploded View

INFOID:0000000011487111



1. Trunk lid assembly
2. Trunk lid key cylinder
3. Trunk lid cylinder bracket
4. Trunk lid lock control cable
5. Trunk lid striker
6. Trunk lid lock cover
7. Trunk lid lock assembly
8. Bumper rubber
9. Trunk lid weather-strip
10. Trunk lid hinge stopper
11. Trunk lid hinge
12. TORX bolt
13. Trunk lid stay
14. Protector harness

A. Vehicle center mark

: Clip

Refer to GI-4, "Components" for the symbols shown in the figure.

CAUTION:
Bumper rubber installed to carbon trunk lid cannot be re-used. When bumper rubber is removed, be sure to replace it with a new one.

TRUNK LID STRIKER : Removal and Installation

INFOID:0000000011487112

REMOVAL

1. Remove the trunk rear finisher. Refer to INT-29, "Removal and Installation".
2. Remove the mounting bolts, and then remove the trunk lid striker.

INSTALLATION

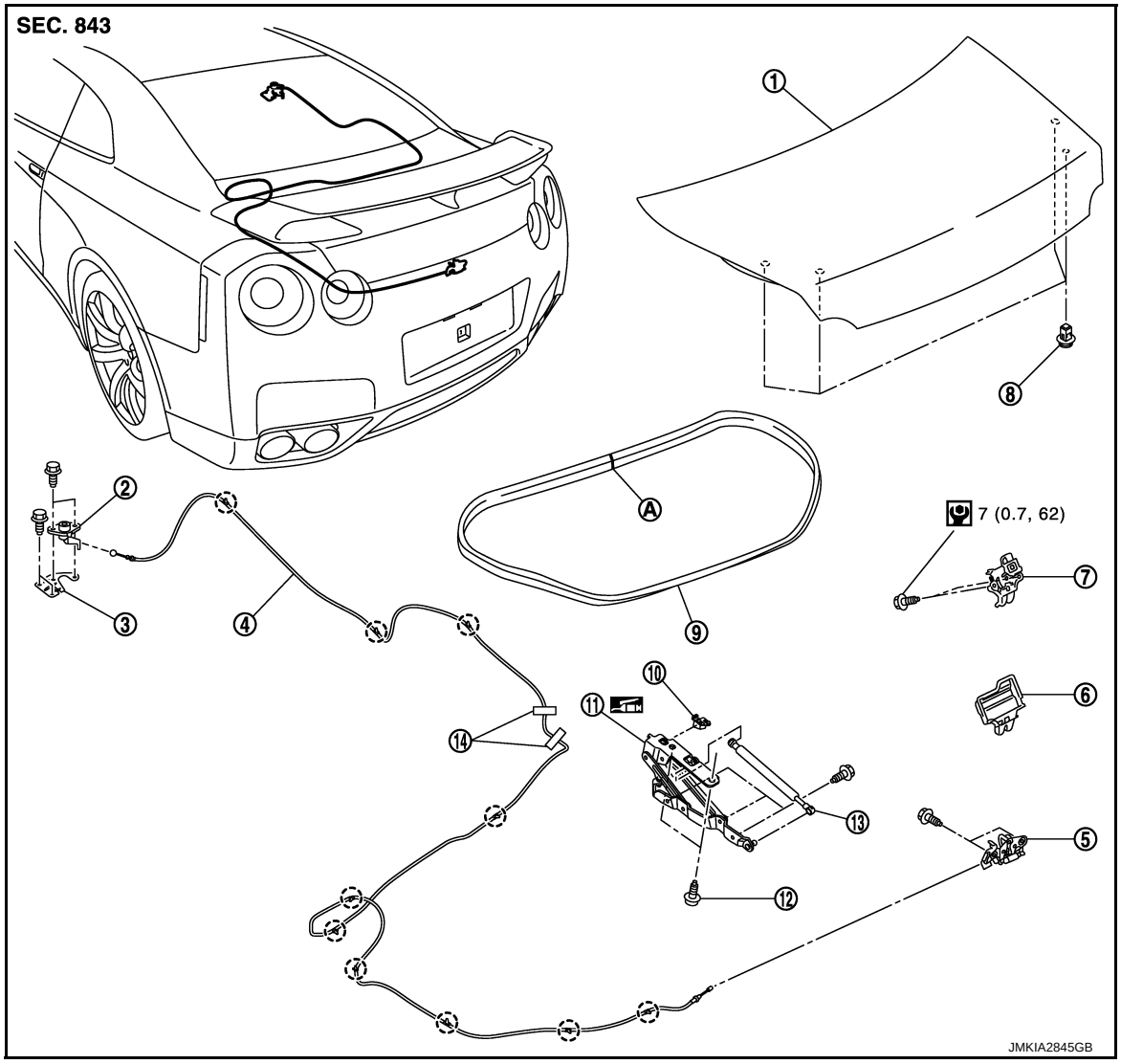
Note the following, and install in the reverse order of removal.

CAUTION:
- **Apply anticorrosive agent onto the mounting surface.**
- **After installation, perform the fitting adjustment. Refer to DLK-235, "TRUNK LID ASSEMBLY : Adjustment".**
- **After installation, check trunk lid open/close, lock/unlock operation.**

TRUNK LID HINGE

TRUNK LID HINGE : Exploded View

INFOID:0000000011487113



1. Trunk lid assembly
2. Trunk lid key cylinder
3. Trunk lid cylinder bracket
4. Trunk lid lock control cable
5. Trunk lid striker
6. Trunk lid lock cover
7. Trunk lid lock assembly
8. Bumper rubber
9. Trunk lid weather-strip
10. Trunk lid hinge stopper
11. Trunk lid hinge
12. TORX bolt
13. Trunk lid stay
14. Protector harness

A. Vehicle center mark

: Clip

Refer to GI-4, "Components" for the symbols shown in the figure.

CAUTION:

Bumper rubber installed to carbon trunk lid cannot be re-used. When bumper rubber is removed, be sure to replace it with a new one.

TRUNK LID HINGE : Removal and Installation

INFOID:0000000011487114

CAUTION:

- **Never apply any chemical products like wax, coating agent, and compound for carbon parts. They are produced by composite manufacturing methods similar to a racing vehicle and special paint is adopted to enhance the look and feel of materials. (Otherwise, water may penetrate to carbon layers and may cause corrosion.)**

- **Never place any carbon parts directly on the ground. Always protect them using a soft sheet during removal, installation, and replacement operations.**
- **Never touch carbon parts with oily hands or allow oil or grease to get on them.**

REMOVAL

1. Remove the trunk lid assembly. Refer to DLK-234, "TRUNK LID ASSEMBLY : Removal and Installation".
2. Remove the trunk lid stay. Refer to DLK-242, "TRUNK LID STAY : Removal and Installation".
3. Remove the trunk lid hinge mounting bolts (body side), and then remove the trunk lid hinge.

INSTALLATION

Install in the reverse order of removal.

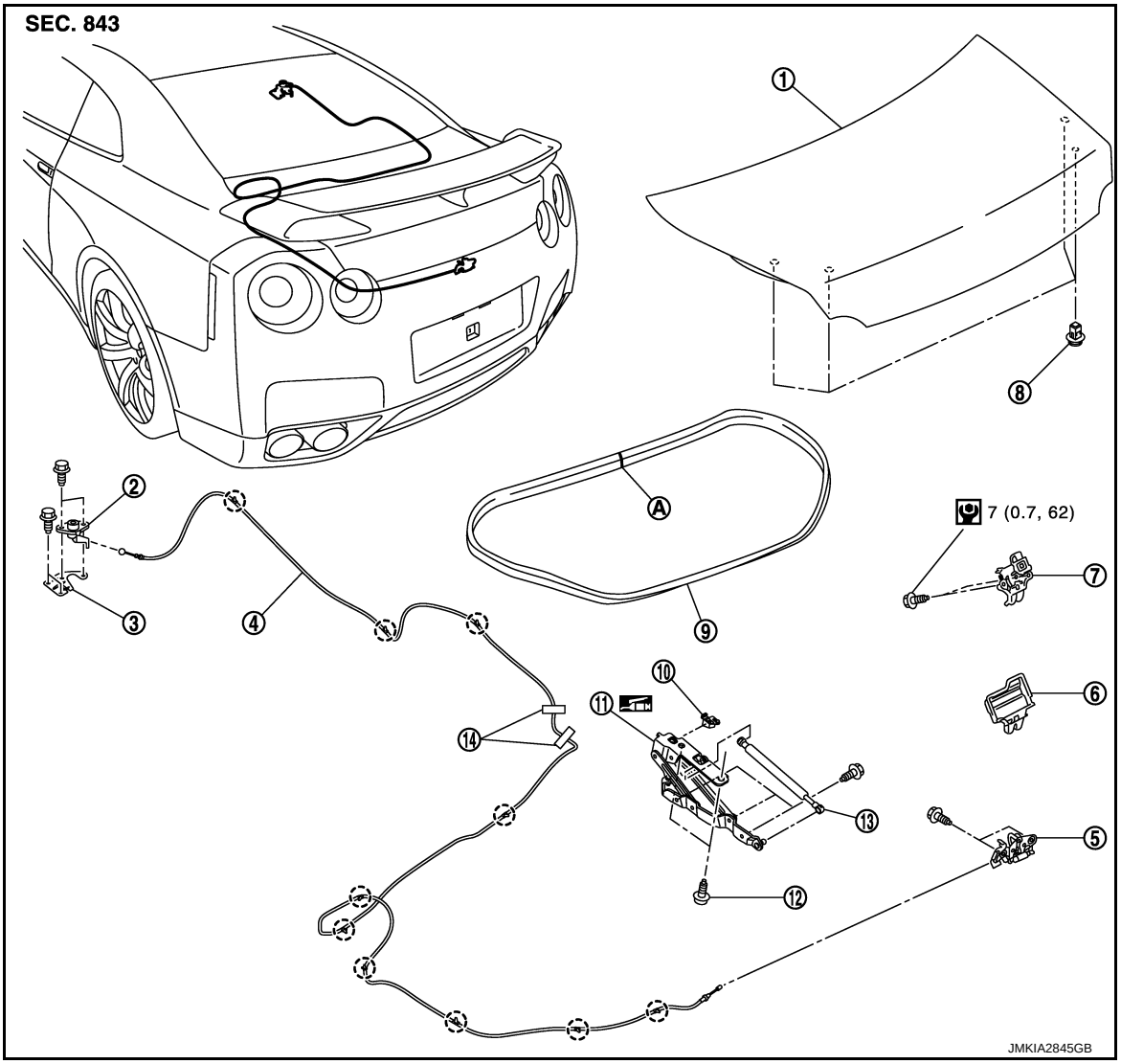
CAUTION:

- **Apply anticorrosive agent onto the mounting surface.**
- **Check trunk lid hinge rotating part for poor lubrication. If necessary, apply body grease.**
- **After installation, check trunk lid open/close, lock/unlock operation.**
- **After installation, perform the fitting adjustment. Refer to DLK-235, "TRUNK LID ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of trunk lid hinge mounting bolts and nuts.**

TRUNK LID STAY

TRUNK LID STAY : Exploded View

INFOID:0000000011487115



1. Trunk lid assembly
2. Trunk lid key cylinder
3. Trunk lid cylinder bracket
4. Trunk lid lock control cable
5. Trunk lid striker
6. Trunk lid lock cover
7. Trunk lid lock assembly
8. Bumper rubber
9. Trunk lid weather-strip
10. Trunk lid hinge stopper
11. Trunk lid hinge
12. TORX bolt
13. Trunk lid stay
14. Protector harness

A. Vehicle center mark

: Clip

Refer to GI-4, "Components" for the symbols shown in the figure.

CAUTION:
Bumper rubber installed to carbon trunk lid cannot be re-used. When bumper rubber is removed, be sure to replace it with a new one.

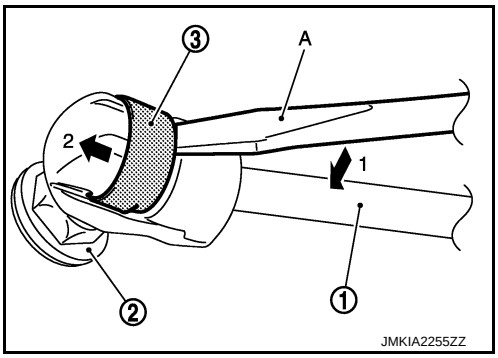
TRUNK LID STAY : Removal and Installation

INFOID:0000000011487116

WARNING:
Bodily injury may occur if no supporting rod is holding the trunk lid open when removing the trunk lid stay.
CAUTION:
Use protective tape or shop cloth to protect from damage during removal and installation.

REMOVAL

1. Remove the metal clip (3) from the trunk lid side stud ball (2) of trunk lid stay (1) using a screwdriver (A).
2. Disengage the trunk lid side joint of trunk lid stay and stud ball.
3. Disengage the vehicle body side joint of trunk lid stay as well. Remove the trunk lid stay.



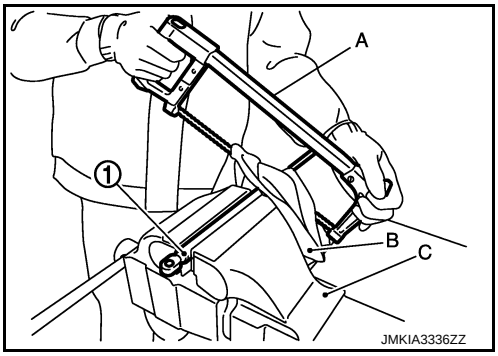
INSTALLATION

Install in the reverse order of removal.
CAUTION:
After installation, check trunk lid open/close operation.

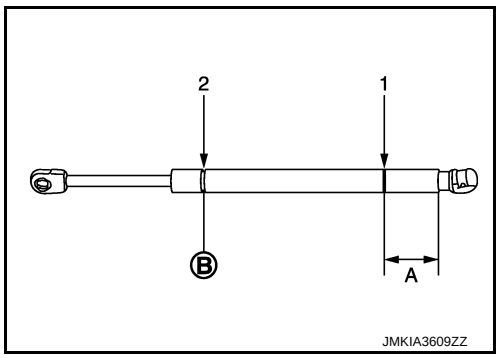
TRUNK LID STAY : Disposal

INFOID:0000000011487117

1. Fix trunk lid stay (1) using a vise (C).
2. Using hacksaw (A) slowly make 2 holes in the trunk lid stay, in numerical order as shown in the figure.
   CAUTION:
   - **When cutting a hole on trunk lid stay, always cover a hacksaw using a shop cloth (B) to avoid scattering metal fragments or oil.**
   - **Wear eye protection (safety glasses).**
   - **Wear gloves.**



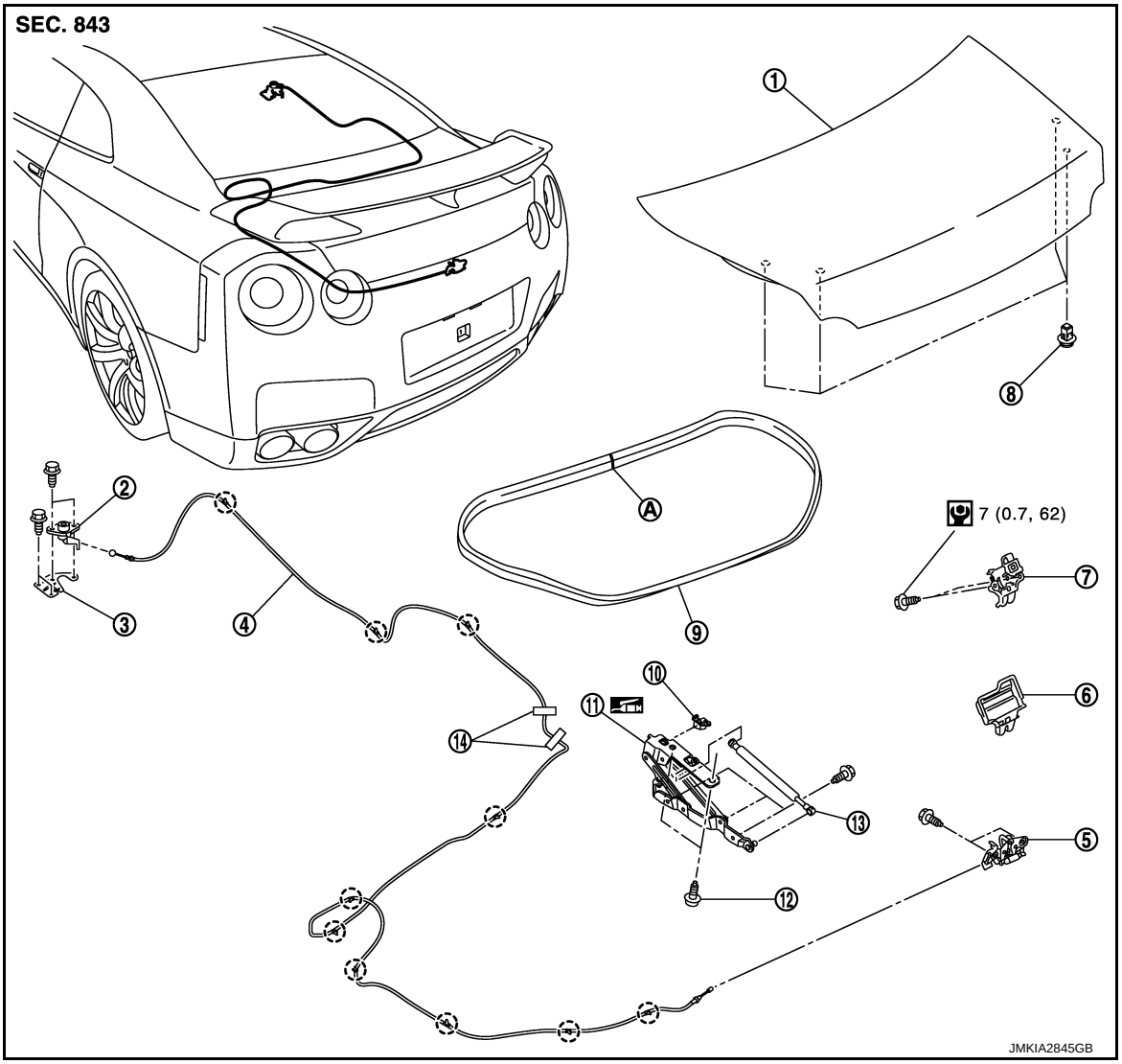
A: 20 mm (0.787 in)
B: Cut at the groove.



TRUNK LID WEATHER-STRIP

TRUNK LID WEATHER-STRIP : Exploded View

INFOID:0000000011487118



1. Trunk lid assembly
2. Trunk lid key cylinder
3. Trunk lid cylinder bracket
4. Trunk lid lock control cable
5. Trunk lid striker
6. Trunk lid lock cover
7. Trunk lid lock assembly
8. Bumper rubber
9. Trunk lid weather-strip
10. Trunk lid hinge stopper
11. Trunk lid hinge
12. TORX bolt
13. Trunk lid stay
14. Protector harness

A. Vehicle center mark

: Clip

Refer to GI-4, "Components" for the symbols shown in the figure.

CAUTION:
Bumper rubber installed to carbon trunk lid cannot be re-used. When bumper rubber is removed, be sure to replace it with a new one.

TRUNK LID WEATHER-STRIP : Removal and Installation

INFOID:0000000011487119

REMOVAL

Pull up and remove engagement with body from trunk lid weather-strip joint.

CAUTION:
Never pull strongly the trunk lid weather-strip during removal.

INSTALLATION

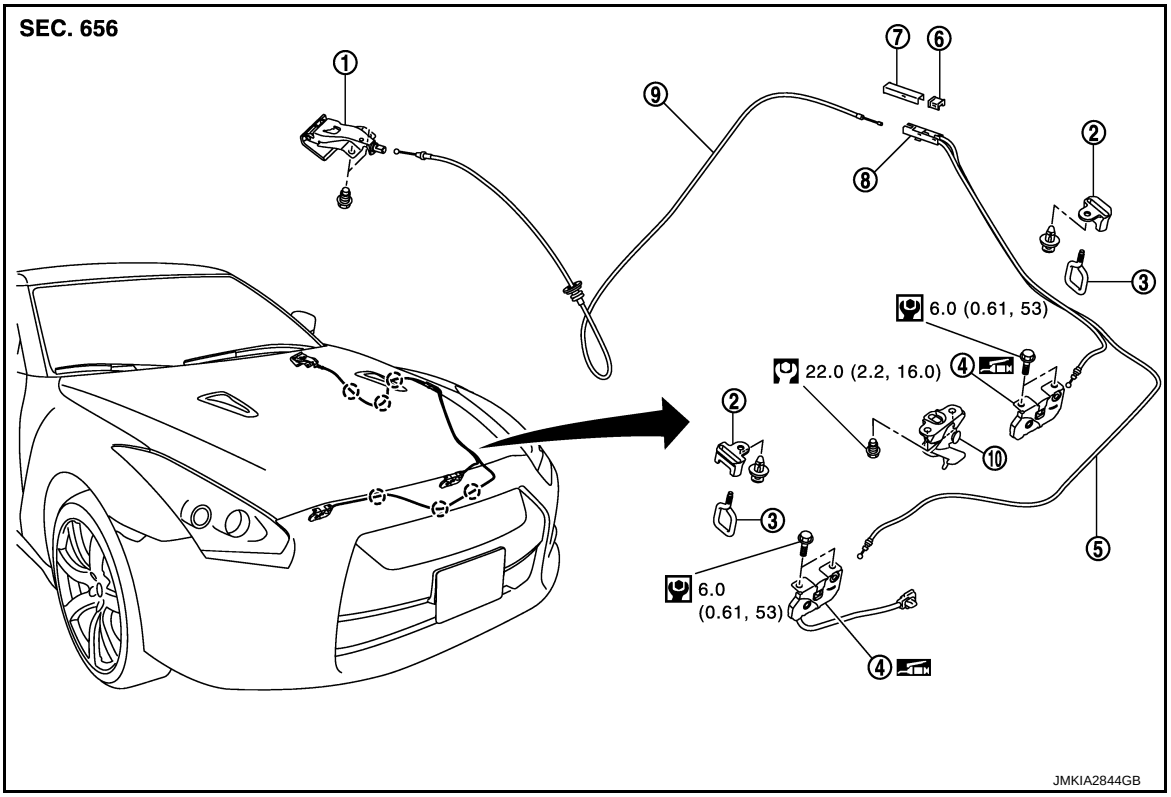
1. Working from the upper section, align the center of trunk lid weather-strip with vehicle center mark and install weather-strip.
2. Engage the trunk lid weather-strip with the vehicle body.
   CAUTION:
   - **Securely fit each corner.**
   - **Pull trunk lid weather-strip lightly to check for looseness.**

HOOD LOCK

HOOD LOCK

HOOD LOCK : Exploded View (GT-R certified NISSAN dealer)

INFOID:0000000011487120



1. Hood lock opener handle
2. Hood lock cover
3. Hood striker
4. Hood lock
5. Hood lock control cable (front)
6. Hood lock control cable protector cover (front)
7. Hood lock control cable protector cover (rear)
8. Hood lock cable protector
9. Hood lock control cable (rear)
10. Secondary latch

: Clip

Refer to GI-4, "Components" for the symbols shown in the figure.

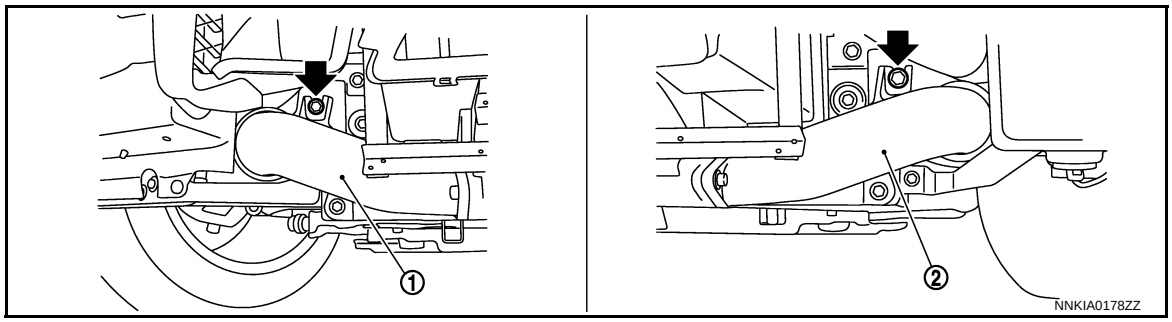
HOOD LOCK : Removal and Installation (GT-R certified NISSAN dealer)

INFOID:0000000011487121

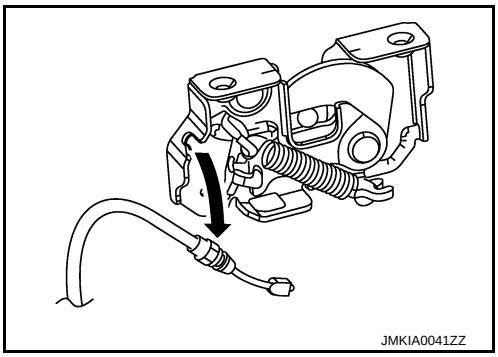
REMOVAL

1. Disengage the clips, and then remove the radiator cover.
2. Remove the front bumper fascia and the bumper reinforcement. Refer to EXT-15, "Removal and Installation".
3. Remove the dust duct side (LH/RH). Refer to EM-28, "Exploded View".
4. Remove the harness clip and hood lock cable clamp from the bumper fascia bracket.
5. Remove the hood lock cable clamp from the air intake duct assembly 1.
6. Disengage the connector of horns (HIGH/LOW). Refer to HRN-7, "Removal and Installation".
7. Disengage the hood switch connector of hood lock (RH).
8. Disconnect the ambient sensor connector. Refer to HAC-97, "Exploded View".
9. Remove the power steering oil cooler mounting bolt. Refer to ST-33, "Exploded View".
10. Remove the washer tank and the washer tank inlet. Refer to WW-92, "Exploded View".

11. Disconnect the air inlet hose, air inlet pipe, and recirculation hose from the charge air cooler assembly (bank 1 and bank 2). Refer to EM-30, "Exploded View".
12. Remove the mounting bolts of charge air cooler assembly [bank 1: (1), bank 2: (2)] by the arrows in the figure.



13. Remove the mounting bolts of the hood lock (LH/RH).
14. Check that all connections of connector, hose, and pipe are disconnected from the air intake duct assembly.
15. Remove the mounting bolts, and then remove the air intake duct assembly.
16. Remove the hood lock (LH/RH) from the air intake duct assembly 1.
17. Remove the hood lock control cable (front) from the hood lock (LH/RH).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **After installation, check hood open/close, lock/unlock operation.**
- **After installation, perform the fitting adjustment. Refer to DLK-215, "HOOD ASSEMBLY : Adjustment".**

HOOD LOCK : Inspection (GT-R certified NISSAN dealer)

INFOID:0000000011487122

NOTE:

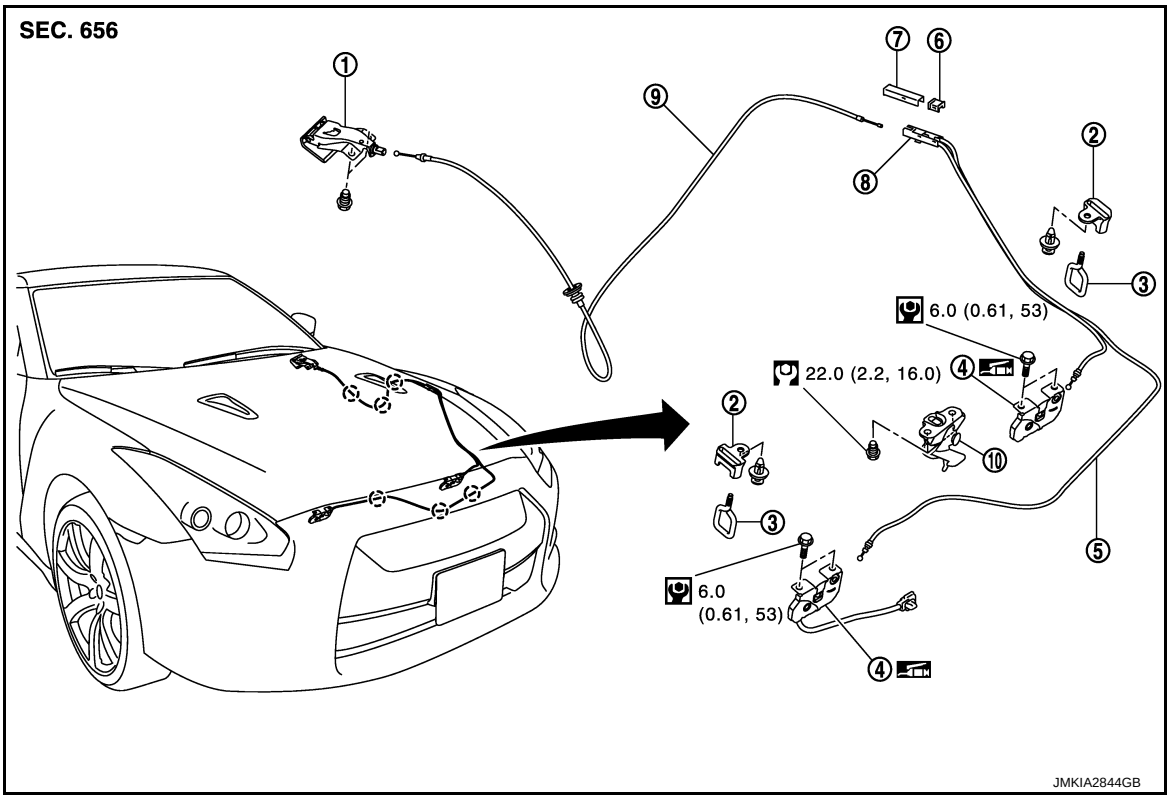
Replace the hood lock control cable if it is bent or deformed.

1. Check that the secondary and the hood lock stay are securely engaged by the weight of the hood when letting the hood free fall from a height of approximately 100 mm (3.937 in).
2. Check that the front end of the hood rises by approximately 20 mm (0.787 in) when pulling the hood opener lever gently. Also check that the hood opener lever returns to the original position.
3. Check that the tension of hood opener lever is less than 49.0 N (5.0 kg, 11.02 lb).
4. Check that the hood striker and the hood lock are securely engaged by the weight of the hood when letting the hood free fall from a height of approximately 300 mm (11.811 in).
   CAUTION:
   Check that the hood locks LH/RH are engaged securely.
5. Check hood lock lubrication level. Apply multi-purpose grease or an equivalent if necessary.

HOOD LOCK CONTROL CABLE

HOOD LOCK CONTROL CABLE : Exploded View (GT-R certified NISSAN dealer)

INFOID:0000000011487123



1. Hood lock opener handle
2. Hood lock cover
3. Hood striker
4. Hood lock
5. Hood lock control cable (front)
6. Hood lock control cable protector cover (front)
7. Hood lock control cable protector cover (rear)
8. Hood lock cable protector
9. Hood lock control cable (rear)
10. Secondary latch

: Clip

Refer to GI-4, "Components" for the symbols shown in the figure.

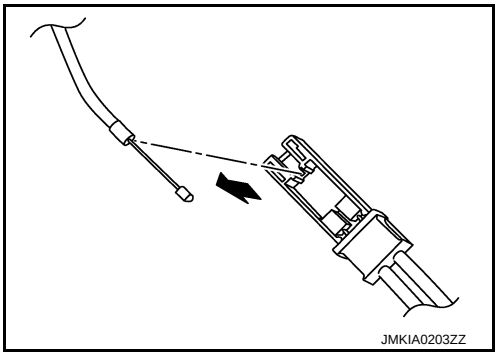
HOOD LOCK CONTROL CABLE : Removal and Installation (GT-R certified NISSAN dealer)

INFOID:0000000011487124

REMOVAL

1. Remove the hood lock. Refer to DLK-245, "HOOD LOCK : Removal and Installation (GT-R certified NISSAN dealer)".
2. Remove the fender protector RH. Refer to EXT-32, "FENDER PROTECTOR : Removal and Installation".
3. Remove the hood lock control cable clamp of hood ledge.
4. Remove the hood lock control cable protector from hood lock cable clamp of front fender bracket.
5. Remove the hood lock control cable protector cover (rear) from the hood lock control cable protector.

6. Remove the hood lock control cable (rear) from the hood lock control cable protector.



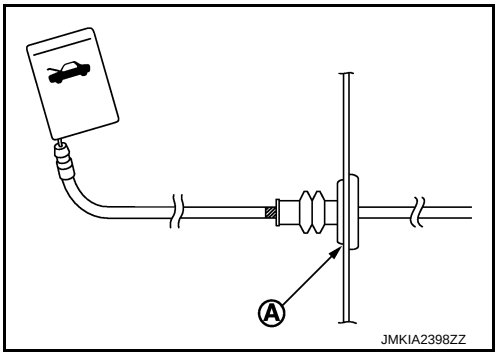
7. Remove the hood lock opener handle mounting bolts from the bottom of lower instrument panel LH, and then remove the hood lock opener handle.
8. Remove the hood lock control cable (rear) from the hood lock opener.
9. Remove the kicking plate inner and the dashboard side lower finisher. Refer to INT-15, "Removal and Installation".
10. Remove the lower dashboard grommet, and then pull out the hood lock control cable (rear) to outside of passenger room.
    CAUTION:
    While pulling, never damage (peeling) the outside of the hood lock control cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- **Pass the hood lock cable through the opening while keeping the winding radius larger.**
- **Securely push the grommet into the panel hole.**
- **Check hood lock control cable is properly engaged with hood lock.**
- **Check cable is not offset from the positioning grommet, and apply the sealant to the grommet (A) properly.**



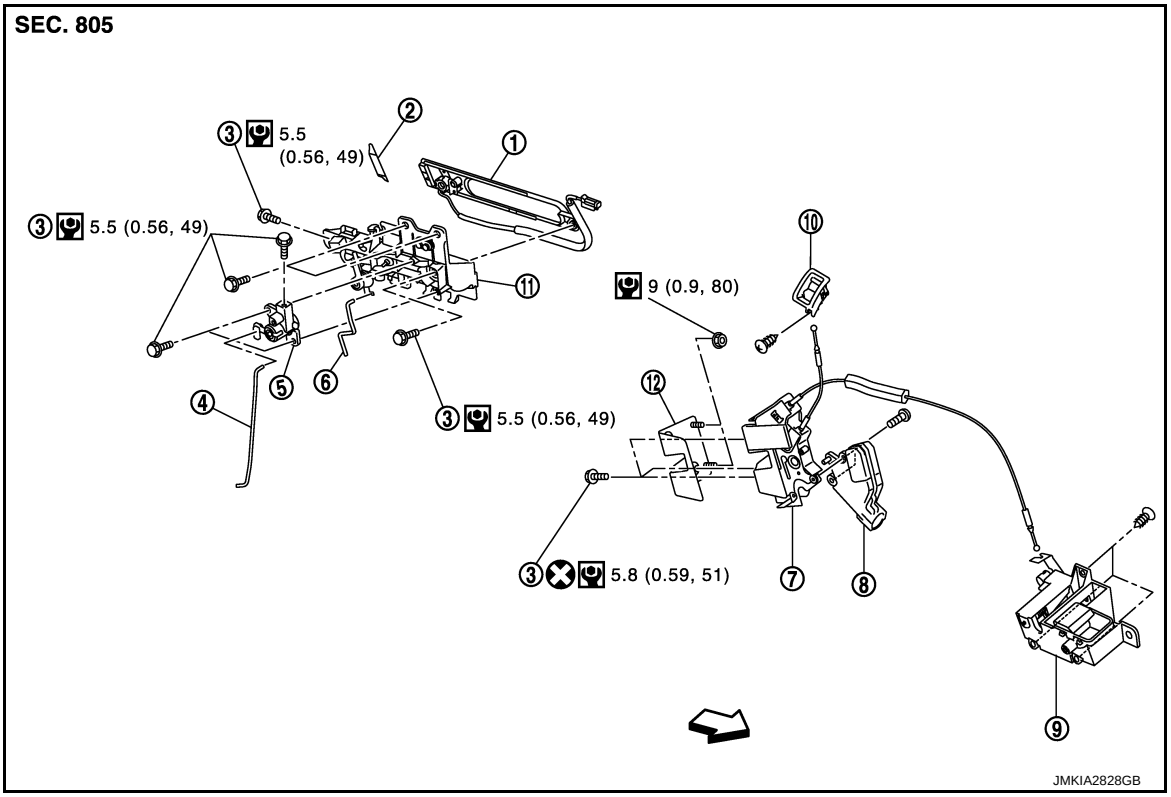
- **After installation, perform the inspection. Refer to DLK-246, "HOOD LOCK : Inspection (GT-R certified NISSAN dealer)".**
- **After installation, perform the fitting adjustment. Refer to DLK-215, "HOOD ASSEMBLY : Adjustment".**

DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View (GT-R certified NISSAN dealer)

INFOID:0000000011487125



1. Outside handle escutcheon	2. Outside handle cap	3. TORX bolt
4. Key cylinder rod (driver side)	5. Key cylinder (driver side)	6. Outside handle rod
7. Door lock assembly (standard model)	8. Door actuator assembly (standard model)	9. Inside handle
10. Door lock knob	11. Outside handle assembly	12. Door lock stiffener

⇦ : Vehicle front

Refer to GI-4, "Components" for the symbols shown in the figure.

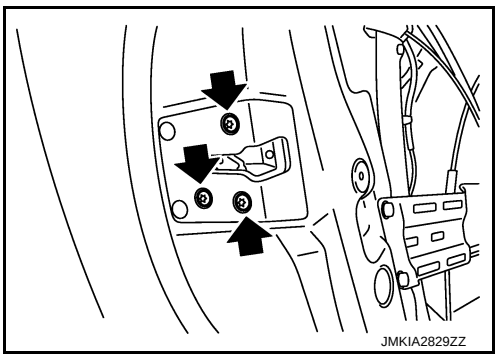
DOOR LOCK : Removal and Installation (GT-R certified NISSAN dealer)

INFOID:0000000011487126

REMOVAL

1. Remove the door finisher. Refer to INT-12, "Removal and Installation".
2. Remove the inside handle cable from the inside handle. Remove the door lock knob cable from the door lock knob.
   CAUTION:
   Never bend the cable end.
3. Remove the door window. Refer to GW-23, "Removal and Installation".
4. Disengage the joint of key cylinder rod and outside handle rod at the outside handle side.

5. Remove the door lock assembly TORX bolts by the arrows in the figure.



6. Disconnect the door lock harness connector, and then remove the door lock assembly.

INSTALLATION

Note the following, and install in the reverse order of removal.

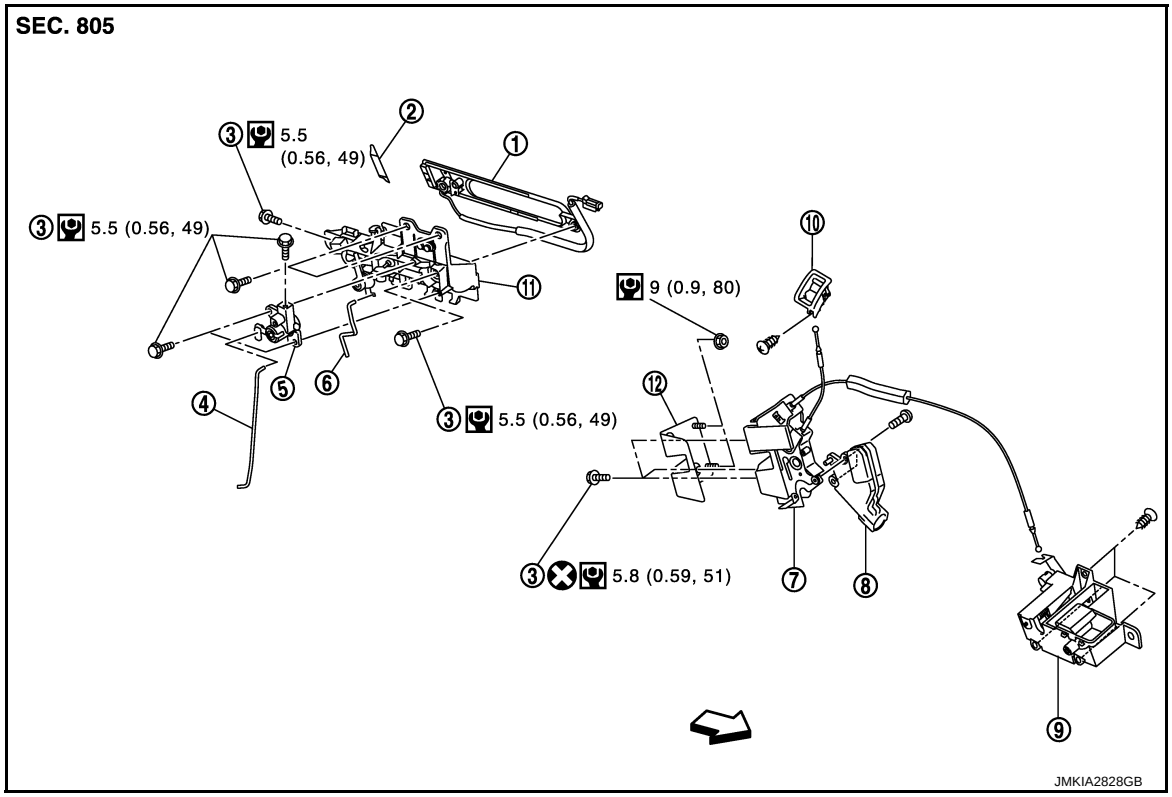
CAUTION:

- **Apply anticorrosive agent onto the mounting surface.**
- **Check door lock cables are properly 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, lock/unlock operation.**

INSIDE HANDLE

INSIDE HANDLE : Exploded View (GT-R certified NISSAN dealer)

INFOID:0000000011487127



1. Outside handle escutcheon	2. Outside handle cap	3. TORX bolt
4. Key cylinder rod (driver side)	5. Key cylinder (driver side)	6. Outside handle rod
7. Door lock assembly (standard model)	8. Door actuator assembly (standard model)	9. Inside handle
10. Door lock knob	11. Outside handle assembly	12. Door lock stiffener

⇦ : Vehicle front

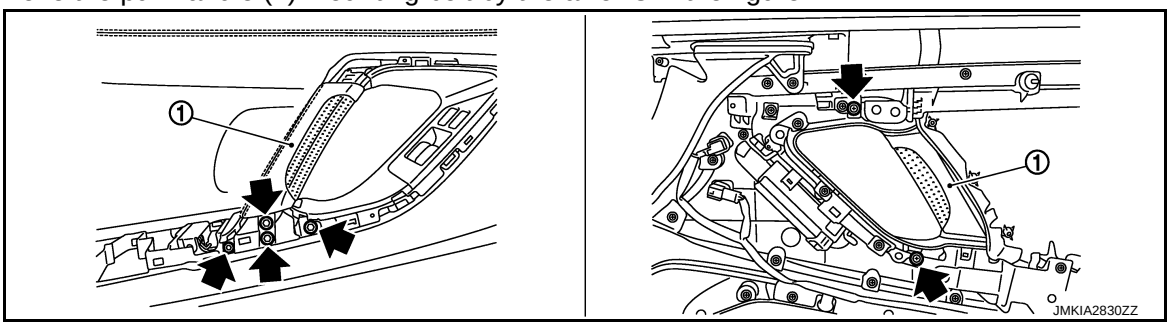
Refer to GI-4, "Components" for the symbols shown in the figure.

INSIDE HANDLE : Removal and Installation

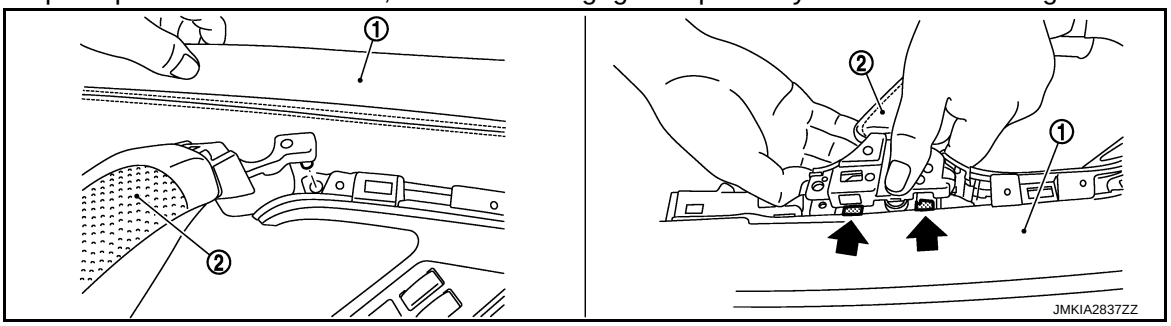
INFOID:0000000011487128

REMOVAL

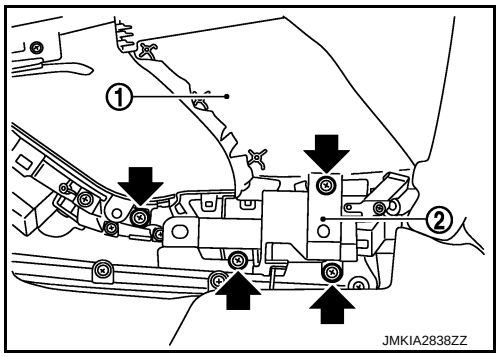
1. Remove the door finisher. Refer to INT-12, "Removal and Installation".
2. Remove the door squawker. (Models with door squawker) Refer to AV-170, "Removal and Installation".
3. Remove the pull handle (1) mounting bolt by the arrows in the figure.



4. Remove the pull handle (2) from the door finisher (1).
   - Disengage the positioning pole on the pull handle upper side.
   - Lift up the pull handle lower side, and then disengage the pawls by the arrows in the figure.

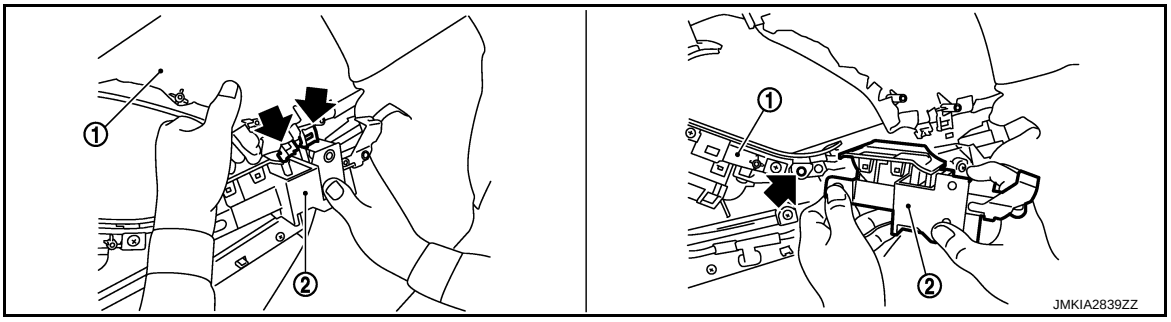


5. Remove the inside handle assembly mounting bolt by the arrows in the figure.

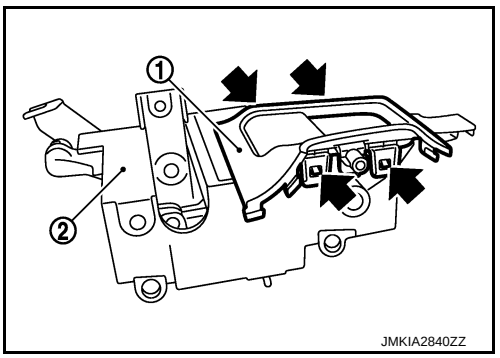


1. Door finisher
2. Inside handle assembly

6. Remove the inside handle assembly (2) from the door finisher (1).
   - Lift up the door finisher, and then disengage the pawls by the arrows in the figure.
   - Pull the inside handle assembly forward, and then disengage the joint of inside handle assembly front side.



7. Disengage the pawls by the arrows in the figure of inside handle finisher (1), and then remove the inside handle finisher from the inside handle (2).



INSTALLATION

Install in the reverse order of removal.

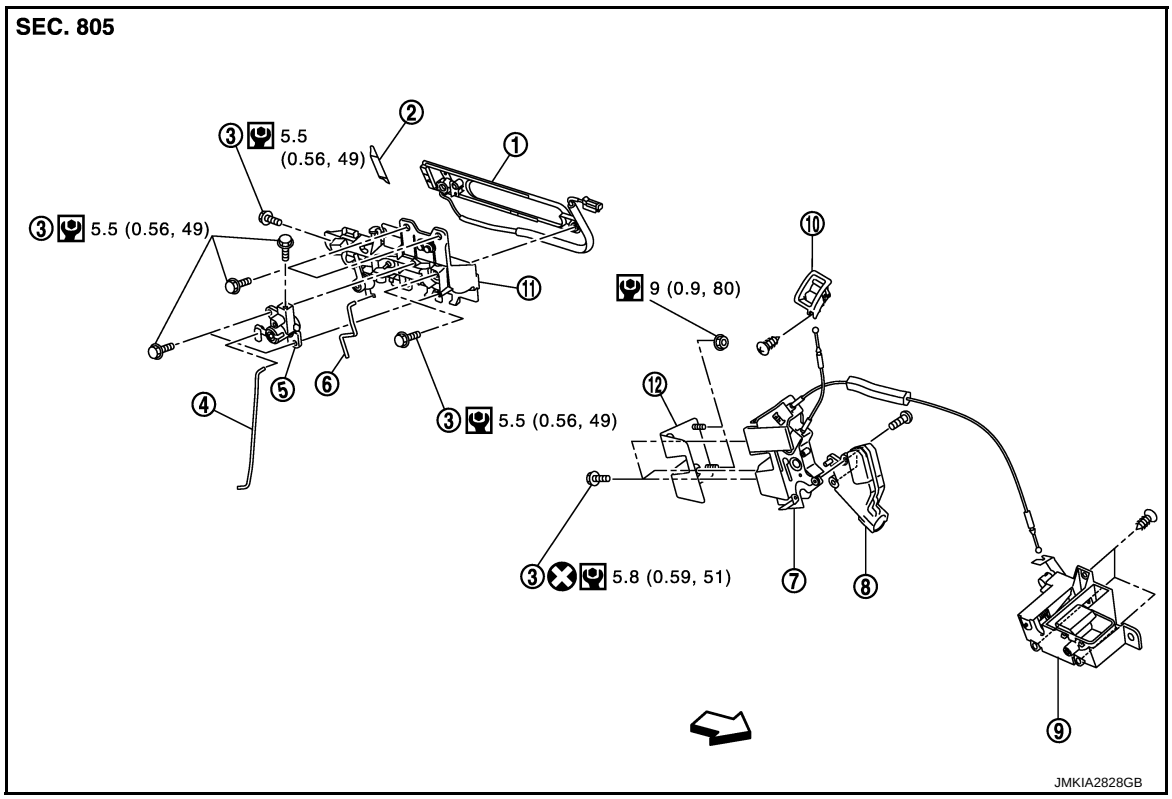
CAUTION:

- **Check door lock cables are properly engaged with inside handle.**
- **After installation, check door open/close operation.**

OUTSIDE HANDLE

OUTSIDE HANDLE : Exploded View (GT-R certified NISSAN dealer)

INFOID:0000000011487129



1.	Outside handle escutcheon	2.	Outside handle cap	3.	TORX bolt
4.	Key cylinder rod (driver side)	5.	Key cylinder (driver side)	6.	Outside handle rod
7.	Door lock assembly (standard model)	8.	Door actuator assembly (standard model)	9.	Inside handle
10.	Door lock knob	11.	Outside handle assembly	12.	Door lock stiffener

⇦ : Vehicle front

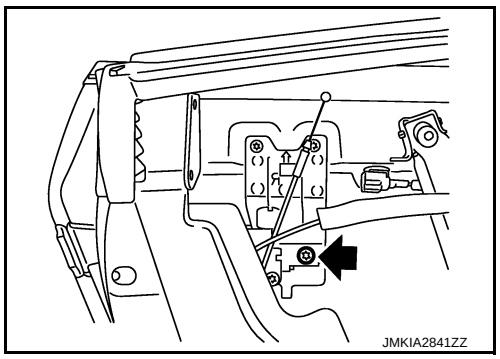
Refer to GI-4, "Components" for the symbols shown in the figure.

OUTSIDE HANDLE : Removal and Installation (GT-R certified NISSAN dealer)

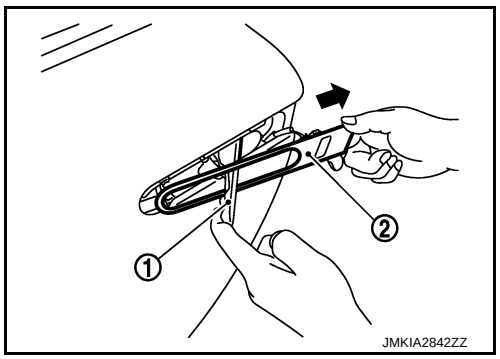
INFOID:0000000011487130

REMOVAL

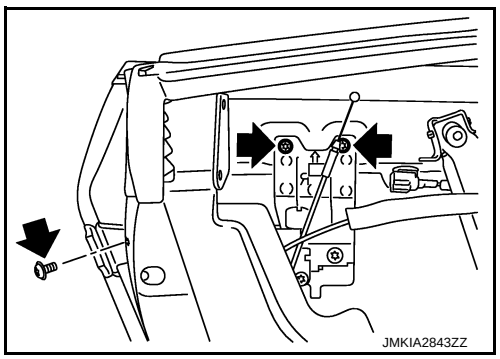
1. Remove the door finisher. Refer to INT-12, "Removal and Installation".
2. Remove the inside handle cable from the inside handle. Remove the door lock knob cable from the door lock knob.
   CAUTION:
   Never bend the cable end.
3. Remove the sealing screen and the door window. Refer to GW-23, "Removal and Installation".
4. Remove the door inner west reinforcement. Refer to DLK-227, "DOOR ASSEMBLY : Exploded View".
5. Disengage the joint of key cylinder rod (driver side) and outside handle rod at the outside handle side.
6. Disconnect the door request switch connector.
7. Remove the TORX bolt of outside handle escutcheon by the arrow in the figure.



8. Pull out and remove the outside handle escutcheon (2) toward vehicle rear while pulling the outside handle (1) forward.
   CAUTION:
   Never damage the vehicle.



9. Remove the TORX bolt by the arrows in the figure, and then remove the outside handle assembly.



10. Remove the TORX bolt and blind bolt, and then remove the key cylinder from the outside handle assembly. (Driver side)

INSTALLATION

Install in the reverse order of removal.

CAUTION:

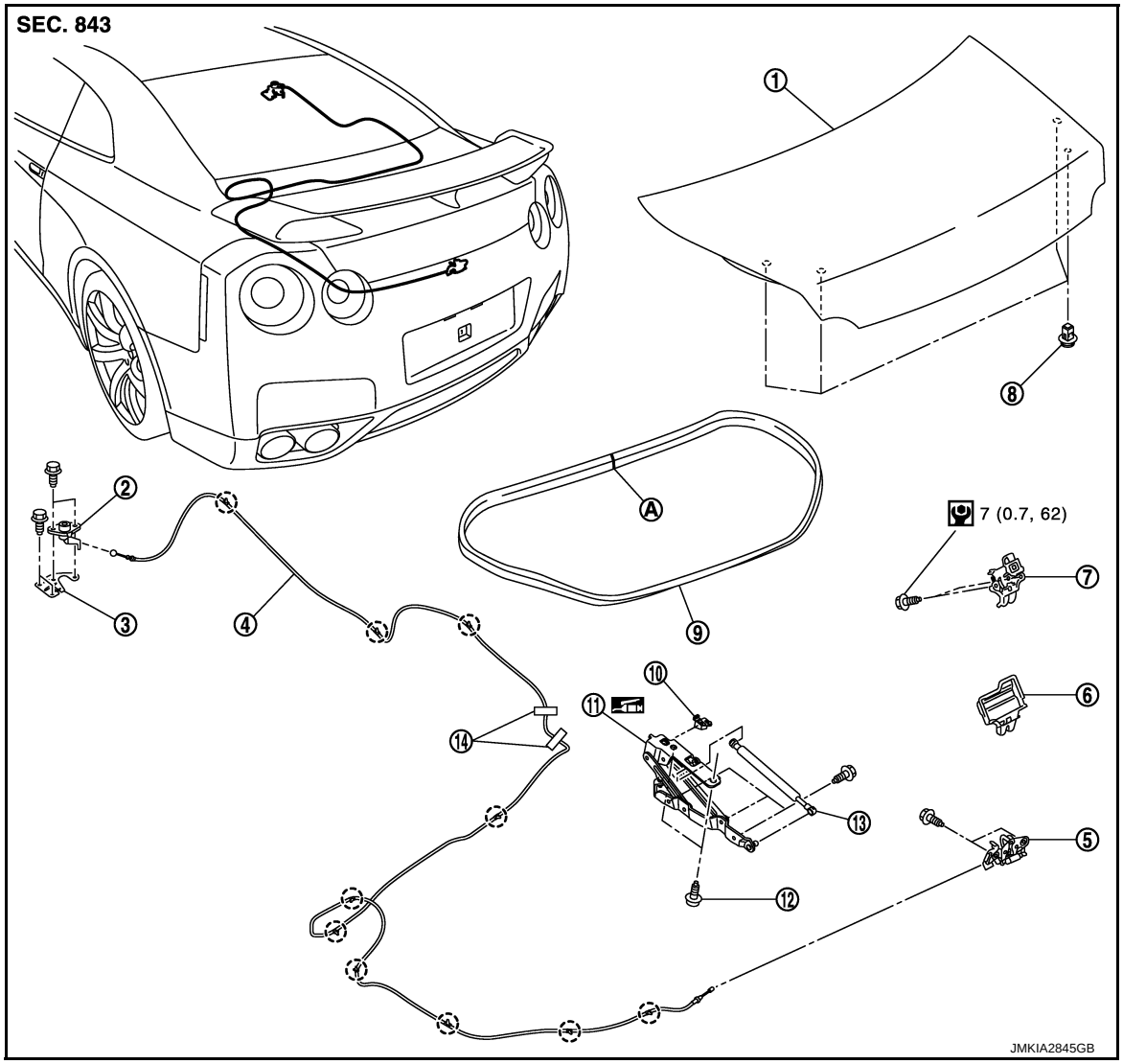
- **When installing each rod, rotate rod holder until a click is felt.**
- **After installation, check door open/close, lock/unlock operation.**

TRUNK LID LOCK

TRUNK LID LOCK

TRUNK LID LOCK : Exploded View

INFOID:0000000011487131



1. Trunk lid assembly
2. Trunk lid key cylinder
3. Trunk lid cylinder bracket
4. Trunk lid lock control cable
5. Trunk lid striker
6. Trunk lid lock cover
7. Trunk lid lock assembly
8. Bumper rubber
9. Trunk lid weather-strip
10. Trunk lid hinge stopper
11. Trunk lid hinge
12. TORX bolt
13. Trunk lid stay
14. Protector harness

A. Vehicle center mark

: Clip

Refer to GI-4, "Components" for the symbols shown in the figure.

CAUTION:

Bumper rubber installed to carbon trunk lid cannot be re-used. When bumper rubber is removed, be sure to replace it with a new one.

TRUNK LID LOCK : Removal and Installation

INFOID:0000000011487132

REMOVAL

1. Remove the trunk lid finisher inner. Refer to INT-29, "Removal and Installation".
2. Disconnect the trunk lid lock actuator harness connector.
3. Remove the mounting bolts, and then remove trunk lid lock assembly.

INSTALLATION

Install in the reverse order of removal.

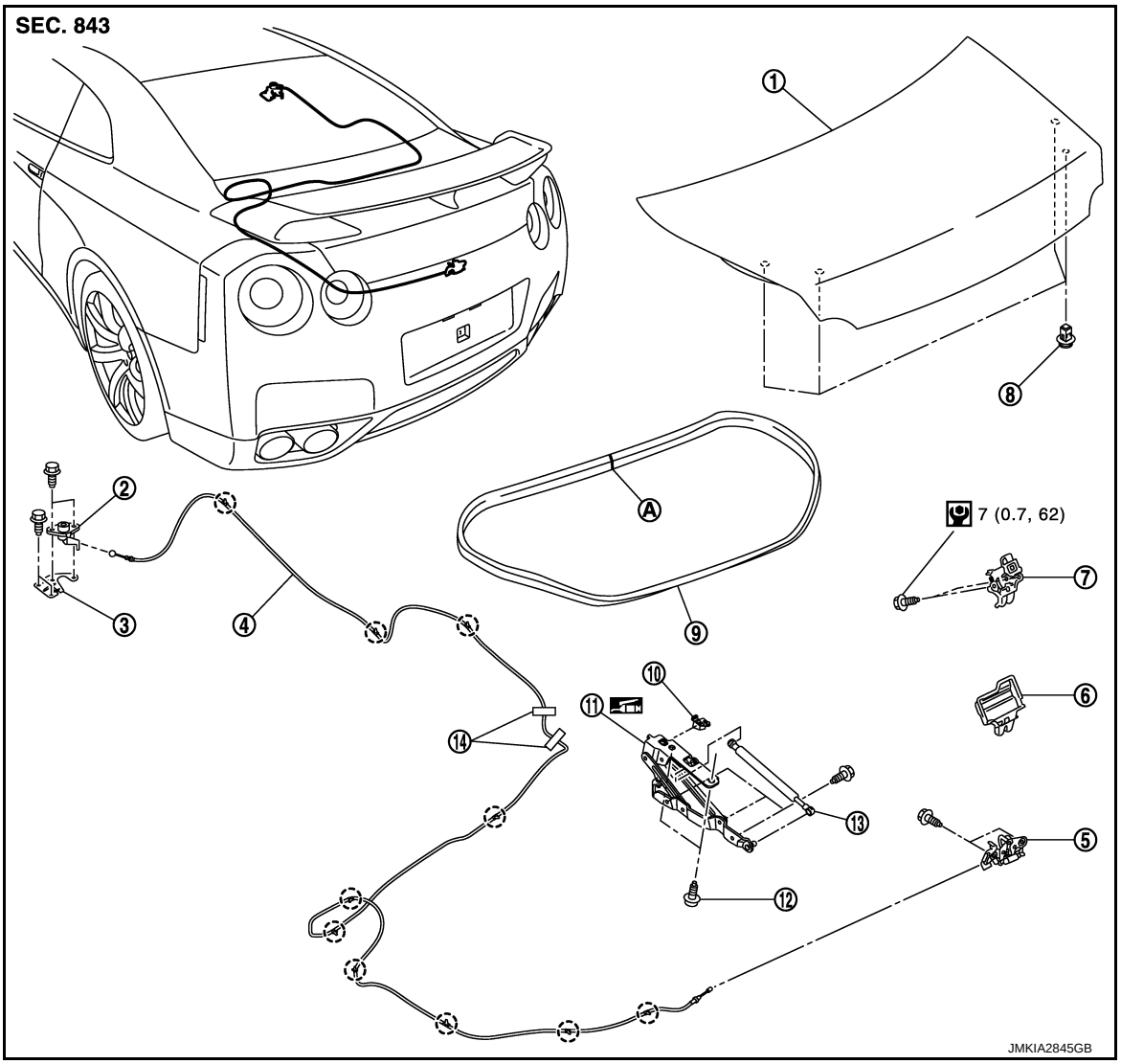
CAUTION:

After installation, check trunk lid open/close, lock/unlock operation.

TRUNK LID LOCK CONTROL CABLE

TRUNK LID LOCK CONTROL CABLE : Exploded View

INFOID:0000000011487133



1. Trunk lid assembly
2. Trunk lid key cylinder
3. Trunk lid cylinder bracket
4. Trunk lid lock control cable
5. Trunk lid striker
6. Trunk lid lock cover
7. Trunk lid lock assembly
8. Bumper rubber
9. Trunk lid weather-strip
10. Trunk lid hinge stopper
11. Trunk lid hinge
12. TORX bolt
13. Trunk lid stay
14. Protector harness

A. Vehicle center mark

: Clip

Refer to GI-4, "Components" for the symbols shown in the figure.

CAUTION:

Bumper rubber installed to carbon trunk lid cannot be re-used. When bumper rubber is removed, be sure to replace it with a new one.

TRUNK LID LOCK CONTROL CABLE : Removal and Installation

INFOID:0000000011487134

REMOVAL

1. Remove dash side lower finisher (RH) and kicking plate inner (RH). Refer to INT-15, "Removal and Installation".
2. Remove front seat (passenger side). Refer to SE-61, "Removal and Installation".
3. Remove front seat belt (passenger side) outer anchor mounting anchor belt. Refer to SB-7, "SEAT BELT RETRACTOR : Exploded View".
4. Turn over the floor trim of passenger seat side. Refer to INT-22, "Removal and Installation".
5. Remove the tool-box.
6. Remove the mounting bolts, and then remove the trunk lid key cylinder.
7. Disengage the joint of trunk lid lock control cable from the trunk lid key cylinder.
8. Remove the rear seat cushion (LH/RH) and the rear seatback (LH/RH). Refer to SE-68, "Removal and Installation".
9. Remove rear seat center finisher. Refer to INT-19, "Removal and Installation".
10. Remove the rear side finisher (RH). Refer to INT-15, "Removal and Installation".
11. Disengage the clip connecting the trunk lid lock control cable of passenger room side with the vehicle body.
12. Remove the trunk front finisher, trunk rear finisher, trunk side finisher back (LH), trunk side finisher upper (LH), and trunk side finisher lower (LH). Refer to INT-27, "Removal and Installation".
13. Disengage the clip connecting the trunk lid lock control cable of trunk room side with the vehicle body.
14. Remove the trunk lid striker. Refer to DLK-239, "TRUNK LID STRIKER : Removal and Installation".
15. Disengage the joint of trunk lid lock control cable from the trunk lid striker.
16. Pull out the trunk lid control cable toward passenger room side or trunk room side to remove.

INSTALLATION

Install in the reverse order of removal.

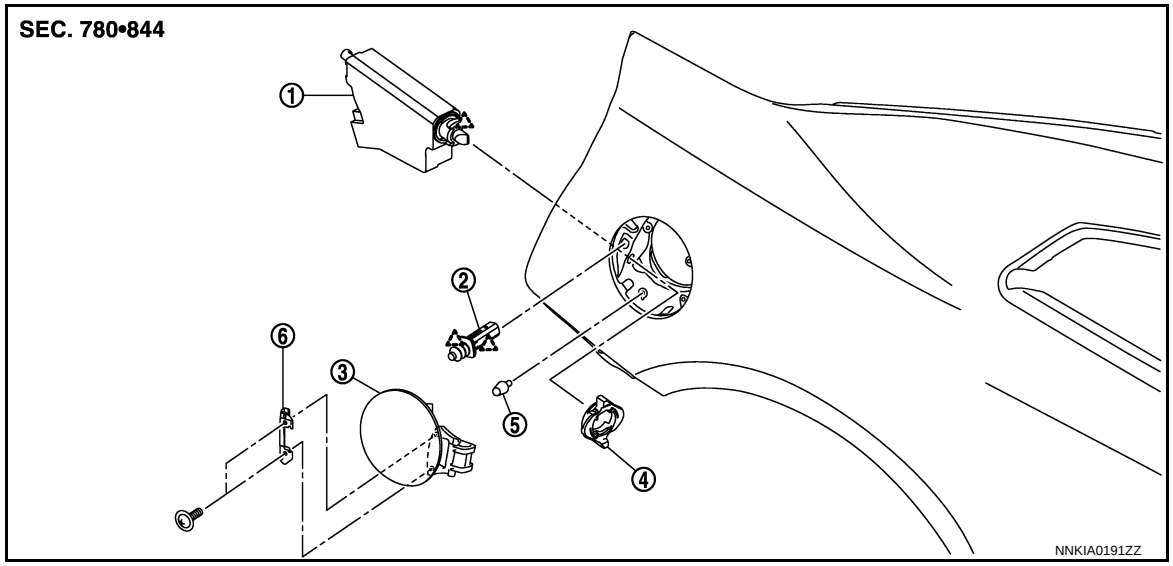
CAUTION:

- **After installation, check trunk lid open/close, lock/unlock operation.**
- **After installation, perform the fitting adjustment. Refer to DLK-235, "TRUNK LID ASSEMBLY : Adjustment".**

FUEL FILLER LID OPENER

Exploded View

INFOID:0000000011487135



1. Fuel filler lid opener actuator
2. Lock and cable assembly
3. Fuel filler lid assembly
4. Lock nut
5. Bumper rubber
6. Fuel filler cover

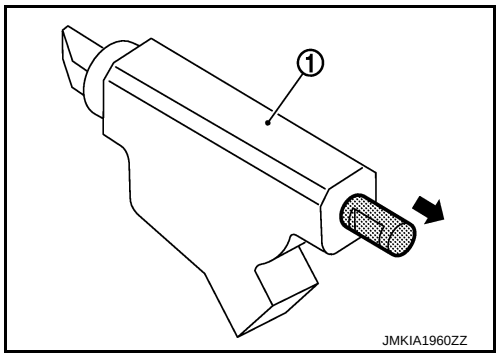
: Pawl

Refer to GI-4, "Components" for the symbols shown in the figure.

Removal and Installation

INFOID:0000000011487136

NOTE:
Unlock the fuel filler lid by pulling the rod if the operation of fuel filler lid opener actuator (1) is malfunctioning.



REMOVAL

1. Remove the mounting screws, and then remove the fuel filler lid.
2. Push and disengage the tabs of lock and cable assembly from the vehicle body, and remove them.
3. Rotate the lock nut counterclockwise and remove it.
4. Push the tabs of fuel filler lid opener actuator, and then press them toward vehicle rear.
5. Remove the trunk side finisher lower (RH). Refer to INT-27, "Removal and Installation".
6. Disconnect the connector, and then remove the fuel filler lid opener actuator.

INSTALLATION

Install in the reverse order of removal.

CAUTION:
After installation, check fuel filler lid open/close, lock/unlock operation.

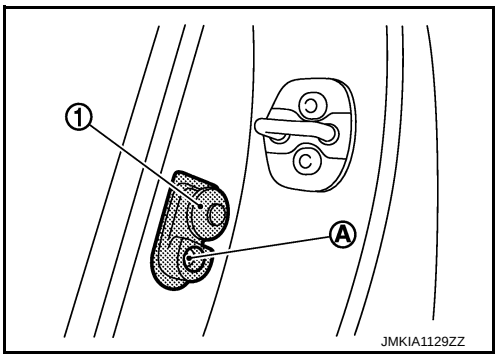
DOOR SWITCH

Removal and Installation

INFOID:0000000011487137

REMOVAL

1. Remove the door switch mounting bolts (A).
2. Pull out the door switch (1) from the vehicle, and then disconnect the harness connector.



INSTALLATION

Install in the reverse order of removal.

INSIDE KEY ANTENNA

INSTRUMENT CENTER

INSTRUMENT CENTER : Exploded View

INFOID:0000000011487138

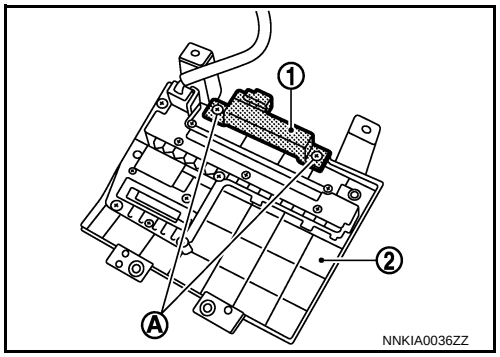
Refer to IP-12, "Exploded View".

INSTRUMENT CENTER : Removal and Installation

INFOID:0000000011487139

REMOVAL

1. Remove the console finisher assembly. Refer to IP-13, "Removal and Installation".
2. Remove the mounting screws (A) from the inside key antenna (instrument panel center).
3. Disconnect the inside key antenna (instrument panel center) connector, and then remove the inside key antenna (instrument panel center) (1) from the console finisher assembly (2).



INSTALLATION

Install in the reverse order of removal.

CONSOLE

CONSOLE : Exploded View

INFOID:0000000011487140

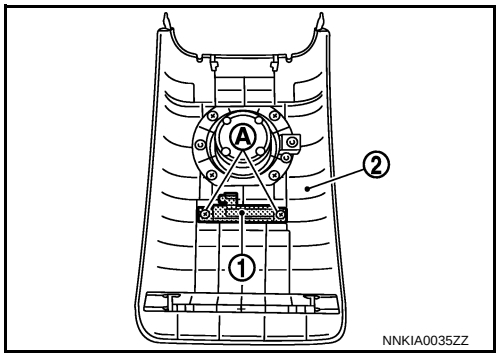
Refer toIP-23, "Exploded View".

CONSOLE : Removal and Installation

INFOID:0000000011487141

REMOVAL

1. Remove the rear console assembly. Refer to IP-23, "Removal and Installation".
2. Disconnect the inside key antenna (console) connector, and then remove the mounting screws (A) of the inside key antenna (console).
3. Remove the inside key antenna (console) (1) from the rear console assembly (2).



INSTALLATION

Install in the reverse order of removal.

TRUNK ROOM

TRUNK ROOM : Exploded View

INFOID:0000000011487142

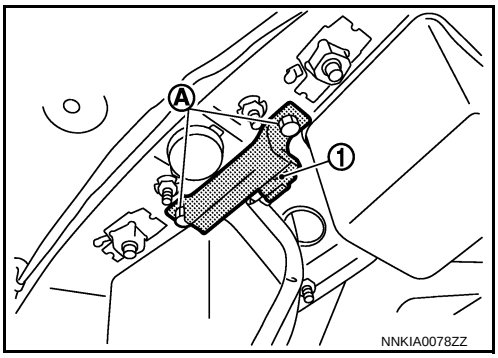
Refer to INT-27, "Exploded View".

TRUNK ROOM : Removal and Installation

INFOID:0000000011487143

REMOVAL

1. Remove the trunk carpet and trunk lower felt. Refer to INT-29, "Removal and Installation".
2. Disconnect the inside key antenna (trunk) connector, and then remove the mounting clips (A) of the inside key antenna (trunk).
3. Remove the inside key antenna (trunk) (1).



INSTALLATION

Install in the reverse order of removal.

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:0000000011487144

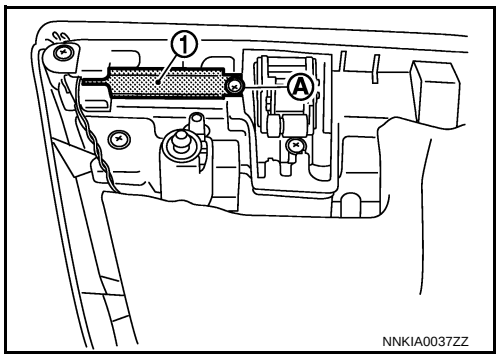
Refer to INT-12, "Exploded View".

DRIVER SIDE : Removal and Installation

INFOID:0000000011487145

REMOVAL

1. Remove the door finisher (driver side). Refer to INT-12, "Removal and Installation".
2. Remove the outside key antenna mounting screw (A), and then remove the outside key antenna (1) from the door finisher (driver side).



INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:0000000011487146

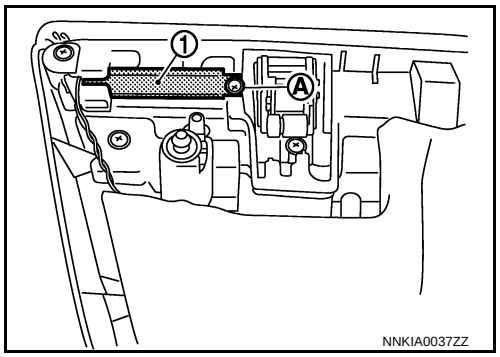
Refer to INT-12, "Exploded View".

PASSENGER SIDE : Removal and Installation

INFOID:0000000011487147

REMOVAL

1. Remove the door finisher (passenger side). Refer to INT-12, "Removal and Installation".
2. Remove the outside key antenna mounting screw (A), and then remove the outside key antenna (1) from the door finisher (passenger side).



INSTALLATION

Install in the reverse order of removal.

REAR BUMPER

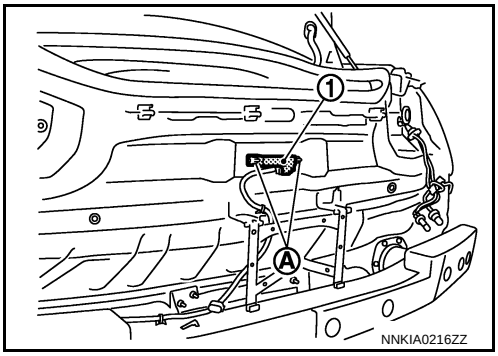
REAR BUMPER : Removal and Installation

INFOID:0000000011487148

REMOVAL

1. Remove the rear bumper. Refer to EXT-22, "Removal and Installation".

2. Disconnect the outside key antenna (rear bumper) connector, and then remove the mounting clips (A) of the outside key antenna (rear bumper).
3. Remove the outside key antenna (rear bumper) (1).



INSTALLATION

Install in the reverse order of removal.

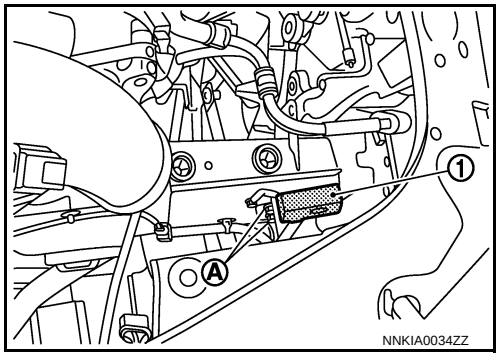
INTELLIGENT KEY WARNING BUZZER

Removal and Installation

INFOID:0000000011487149

REMOVAL

1. Remove the air cleaner box (RH). Refer to EM-28, "Removal and Installation".
2. Remove the vehicle outside buzzer mounting bolts (A), and then disconnect the vehicle outside buzzer connector.
3. Remove the vehicle outside buzzer (1).



INSTALLATION

Install in the reverse order of removal.

KEY SLOT

Exploded View

INFOID:0000000011487150

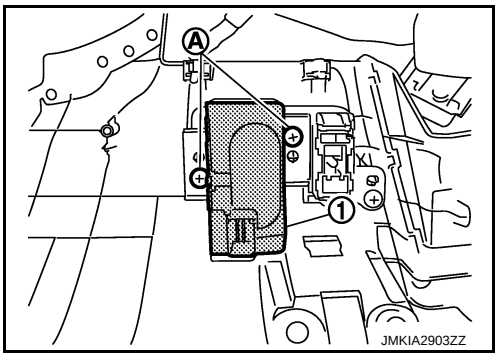
Refer to IP-12, "Exploded View".

Removal and Installation

INFOID:0000000011487151

REMOVAL

1. Remove the lower instrument panel . Refer to IP-13, "Removal and Installation".
2. Disconnect the key slot connector.
3. Remove the key slot mounting screws (A), and then remove the key slot (1).



INSTALLATION

Install in the reverse order of removal.

TRUNK LID OPENER REQUEST SWITCH

Exploded View

INFOID:0000000011487152

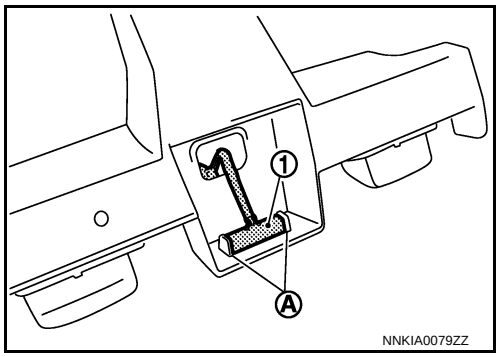
Refer to EXT-21, "Exploded View".

Removal and Installation

INFOID:0000000011487153

REMOVAL

1. Remove the license lamp bracket from the rear bumper. Refer to EXT-22, "Removal and Installation".
2. Disconnect the trunk lid opener request switch connector.
3. Unlock the tabs (A), and then remove the trunk lid opener request switch (1) from the license lamp bracket.



INSTALLATION

Install in the reverse order of removal.

TRUNK LID OPENER SWITCH

Exploded View

INFOID:0000000011487154

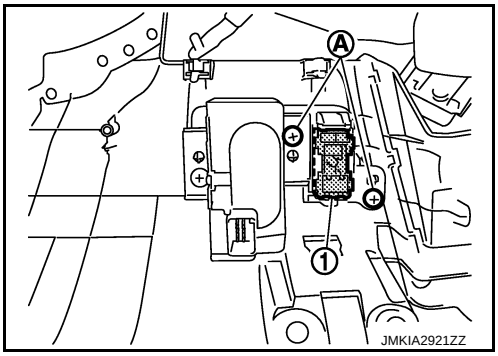
Refer to IP-12, "Exploded View".

Removal and Installation

INFOID:0000000011487155

REMOVAL

1. Remove the lower instrument panel . Refer to IP-13, "Removal and Installation".
2. Remove the trunk lid opener switch mounting screw (A), and then remove the trunk lid opener switch (1) from the lower instrument panel RH.



INSTALLATION

Install in the reverse order of removal.

REMOTE KEYLESS ENTRY RECEIVER

Exploded View

INFOID:0000000011487156

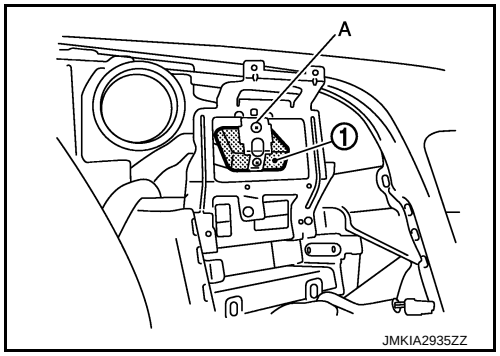
Refer to IP-12, "Exploded View".

Removal and Installation

INFOID:0000000011487157

REMOVAL

1. Remove the display unit. Refer to AV-168, "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.

TRUNK LID OPENER CANCEL SWITCH

Exploded View

INFOID:0000000011487158

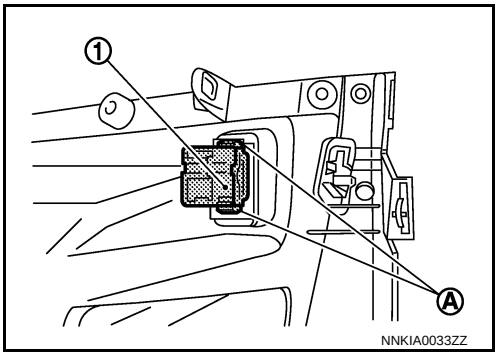
Refer toIP-12, "Exploded View".

Removal and Installation

INFOID:0000000011487159

REMOVAL

1. Remove the lower instrument panel LH. Refer to IP-13, "Removal and Installation".
2. Unlock the tabs (A), and then press the trunk lid opener cancel switch (1) from rear and remove it from the lower instrument panel LH.



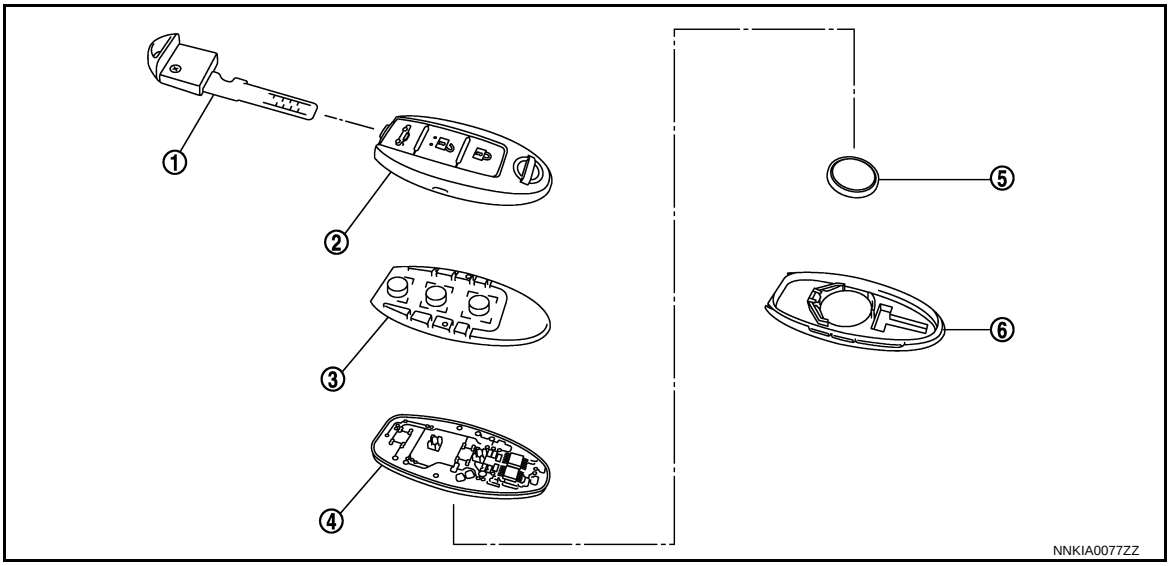
INSTALLATION

Install in the reverse order of removal.

INTELLIGENT KEY

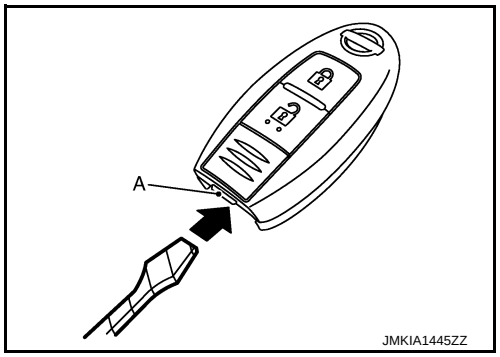
Disassembly and Assembly

INFOID:0000000011487160



1. Mechanical key
2. Upper case
3. Switch rubber
4. Circuit board
5. Battery
6. Lower case

1. Unlock the lock knob on the rear of Intelligent Key, and then remove the mechanical key.
2. Insert a screwdriver wrapped with tape into Area A and then separate lower and upper cases by twisting remover tool.
3. When replacing the battery with new one
   Remove the battery from the lower half of the case and replace it.



Battery replacement	**:Coin-shaped lithium battery 3 V (CR2032)**

CAUTION:
Keep dirt, grease, and other foreign matter off the electrode contact area when replacing battery.

4. Remove circuit board assembly from upper case.
   (Substrate assembly: circuit board + switch rubber)
5. When replacing the circuit board or switch rubber
   Gently press the switch rubber and remove the circuit board.
   CAUTION:
   Never touch the printed circuits directly.
6. After replacement, assemble the upper and lower cases by engaging the hooks on their circumference while being careful not to pinch the switch rubber, etc.
   CAUTION:
   - **After replacing the battery, check that all Intelligent Key functions work normally.**