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SECTION DOOR & LOCK

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

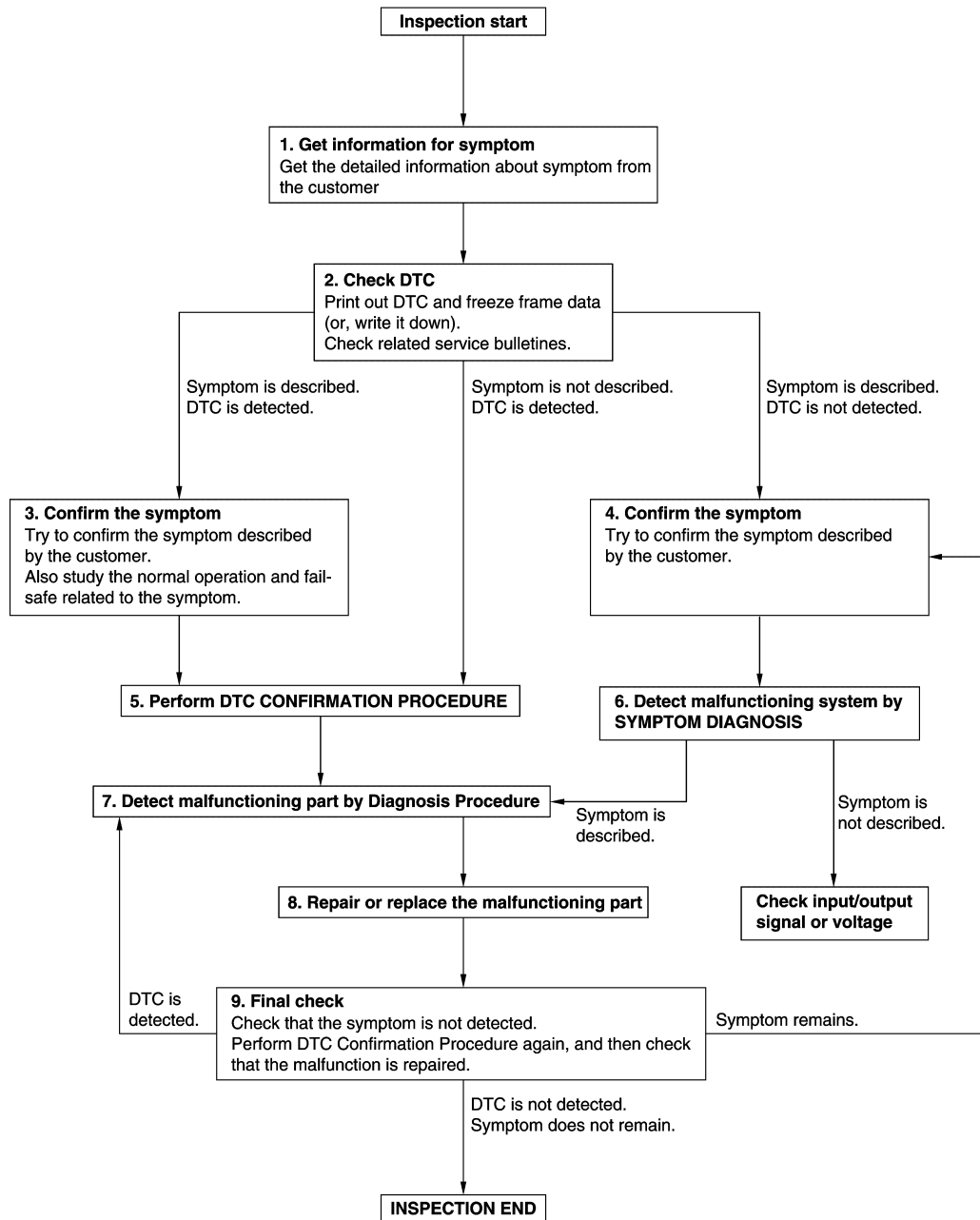
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000009718876

OVERALL SEQUENCE



JMKIA8652GB

DETAILED FLOW

Revision: 2013 August

DLK-10

2014 MURANO

DIAGNOSIS AND REPAIR WORK FLOW

[WITH INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

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-90. "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-44. "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

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DIAGNOSIS AND REPAIR WORK FLOW

[WITH INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-44. "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

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description

INFOID:000000009718877

The automatic back door system must be initialized anytime the battery or the automatic back door control unit has been disconnected.

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000009718878

1. INITIALIZATION

1. Close back door.
2. Open the back door with automatic open operation.

NOTE:

Do not stop the automatic operation until back door is fully open.

>> WORK END

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Description

INFOID:000000009718879

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:000000009718880

Refer to the CONSULT operation manual for the initialization procedure.

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POWER DOOR LOCK SYSTEM

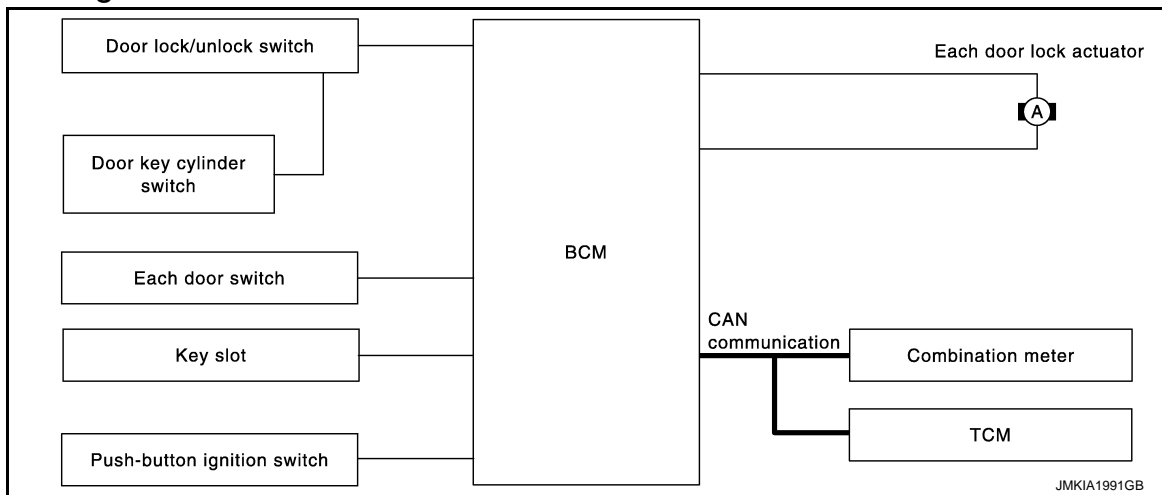
[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION

POWER DOOR LOCK SYSTEM

System Diagram



System Description

INFOID:000000009718882

DOOR LOCK FUNCTION

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

Door Key Cylinder

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

Selective unlock operation mode can be changed using “DOOR LOCK-UNLOCK SET” mode in “WORK SUPPORT”. Refer to [DLK-55. "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

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 follows.

Vehicle Speed Sensing Auto Door Lock*1

All doors are locked when the vehicle speed reaches 15 miles 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 miles) 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.

POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

⊗ 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 completed when the hazard warning lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION (UNLOCK OPERATION)

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

IGN OFF Interlock Door Unlock*1

All doors are unlocked when the power supply position is changed from ON to OFF.

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

P Range Interlock Door Unlock

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 power supply position ON.
4. The switching is completed when the hazard warning lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

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

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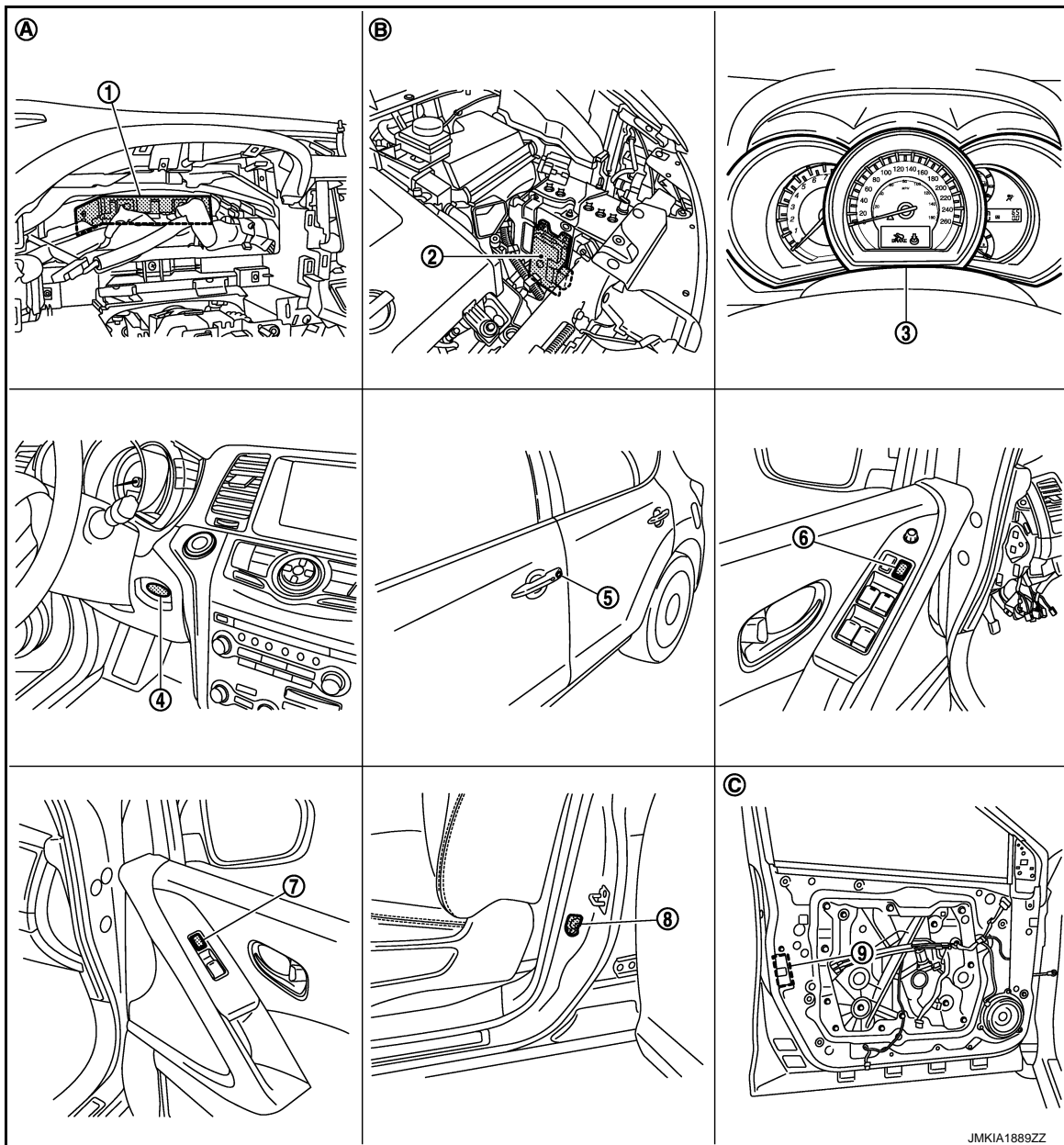
POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Component Parts Location

INFOID:000000009718883



- | | | |
|---|---|---|
| 1. BCM M118, M119, M121, M122, M123 | 2. TCM F23 | 3. Combination meter M34 |
| 4. Key slot M99 | 5. Front door lock assembly (driver side) (door key cylinder switch) D9 | 6. Power window main switch (door lock and unlock switch) D5, D6 |
| 7. Front power window switch (passenger side) (door lock and unlock switch) D45 | 8. Front door switch (driver side) B34 | 9. Front door lock assembly (driver side) (door lock actuator) D9 |
| A. Behind the combination meter | B. Engine room LH | C. View with front door finisher removed |

Component Description

INFOID:000000009718884

Item	Function
BCM	Controls the door lock function and room lamp function.
Door lock and unlock switch	Input lock or unlock signal to BCM.

POWER DOOR LOCK SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Item	Function
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Door key cylinder switch	<ul style="list-style-type: none">• Input lock or unlock signal to power window main switch.• Power window main switch transmits door lock/unlock signal to BCM.
Key slot	Input key insert/remove signal to BCM.
Combination meter	<ul style="list-style-type: none">• Receive buzzer signal from BCM via CAN communication line, and sounds the buzzer.• Transmits vehicle speed signal to CAN communication line.
TCM	Transmit shift position signal to BCM via CAN communication line.
Push-button ignition switch	Input push-button ignition switch ON/OFF condition to BCM.

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INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

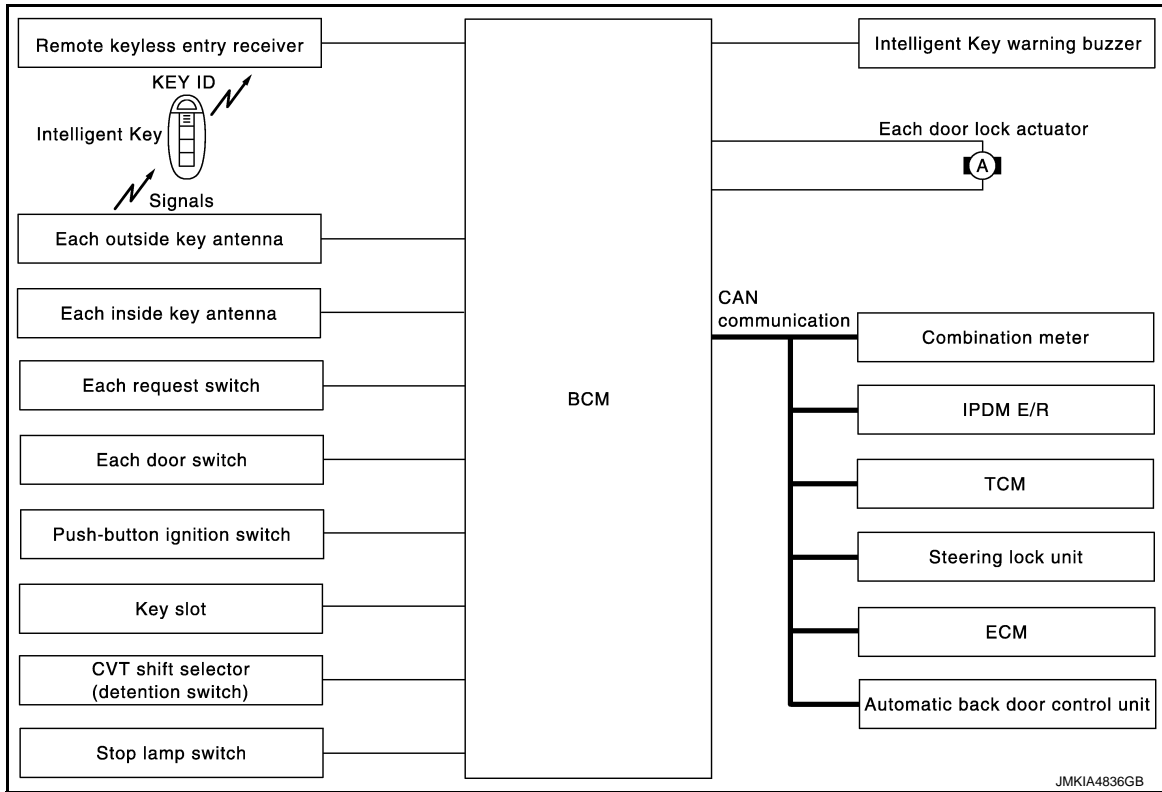
[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Diagram

INFOID:000000009718885



INTELLIGENT KEY SYSTEM : System Description

INFOID:000000009718886

- 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 the CONSULT.

Function	Description	Refer
Door lock function	Lock/unlock can be performed by pressing the request switch.	DLK-21
Remote keyless entry function	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key.	DLK-30
Back door open function	The back door can be opened by carrying the Intelligent Key and pressing the back door opener switch.	DLK-26
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 goes off to inform the driver.	DLK-37
Engine start function	The engine be turned on while carrying the Intelligent Key.	SEC-9

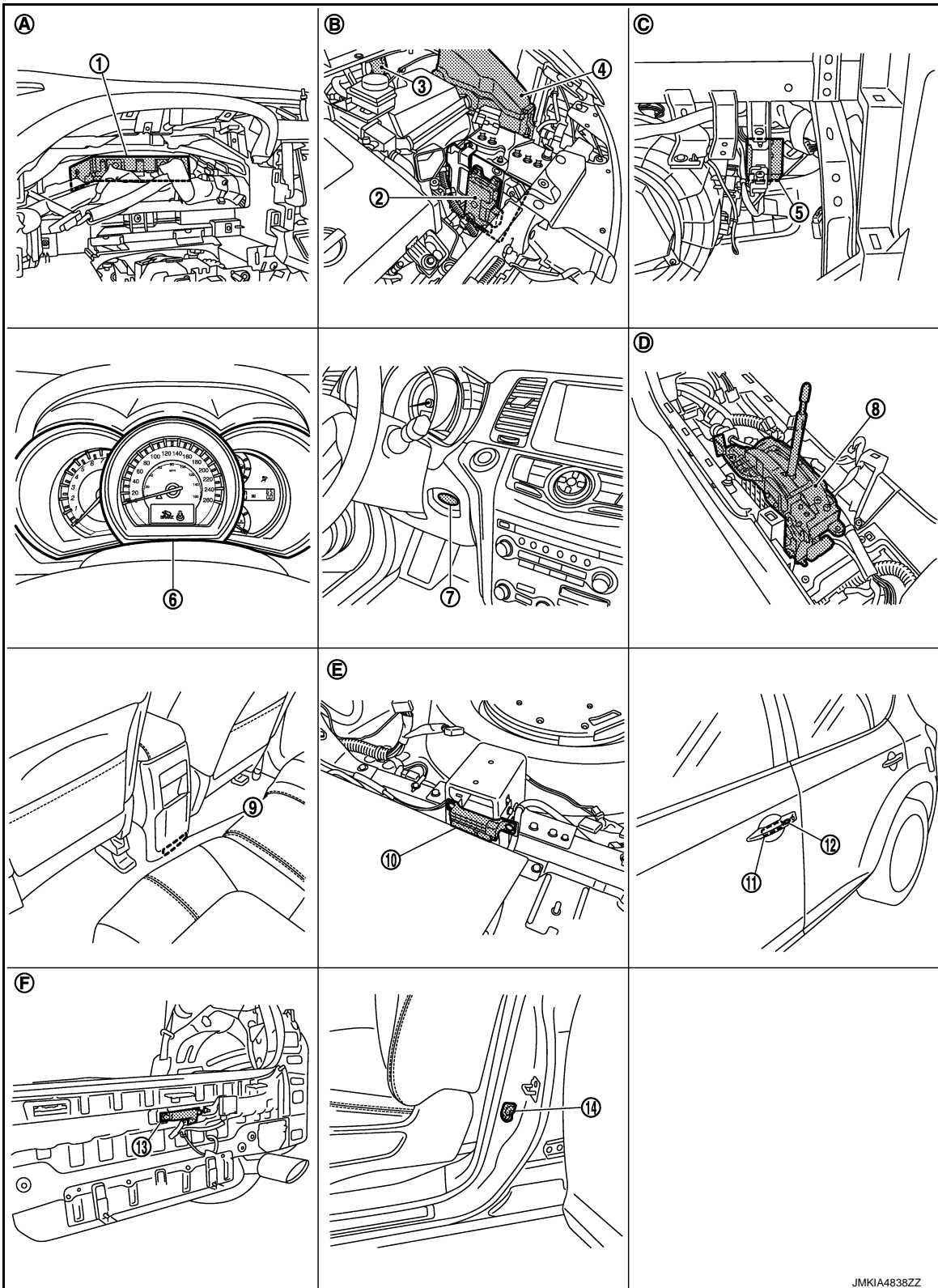
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM : Component Parts Location

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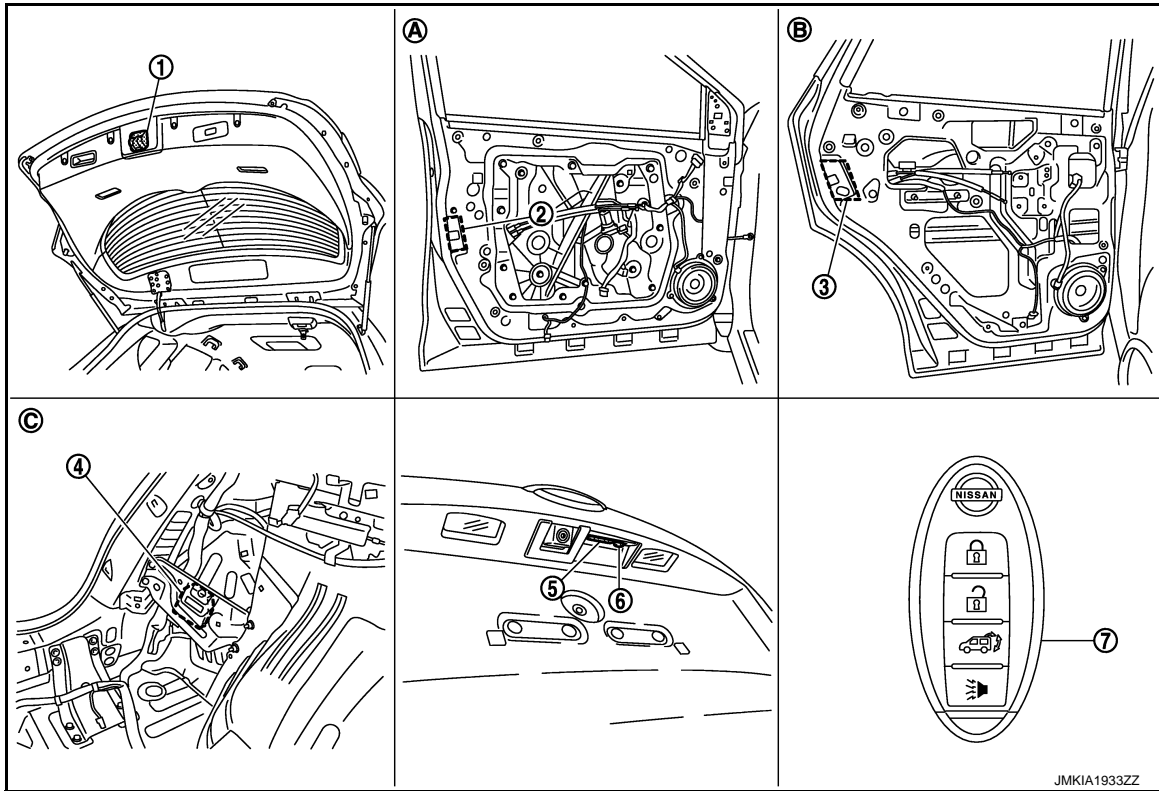
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| 1. BCM M118, M119, M120, M121, M122, M123 | 2. TCM F23 | 3. Intelligent key warning buzzer E25 |
| 4. IPDM E/R E10, E11 | 5. Remote keyless entry receiver M78 | 6. Combination meter M34 |
| 7. Key slot M99 | 8. CVT shift selector (detention switch) M57 | 9. Inside key antenna (console) M262 |

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- | | | |
|---|---|--|
| 10. Inside key antenna (luggage room) B86 | 11. Front outside handle LH (outside key antenna) D12 | 12. Front outside handle LH (request switch) D11 |
| 13. Outside key antenna (rear bumper) B85 | 14. Front door switch (driver side) B34 | |
| A. Behind the combination meter | B. Engine room (LH) | C. Behind the instrument lower panel RH |
| D. Behind the center console | E. Under the rear seat seatback | F. View with rear bumper removed |



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|---|--|---|
| 1. Back door lock assembly
With automatic back door: D179
Without automatic back door: D180 | 2. Front door lock assembly (driver side) D9 | 3. Rear door lock assembly LH D85 |
| 4. Automatic back door control unit B7, B8 | 5. Back door opener switch assembly (opener switch) D186 | 6. Back door opener switch assembly (request switch) D186 |
| 7. Intelligent Key | | |
| A. View with front door finisher removed | B. View with rear door finisher removed | C. Behind the luggage side finisher lower (LH) |

INTELLIGENT KEY SYSTEM : Component Description

INFOID:000000009718888

Item	Function
BCM	Controls the Intelligent Key system.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Request switch	Input 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.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

INTELLIGENT KEY SYSTEM

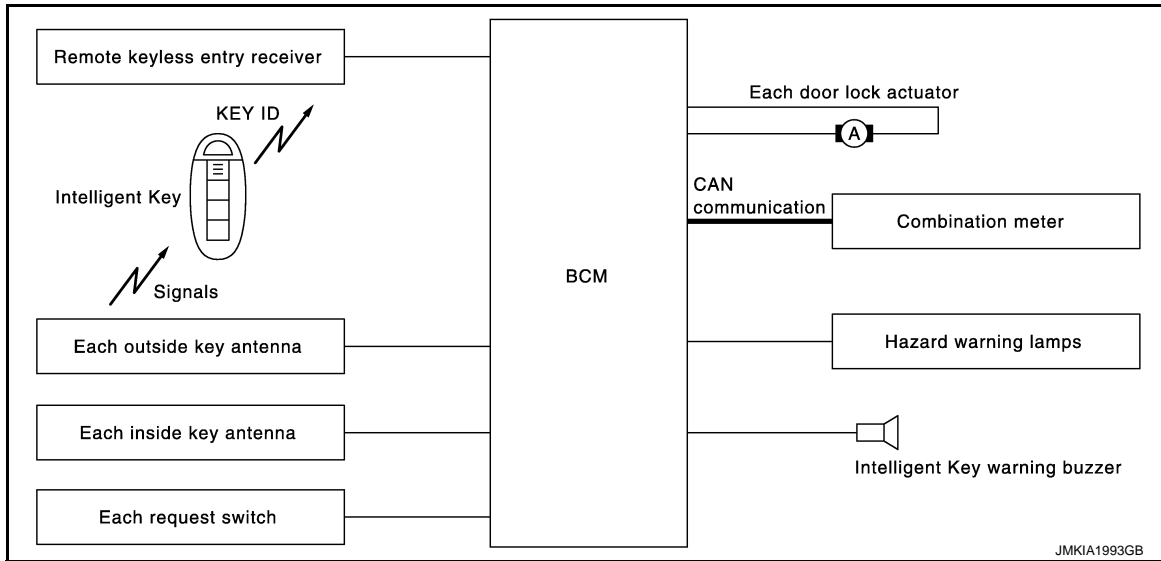
[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Diagram

INFOID:000000009718889



DOOR LOCK FUNCTION : System Description

INFOID:000000009718890

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

OPERATION CONDITION

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

Each request switch operation	Operation condition
Lock operation	<ul style="list-style-type: none"> • All doors are closed • Ignition switch is in OFF position • Intelligent Key is out of key slot • Intelligent Key is outside the vehicle • Intelligent Key is within outside key antenna detection area
Unlock Operation	<ul style="list-style-type: none"> • 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.

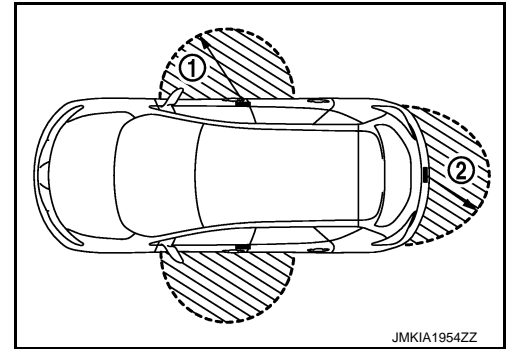
OUTSIDE KEY ANTENNA DETECTION AREA

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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 and (1) and the back door request switch (2). However, this operating range depends on the ambient conditions.



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SELECTIVE UNLOCK FUNCTION

When an LOCK signal is sent from door request switch (driver side or passenger side), all doors will be locked. When an UNLOCK signal is sent from door request switch (driver side or passenger side) once, driver's door will be unlocked.

Then, if an UNLOCK signal is sent from door request switch (driver side and passenger side) again within 60 seconds, all other door will be unlocked.

HAZARD AND BUZZER REMINDER FUNCTION

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

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

Operating Function of Hazard and Buzzer Reminder

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

How to Change Hazard and Buzzer Reminder Mode

Refer to [DLK-57. "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

AUTO DOOR LOCK FUNCTION

When all doors are locked, ignition switch is in OFF position and key switch is OFF (Intelligent Key is not inserted in key slot), doors are unlocked with door request switch

When BCM does not receive the following signals within 60 seconds, all doors are locked.

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

Auto door lock mode can be changed by "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [DLK-57. "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)".](#)

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	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamp	Push-button ignition switch	Combination meter
Door lock/unlock function by door request switch	×	×	×	×	×	×	×	×			×			
Hazard and buzzer reminder function for door lock/unlock operation									×	×	×	×		×

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

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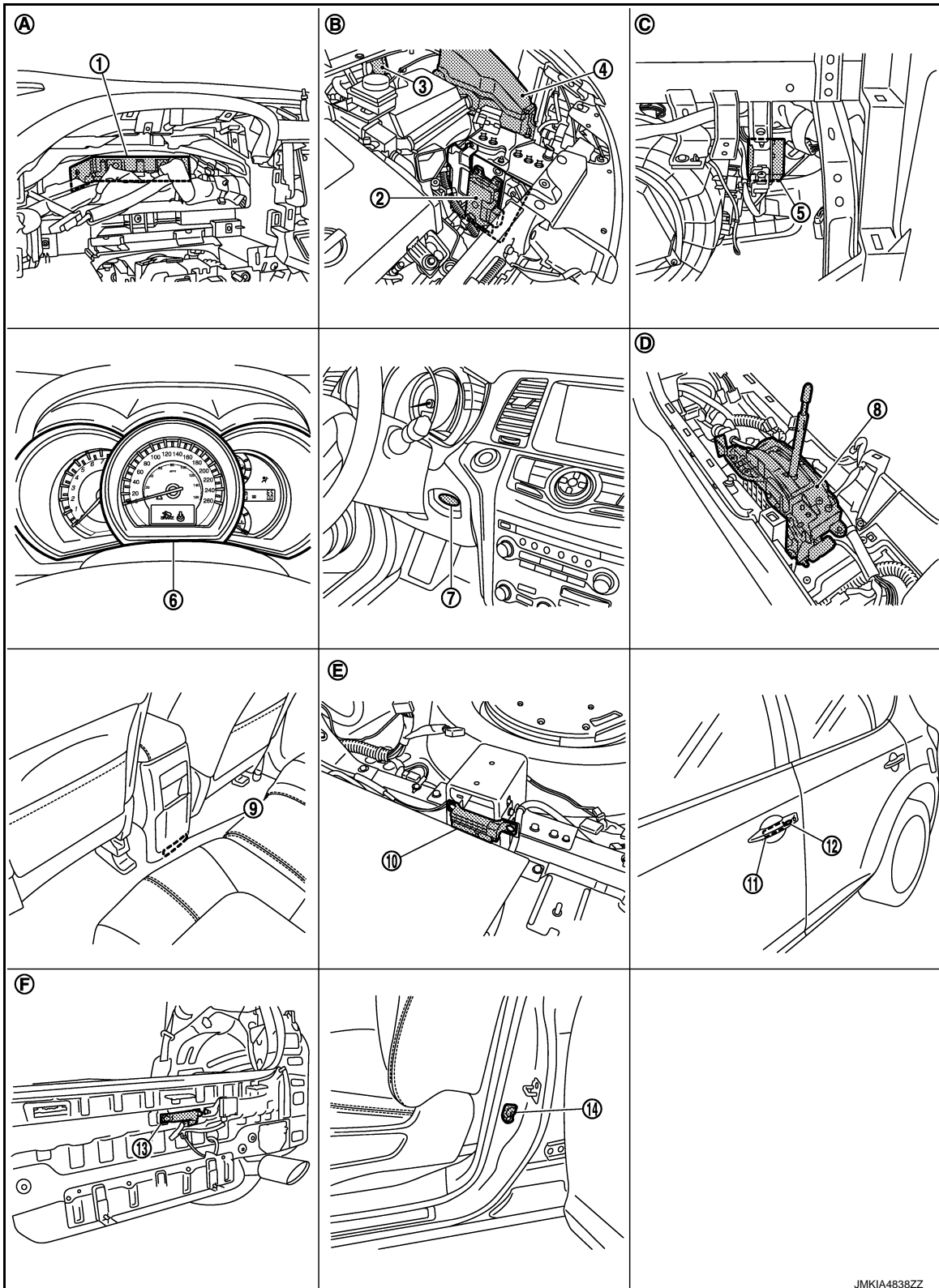
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK FUNCTION : Component Parts Location

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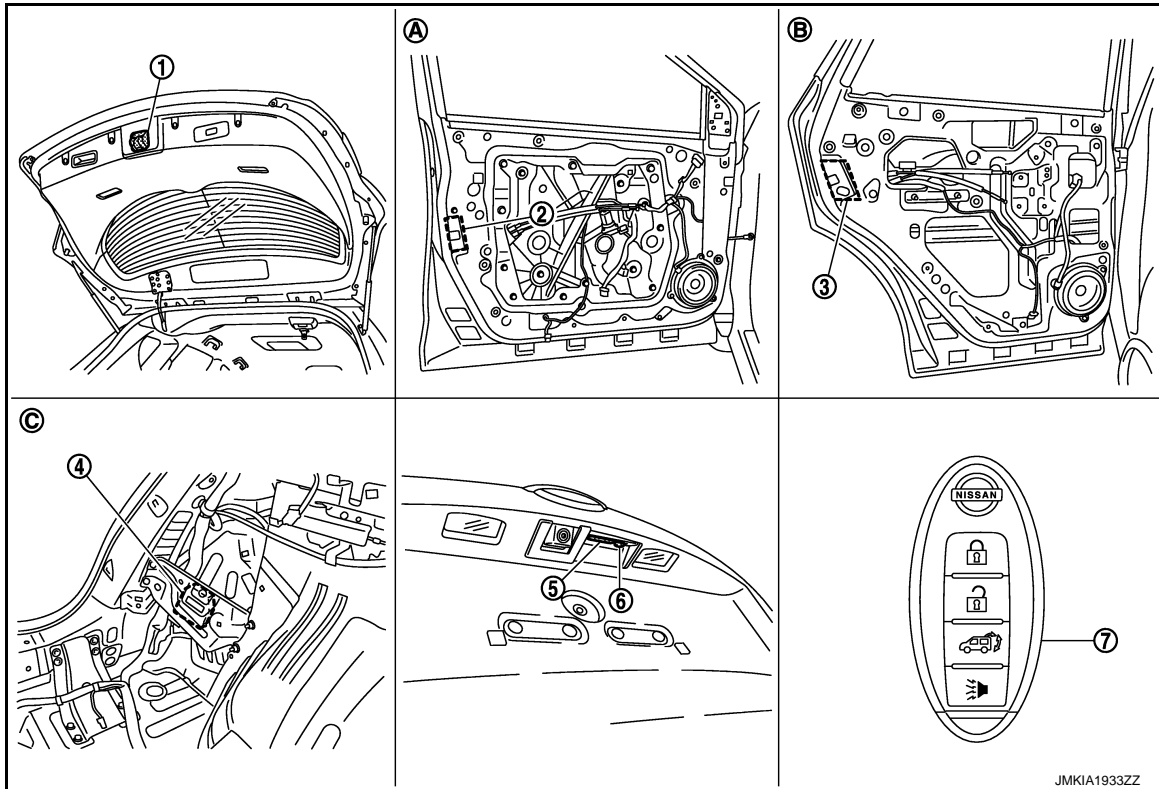
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| 1. BCM M118, M119, M120, M121, M122, M123 | 2. TCM F23 | 3. Intelligent key warning buzzer E25 |
| 4. IPDM E/R E10, E11 | 5. Remote keyless entry receiver M78 | 6. Combination meter M34 |
| 7. Key slot M99 | 8. CVT shift selector (detention switch) M57 | 9. Inside key antenna (console) M262 |

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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|---|---|--|
| 10. Inside key antenna (luggage room) B86 | 11. Front outside handle LH (outside key antenna) D12 | 12. Front outside handle LH (request switch) D11 |
| 13. Outside key antenna (rear bumper) B85 | 14. Front door switch (driver side) B34 | |
| A. Behind the combination meter | B. Engine room (LH) | C. Behind the instrument lower panel RH |
| D. Behind the center console | E. Under the rear seat seatback | F. View with rear bumper removed |



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|---|--|---|
| 1. Back door lock assembly
With automatic back door: D179
Without automatic back door: D180 | 2. Front door lock assembly (driver side) D9 | 3. Rear door lock assembly LH D85 |
| 4. Automatic back door control unit B7, B8 | 5. Back door opener switch assembly (opener switch) D186 | 6. Back door opener switch assembly (request switch) D186 |
| 7. Intelligent Key | | |
| A. View with front door finisher removed | B. View with rear door finisher removed | C. Behind the luggage side finisher lower (LH) |

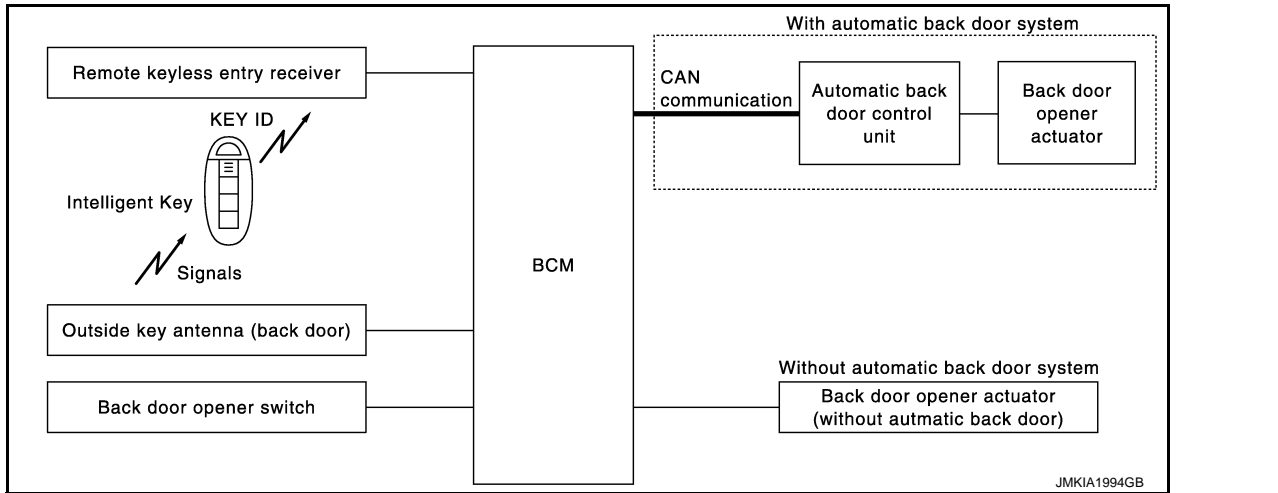
DOOR LOCK FUNCTION : Component Description

INFOID:000000009718892

Item	Function
BCM	Controls the door lock function.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input 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	Input 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	Receives hazard warning lamp signal from BCM and blinks turn signal indicators.
Intelligent Key warning buzzer	Warns the user of the lock/unlock condition and inappropriate operations with the buzzer sound.

BACK DOOR OPEN FUNCTION

BACK DOOR OPEN FUNCTION : System Diagram



BACK DOOR OPEN FUNCTION : System Description

INFOID:000000009718894

This section describes the operation of the back door opener switch. The operation of the back door request switch is the same as the door lock function. Refer to [DLK-21, "DOOR LOCK FUNCTION : System Description"](#).

- The back door opener function can open the back door by pressing the back door opener switch while carrying the Intelligent Key. At this time, all doors other than the back door are locked.
- The back door opener function can open the back door by pressing the back door opener switch with all doors unlocked by the door request switch or Intelligent Key.

Refer to [DLK-44, "System Description"](#) for the automatic back door operation.

BACK DOOR OPEN

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

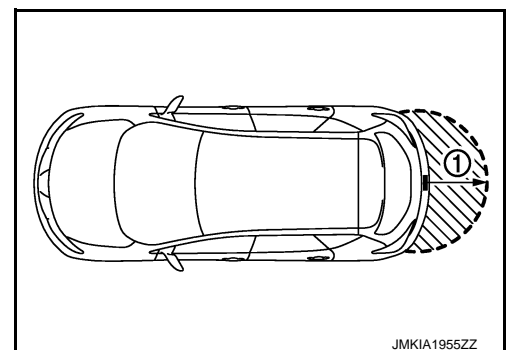
OPERATION CONDITION

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

- Back door is closed
- Ignition switch is in off position
- Intelligent Key is out of key slot
- Intelligent Key is outside of vehicle
- Intelligent Key is within outside key antenna detection area

OUTSIDE KEY ANTENNA DETECTION AREA

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



INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

HAZARD AND BUZZER REMINDER FUNCTION

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

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	Inside key antenna	Outside key antenna (Rear bumper)	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamp	Back door opener switch
Back door open function by back door opener switch (Carrying Intelligent Key)	×	×	×	×	×	×	×	×		×	×		×
Hazard and buzzer reminder function for door lock/unlock operation									×	×	×	×	

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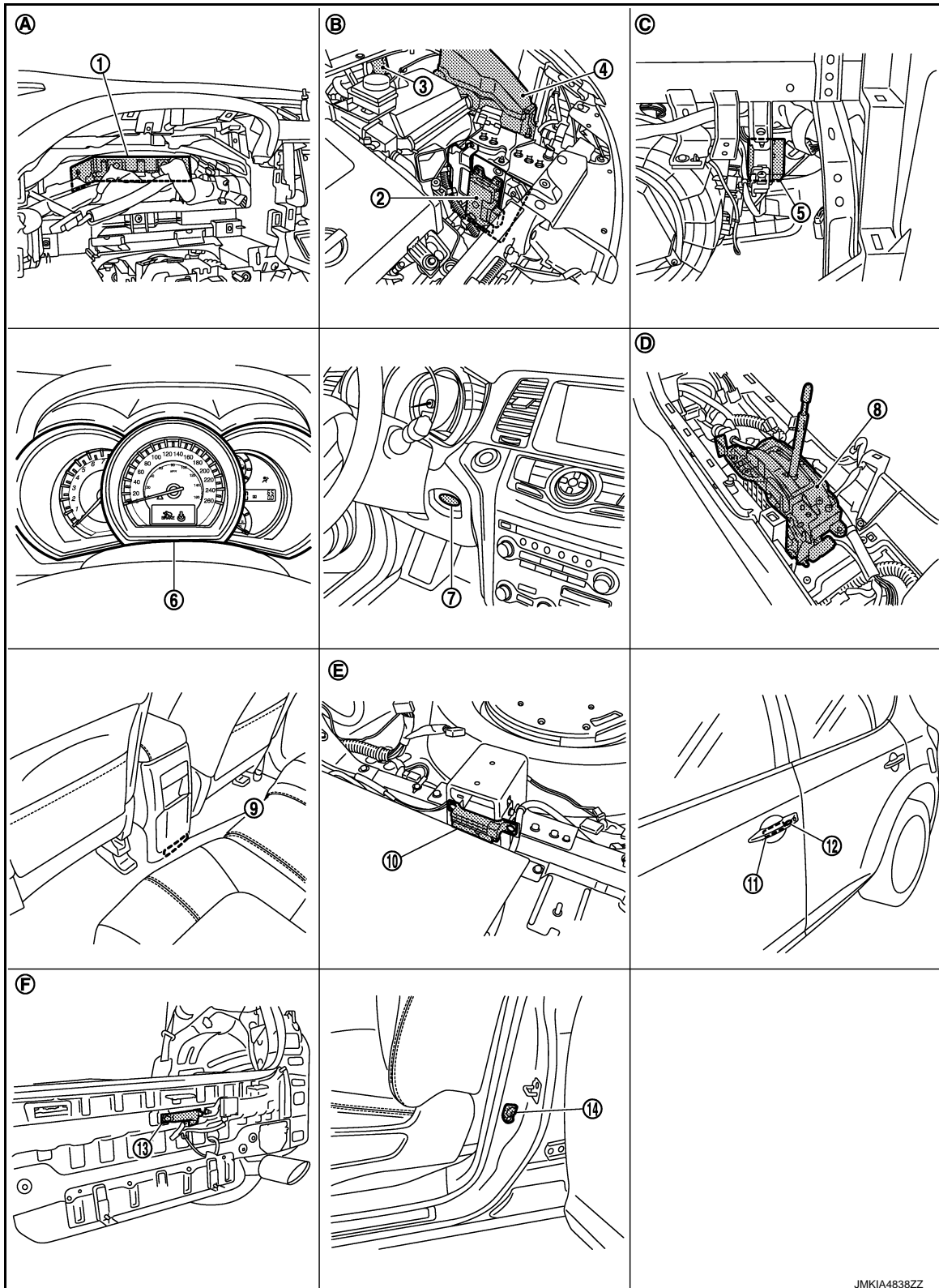
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPEN FUNCTION : Component Parts Location

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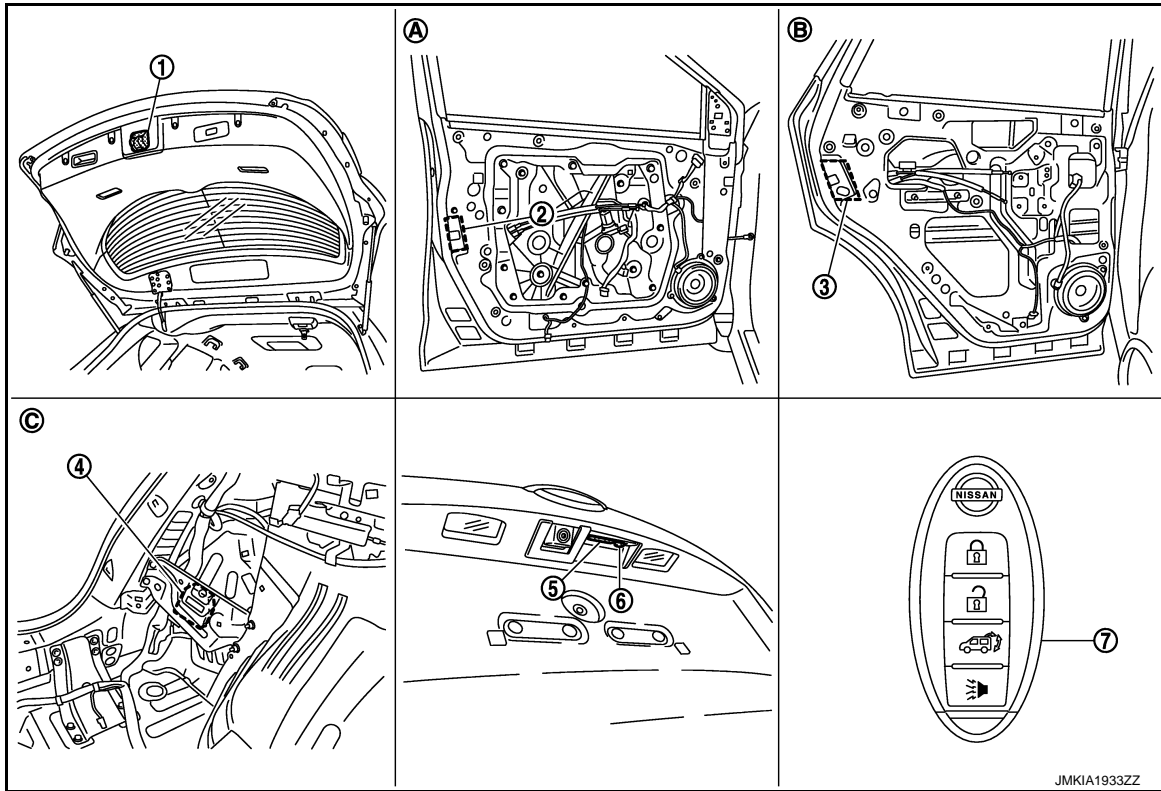
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| 1. BCM M118, M119, M120, M121, M122, M123 | 2. TCM F23 | 3. Intelligent key warning buzzer E25 |
| 4. IPDM E/R E10, E11 | 5. Remote keyless entry receiver M78 | 6. Combination meter M34 |
| 7. Key slot M99 | 8. CVT shift selector (detention switch) M57 | 9. Inside key antenna (console) M262 |

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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|---|---|--|
| 10. Inside key antenna (luggage room) B86 | 11. Front outside handle LH (outside key antenna) D12 | 12. Front outside handle LH (request switch) D11 |
| 13. Outside key antenna (rear bumper) B85 | 14. Front door switch (driver side) B34 | |
| A. Behind the combination meter | B. Engine room (LH) | C. Behind the instrument lower panel RH |
| D. Behind the center console | E. Under the rear seat seatback | F. View with rear bumper removed |



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|---|--|---|
| 1. Back door lock assembly
With automatic back door: D179
Without automatic back door: D180 | 2. Front door lock assembly (driver side) D9 | 3. Rear door lock assembly LH D85 |
| 4. Automatic back door control unit B7, B8 | 5. Back door opener switch assembly (opener switch) D186 | 6. Back door opener switch assembly (request switch) D186 |
| 7. Intelligent Key | | |
| A. View with front door finisher removed | B. View with rear door finisher removed | C. Behind the luggage side finisher lower (LH) |

BACK DOOR OPEN FUNCTION : Component Description

INFOID:000000009718896

Item	Function
BCM	Controls the back door open function and room lamp function.
Back door opener switch	Input press/degrees signal to BCM.
Door lock actuator	Receives lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Request switch (back door)	Input 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	Detects if Intelligent Key is inside the vehicle.

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INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

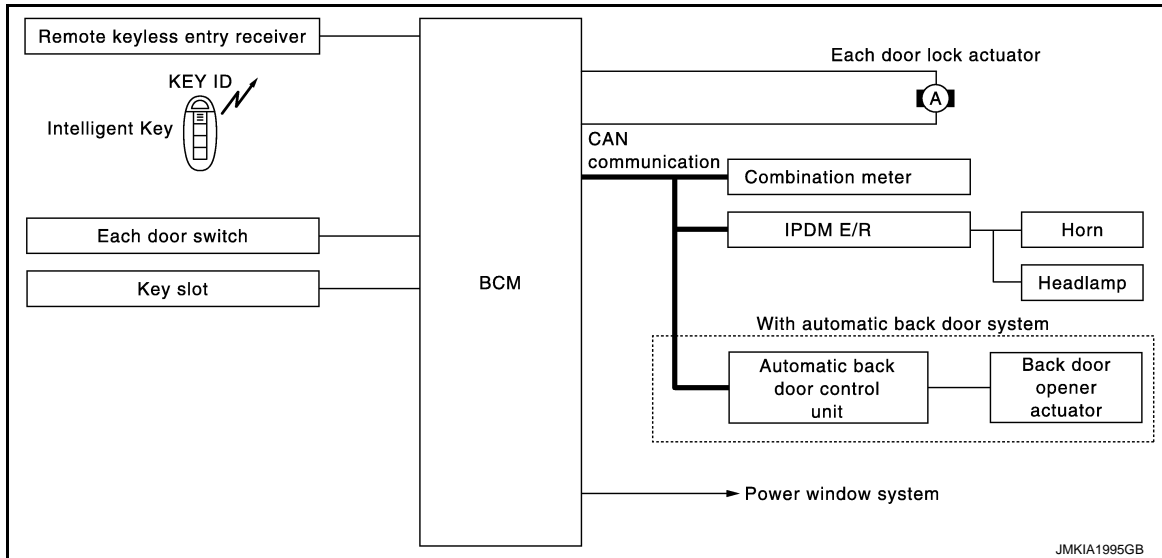
< SYSTEM DESCRIPTION >

Item	Function
Intelligent Key warning buzzer	Warns the user of the back door open/close condition and inappropriate operations with the buzzer sound.
Automatic back door control unit	Controls back door open/close automatically.

REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION : System Diagram

INFOID:00000009718897



REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:00000009718898

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

OPERATION

Remote keyless entry system controls operation of the

- Door lock/unlock
- Automatic back door open
- Selective unlock
- Hazard and horn reminder
- Auto door lock
- Panic alarm
- Power window down

OPERATION AREA

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

OPERATION CONDITION

Remote controller operation	Operation condition	Operation
Lock	<ul style="list-style-type: none"> • All doors closed 	All doors lock
Unlock	<ul style="list-style-type: none"> • Intelligent Key is out of key slot 	All doors unlock

AUTOMATIC BACK DOOR OPEN FUNCTION

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

When back door button of Intelligent Key is pressed for more than 1 second, back door open automatically for detailed description, refer to [DLK-44, "System Description"](#).

SELECTIVE UNLOCK FUNCTION

When an LOCK signal is transmitted from Intelligent Key, all doors will be locked.

When an UNLOCK signal is transmitted from Intelligent Key once, driver's door will be unlocked.

Then, if an UNLOCK signal is transmitted from Intelligent Key again within 60 seconds, all other door will be unlocked.

HAZARD AND HORN REMINDER FUNCTION

When doors are locked or unlocked by Intelligent Key, BCM flashes hazard warning lamps as a reminder. 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

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

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

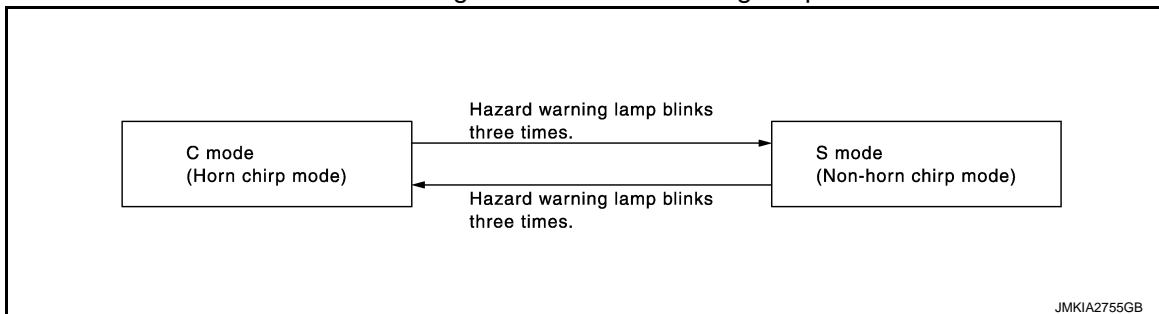
How to Change Hazard and Horn Reminder Mode

📖 With CONSULT

Refer to [DLK-57, "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 follows:



AUTO DOOR LOCK FUNCTION

When all doors are locked, ignition switch is OFF (ignition switch is not pressed) and key switch is OFF (Intelligent Key is not inserted in key slot), doors are unlocked with Intelligent Key button. When BCM does not receive the following signals within 30 seconds, all doors are locked.

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

Auto door lock mode can be changed by "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [DLK-57, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

PANIC ALARM FUNCTION

When ignition switch is OFF (ignition switch is not pressed) and key switch is OFF (Intelligent Key is not inserted in key slot), BCM receives PANIC ALARM signal from Intelligent Key.

BCM turns on and off headlamp intermittently and transmits theft warning horn signal to IPDM E/R. Then, IPDM E/R turns on and off horn intermittently.

The headlamp blinks and the horn sounds intermittently.

The alarm automatically turns off:

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

Panic alarm function mode can be changed by "PANIC ALARM SET" mode in "WORK SUPPORT". Refer to [DLK-57, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

KEYLESS POWER WINDOW DOWN (OPEN) FUNCTION

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

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

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

While retained power operation activate, Keyless power window down (open) function cannot be operated.

Keyless power window down operation mode can be changed by "PW DOWN SET" mode in "WORK SUPPORT". Refer to [DLK-57. "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

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

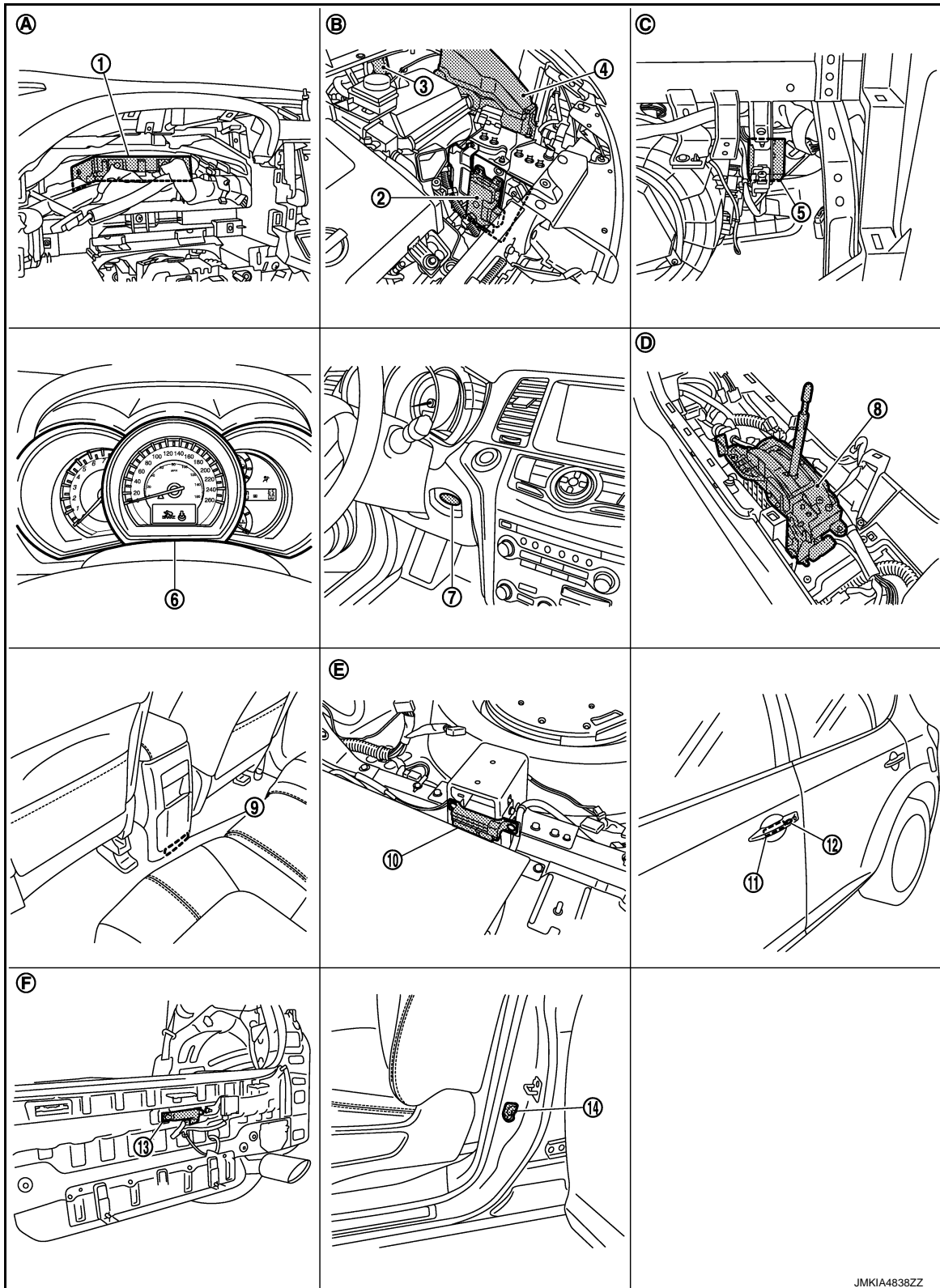
INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY FUNCTION : Component Parts Location

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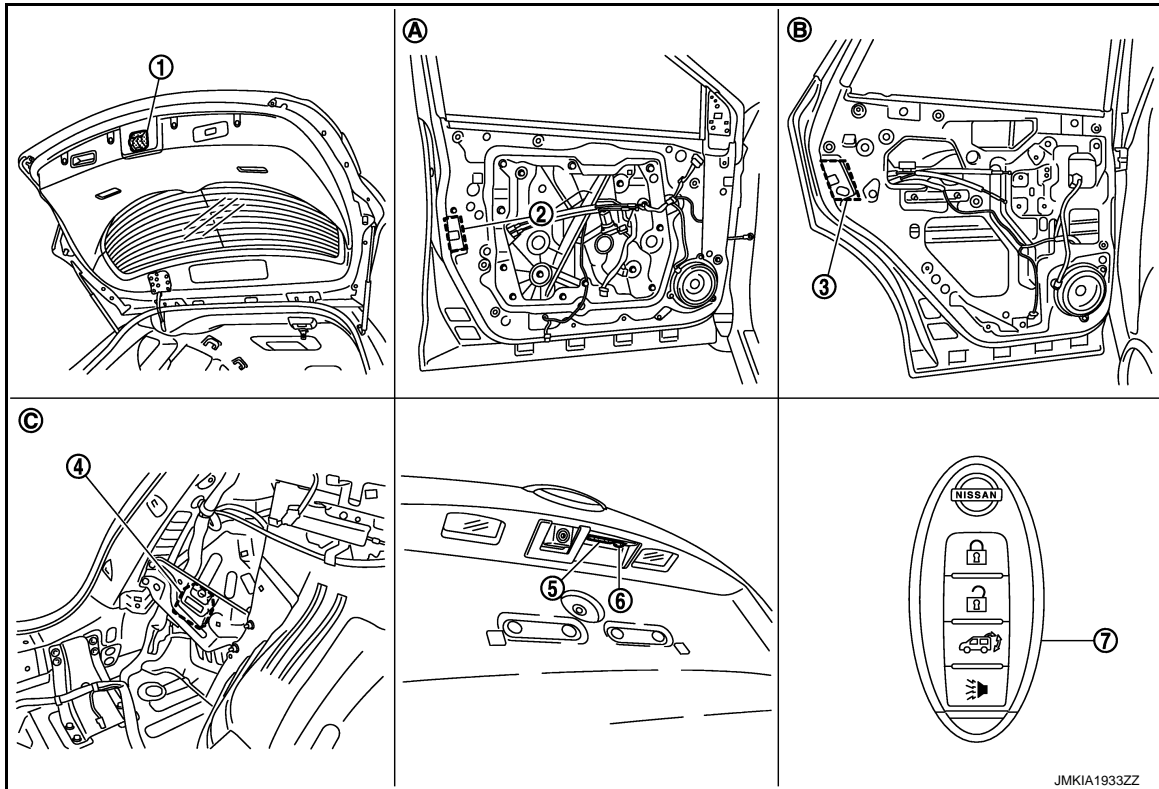
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| 1. BCM M118, M119, M120, M121, M122, M123 | 2. TCM F23 | 3. Intelligent key warning buzzer E25 |
| 4. IPDM E/R E10, E11 | 5. Remote keyless entry receiver M78 | 6. Combination meter M34 |
| 7. Key slot M99 | 8. CVT shift selector (detention switch) M57 | 9. Inside key antenna (console) M262 |

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- | | | |
|---|---|--|
| 10. Inside key antenna (luggage room) B86 | 11. Front outside handle LH (outside key antenna) D12 | 12. Front outside handle LH (request switch) D11 |
| 13. Outside key antenna (rear bumper) B85 | 14. Front door switch (driver side) B34 | |
| A. Behind the combination meter | B. Engine room (LH) | C. Behind the instrument lower panel RH |
| D. Behind the center console | E. Under the rear seat seatback | F. View with rear bumper removed |



- | | | |
|---|---|---|
| 1. Back door lock assembly
With automatic back door: D179
Without automatic back door: D180 | 2. Front door lock assembly (driver side) D9 | 3. Rear door lock assembly LH D85 |
| 4. Automatic back door control unit B7, B8 | 5. Back door opener switch assembly (open-er switch) D186 | 6. Back door opener switch assembly (request switch) D186 |
| 7. Intelligent Key | | |
| A. View with front door finisher removed | B. View with rear door finisher removed | C. Behind the luggage side finisher lower (LH) |

REMOTE KEYLESS ENTRY FUNCTION : Component Description

INFOID:000000009718900

Item	Function
BCM	Controls the door lock function and room lamp function.
Door lock actuator	Outputs lock/unlock signal from BCM and locks/unlocks each door.
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.

KEY REMINDER FUNCTION

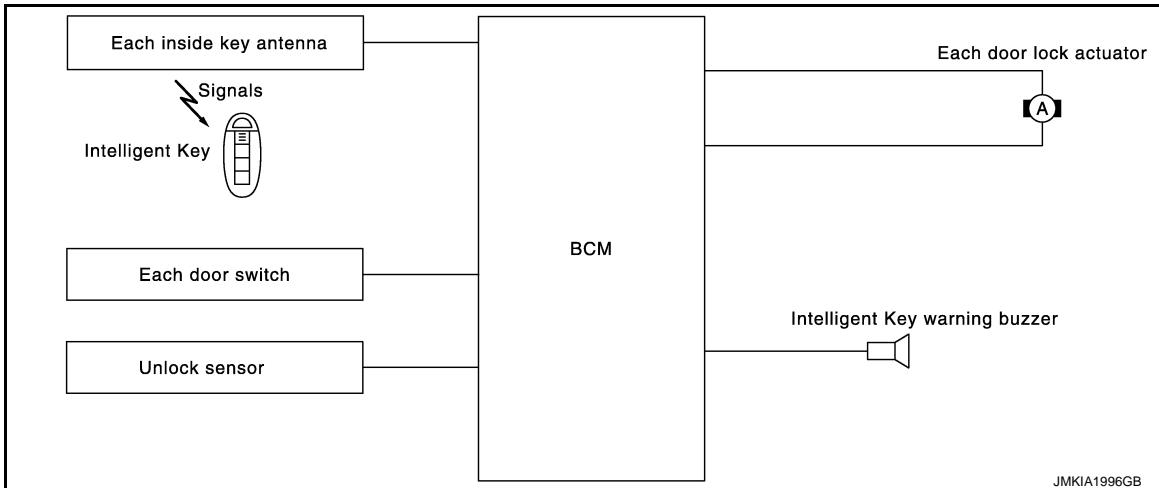
INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

KEY REMINDER FUNCTION : System Description

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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 <ul style="list-style-type: none"> • Door lock operation is performed • Driver side door is opened • Driver side door is in lock state 	All doors unlock
Door is open or closed	Right after all doors are closed under the following conditions <ul style="list-style-type: none"> • Intelligent Key is inside the vehicle • Any door is opened • All doors are locked by door lock and unlock switch or door lock knob 	<ul style="list-style-type: none"> • All doors unlock • Honk Intelligent Key warning buzzer
Back door is closed	Right after back door is closed under the following conditions <ul style="list-style-type: none"> • Intelligent Key is inside vehicle • All doors (except back door) are closed • All doors (except back door) are locked 	<ul style="list-style-type: none"> • All doors unlock • Back door can open with back door opener switch • Honk Intelligent Key warning buzzer

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

CAUTION:

- The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function will not operate when the Intelligent Key is on the instrument panel, 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 is operated when the back door is open/closed and the buzzers sound, if the following operations are performed, the key reminder function is cleared and buzzer sounds are stopped.
 - Remote controller door lock button operation of Intelligent Key
 - Remote controller door unlock button operation of Intelligent Key
 - When the back door is closed, the Intelligent Key is not inside the vehicle
 - When any door is open

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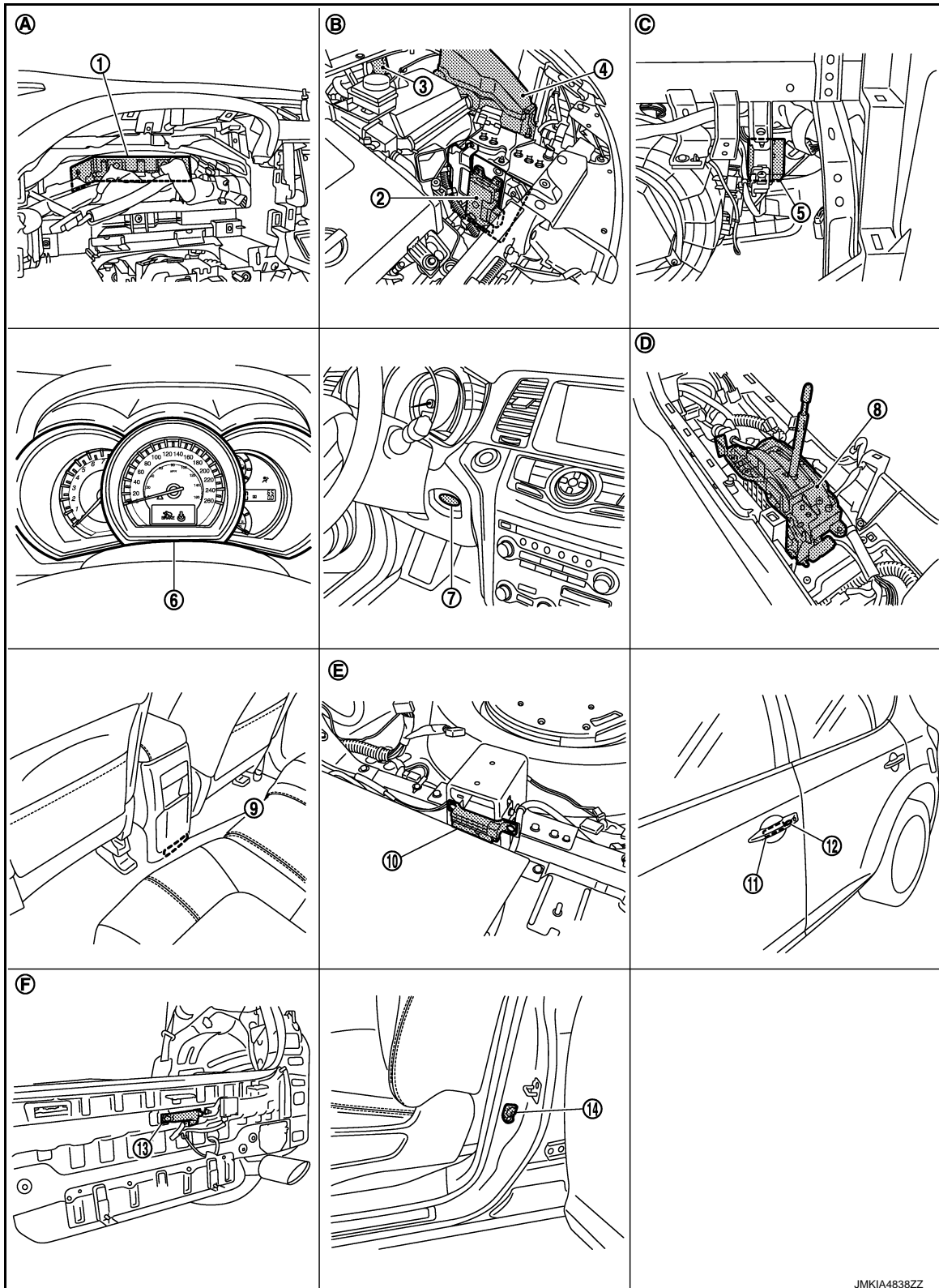
INTELLIGENT KEY SYSTEM

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[WITH INTELLIGENT KEY SYSTEM]

KEY REMINDER FUNCTION : Component Parts Location

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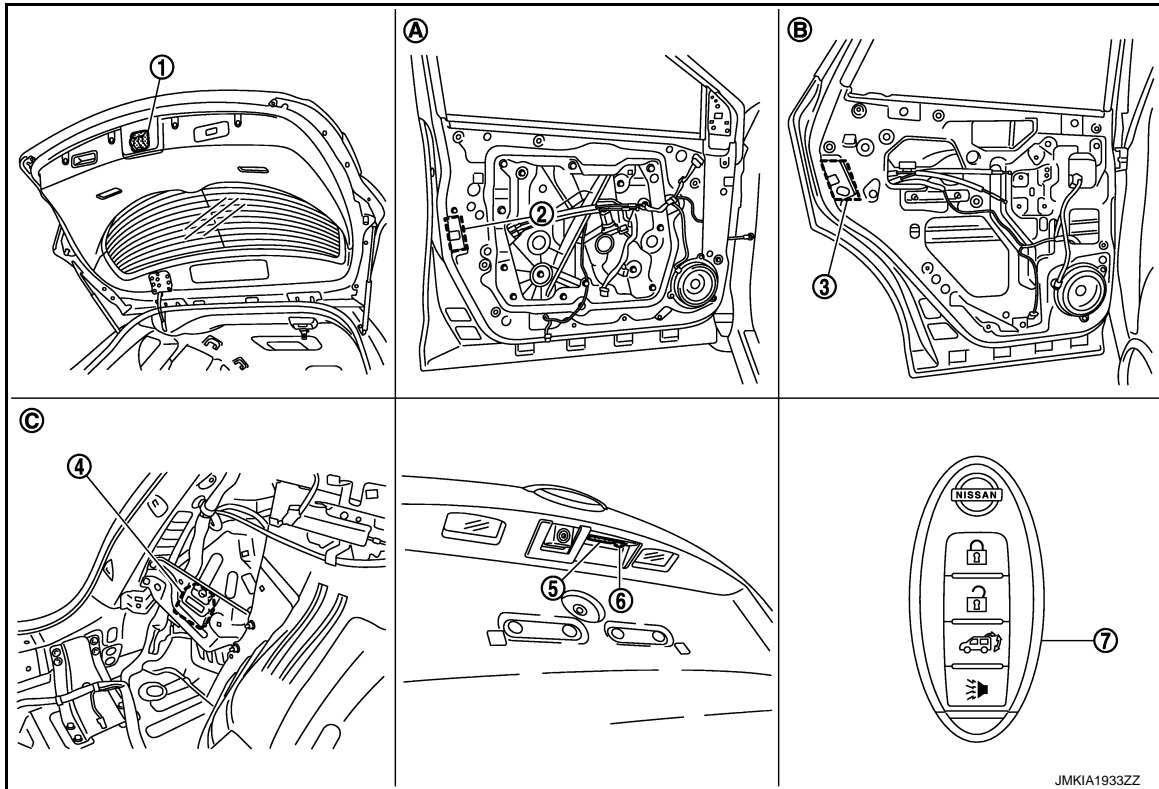
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| 1. BCM M118, M119, M120, M121, M122, M123 | 2. TCM F23 | 3. Intelligent key warning buzzer E25 |
| 4. IPDM E/R E10, E11 | 5. Remote keyless entry receiver M78 | 6. Combination meter M34 |
| 7. Key slot M99 | 8. CVT shift selector (detention switch) M57 | 9. Inside key antenna (console) M262 |

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- | | | |
|---|---|--|
| 10. Inside key antenna (luggage room) B86 | 11. Front outside handle LH (outside key antenna) D12 | 12. Front outside handle LH (request switch) D11 |
| 13. Outside key antenna (rear bumper) B85 | 14. Front door switch (driver side) B34 | |
| A. Behind the combination meter | B. Engine room (LH) | C. Behind the instrument lower panel RH |
| D. Behind the center console | E. Under the rear seat seatback | F. View with rear bumper removed |



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| 1. Back door lock assembly
With automatic back door: D179
Without automatic back door: D180 | 2. Front door lock assembly (driver side) D9 | 3. Rear door lock assembly LH D85 |
| 4. Automatic back door control unit B7, B8 | 5. Back door opener switch assembly (opener switch) D186 | 6. Back door opener switch assembly (request switch) D186 |
| 7. Intelligent Key | | |
| A. View with front door finisher removed | B. View with rear door finisher removed | C. Behind the luggage side finisher lower (LH) |

WARNING FUNCTION

WARNING FUNCTION : System Description

INFOID:000000009718903

OPERATION DESCRIPTION

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

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INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

- Intelligent key low battery warning
- Key ID warning

OPERATION CONDITION

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

Warning/Information functions		Operation procedure
Intelligent Key system malfunction		When a malfunction is detected on BCM, "KEY" warning lamp will illuminate.
OFF position warning	For internal	When condition A, B or condition C is satisfied <ul style="list-style-type: none"> • Condition A <ul style="list-style-type: none"> - Ignition switch: ACC position - Door switch (driver side): ON (Door is open) • Condition B <ul style="list-style-type: none"> - Turn ignition switch from ON to OFF while door is open • Condition C <ul style="list-style-type: none"> - 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 has been closed. NOTE: OFF position (For external) active only when each of the sequence has occurred as below: P position warning → ACC warning → OFF position warning (For internal) → OFF position warning (For internal)
P position warning		<ul style="list-style-type: none"> • Shift position: Except P position. • Engine is running to stopped (Ignition switch is ON to OFF).
ACC warning		<ul style="list-style-type: none"> • During P position warning is in active mode, shift position has changed P position. • Ignition switch: ACC position.
Take away warning	Door is open to close	<ul style="list-style-type: none"> • Ignition switch: Except LOCK position. • Door switch: ON to OFF (Door is open to close). • Intelligent Key can not be detected inside the vehicle.
	Door is open	<ul style="list-style-type: none"> • Door switch: ON (Door is open). • Key ID verification every 5 seconds when registered Intelligent Key can not be detected inside the vehicle.
	Push button-ignition switch operation	<ul style="list-style-type: none"> • Ignition switch: Except LOCK position. • Press push-button ignition switch. • Intelligent Key can not be detected inside the vehicle.
	Take away through window	<ul style="list-style-type: none"> • Engine is running. • Key ID verification every 30 seconds when registered Intelligent Key can not be detected inside the vehicle. • After vehicle speed verification, the registered Intelligent Key can not be detected inside the vehicle.
	Intelligent Key is removed from key slot	<ul style="list-style-type: none"> • When Intelligent Key is removed from key slot, Intelligent Key can not be detected inside the vehicle.
Door lock operation warning	Request switch operation	When request switch is pushed (lock operation) under the following conditions. <ul style="list-style-type: none"> • All door is closed. • All door is unlocked. • Intelligent Key is inside vehicle.
	Intelligent Key button operation	When Intelligent Key button is pushed (lock operation) under the following conditions. <ul style="list-style-type: none"> • Door switch: ON (Any door is open). • For 3 seconds after Intelligent Key is removed from key slot.
Key warning		<ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • Door switch: ON to OFF (Door is open to close). • Ignition switch: OFF to ON position. • Intelligent Key is out of key slot. • Intelligent Key can not be detected inside the vehicle.

INTELLIGENT KEY SYSTEM


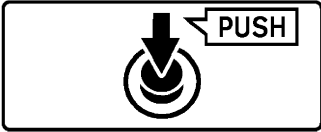

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Warning/Information functions	Operation procedure	
Engine start information	Ignition switch is ON position	<ul style="list-style-type: none"> Ignition switch: ON position. Shift position: P position. Engine is stopped.
	Ignition switch is except ON position	<ul style="list-style-type: none"> 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.
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 can not 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 illumination when the warning conditions are met.

Warning/Information functions	"KEY" warning lamp	Information display (combination meter)	Key slot illumination	Warning chime		
				Combination meter buzzer	Intelligent Key warning buzzer	
Intelligent Key system malfunction	Illuminate	—	—	—	—	
OFF position warning	For internal	—	—	Activate	—	
	For external	—	—	—	Activate	
P position warning	—	 <small>JMKIA0037GB</small>	—	Activate	—	
ACC warning	—	 <small>JMKIA0047GB</small>	—	—	—	
Take away warning	Door is open to close	—	 <small>JMKIA0036GB</small>	Blink	Activate	Activate
	Door is open	—		Flash	—	—
	Push-ignition switch operation	—		Flash	Activate	—
	Take away through window	—		Flash	Activate	—
	Intelligent Key is removed from key slot	—		Flash	—	—
Door lock operation warning	Request switch operation	—	—	—	Activate	
	Intelligent Key operation	—	—	—	Activate	

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Warning/Information functions	"KEY" warning lamp	Information display (combination meter)	Key slot illumination	Warning chime	
				Combination meter buzzer	Intelligent Key warning buzzer
Key ID warning	—	 <small>JMKIA0036GB</small>	—	—	—
Key warning	—	 <small>JMKIA0035GB</small>	Flash	Activate	—
Intelligent Key insert information	—	 <small>JMKIA0034GB</small>	Flash	—	—
Engine start information	—	 <small>JMKIA0032GB</small>	—	—	—
Intelligent Key low battery warning	—	 <small>JMKIA0048GB</small>	—	—	—

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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

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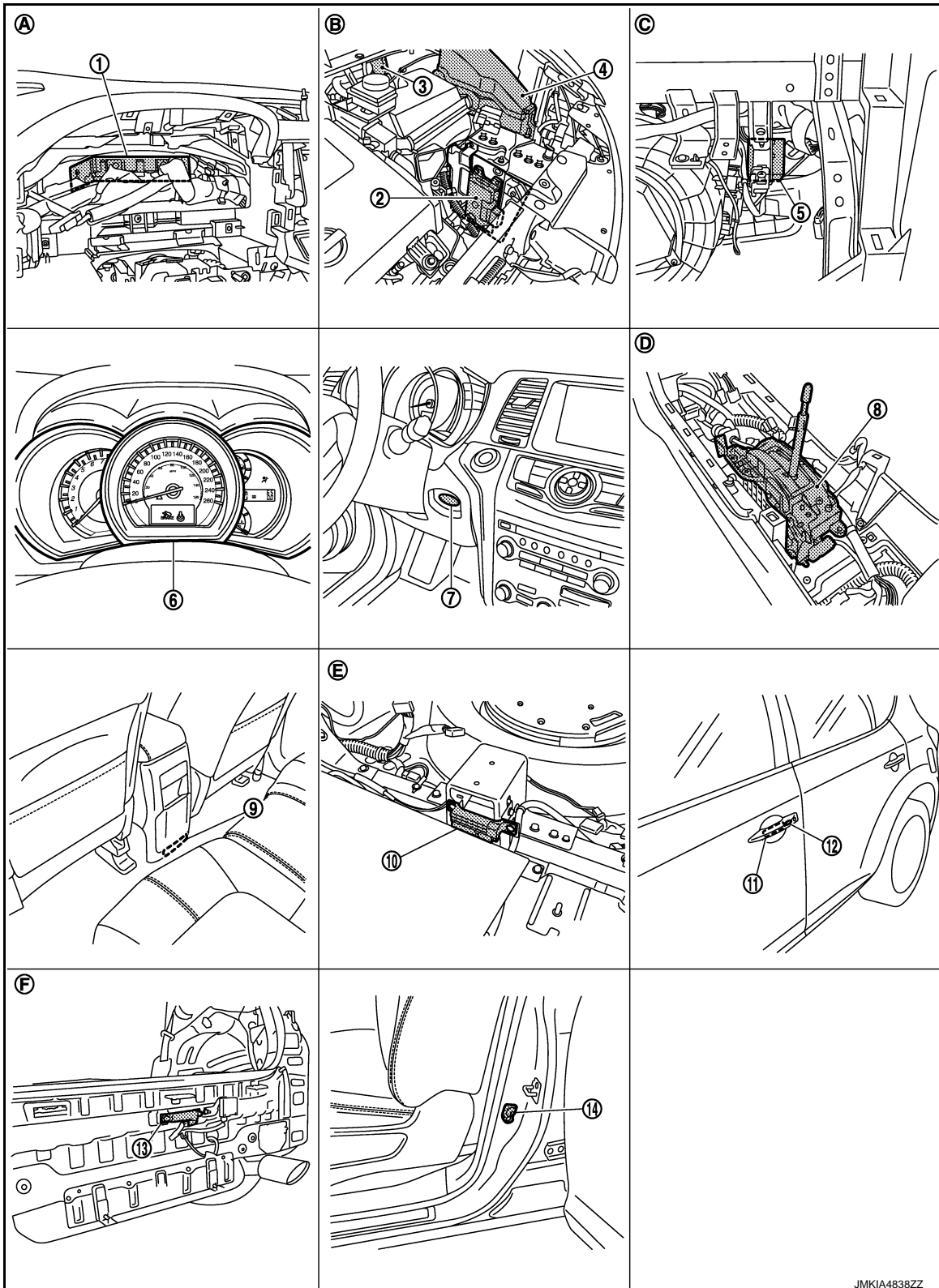
INTELLIGENT KEY SYSTEM

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[WITH INTELLIGENT KEY SYSTEM]

WARNING FUNCTION : Component Parts Location

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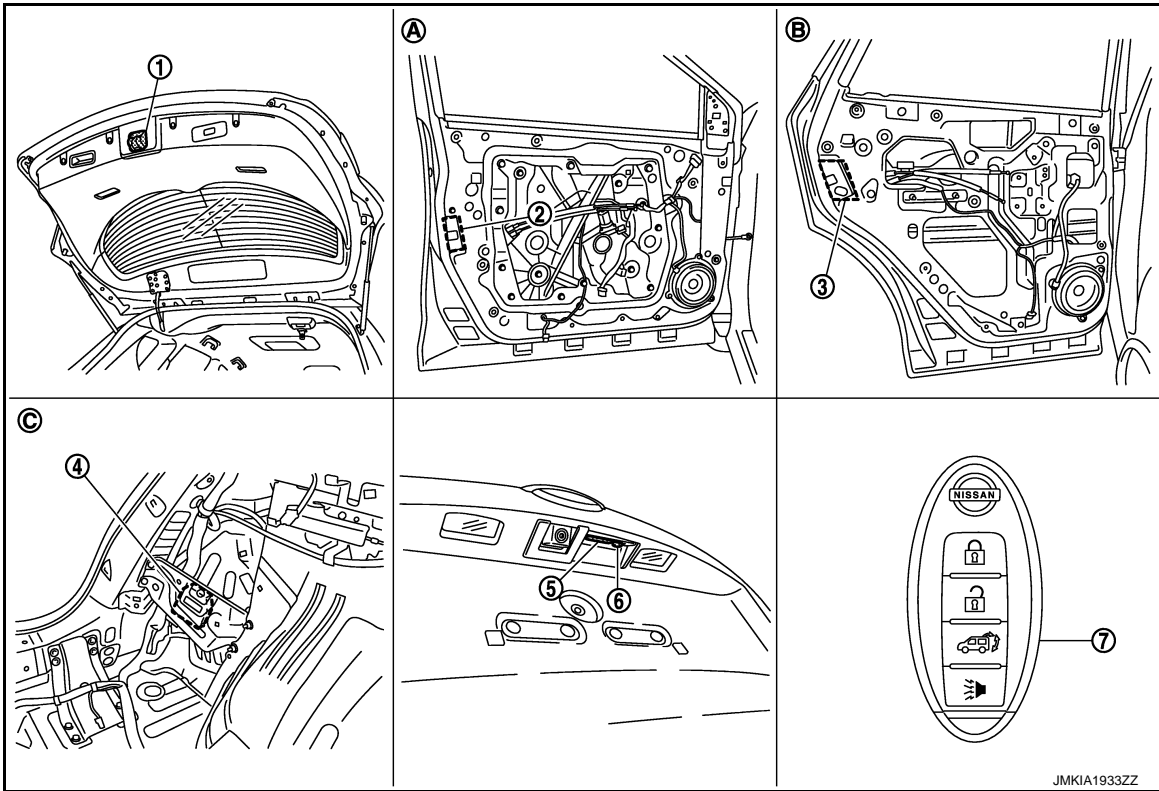
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| 1. BCM M118, M119, M120, M121, M122, M123 | 2. TCM F23 | 3. Intelligent key warning buzzer E25 |
| 4. IPDM E/R E10, E11 | 5. Remote keyless entry receiver M78 | 6. Combination meter M34 |
| 7. Key slot M99 | 8. CVT shift selector (detention switch) M57 | 9. Inside key antenna (console) M262 |

INTELLIGENT KEY SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

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|---|---|--|
| 10. Inside key antenna (luggage room) B86 | 11. Front outside handle LH (outside key antenna) D12 | 12. Front outside handle LH (request switch) D11 |
| 13. Outside key antenna (rear bumper) B85 | 14. Front door switch (driver side) B34 | |
| A. Behind the combination meter | B. Engine room (LH) | C. Behind the instrument lower panel RH |
| D. Behind the center console | E. Under the rear seat seatback | F. View with rear bumper removed |



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| 1. Back door lock assembly
With automatic back door: D179
Without automatic back door: D180 | 2. Front door lock assembly (driver side) D9 | 3. Rear door lock assembly LH D85 |
| 4. Automatic back door control unit B7, B8 | 5. Back door opener switch assembly (opener switch) D186 | 6. Back door opener switch assembly (request switch) D186 |
| 7. Intelligent Key | | |
| A. View with front door finisher removed | B. View with rear door finisher removed | C. Behind the luggage side finisher lower (LH) |

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AUTOMATIC BACK DOOR SYSTEM

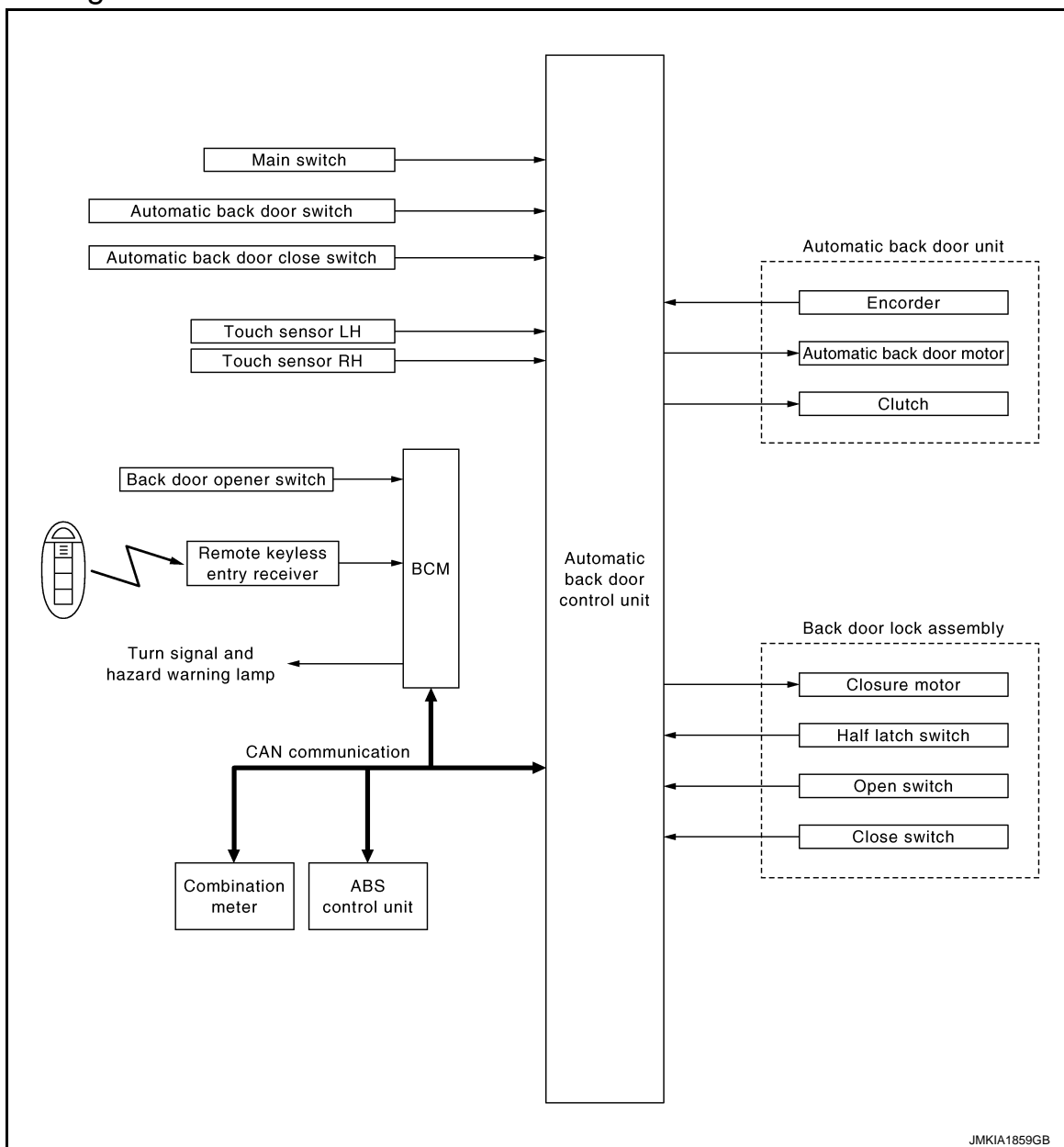
< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

System Diagram

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System Description

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

AUTOMATIC BACK DOOR FUNCTIONS

AUTOMATIC BACK DOOR SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Function	Description
Automatic back door open/close function	<p>In the case of the back door fully closed, operate the automatic back door switch, Intelligent Key bottom or back door opener switch with the back door unlock. The back door closure motor releases the latch, then the automatic back door motor opens the back door to the fully open position. Reverse the closure motor to the neutral position simultaneously.</p> <p>In the case of the back door fully open, operate the automatic back door switch, Intelligent Key bottom or back door close switch. The automatic back door motor closes the back door to the half-latch position, then the back door closure motor closes to the full latch position. Then, reverse the closure motor to the neutral position.</p> <p>NOTE: When the main switch is OFF, the power operation is not available by back door opener switch and automatic back door close switch.</p>
Back door auto closure function	When the back door is closed to the half-latch position, the motor drives to rotate the latch lever and pulls it in from half latched to fully latched and automatically closes the door. Then, reverse the closure motor to the neutral position.
Anti-pinch function	During auto operation, if an object is detected by encoder pulse or touch sensor in the door's path, a warning chime sounds and the back door operates in the reverse direction to prevent pinching.
Intermittent clutch function	If the main switch is turned to OFF during auto operation, the back door may be closed suddenly because the operation is interrupted immediately when the operation cannot be continued because of the detection of a system malfunction. Therefore, operate the clutch intermittently to stabilize the back door behavior and ensure safety.
Warning function	The warning function as follows and are given to the user as warning information and warnings using automatic back door buzzer and hazard.

OPERATION ENABLE CONDITION

	Automatic back door switch		Intelligent Key		Automatic back door close switch	Back door opener switch	
	Fully closed → Open	Fully open → Closed	Fully closed → Open	Fully open → Closed	Fully open → Closed	Fully closed → Open	
Operating direction	Fully closed → Open	Fully open → Closed	Fully closed → Open	Fully open → Closed	Fully open → Closed	Fully closed → Open	
Main switch	—	—	—	—	ON	ON	
Ignition position	ON	ACC/LOCK	—	Key is removed from key slot.	—	ON	ACC/LOCK
Shift selector lever	P position	—	—	—	—	P position	—
Vehicle speed	0 km/h						
Back door lock condition	—	—	—	—	—	Unlock*	
Touch sensor	Normal						
Power supply (Automatic power back door control unit)	Approx. 11 V or more						

*: If the registered Intelligent Key is used, the operation can be performed even if the back door is in the LOCK position

CONTROL IF NOT WITHIN THE OPERATION CONDITIONS DURING THE OPERATION

If the back door is not within the operation conditions during the operation, the automatic back door control unit performs the control as follows.

Item (Condition)	Back door condition
Main Switch (ON → OFF)	<ul style="list-style-type: none"> • Motor: OFF • Clutch: OFF (Intermittent clutch function)
Key slot (OFF → ON)	The operation is continued

AUTOMATIC BACK DOOR SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Item (Condition)	Back door condition	
Vehicle stop condition (open operation) <ul style="list-style-type: none"> • IGN ON and shift P position → IGN ON and other than P position • IGN OFF and shift N position → IGN ON and N position 	The operation is continued	
Operation condition release during the operation start announcement condition	Automatic back door function does not operate	
Vehicle speed (0 km/h → More than 0 km/h)	Open operation	Operation stop and intermittent clutch function [Back door fully closed or buzzer sounds until the vehicle stops (pattern C)]
	Close operation	The operation is continued [buzzer sounds (pattern C) until back door fully closed]
Touch sensor (Normal → Open)	Open operation	Close operation: the operation is continued (If the pinch is detected after that, the system switches to the intermittent clutch function)
	Close operation	Intermittent clutch function
	Closure (close) operation	Closure (open) operation and buzzer sounds (pattern B)
	Closure [open (return the latch to the neutral position)]	The operation is continued
Operation time (More than approx. 30 sec.)	Intermittent clutch function	
Back door opener switch (OFF → ON)	Open/close operation	The operation is continued
	Closure (close) operation	Closure (open) operation and back door open
	Closure [open (return the latch to the neutral position)]	Back door open
Malfunction detected (IGN circuit, half latch switch and back door state)	Intermittent clutch function	

TIME CHART FOR AUTOMATIC POWER BACK DOOR SYSTEM

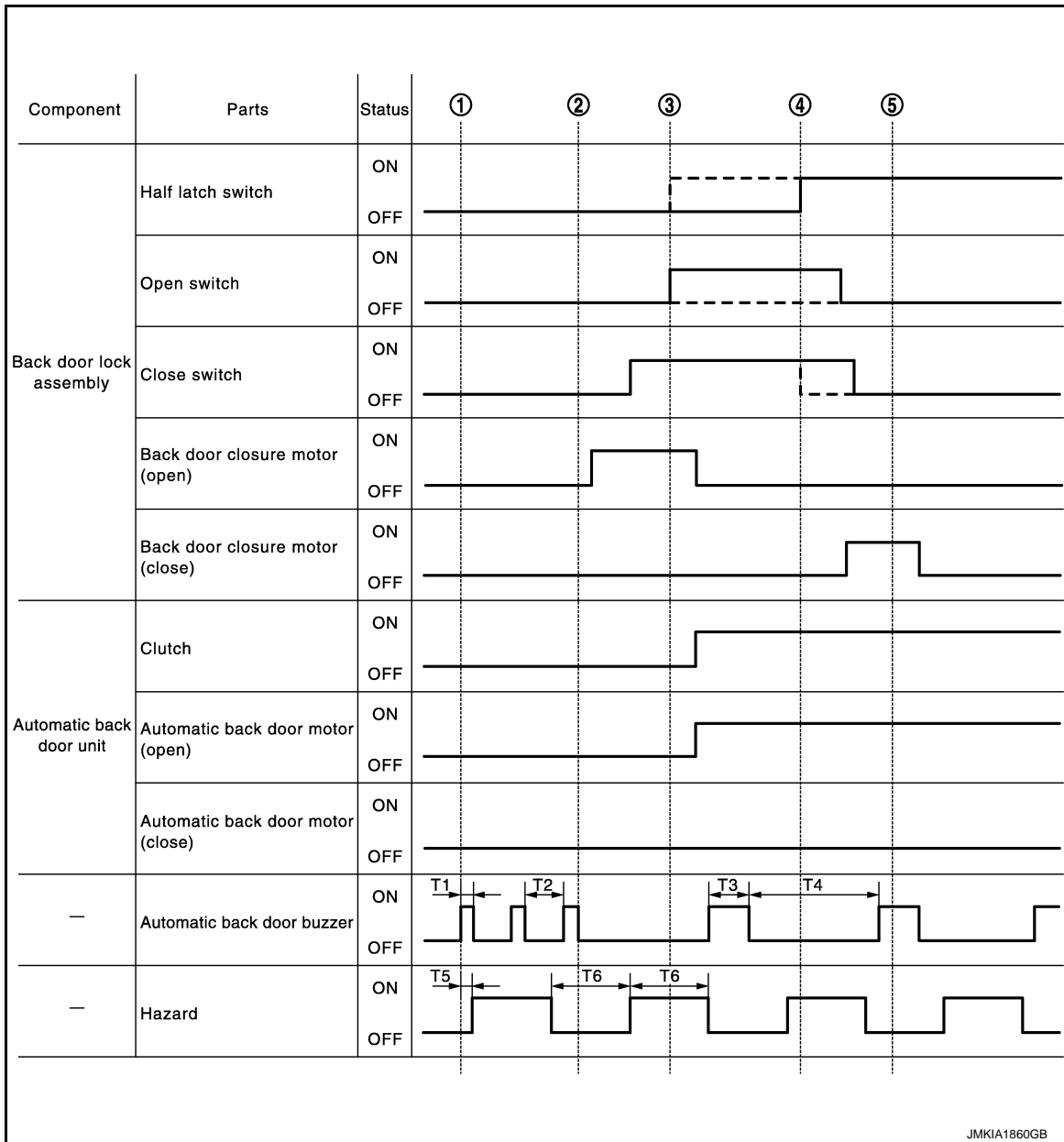
Fully Closed to Fully Open Operation

When operating the automatic back door switch, automatic back door opener switch and Intelligent Key in the fully closed position, the system operates as follows.

AUTOMATIC BACK DOOR SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]



T1: 50 msec.
T4: 750 msec.

T2: 200 msec.
T5: 100 msec.

T3: 250 msec.
T6: 350 msec.

1. Operates the buzzer and hazard after the operation enable conditions are established
2. The back door closure motor performs the open operation after the buzzer (pattern A) stops sounding
3. Stops the back door closure motor open operation after turning the open switch to ON
Then, operate the automatic back door motor and clutch to perform the back door open operation
4. The back door closure motor performs the close operation after turning the half latch switch to ON
5. Stop the back door closure motor close operation and return the latch to the neutral position after turning the close switch to OFF

NOTE:

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

Fully Open to Fully Closed Operation

When operating the automatic back door switch, automatic back door close switch and Intelligent Key, the automatic back door system operates as follows.

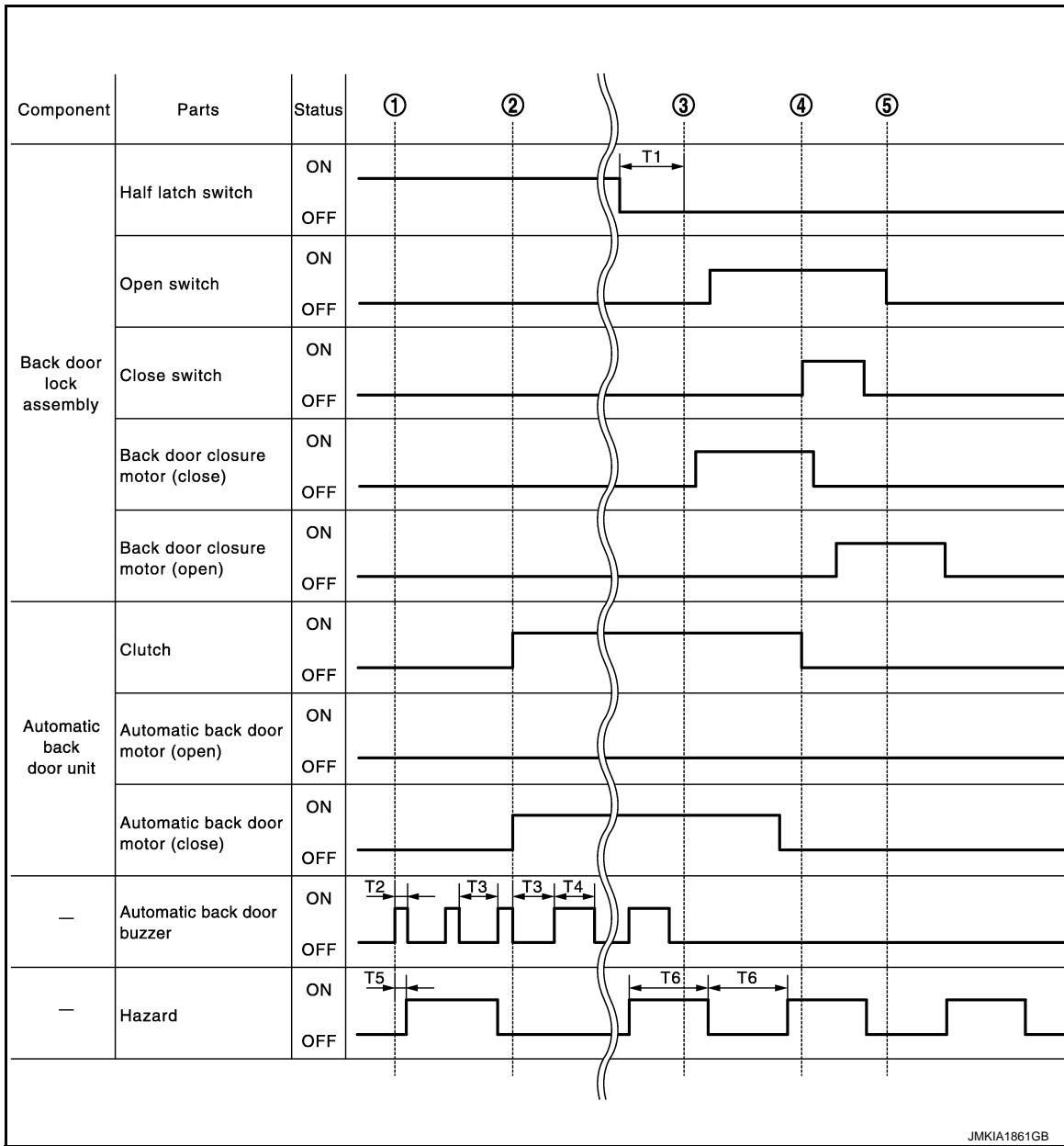
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DLK

AUTOMATIC BACK DOOR SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]



JMKIA1861GB

T1: 300 msec.

T2: 50 msec.

T3: 200 msec.

T4: 250 msec.

T5: 100 msec.

T6: 350 msec.

1. Operates the buzzer and hazard after the operation enable conditions are established
2. After the buzzer (pattern A) stops sounding, operates the automatic back door motor and clutch to perform the back door close operation
3. The back door closure motor performs the close operation after 300 msec. or more from turning the half latch switch to OFF
4. The back door closure motor performs the open operation after turning the close switch to ON
5. Stop the back door closure motor open operation and return the latch to the neutral position after turning the close switch to OFF

WARNING BUZZER

The warning function as follows and are given to the user as warning information and warnings using automatic back door buzzer.

Operation Condition

AUTOMATIC BACK DOOR SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

	Pattern	Time	Description
A		550 msec.	Operation start announcement
			Anti-pinch operation start announcement
B	Pi---	2.0 sec.	During the closure operation, the touch sensor detects any trapped foreign material and stops halfway
C	Pi-----●●●●●●	Back door fully closed or vehicle is stopped	The conditions are not satisfied in the fully open position or during the operation, and then the operation continues
D		During open/close operation	During operation announcement

ANTI-PINCH OPERATION

During auto operation, if an object is detected by encoder pulse in the door's path, a warning chime sounds and the back door operates in the reverse direction to prevent pinching.

During auto close operation, if an object is detected by the touch sensors in the door's path, a warning chime sounds and the back door operates in the open direction until it is fully open.

Operation Condition

Detection method	Encoder pulse	Touch sensor
Applicable operation	Open/close operation	Close operation
Operation when any trapped foreign material is detected	Stop the vehicle	Buzzer sounds (pattern A) and reverse operation • Buzzer sounds (pattern A) and the back door stops in the fully-open position after reverse operation • During closure (close) operation (at main switch OFF): Closure [open (neutral position return)] operation
	Running the vehicle	No reverse operation (buzzer sounds, pattern C) • The back door reverses a certain amount, and then it reverses automatically to perform the auto close operation • During closure (close) operation (at main switch ON): Closure (open) operation
Non-reverse area	• Just after starting the motor operation • Full range of closure operation • Driving	• Back door open operation • Closure [open (return the latch to the neutral position)]
Switch operation during reverse operation	Receive	
Number of allowable reverse operations	Perform the intermittent clutch function after 2 reverse operations regardless of the operation direction	

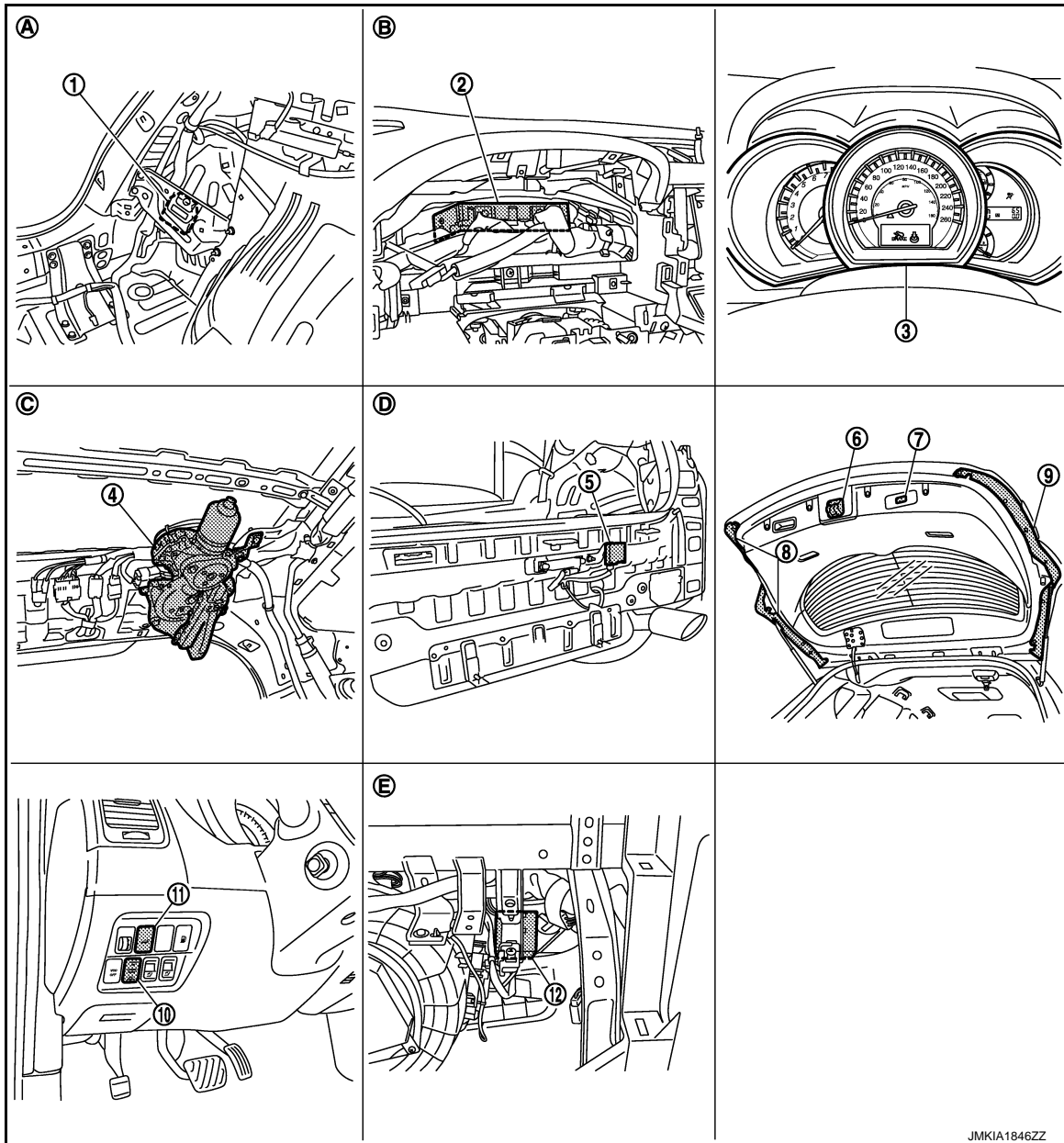
AUTOMATIC BACK DOOR SYSTEM

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Component Parts Location

INFOID:00000009718907



JMKIA1846ZZ

- | | | |
|---|--|--|
| 1. Automatic back door control unit
B7, B8 | 2. BCM
M119, M121, M122, M123 | 3. Combination meter
M34 |
| 4. Automatic back door unit
B76 | 5. Automatic back door warning buzzer
B27 | 6. Back door lock assembly
D179 |
| 7. Automatic back door close switch
D178 | 8. Touch sensor LH
D165 | 9. Touch sensor RH
D164 |
| 10. Automatic back door main switch
M110 | 11. Automatic back door switch
M111 | 12. Remote keyless entry receiver
M78 |
| A. Behind the luggage side finisher lower
(LH) | B. Behind the combination meter | C. Behind headlining assembly |
| D. Behind the rear bumper | E. Behind the instrument lower panel
RH | |

AUTOMATIC BACK DOOR SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Component Description

INFOID:000000009718908

Item	Function
Automatic back door control unit	Control the automatic back door system
BCM	Transmits and receive signals to the automatic back door control unit
Combination meter	Transmits vehicle speed signal to automatic back door control unit
ABS actuator and electrical	Transmits vehicle speed signal to automatic back door control unit
Automatic back door unit	Automatic back door motor, encoder and clutch are installed
Automatic back door buzzer	Warns the user of the automatic back door condition and inappropriate operations with the buzzer sounds
Back door lock assembly	Back door closure motor, half latch switch, open switch and close switch are installed
Touch sensor LH/RH	During back door close operation, the touch sensor detects any trapped foreign material
Automatic back door close switch	Automatic back door system can be operated from back door area
Automatic back door main switch	Automatic back door system can be active or inactive except automatic back door switch operation
Automatic back door switch	Automatic back door system can be operated from driver seat area

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DLK

FUEL FILLER LID OPENER

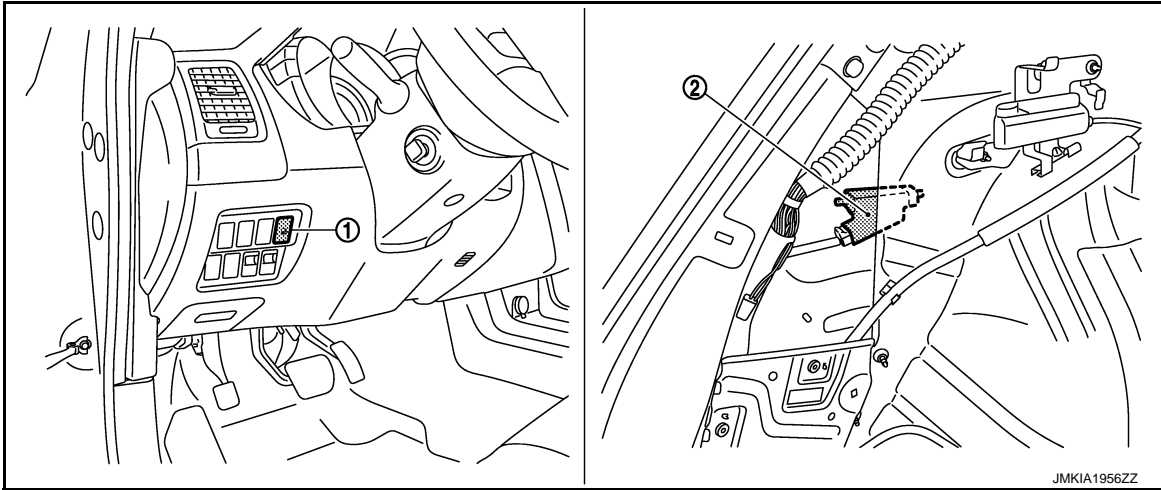
< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

FUEL FILLER LID OPENER

Component Parts Location

INFOID:000000009718909



1. Fuel lid opener switch M108

2. Fuel lid opener actuator B58

INTEGRATED HOMELINK TRANSMITTER

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER

Component Description

INFOID:000000009718910

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

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DLK

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000010044856

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	<ul style="list-style-type: none"> 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	×*1	×	×
Turn signal and hazard warning lamps	FLASHER	×	×	×
—	AIR CONDITONER*2			
<ul style="list-style-type: none"> Intelligent Key system Engine start system 	INTELLIGENT KEY	×	×	×
Combination switch	COMB SW		×	
Body control system	BCM	×		
NVIS - NATS	IMMU		×	×
Interior room lamp battery saver	BATTERY SAVER	×	×	×
Back door opener system	TRUNK		×	×
Vehicle security system	THEFT ALM	×	×	×
RAP system	RETAINED PWR		×	
Signal buffer system	SIGNAL BUFFER		×	×
TPMS	TPMS (AIR PRESSURE MONITOR)	×	×	×

NOTE:

- *1: For models with rain sensor this mode is displayed, but is not used.
- *2: This item is displayed, but is not used.

FREEZE FRAME DATA (FFD)

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

CONSULT screen item	Indication/Unit	Description	
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected	
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected	
Vehicle Condition	SLEEP>LOCK	Power position status of the moment a particular DTC is detected	While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)
	LOCK>ACC		While turning power supply position from "LOCK" to "ACC"
	ACC>ON		While turning power supply position from "ACC" to "IGN"
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emergency stop operation)
	ACC>OFF		While turning power supply position from "ACC" to "OFF"
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"*
	OFF>ACC		While turning power supply position from "OFF" to "ACC"
	ON>CRANK		While turning power supply position from "IGN" to "CRANKING"
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*) to low power consumption mode
	LOCK		Power supply position is "LOCK"*
	OFF		Power supply position is "OFF" (Ignition switch OFF)
	ACC		Power supply position is "ACC" (Ignition switch ACC)
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)
ENGINE RUN	Power supply position is "RUN" (Ignition switch ON with engine running)		
CRANKING	Power supply position is "CRANKING" (At engine cranking)		
IGN Counter	0 - 39	The number of times that ignition switch is turned ON after DTC is detected <ul style="list-style-type: none"> • The number is 0 when a malfunction is detected now. • The number increases like 1 → 2 → 3...38 → 39 after returning to the normal condition whenever ignition switch OFF → ON. • The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 	

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met.

- Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

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

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:000000009718912

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

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 LOCK SELECT	Automatic door lock function mode can be selected from the following in this mode. <ul style="list-style-type: none">VH SPD: All doors are locked when vehicle speed more than 24km/h (15MPH)P RANGE: All doors are locked when shifting the selector lever from P position to other than the P position
AUTOMATIC DOOR UNLOCK SELECT	Automatic door unlock function mode can be selected from the following in the mode. <ul style="list-style-type: none">MODE 1: All doors are unlocked when the power supply position is changed from ON to OFFMODE 2: All doors are unlocked when shifting the selector lever from any position other than the P to P positionMODE 3: Driver side door is unlocked when the power supply position is changed from ON to OFFMODE 4: Driver side door is unlocked when shifting the selector lever from any position other than the P to P position
AUTOMATIC LOCK/UNLOCK SET	Automatic door lock/unlock function mode can be selected from the following in this mode. <ul style="list-style-type: none">Off: non-operationalUnlock Only: door unlock operation onlyLock Only: door lock operation onlyLock/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 back door request switch.
DOOR SW-DR	Indicated [ON/OFF] condition of front door switch (driver side).
DOOR SW-AS	Indicated [ON/OFF] condition of front door switch (passenger side).
DOOR SW-RR	Indicated [ON/OFF] condition of rear door switch RH.
DOOR SW-RL	Indicated [ON/OFF] condition of rear door switch LH.
DOOR SW-BK	Indicated [ON/OFF] condition of back door switch.
CDL LOCK SW	Indicated [ON/OFF] condition of lock signal from door lock unlock switch.
CDL UNLOCK SW	Indicated [ON/OFF] condition of unlock signal from door lock unlock switch.
KEY CYL LK-SW	Indicated [ON/OFF] condition of lock signal from door key cylinder.
KEY CYL UN-SW	Indicated [ON/OFF] condition of unlock signal from door key cylinder.

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Test item	Description
DOOR LOCK	<p>This test is able to check door lock/unlock operation.</p> <ul style="list-style-type: none"> • 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. • The door lock actuator (rear LH and RH) is unlocked when "OTR ULK" on CONSULT screen is touched.

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:000000009718913

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	<p>Auto door lock time can be changed in this mode.</p> <ul style="list-style-type: none"> • MODE 1: 1 minute • MODE 2: 5 minutes • MODE 3: 30 seconds • MODE 4: 2 minutes
LOCK/UNLOCK BY I-KEY	Door lock/unlock function by door request switch (driver side, passenger side and back door) mode can be changed to operate (ON) or not operate (OFF) in this mode.
ENGINE START BY I-KEY	Engine start function mode can be changed to operate (ON) or not operate (OFF) with this mode.
TRUNK/GLASS HATCH OPEN	Buzzer reminder function mode by back door request switch can be changed to operate (ON) or not operate (OFF) with this mode.
PANIC ALARM SET	<p>Panic alarm button pressing time on Intelligent Key remote control button can be selected from the following with this mode.</p> <ul style="list-style-type: none"> • MODE 1: 0.5 sec. • MODE 2: Non-operation • MODE 3: 1.5 sec.
PW DOWN SET	<p>Unlock button pressing time on Intelligent Key button can be selected from the following with this mode.</p> <ul style="list-style-type: none"> • MODE 1: 3 sec. • MODE 2: Non-operation • MODE 3: 5 sec.
TRUNK OPEN DELAY	<p>NOTE: This item is displayed, but cannot be supported.</p>
LO- BATT OF KEY FOB WARN	Intelligent Key low battery warning mode can be changed to operate (ON) or not operate (OFF) with this mode.
ANTI KEY LOCK IN FUNCTI	Key reminder function mode can be changed to operate (ON) or not operate (OFF) with this mode.

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Monitor item	Description
HAZARD ANSWER BACK	Hazard reminder function mode can be selected from the following with this mode. <ul style="list-style-type: none"> • LOCK ONLY: Door lock operation only • UNLOCK ONLY: Door unlock operation only • LOCK/UNLOCK: Lock/unlock operation • OFF: Non-operation
ANS BACK I-KEY LOCK	Buzzer reminder function (lock operation) mode by door request switch (driver side and passenger side) can be selected from the following with this mode. <ul style="list-style-type: none"> • Horn chirp: Sound horn • Buzzer: Sound Intelligent Key warning buzzer • OFF: Non-operation
ANS BACK I-KEY UNLOCK	Buzzer reminder function (unlock operation) mode by door request switch can be changed to operate (ON) or not operate (OFF) with this mode.
SHORT CRANKING OUTPUT	Starter motor can operate during the times below. <ul style="list-style-type: none"> • 70 msec • 100 msec • 200 msec
INSIDE ANT DIAGNOSIS	This function allows inside key antenna self-diagnosis.
HORN WITH KEYLESS LOCK	Horn reminder function mode by Intelligent Key button can be changed to operate (ON) or not operate (OFF) with this mode.

SELF-DIAG RESULT

Refer to [BCS-91, "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 -RR	NOTE: This item is displayed, but cannot be monitored.
REQ SW -RL	NOTE: This item is displayed, but cannot be monitored.
REQ SW -BD/TR	Indicates [ON/OFF] condition of back door request switch.
PUSH SW	Indicates [ON/OFF] condition of push-button ignition switch.
IGN RLY2 -F/B	Indicates [ON/OFF] condition of ignition relay 2.
ACC RLY-FB	NOTE: This item is displayed, but cannot be monitored.
CLUCH 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). NOTE: For models without steering lock unit this item is not displayed.
S/L -UNLOCK	Indicates [ON/OFF] condition of steering lock unit (UNLOCK). NOTE: For models without steering lock unit this item is not displayed.
S/L RELAY -F/B	Indicates [ON/OFF] condition of ignition switch. NOTE: For models without steering lock unit this item is not displayed.

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Monitor Item	Condition	
UNLK SEN -DR	Indicates [ON/OFF] condition of driver door UNLOCK status.	A
PUSH SW -IPDM	Indicates [ON/OFF] condition of push-button ignition switch.	
IGN RLY1 -F/B	Indicates [ON/OFF] condition of ignition relay 1.	B
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.	C
SFT N -MET	Indicates [ON/OFF] condition of N position.	
ENGINE STATE	Indicates [STOP/START/CRANK/RUN] condition of engine states.	D
S/L LOCK-IPDM	Indicates [ON/OFF] condition of steering lock unit (LOCK). NOTE: For models without steering lock unit this item is not displayed.	E
S/L UNLK-IPDM	Indicates [ON/OFF] condition of steering lock unit (UNLOCK). NOTE: For models without steering lock unit this item is not displayed.	F
S/L RELAY-REQ	Indicates [ON/OFF] condition of steering lock relay. NOTE: For models without steering lock unit this item is not displayed.	G
VEH SPEED 1	Display the vehicle speed signal received from combination meter by numerical value [Km/h].	H
VEH SPEED 2	Display the vehicle speed signal received from ABS or VDC or CVT by numerical value [Km/h].	I
DOOR STAT-DR	Indicates [LOCK/READY/UNLOCK] condition of driver side door status.	J
DOOR STAT-AS	Indicates [LOCK/READY/UNLOCK] condition of passenger side door status.	
ID OK FLAG	Indicates [SET/RESET] condition of key ID.	
PRMT ENG STRT	Indicates [SET/RESET] condition of engine start possibility.	
PRMT RKE STRT	NOTE: This item is displayed, but cannot be monitored.	
KEY SW -SLOT	Indicates [ON/OFF] condition of key slot.	
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored.	
RKE-LOCK	Indicates [ON/OFF] condition of LOCK signal from Intelligent Key.	DLK
RKE-UNLOCK	Indicates [ON/OFF] condition of UNLOCK signal from Intelligent Key.	
RKE-TR/BD	NOTE: This item is displayed, but cannot be monitored.	L
RKE-PANIC	Indicates [ON/OFF] condition of PANIC button of Intelligent Key.	
RKE-P/W OPEN	Indicates [ON/OFF] condition of P/W DOWN signal from Intelligent Key.	M
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.	N
RKE OPE COUN2	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 after "ON" on CONSULT screen is touched.	P
PW REMOTO DOWN SET	This test is able to check power window down operation. The power window down will be activated after "ON" on CONSULT screen is touched.	

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Test item	Description
INSIDE BUZZER	This test is able to check warning chime in combination meter operation. <ul style="list-style-type: none"> • Take away warning chime sounds when "TAKE OUT" on CONSULT screen is touched. • Key warning chime sounds when "KEY WARN" on CONSULT screen is touched. • P position warning chime sounds when "P RNG WARN" on CONSULT screen is touched. • ACC warning chime sounds when "ACC WARN" on CONSULT screen is touched.
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation. The Intelligent Key warning buzzer will be activated after "ON" on CONSULT screen is touched.
INDICATOR	This test is able to check warning lamp operation. <ul style="list-style-type: none"> • "KEY" Warning lamp illuminates when "KEY ON" on CONSULT screen is touched. • "KEY" Warning lamp flashes 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 after "ON" on CONSULT screen is touched.
LCD	This test is able to check meter display information <ul style="list-style-type: none"> • 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>NOTE: For models without steering lock unit, "ROTAT" is displayed, but cannot be tested.</p> <ul style="list-style-type: none"> • 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 through window warning displays when "NO KY" on CONSULT screen is touched. • Take away warning display when "OUTKEY" on CONSULT screen is touched. • OFF position warning display when "LK WN" on CONSULT screen is touched.
TRUNK/GLASS HATCH	This test is able to check back door opener actuator open operation. This actuator opens when "ON" on CONSULT screen is touched.
FLASHER	This test is able to check hazard warning lamp operation. The hazard warning lamps will be activated after "ON" on CONSULT screen is touched.
HORN	This test is able to check horn operation. The horn will be activated after "ON" on CONSULT screen is touched.
IGN CONT2	This test is able to check ignition relay operation. The ignition relay will be activated after "ON" on CONSULT screen is touched.
P RANGE	This test is able to check CVT shift selector power supply CVT shift selector 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	NOTE: This item is displayed, but cannot be tested.
ACC INDICATOR	This test is able to check indicator in push-ignition switch operation. Indicator in push-button ignition switch illuminates when "ON" on CONSULT screen is touched.
IGNITION ON IND	This test is able to check indicator in push-ignition switch operation. Indicator in push-button 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 flash when "ON" on CONSULT screen is touched.
AUTOMATIC BACK DOOR	NOTE: This item is displayed, but cannot be tested.
AUTOMATIC SLIDING DOOR	NOTE: This item is displayed, but cannot be tested.

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:000000009718914

BCM CONSULT FUNCTION

CONSULT performs the following functions via CAN communication with BCM.

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

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-button ignition switch.
UNLK SEN -DR	NOTE: This item is displayed, but cannot be monitored.
VEH SPEED 1	Indicates [Km/h] condition of vehicle speed signal from combination meter.
KEY CYL SW-TR	NOTE: This item is displayed, but cannot be monitored.
TR CANCEL SW	NOTE: This item is displayed, but cannot be monitored.
TR/BD OPEN SW	Indicates [ON/OFF] condition of back door opener switch.
TRNK/HAT MNTR	NOTE: This item is displayed, but cannot be monitored.
RKE-TR/BD*	NOTE: This item is displayed, but cannot be monitored.

*: With back door opener system

ACTIVE TEST

Test item	Description
TRUNK/GLASS HATCH	This test is able to check back door opener actuator open operation. This actuator opens when ""

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DLK

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

DIAGNOSIS SYSTEM (AUTOMATIC BACK DOOR CONTROL UNIT)

CONSULT Function (AUTOMATIC BACK DOOR CONTROL UNIT)

INFOID:000000009718915

APPLICATION ITEM

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

Diagnosis mode	Function Description
SELF-DIAG RESULTS	Displays the diagnosis results judged by automatic back door control unit.
CAN DIAG SUPPORT MNTR	Monitors the reception status of CAN communication viewed from automatic back door control unit.
DATA MONITOR	The automatic back door control unit input/output signals are displayed.
ECU IDENTIFICATION	The automatic back door control unit part number is displayed.

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	Unit	Description
VHCL SPEED MTR	[km/h]	Display the vehicle speed signal received from combination meter by numerical value.
VHCL SPEED ABS	[km/h]	Display the vehicle speed signal received from ABS actuator and electrical unit by numerical value [km/h].
MAIN SW	[ON/OFF]	Indicates condition of main switch.
AUTO BD SW	[ON/OFF]	Indicates condition of main switch.
BK DOOR CL SW	[ON/OFF]	Indicates condition of back door close switch.
UNLOCK SEN DR	[ON/OFF]	Indicates condition of unlock sensor (driver).
OPEN SW	[ON/OFF]	Indicates condition of open switch.
CLOSE SW	[ON/OFF]	Indicates condition of close switch.
HALF LATCH SW	[ON/OFF]	Indicates condition of half latch switch.
TOUCH SEN RH	[ON/OFF/OPEN]	Indicates condition of touch sensor RH.
TOUCH SEN LH	[ON/OFF/OPEN]	Indicates condition of touch sensor LH.
P RANGE IND	[ON/OFF]	Indicates condition of P range signal from combination meter.
RKE REQ	[OFF/MOVE/REV]	Indicates condition of remote keyless entry signal from BCM.
IGN SW	[ON/OFF]	Indicates condition of IGN power supply.
ENCODER A	[LO/HI]	Indicates condition of encoder signal from encoder A.
ENCODER B	[LO/HI]	Indicates condition of encoder signal from encoder B.
BD OPENER SW	[ON/OFF]	Indicates condition of back door opener switch.
UNLOCK SEN BD	[LOCK/UNLOCK]	Indicates condition of unlock sensor (back door).
DESTINATION	[JPN/NAM]	Indicates specification of destination of the parts.
HAZARD	[ON/OFF]	Indicates specification of hazard warning.

SELF-DIAG RESULT

Refer to [DLK-255, "DTC Index"](#).

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

BCM

BCM : Description

INFOID:000000009718916

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

CAN Communication Signal Chart. Refer to [LAN-29, "CAN Communication Signal Chart"](#).

BCM : DTC Logic

INFOID:000000009718917

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When BCM cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

BCM : Diagnosis Procedure

INFOID:000000009718918

1.PERFORM SELF DIAGNOSTIC

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

Is "CAN COMM CIRCUIT" displayed?

YES >> Refer to [LAN-18, "Trouble Diagnosis Flow Chart"](#).

NO >> Refer to [GI-44, "Intermittent Incident"](#).

AUTOMATIC BACK DOOR CONTROL UNIT

DLK

AUTOMATIC BACK DOOR CONTROL UNIT : Description

INFOID:000000009718919

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

CAN Communication Signal Chart. Refer to [LAN-29, "CAN Communication Signal Chart"](#).

AUTOMATIC BACK DOOR CONTROL UNIT : DTC Logic

INFOID:000000009718920

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible cause
U1000	CAN COMM CIRCUIT	When automatic back door control unit cannot communicate CAN communication signal continuously for 2 seconds or more.	CAN communication system

AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:000000009718921

1.PERFORM SELF DIAGNOSTIC

U1000 CAN COMM CIRCUIT

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

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

Is "CAN COMM CIRCUIT" displayed?

- YES >> Refer to [LAN-18, "Trouble Diagnosis Flow Chart"](#).
- NO >> Refer to [GI-44, "Intermittent Incident"](#).

U1010 CONTROL UNIT (CAN)

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

BCM

BCM : DTC Logic

INFOID:000000009718922

DTC DETECTION LOGIC

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

BCM : Diagnosis Procedure

INFOID:000000009718923

1.REPLACE BCM

When DTC [U1010] is detected, replace BCM.

>> Replace BCM. Refer to [BCS-98. "Removal and Installation"](#)

BCM : Special Repair Requirement

INFOID:000000009718924

1.REQUIRED WORK WHEN REPLACING BCM

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

>> Work end.

AUTOMATIC BACK DOOR CONTROL UNIT

AUTOMATIC BACK DOOR CONTROL UNIT : DTC Logic

INFOID:000000009718925

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC Detection Condition	Possible cause
U1010	CONTROL UNIT (CAN)	Automatic back door control unit detected internal CAN communication circuit malfunction	Automatic back door control unit

AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:000000009718926

1.REPLACE BCM

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

>> Replace automatic back door control unit. Refer to [DLK-368. "Removal and Installation"](#).

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B2401 IGNITION POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2401 IGNITION POWER SUPPLY CIRCUIT

Description

INFOID:000000009718927

Automatic back door control unit receive ignition power supply condition signal from BCM via CAN communication, and compare the signal with ignition power supply condition of automatic back door control unit to detect inflammation.

DTC Logic

INFOID:000000009718928

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2401	IGNITION POWER SUPPLY CIRCUIT	When the automatic power back door control unit detects the following condition for 0.3 second or more • Power supply condition (OFF) of automatic back door unit and Ignition position signal (ON) from BCM via CAN	<ul style="list-style-type: none">• Fuse• Harness or connectors (Ignition power supply condition circuit is open or shorted)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON and wait for at least 1 second.
2. Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

- YES >> Go to [DLK-66. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009718929

1.CHECK FUSE, FUSIBLE LINK AND CIRCUIT BREAKER

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

Fuse No.	Signal name
3	Ignition power supply

Is the fuse fusing?

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

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic back door control unit connector.
3. Check voltage between automatic back door control unit harness connector and ground.

(+) Automatic back door control unit		(-)	Condition		Voltage (Approx.)
Connector	Terminal		Ground	Ignition switch ON	
B8	9	Ground			Ignition switch

Is the measurement value normal?

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

B2403 ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2403 ENCODER

Description

INFOID:000000009718930

The automatic back door control unit receives the pulse signals from encoders A and B that occurred due to synchronization with the back door operation. The automatic back door control unit calculates the back door position, operation direction, and operation speed according to the received pulse signals.

DTC Logic

INFOID:000000009718931

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2403	ENCODER	When the automatic back door control unit cannot receive the signal from the encoder just after starting the open/close operation	<ul style="list-style-type: none"> Encoder Harness or connectors (Encoder circuit is open or shorted) Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

- YES >> Go to [DLK-67. "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009718932

1.CHECK ENCODER SIGNAL

Check encoder ("ENCODER A", "ENCODER B") in Data Monitor mode.

Monitor item	Condition	Status	
ENCODER A	Back door	Moving	Change HI or LO
		Stop	No change HI or LO
ENCODER B	Back door	Moving	Change HI or LO
		Stop	No change HI or LO

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-44. "Intermittent Incident"](#).
 NO >> GO TO 2.

2.CHECK ENCODER POWER SUPPLY

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

(+)		(-)	Voltage (V) (Approx.)
Automatic back door unit connector			
Connector	Terminal		
B76	2	Ground	Battery voltage

Is the inspection result normal?

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

B2403 ENCODER

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK ENCODER POWER SUPPLY CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door unit harness connector.

Automatic back door control unit		Automatic back door unit		Continuity
Connector	Terminal	Connector	Terminal	
B8	26	B76	2	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	26		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).
NO >> Repair or replace harness.

4. CHECK ENCODER GROUND CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door unit harness connector.

Automatic back door control unit		Automatic back door unit		Continuity
Connector	Terminal	Connector	Terminal	
B8	23	B76	6	Existed

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Repair or replace harness.

5. CHECK ENCODER SIGNAL CIRCUIT

1. Check continuity between automatic back door control unit harness connector and automatic back door unit harness connector.

Automatic back door control unit		Automatic back door unit		Continuity
Connector	Terminal	Connector	Terminal	
B8	24	B76	5	Existed
	25		1	

2. Check continuity between automatic back door control unit connector and ground.

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	24		Not existed
	25		

Is the inspection result normal?

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

6. CHECK ENCODER

1. Connect automatic back door control unit connector and automatic back door unit connector
2. Check voltage between automatic back door control unit and ground.

B2403 ENCODER

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Automatic back door control unit		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
B8	24	Ground	Back door	Moving	
				Stop	0/Battery voltage
	25	Ground	Back door	Moving	
				Stop	0/Battery voltage

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).
- NO >> Replace automatic back door unit. Refer to [DLK-352, "POWER BACK DOOR DRIVE ASSEMBLY : Removal and Installation"](#).

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B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2409 HALF LATCH SWITCH

Description

INFOID:000000009718933

The half latch switch is integrated in the back door lock assembly and it detects the half latch condition of the back door lock.

DTC Logic

INFOID:000000009718934

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2409	HALF LATCH SWITCH	When the automatic back door control unit cannot detect the half latch switch ON condition even when the back door is in the open position	<ul style="list-style-type: none">• Half latch switch• Harness or connectors (Half latch switch circuit is open)• Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate power back door from closed to open.
3. Check "Self Diagnostic Result" CONSULT.

Is DTC detected?

- YES >> Go to [DLK-70. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009718935

1. CHECK HALF LATCH SWITCH SIGNAL

Check half latch switch ("HALF LATCH SW") in Data Monitor mode.

Monitor item	Condition		Status
HALF LATCH SW	Back door lock	Fully closed/Half latch	OFF
		Open	ON

Is the inspection result normal?

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

2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

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

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
D179	6	Ground	Battery voltage

Is the inspection result normal?

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

3. CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

B2409 HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B8	8	D179	6	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	8		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK HALF LATCH SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D179	8		Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace back door lock assembly ground circuit.

5.CHECK HALF LATCH SWITCH

Refer to [DLK-71, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door lock assembly. Refer to [DLK-365, "Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009718936

COMPONENT INSPECTION

1.CHECK HALF LATCH SWITCH

Check back door lock assembly (half latch switch).

Terminal		Condition	Continuity	
Back door lock assembly (half latch switch)				
6	8	Back door lock	Open	Existed
			Fully closed/Half latch	Not existed

Is the inspection result normal?

YES >> Half latch switch is OK.

NO >> Replace back door lock assembly. Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#).

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B2416 TOUCH SENSOR RH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

B2416 TOUCH SENSOR RH

Description

INFOID:000000009718937

The touch sensor RH is installed on the right edge of the back door, and it detects any trapped foreign material in the back door during the auto close operation and at the closure operation.

DTC Logic

INFOID:000000009718938

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2416	TOUCH SENSOR RH	When the automatic back door control unit detects the open circuit of the touch sensor RH	<ul style="list-style-type: none">• Touch sensor RH• Harness or connectors (Touch sensor RH circuit is shorted)• Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

- YES >> Go to [DLK-72, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009718939

1. CHECK TOUCH SENSOR RH SIGNAL

Check touch sensor RH ("TOUCH SEN RH") in Data Monitor mode.

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

Is the inspection result normal?

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

2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT SIGNAL

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

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
D164	1	Ground	6

Is the inspection result normal?

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

3. CHECK TOUCH SENSOR RH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor RH harness connector.

B2416 TOUCH SENSOR RH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Automatic back door control unit		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B8	16	D164	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	16		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK TOUCH SENSOR RH GROUND CIRCUIT

Check continuity between automatic back door control unit harness connector and touch sensor RH harness connector.

Automatic back door control unit		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B8	15	D164	2	Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR RH

Refer to [DLK-73, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace touch sensor RH. Refer to [DLK-354, "TOUCH SENSOR : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009718940

1.CHECK TOUCH SENSOR RH

Check touch sensor RH.

Terminal		Condition	Resistance (Approx.)
Touch sensor RH			
1	2	Touch sensor RH	120 Ω or less
			1 kΩ ± 10%

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace touch sensor RH. Refer to [DLK-354, "TOUCH SENSOR : Removal and Installation"](#).

B2417 TOUCH SENSOR LH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

B2417 TOUCH SENSOR LH

Description

INFOID:000000009718941

The touch sensor LH is installed on the light edge of the back door, and it detects any trapped foreign material in the back door during the auto close operation and at the closure operation.

DTC Logic

INFOID:000000009718942

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2417	TOUCH SENSOR LH	When the automatic back door control unit detects the open circuit of the touch sensor LH.	<ul style="list-style-type: none">• Touch sensor LH• Harness or connectors (Touch sensor LH circuit is open)• Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check "Self diagnostic result" with CONSULT.

Is DTC detected?

- YES >> Go to [DLK-74, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009718943

1. CHECK TOUCH SENSOR RH SIGNAL

Check touch sensor LH ("TOUCH SEN LH") in Data Monitor mode.

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

Is the inspection result normal?

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

2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT SIGNAL

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

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
D165	1	Ground	6

Is the inspection result normal?

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

3. CHECK TOUCH SENSOR LH CIRCUIT

1. Disconnect automatic back door control unit.
2. Check continuity between automatic back door control unit harness connector and touch sensor LH harness connector.

B2417 TOUCH SENSOR LH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Automatic back door control unit		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B8	14	D165	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	14		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK TOUCH SENSOR LH GROUND CIRCUIT

Check continuity between automatic back door control unit harness connector and touch sensor LH harness connector.

Automatic back door control unit		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B8	15	D165	2	Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK TOUCH SENSOR LH

Refer to [DLK-75, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace touch sensor LH. Refer to [DLK-354, "TOUCH SENSOR : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009718944

1.CHECK TOUCH SENSOR LH

Check touch sensor LH.

Terminal		Condition	Resistance (Approx.)
Touch sensor LH			
1	2	Touch sensor LH	120 Ω or less
			1 kΩ ± 10%

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace touch sensor LH. Refer to [DLK-354, "TOUCH SENSOR : Removal and Installation"](#).

B2418 CLUTCH POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2418 CLUTCH POWER SUPPLY CIRCUIT

Description

INFOID:000000009718945

The clutch operates by the power supplied from the automatic back door control unit. It performs the duty control of the power supply to control the operation speed of the back door.

DTC Logic

INFOID:000000009718946

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2418	CLUTCH POWER SUPPLY CIRCUIT	When the automatic power back door control unit detects any of the following conditions just after the open/close operation <ul style="list-style-type: none">Clutch power supply circuit is shorted.Clutch is shorted.	<ul style="list-style-type: none">ClutchHarness or connectors (Clutch circuit is shorted)Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

- YES >> Go to [DLK-76. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009718947

1. CHECK CLUTCH CIRCUIT

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

Automatic back door control unit		Automatic back door unit		Continuity
Connector	Terminal	Connector	Terminal	
B7	33	B76	3	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B7	33		Not existed

Is the inspection result normal?

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

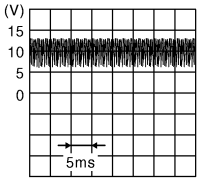
2. CHECK CLUTCH

1. Connect automatic back door control unit connector and automatic back door unit connector.
2. Check voltage between automatic back door control unit harness connector and ground.

B2418 CLUTCH POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition		Voltage (V) (Approx.)
Automatic back door control unit					
Connector	Terminal				
B7	33	Ground	Automatic back door	Active	
				Other than above	0

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).
- NO >> Replace automatic back door unit. Refer to [DLK-368, "Removal and Installation"](#).

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B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2419 OPEN SWITCH

Description

INFOID:000000009718948

The open switch is integrated in the door lock assembly, and it detects the open condition of the back door lock.

DTC Logic

INFOID:000000009718949

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2419	OPEN SWITCH	When the automatic power back door control unit detects any of the following conditions <ul style="list-style-type: none">The change of open switch cannot be detected for 1 second or more after starting the closure open output for the 3rd time in a rowThe change of open switch cannot be detected for 0.5 second or more after starting the closure close output for the 3rd time in a rowThe condition that the open switch is in the ON position and the close switch is in the OFF position is detected when starting the closure open/close output for the 3rd time in a row	<ul style="list-style-type: none">Open switchHarness or connectors (Open switch circuit is open or shorted)Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Operate automatic back door.
- Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

- YES >> Go to [DLK-78. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009718950

1. CHECK OPEN SWITCH SIGNAL

Check open switch ("OPEN SW") in Data Monitor mode.

Monitor item	Condition	Status	
OPEN SW	Back door lock	Fully closed/Half latch	OFF
		Open	ON

Is the inspection result normal?

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

2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect back door lock assembly connector.
- Check voltage between back door lock assembly harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
D179	4	Ground	Battery voltage

Is the inspection result normal?

B2419 OPEN SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

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

3.CHECK OPEN SWITCH CIRCUIT

1. Disconnect automatic back door control unit and back door lock assembly connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B8	20	D179	4	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	20		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-368. "Removal and Installation"](#).
- NO >> Repair or replace harness.

4.CHECK OPEN SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D179	8		Existed

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace back door lock assembly ground circuit.

5.CHECK OPEN SWITCH

Refer to [DLK-79. "Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Replace back door lock assembly. Refer to [DLK-351. "DOOR LOCK : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009718951

COMPONENT INSPECTION

1.CHECK OPEN SWITCH

Check back door lock assembly (open switch).

Terminal		Condition	Continuity
Back door lock assembly (open switch)			
4	8	Back door lock	Open Existed
			Fully closed/Half latch Not existed

Is the inspection result normal?

- YES >> INSPECTION END

B2419 OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> Replace back door lock assembly. Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#).

B2420 CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2420 CLOSE SWITCH

Description

INFOID:000000009718952

The close switch is integrated in the door lock assembly, and it detects the close condition of the back door lock.

DTC Logic

INFOID:000000009718953

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2420	CLOSE SWITCH	When the automatic power back door control unit detects any of the following conditions <ul style="list-style-type: none"> The change of close switch cannot be detected for 3 second or more after starting the closure close output for the 3rd time in a row 	<ul style="list-style-type: none"> Close switch Harness or connectors (Close switch circuit is open or shorted) Automatic back door control unit

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Operate automatic back door 3 times.
- Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

- YES >> Go to [DLK-81. "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009718954

1. CHECK CLOSE SWITCH SIGNAL

Check close switch ("CLOSE SW") in Data Monitor mode.

Monitor item	Condition	Status
CLOSE SW	Back door lock	Open/Half latch OFF
		Fully closed ON

DLK

Is the inspection result normal?

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

2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect back door lock assembly connector.
- Check voltage between back door lock assembly harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
D179	5	Ground	Battery voltage

Is the inspection result normal?

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

3. CHECK CLOSE SWITCH CIRCUIT

- Disconnect automatic back door control unit connector.

B2420 CLOSE SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B8	19	D179	5	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	19		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK CLOSE SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D179	8		Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK CLOSE SWITCH

Refer to [DLK-148, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door lock assembly. Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009718955

COMPONENT INSPECTION

1.CHECK CLOSE SWITCH

Check back door lock assembly (close switch).

Terminal		Condition	Continuity
Back door lock assembly (close switch)			
5	8	Back door lock position Fully closed	Existed
		Open/Half latch	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#).

B2421 CLUTCH OPERATION TIME

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

B2421 CLUTCH OPERATION TIME

Description

INFOID:000000009718956

The clutch operates by the power supplied from the automatic back door control unit. It performs the duty control of the power supply to control the operation speed of the back door.

DTC Logic

INFOID:000000009718957

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2421	CLUTCH OPERATION TIME	When the automatic back door control unit detects the power distribution to the clutch for 2 minutes or more	<ul style="list-style-type: none"> Automatic back door control unit Harness or connectors (Clutch circuit is shorted) Battery voltage (low voltage)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

- YES >> Go to [DLK-83, "Diagnosis Procedure"](#).
 NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009718958

1. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

- Turn ignition switch OFF.
- Disconnect automatic back door control unit connector and automatic back door unit connector.
- Check continuity between automatic back door control unit harness connector and automatic back door unit harness connector.

Automatic back door control unit		Automatic back door unit		Continuity
Connector	Terminal	Connector	Terminal	
B7	32	B76	9	Existed
	33		3	

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B7	32		Not existed
	33		

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).
 NO >> Repair or replace harness.

B2422 BACK DOOR STATE

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

B2422 BACK DOOR STATE

Description

INFOID:000000009718959

The automatic back door control unit counts the pulse signal from the encoder and determines the position of the back door.

DTC Logic

INFOID:000000009718960

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2422	BACK DOOR STATE	When the automatic power back door control unit detects a back door position malfunction according to the pulse signal	<ul style="list-style-type: none">• Back door mechanism• Automatic back door control unit• Back door closure (Door open and half latch switch is OFF)

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate automatic back door.
3. Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

- YES >> Go to [DLK-84, "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009718961

1.CHECK FUNCTION

Check half latch switch ("HALF LATCH SW") in Data Monitor mode.

Monitor item	Condition	Status	
HALF LATCH SW	Back door lock	Fully closed/Half latch	OFF
		Open	ON

Is the inspection result normal?

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

2.CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

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

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
D179	6	Ground	Battery voltage

Is the inspection result normal?

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

3.CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.

B2422 BACK DOOR STATE

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B8	8	D179	6	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	8		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-368. "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK HALF LATCH SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D179	8		Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace back door lock assembly ground circuit.

5.CHECK HALF LATCH SWITCH

Refer to [DLK-85. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door lock assembly. Refer to [DLK-351. "DOOR LOCK : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009718962

COMPONENT INSPECTION

1.CHECK HALF LATCH SWITCH

Check back door lock assembly (half latch switch).

Terminal		Back door lock position	Continuity
Back door lock assembly (half latch switch)			
6	8	Open	Existed
		Fully closed/Half latch	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to [DLK-351. "DOOR LOCK : Removal and Installation"](#).

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

Description

INFOID:000000009718963

The automatic back door motor is integrated in the automatic back door unit. The automatic back door motor opens/closes the back door.

DTC Logic

INFOID:000000009718964

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2423	AUTOMATIC BACK DOOR MOTOR OPERATION TIME	When the automatic power back door control unit and automatic back door motor operate in the same direction for 30 seconds or more continuously	<ul style="list-style-type: none">ClutchAutomatic back door motorBack door mechanismAutomatic back door unitBattery voltage (low battery)Harness (automatic back door motor circuit is shorted)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Operate automatic back door.
- Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

- YES >> Go to [DLK-86. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009718965

1. CHECK AUTOMATIC BACK DOOR MOTOR CIRCUIT

- Turn ignition switch OFF.
- Disconnect automatic back door control unit connector and automatic back door unit connector.
- Check continuity between automatic back door control unit harness connector and automatic back door unit harness connector.

Automatic back door control unit		Automatic back door unit		Continuity
Connector	Terminal	Connector	Terminal	
B7	27	B76	7	Existed
	29		8	

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B7	27		Not existed
	29		

Is the inspection result normal?

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

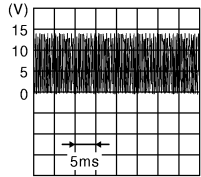
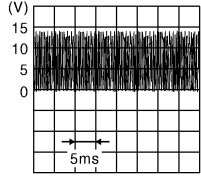
2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

- Connect automatic back door control unit connector and automatic back door motor connector.
- Check voltage between automatic back door unit harness connector and ground.

B2423 AUTOMATIC BACK DOOR MOTOR OPERATION TIME

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door control unit		(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				
B76	7	Ground	Automatic back door	Active (open)	Battery voltage
				Active (close)	
				Other than above	0
	8	Ground	Automatic back door	Active (close)	Battery voltage
				Active (open)	
				Other than above	0

Is the inspection result normal?

- YES >> Replace automatic back door unit. Refer to [DLK-352, "POWER BACK DOOR DRIVE ASSEMBLY : Removal and Installation"](#).
- NO >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).

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B2424 CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2424 CLOSURE CONDITION

Description

INFOID:000000009718966

The back door lock assembly consists of the open switch, close switch, half latch switch and closure motor. The automatic back door control unit determines the back door lock condition according to the signal from each switch and performs the open/close operation of closure motor.

DTC Logic

INFOID:000000009718967

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2424	CLOSURE CONDITION	When the following conditions are detected after OPEN/CLOSE operation of the back door closure motor <ul style="list-style-type: none">Open switch and close switch are ON	<ul style="list-style-type: none">Harness or connector (Open switch or close switch circuit is shorted)Back door lock assembly

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Operate automatic back door.
- Check "Self Diagnostic Result" with CONSULT.

Is DTC detected?

- YES >> Go to [DLK-88. "Diagnosis Procedure"](#).
NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000009718968

1. CHECK OPEN/CLOSE SWITCH SIGNAL

Check open/close switch ("OPEN SW"/"CLOSE SW") in Data Monitor mode.

Monitor item	Condition		Status
OPEN SW	Back door lock	Fully closed/Half latch	OFF
		Open	ON
CLOSE SW	Back door lock	Open/Half latch	OFF
		Fully closed	ON

Is the inspection result normal?

- YES >> Open switch is OK.
NO >> GO TO 2.

2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

- Turn ignition switch OFF.
- Disconnect back door lock assembly connector.
- Check voltage between back door lock assembly harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
D179	5	Ground	Battery voltage
	4		

Is the inspection result normal?

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

B2424 CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3.CHECK OPEN/CLOSE SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B8	19	D179	5	Existed
	20		4	

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	19		Not existed
	20		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-368. "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK CLOSE SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D179	8		Existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5.CHECK CLOSE SWITCH

Refer to [DLK-89. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace back door lock assembly. Refer to [DLK-351. "DOOR LOCK : Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009718969

COMPONENT INSPECTION

1.CHECK OPEN/CLOSE SWITCH

Check back door lock assembly (open/close switch).

Terminal	Condition	Continuity
Back door lock assembly (close switch)		

B2424 CLOSURE CONDITION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

5	8	Back door lock	Fully closed	Existed
4			Open/Half latch	Not existed
			Open	Existed
			Fully closed/Half latch	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#).

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2622 INSIDE ANTENNA

Description

INFOID:000000009718970

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

DTC Logic

INFOID:000000009718971

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA 2 CIRCUIT	An excessive high or low voltage from inside antenna is sent to BCM.	<ul style="list-style-type: none"> Inside key antenna (console) Between BCM ~ Inside key antenna (console)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

- Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "Work Support" of "INTELLIGENT KEY".
- Perform "INTELLIGENT KEY" Self Diagnostic Result.

Is inside key antenna DTC detected?

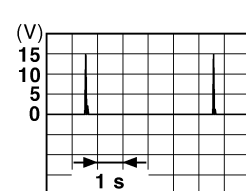
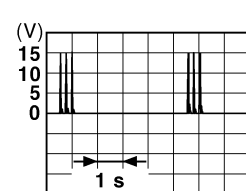
- YES >> Refer to [DLK-91, "Diagnosis Procedure"](#).
- NO >> Inside key antenna (console) is OK.

Diagnosis Procedure

INFOID:000000009718972

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+)		(-)	Condition	Signal (Reference value.)
BCM				
Connector	Terminal			
M122	Console	72, 73	Ground	 <p style="text-align: right;">JMKIA0062GB</p>
				 <p style="text-align: right;">JMKIA0063GB</p>

Is the inspection result normal?

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

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

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B2622 INSIDE ANTENNA

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

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

BCM		Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	
M122	72	M305	2	Existed
	73		1	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M122	72	Console	Not existed
	73		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and inside key antenna.

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

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

Is the inspection result normal?

YES >> Replace inside key antenna (console). Refer to [DLK-359, "CONSOLE : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2623 INSIDE ANTENNA

Description

INFOID:000000009718973

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

DTC Logic

INFOID:000000009718974

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2623	INSIDE ANTENNA 3 CIRCUIT	An excessive high or low voltage from inside antenna is sent to BCM.	<ul style="list-style-type: none"> Inside key antenna (luggage room) Between BCM ~ Inside key antenna (luggage room)

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

With CONSULT

- Perform inside key antenna ("INSIDE ANT DIAGNOSIS") on "Work Support" of "INTELLIGENT KEY".
- Perform "INTELLIGENT KEY" Self Diagnostic Result.

Is inside key antenna DTC detected?

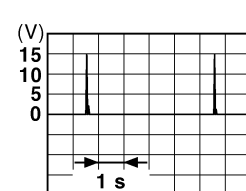
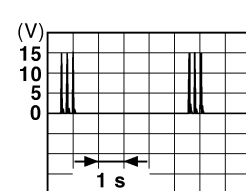
- YES >> Refer to [DLK-93, "Diagnosis Procedure"](#).
- NO >> Inside key antenna (luggage room) is OK.

Diagnosis Procedure

INFOID:000000009718975

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

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

Terminals				Condition	Signal (Reference value.)
(+)		(-)			
BCM connector	Terminal				
M121	Luggage room	34, 35	Ground	Place Intelligent Key inside the vehicle.	 <p>JMKIA0062GB</p>
				Place Intelligent Key outside the vehicle.	 <p>JMKIA0063GB</p>

Is the inspection result normal?

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

2. CHECK INSIDE KEY ANTENNA CIRCUIT

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

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B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

BCM		Inside key antenna		Continuity
Connector	Terminal	Connector	Terminal	
M121	34	B49	2	Existed
	35		1	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M121	34		Not existed
	35		

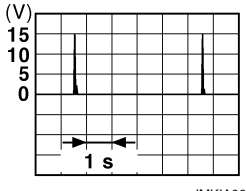
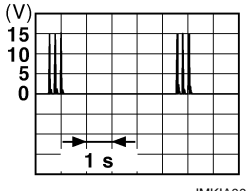
Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness between BCM and inside key antenna (luggage room).

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

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

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

Is the inspection result normal?

YES >> Replace inside key antenna (luggage room). Refer to [DLK-360, "LUGGAGE ROOM : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

4. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

BCM (BODY CONTROL MODULE)

BCM (BODY CONTROL MODULE) : Diagnosis Procedure

INFOID:000000009718976

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	L
	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 Battery voltage
Connector	Terminal	
M118	1	
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		Existed
M119	13		Existed

Does continuity exist?

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

AUTOMATIC BACK DOOR CONTROL UNIT

AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:000000009718977

1. CHECK FUSE, FUSIBLE LINK AND CIRCUIT BREAKER

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

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Fuse and fusible link No.	Signal name
J	Battery power supply
Circuit breaker	
6	
3	Ignition power supply

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 automatic back door control unit connector.
3. Check voltage between automatic back door control unit harness connector and ground.

(+) Automatic back door control unit		(-)	Condition	Voltage (Approx.)
Connector	Terminal			
B8	9	Ground	Ignition switch: ON	Battery voltage
	10		—	
B7	28			

Is the measurement value normal?

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

3.CHECK GROUND CIRCUIT

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B7	34		Existed

Does continuity exist?

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

DOOR SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

DOOR SWITCH WITH AUTOMATIC BACK DOOR

WITH AUTOMATIC BACK DOOR : Description

INFOID:000000009718978

Detects door open/close condition.

WITH AUTOMATIC BACK DOOR : Component Function Check

INFOID:000000009718979

1. CHECK FUNCTION

With CONSULT

Check door switches ("DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL", "DOOR SW-RR" and "DOOR SW-BK") in Data Monitor" mode with CONSULT.

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

Is the inspection result normal?

YES >> Door switch is OK.

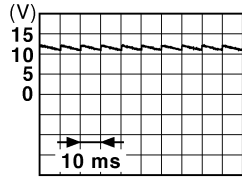
NO >> Refer to [DLK-97, "WITH AUTOMATIC BACK DOOR : Diagnosis Procedure"](#).

WITH AUTOMATIC BACK DOOR : Diagnosis Procedure

INFOID:000000009718980

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 with oscilloscope.

(+)		Terminal	(-)	Voltage (V) (Approx.)
Door switch				
Connector		3	Ground	
Driver side	B32			
Passenger side	B233			
Rear LH	B31			
Rear RH	B232			
Back door	D179	7		

JPMIA0011GB

Is the inspection result normal?

YES-1 >> Back door: GO TO 3.

YES-2 >> Other doors: GO TO 4.

NO >> GO TO 2.

2. CHECK DOOR SWITCH CIRCUIT

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

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Door switch		Continuity
Connector	Terminal	Connector	Terminal	
M123	150	B32	2	Existed
	124	B233		
M121	69	B31		
	68	B232		
	66	D179	7	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	B32	Ground	Not existed
	B233		
M121	B31		
	B232		
	D179		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK BACK DOOR SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly (back door switch) harness connector and ground.

Back door lock assembly (back door switch)		Ground	Continuity
Connector	Terminal		
D179	8	Ground	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR SWITCH

Refer to [DLK-98, "WITH AUTOMATIC BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning door switch.

- Door switch: Refer to [DLK-358, "Removal and Installation"](#).

- Back door lock assembly (back door switch): Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

WITH AUTOMATIC BACK DOOR : Component Inspection

INFOID:000000009718981

1.CHECK DOOR SWITCH

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

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Terminal			Door switch condition	Continuity
Door switch				
Each door	3	Ground part of door switch	Pressed	Not existed
			Released	Existed
Back door	7	8	Pressed	Not existed
			Released	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

- Door switch: Refer to [DLK-358, "Removal and Installation"](#).
- Back door lock assembly (back door switch): Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#).

WITHOUT AUTOMATIC BACK DOOR

WITHOUT AUTOMATIC BACK DOOR : Description

INFOID:000000009718982

Detects door open/close condition.

WITHOUT AUTOMATIC BACK DOOR : Component Function Check

INFOID:000000009718983

1. CHECK FUNCTION

With CONSULT

Check door switches ("DOOR SW-DR", "DOOR SW-AS", "DOOR SW-RL", "DOOR SW-RR" and "DOOR SW-BK") in Data Monitor" mode with CONSULT.

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

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Is the inspection result normal?

YES >> Door switch is OK.

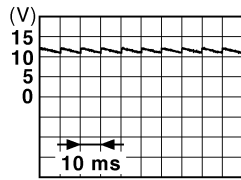
NO >> Refer to [DLK-99, "WITHOUT AUTOMATIC BACK DOOR : Diagnosis Procedure"](#).

WITHOUT AUTOMATIC BACK DOOR : Diagnosis Procedure

INFOID:000000009718984

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 with oscilloscope.

(+)		(-)	Voltage (V) (Approx.)
Door switch			
Connector	Terminal	Ground	
Driver side	B32		
Passenger side	B233		
Rear LH	B31		
Rear RH	B232		
Back door	D180		

JPMIA0011GB

DOOR SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

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

2.CHECK DOOR SWITCH CIRCUIT

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

BCM		Door switch		Continuity
Connector	Terminal	Connector	Terminal	
M123	150	B32	3	Existed
	124	B233		
M121	69	B31		
	68	B232		
	66	D180		

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	B32	Ground	Not existed
	B233		
M121	B31		
	B232		
	D180		

Is the inspection result normal?

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

3.CHECK BACK DOOR SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly (back door switch) harness connector and ground.

Back door lock assembly (back door switch)		Ground	Continuity
Connector	Terminal		
D180	4		Existed

Is the inspection result normal?

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

4.CHECK DOOR SWITCH

Refer to [DLK-101, "WITHOUT AUTOMATIC BACK DOOR : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Replace malfunctioning door switch.
 - Door switch: Refer to [DLK-358, "Removal and Installation"](#).
 - Back door lock assembly (back door switch): Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

WITHOUT AUTOMATIC BACK DOOR : Component Inspection

INFOID:000000009718985

1. CHECK DOOR SWITCH

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

Terminal			Door switch condition	Continuity
Door switch				
Each door	3	Ground part of door switch	Pressed	Not existed
			Released	Existed
Back door		4	Pressed	Not existed
			Released	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace malfunction door switch.

- Door switch: Refer to [DLK-358, "Removal and Installation"](#).
- Back door lock assembly (back door switch): Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#).

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DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000009718986

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:000000009718987

1.CHECK FUNCTION

With CONSULT

Check ("CDL LOCK SW ", "CDL UNLOCK SW") in Data Monitor mode with CONSULT.

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

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to [DLK-102, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000009718988

1.CHECK POWER WINDOW SWITCH

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

Does power window (driver side) operate?

YES >> Replace power window main switch.

NO >> Go to [PWC-103, "Diagnosis Procedure"](#).

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000009718989

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000009718990

1.CHECK FUNCTION

With CONSULT

Check ("CDL LOCK SW ", "CDL UNLOCK SW") in Data Monitor mode with CONSULT.

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

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to [DLK-102, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000009718991

1.CHECK POWER WINDOW SWITCH

DOOR LOCK AND UNLOCK SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

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

Does power window (passenger side) operate?

- YES >> Replace power window switch (passenger side)
NO >> Go to [PWC-103, "Diagnosis Procedure"](#).

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DOOR LOCK ACTUATOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000009718992

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:000000009718993

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-104, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000009718994

1. CHECK OUTPUT SIGNAL

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

(+)		(-)	Condition of door lock and unlock switch	Voltage (V) (Approx.)
Front door lock assembly				
Connector	Terminal	Ground	LOCK	0 → Battery voltage → 0
D9	1			
	2			

Is the inspection result normal?

- YES >> Replace front door lock assembly (driver side). Refer to [DLK-318, "DOOR ASSEMBLY : Removal and Installation"](#).
NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M119	8	D9	1	Existed
	9		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	8	Not existed	
	9		

Is the inspection result normal?

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

PASSENGER SIDE

DOOR LOCK ACTUATOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

PASSENGER SIDE : Description

INFOID:000000009718995

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000009718996

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-105. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000009718997

1.CHECK DOOR LOCK ACTUATOR SIGNAL

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

(+)		(-)	Condition of door lock and unlock switch	Voltage (V) (Approx.)
Front door lock assembly (passenger side)				
Connector	Terminal			
D48	5	Ground	LOCK	0 → Battery voltage → 0
	6		UNLOCK	0 → Battery voltage → 0

Is the inspection result normal?

- YES >> Replace front door lock assembly (passenger side). Refer to [DLK-318. "DOOR ASSEMBLY : Removal and Installation"](#).
 NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

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BCM		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M119	8	D48	5	Existed
	5		6	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	8		Not existed
	5		

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-98. "Removal and Installation"](#).
 NO >> Repair or replace harness.

REAR LH

REAR LH : Description

INFOID:000000009718998

Locks/unlocks the door with the signal from BCM.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

REAR LH : Component Function Check

INFOID:000000009718999

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-106, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000009719000

1.CHECK DOOR LOCK ACTUATOR SIGNAL

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

(+)		(-)	Condition of door lock and unlock switch	Voltage (V) (Approx.)
Connector	Terminal			
D85	1	Ground	Lock	0 → Battery voltage → 0
	2		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

- YES >> Replace rear door lock assembly LH. Refer to [DLK-323, "DOOR ASSEMBLY : Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Rear door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	
M119	8	D85	1	Existed
	10		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	8		Not existed
	10		

Is the inspection result normal?

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

REAR RH

REAR RH : Description

INFOID:000000009719001

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:000000009719002

1.CHECK FUNCTION

DOOR LOCK ACTUATOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

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-107, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000009719003

1. CHECK DOOR LOCK ACTUATOR SIGNAL

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

(+)		(-)	Condition of door lock and unlock switch	Voltage (V) (Approx.)
Rear door lock assembly RH				
Connector	Terminal			
D105	5	Ground	Lock	0 → Battery voltage → 0
	6		Unlock	0 → Battery voltage → 0

Is the inspection result normal?

- YES >> Replace rear door lock assembly RH. Refer to [DLK-323, "DOOR ASSEMBLY : Removal and Installation"](#).
NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

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

BCM		Rear door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	
M119	8	D105	5	Existed
	10		6	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M119	8		Not Existed
	10		

Is the inspection result normal?

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

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BACK DOOR OPENER ACTUATOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR OPENER ACTUATOR

Description

INFOID:000000009719004

Back door opener actuator open back door from BCM.

Component Function Check

INFOID:000000009719005

1.CHECK FUNCTION

1. Perform Active Test ("TRUNK/GLASS HATCH") with CONSULT.
2. Touch "OPEN" and check that back door opens.

Is the inspection result normal?

- YES >> Back door opener actuator is OK.
NO >> Refer to [DLK-108, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719006

1.CHECK OUTPUT SIGNAL

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

(+)		(-)	Condition of back door opener switch	Voltage (V) (Approx.)
Connector	Terminal			
D180	1	Ground	ON	0 → Battery voltage → 0

Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER ACTUATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and back door lock assembly (back door opener actuator) harness connector.

BCM		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
M120	23	D180	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M120	23		Not existed

Is the inspection result normal?

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

3.CHECK BACK DOOR OPENER ACTUATOR GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D180	2		Existed

BACK DOOR OPENER ACTUATOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection normal?

- YES >> Replace back door lock assembly. Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#)
- NO >> Repair or replace harness.

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KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY CYLINDER SWITCH

Description

INFOID:000000009719007

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

Component Function Check

INFOID:000000009719008

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check ("KEY CYL LK-SW", "KEY CYL UN-SW") in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to [DLK-55. "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

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

Is the inspection result normal?

- YES >> Key cylinder switch is OK.
NO >> Refer to [DLK-110. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719009

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (V) (Approx.)
Front door lock assembly (driver side)			
Connector	Terminal	Ground	5
D9	5		
	6		

Is the inspection result normal?

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

2. CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

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

Power window main switch		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
D5	4	D9	6	Existed
	6		5	

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

KEY CYLINDER SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Power window main switch		Ground	Continuity
Connector	Terminal		
D5	4		Not existed
	6		

Is the inspection result normal?

YES >> Replace power window main switch. Refer to [PWC-118, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

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

Front door lock assembly (driver side)		Ground	Continuity
Connector	Terminal		
D9	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to [DLK-111, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side). Refer to [DLK-318, "DOOR ASSEMBLY : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009719010

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COMPONENT INSPECTION

1.CHECK DOOR KEY CYLINDER SWITCH

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

Terminal		Key position	Continuity
Front door lock assembly (driver side) connector			
5	4	Unlock	Existed
		Neutral / Lock	Not existed
6	4	Lock	Existed
		Neutral / Unlock	Not existed

Is the inspection result normal?

YES >> Door key cylinder switch is OK.

NO >> Replace front door lock assembly (driver side). Refer to [DLK-318, "DOOR ASSEMBLY : Removal and Installation"](#).

REMOTE KEYLESS ENTRY RECEIVER

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

REMOTE KEYLESS ENTRY RECEIVER

Description

INFOID:000000009719011

Receives Intelligent Key operation and transmits to BCM.

Component Function Check

INFOID:000000009719012

1.CHECK FUNCTION

With CONSULT

Check remote keyless entry receiver ("RKE OPE COUN1") in Data Monitor mode with 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-112, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719013

1.CHECK BCM SIGNAL 1

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.)
Connector	Terminal		
M78	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	M78	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-98, "Removal and Installation"](#).
NO >> Repair or replace harness.

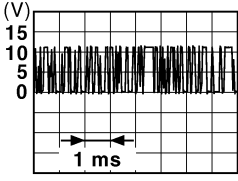
3.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

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

REMOTE KEYLESS ENTRY RECEIVER

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

(+)		(-)	Voltage (V) (Approx.)
Remote keyless entry receiver			
Connector	Terminal		
M78	4	Ground	 <small>JMKIA0064GB</small>

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace remote keyless entry receiver.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

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

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M122	137	M78	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M122	137		Not existed

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace harness.

5. CHECK BCM SIGNAL 2

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		
M78	2	Ground	12

Is the inspection result normal?

YES >> GO TO 7.

NO >> GO TO 6.

6. 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	M78	2	Existed

3. Check continuity between BCM harness connector and ground.

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

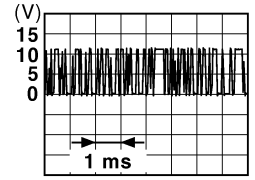
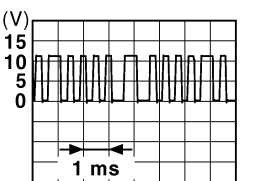
BCM		Ground	Continuity
Connector	Terminal		
M122	83		

Is the inspection result normal?

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

7. 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			
M78	2	Ground	Waiting	
			Press the Intelligent Key lock or unlock button	

Is the inspection result normal?

- YES >> GO TO 8.
 NO >> Replace remote keyless entry receiver.

8. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

BACK DOOR OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPENER SWITCH

Description

INFOID:000000009719014

Output back door open signal to BCM.

Component Function Check

INFOID:000000009719015

1.CHECK FUNCTION

Check back door opener switch ("TR/BD OPEN SW") in "Data Monitor mode with CONSULT.

- When back door opener switch is turned to "ON".

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

Is the inspection result normal?

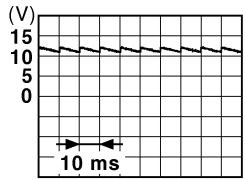
- YES >> Back door opener switch is OK.
 NO >> Refer to [DLK-115, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719016

1.CHECK BACK DOOR OPEN INPUT SIGNAL

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

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
D186	1	Ground	 <p style="text-align: right;">JPMIA0011GB</p>

Is the inspection result normal?

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

2.CHECK BACK DOOR OPENER SWITCH CIRCUIT

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

BCM		Back door opener switch assembly		Continuity
Connector	Terminal	Connector	Terminal	
M121	67	D186	1	Existed

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M121	67		Not existed

BACK DOOR OPENER SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

NO >> Repair harness or connector.

3.CHECK BACK DOOR OPENER SWITCH GROUND CIRCUIT

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

Back door opener switch assembly		Ground	Continuity
Connector	Terminal		
D186	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK BACK DOOR OPENER SWITCH

Refer to [DLK-116, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch assembly. Refer to [DLK-365, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009719017

1.CHECK BACK DOOR OPENER SWITCH

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

Terminal		Condition	Continuity
Back door opener switch assembly			
1	2	ON (press and hold)	Existed
		OFF (release)	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch assembly. Refer to [DLK-365, "Removal and Installation"](#).

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR REQUEST SWITCH

Description

INFOID:000000009719018

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:000000009719019

1.CHECK FUNCTION

Check door request switch ("REQ SW-DR" or "REQ SW-AS") in Data Monitor mode.

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

Is the inspection result normal?

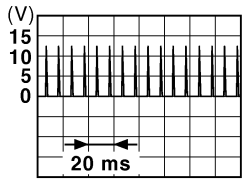
- YES >> Door request switch is OK.
 NO >> Refer to [DLK-117, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719020

1.CHECK BCM OUTPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect malfunctioning front outside handle (request switch) connector.
- Check voltage between malfunctioning front outside handle (request switch) harness connector and ground.

(+)		Terminal	(-)	Voltage (V) (Approx.)
Connector	front outside handle (request switch)			
Driver side	D11	1	Ground	
Passenger side	D50			

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Is the inspection result normal?

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

2.CHECK DOOR REQUEST SWITCH CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and malfunctioning front outside handle (request switch) harness connector.

BCM		front outside handle (request switch)		Continuity
Connector	Terminal	Connector	Terminal	
M122	101	LH (driver side)	D11	Existed
	100	RH (passenger side)	D50	

- Check continuity between BCM harness connector and ground.

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Ground	Continuity
Connector	Terminal		
M122	101		
	100		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

NO >> Repair or replace harness between BCM and malfunctioning front outside handle (request switch).

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

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

front outside handle (request switch)		Ground	Continuity
Connector	Terminal		
Driver side	D11		2
Passenger side	D50		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace malfunctioning front outside handle (request switch) ground circuit.

4.CHECK DOOR REQUEST SWITCH

Refer to [DLK-118, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front outside handle (request switch). Refer to [DLK-344, "OUTSIDE HANDLE : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009719021

1.CHECK DOOR REQUEST SWITCH

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front outside handle. Refer to [DLK-344, "OUTSIDE HANDLE : Removal and Installation"](#).

BACK DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR REQUEST SWITCH

Description

INFOID:000000009719022

Transmits lock/unlock operation to BCM.

Component Function Check

INFOID:000000009719023

1. CHECK FUNCTION

Check back door request switch ("REQ SW -BD/TR ") in Data Monitor mode.

Monitor item	Condition
REQ SW -BD/TR	Back door request switch is pressed: ON
	Back door request switch is released: OFF

Is the inspection result normal?

- YES >> Back door request switch is OK.
 NO >> Refer to [DLK-119, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719024

1. CHECK BCM OUTPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect back door opener switch assembly.
- Check voltage between back door opener switch assembly harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
D186	4	Ground	

Is the inspection result normal?

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

2. CHECK BACK DOOR REQUEST SWITCH CIRCUIT

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

BCM		Back door opener switch assembly		Continuity
Connector	Terminal	Connector	Terminal	
M121	61	D186	4	Existed

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M121	61		Not existed

Is the inspection result normal?

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BACK DOOR REQUEST SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace BCM. Refer to [BCS-98, "Exploded View"](#).

NO >> Repair harness or connector.

3.CHECK BACK DOOR REQUEST SWITCH GROUND CIRCUIT

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

Back door opener switch assembly		Ground	Continuity
Connector	Terminal		Existed
D186	3		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace back door request switch ground circuit.

4.CHECK BACK DOOR REQUEST SWITCH

Refer to [DLK-120, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door opener switch assembly. Refer to [DLK-365, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009719025

1.CHECK BACK DOOR REQUEST SWITCH

Check back door opener switch assembly terminals.

Back door opener switch assembly		Back door request switch condition	Continuity
Terminal			Existed
3	4	Pressed	Existed
		Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door opener switch assembly. Refer to [DLK-365, "Removal and Installation"](#).

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

UNLOCK SENSOR

Description

INFOID:000000009719026

Detects door lock condition of driver door.

Component Function Check

INFOID:000000009719027

1. CHECK FUNCTION

Check unlock sensor ("DOOR STAT-DR") in "Data Monitor" mode.

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

Is the inspection result normal?

YES >> Unlock sensor is OK.

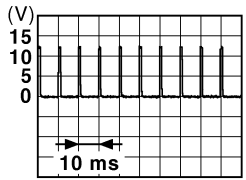
NO >> Refer to [DLK-121, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719028

1. CHECK BCM OUTPUT SIGNAL

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

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
D9	3	Ground	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK UNLOCK SENSOR CIRCUIT

- Disconnect BCM connector.
- Check continuity between BCM harness connector and front door lock assembly (driver side) harness connector.

BCM		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M123	119	D9	3	Existed

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M123	119		Not existed

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UNLOCK SENSOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

NO >> Repair harness or connector.

3.CHECK UNLOCK SENSOR GROUND CIRCUIT

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

Front door lock assembly (driver side)		Ground	Continuity
Connector	Terminal		
D9	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace front door lock assembly (driver side) ground circuit.

4.CHECK UNLOCK SENSOR

Refer to [DLK-122, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly (driver side). Refer to [DLK-340, "DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009719029

1.CHECK UNLOCK SENSOR

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front lock assembly (driver side). Refer to [DLK-340, "DOOR LOCK : Removal and Installation"](#).

OUTSIDE KEY ANTENNA

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

OUTSIDE KEY ANTENNA

Description

INFOID:000000009719030

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

Component Function Check

INFOID:000000009719031

1. CHECK DOOR REQUEST SWITCH

Check door request switch. Refer to [DLK-117, "Component Function Check"](#)

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Refer to [DLK-117, "Diagnosis Procedure"](#).

2. CHECK FUNCTION

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

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

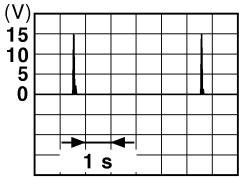
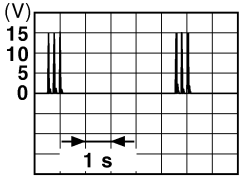
- YES >> Outside key antenna is OK.
- NO >> Refer to [DLK-123, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719032

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

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

(+)		(-)	Condition	Signal (Reference value.)
BCM				
Connector	Terminal			
M122	Driver side	76, 77	Request switch is pushed	 <p>JMKIA0062GB</p>
	Passenger side	74, 75		
M121	Rear bumper	38, 39	When Intelligent Key is not in the antenna detection area.	 <p>JMKIA0063GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#)
- NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Disconnect BCM connector and malfunctioning front outside handle connector or outside key antenna (rear bumper) connector.
2. Check continuity between BCM harness connector and outside key antenna harness connector.

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OUTSIDE KEY ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Outside key antenna		Continuity
Connector	Terminal	Connector	Terminal	
M122	77	D12 (driver side)	1	Existed
	76		2	
	75	D52 (passenger side)	1	
	74		2	
M121	39	B85 (rear bumper)	1	
	38		2	

3. Check continuity between BCM harness connector and ground.

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

Is the inspection result normal?

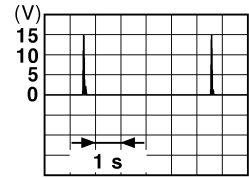
YES >> GO TO 3.

NO >> Repair harness or connector.

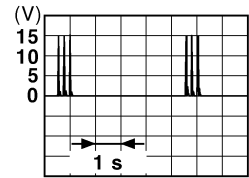
3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

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

(+)		(-)	Condition	Signal (Reference value.)
BCM				
Connector	Terminal			
M122	Driver side 77	Ground	Door request switch is pushed	When Intelligent Key is in the antenna detection area.
	Passenger side 75			
M121	Rear bumper 39	Ground	Door request switch is pushed	When Intelligent Key is not in the antenna detection area.



JMKIA0062GB



JMKIA0063GB

Is the inspection result normal?

YES-1 >> Replace malfunctioning front outside handle (LH or RH). Refer to [DLK-344, "OUTSIDE HANDLE : Removal and Installation"](#).

YES-2 >> Replace outside key antenna (Rear bumper). Refer to [DLK-361, "REAR BUMPER : Removal and Installation"](#).

NO >> Replace BCM. Refer to [BCS-98, "Removal and Installation"](#).

INTELLIGENT KEY WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY WARNING BUZZER

Description

INFOID:000000009719033

Answers back and warns for an inappropriate operation.

Component Function Check

INFOID:000000009719034

1.CHECK FUNCTION

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

Is the inspection result normal?

- YES >> Intelligent Key warning buzzer (engine room) is OK.
- NO >> Refer to [DLK-125, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719035

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.)
Connector	Terminal		
E25	1	Ground	Battery voltage

Is the inspection result normal?

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

3.CHECK INTELLIGENT KEY WARNING BUZZER CIRCUIT

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

BCM		Intelligent Key warning buzzer		Continuity
Connector	Terminal	Connector	Terminal	
M121	64	E25	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 between BCM and Intelligent Key warning buzzer.

4.CHECK INTELLIGENT KEY WARNING BUZZER

Check [DLK-126, "Component Inspection"](#).

Is the inspection result normal?

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INTELLIGENT KEY WARNING BUZZER

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace BCM. Refer to [BCS-98. "Removal and Installation"](#).
NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-363. "Removal and Installation"](#).

Component Inspection

INFOID:000000009719036

1. CHECK INTELLIGENT KEY WARNING BUZZER

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

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

Is the inspection result normal?

- YES >> INSPECTION END
NO >> Replace Intelligent Key warning buzzer. Refer to [DLK-363. "Removal and Installation"](#).

INTELLIGENT KEY

Description

INFOID:000000009719037

The following functions are available when having and carrying electronic ID.

- Door lock/unlock
- Back door open (with automatic back door system)
- Engine start

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

Component Function Check

INFOID:000000009719038

1. CHECK FUNCTION

Check remote keyless entry receiver ("RKE OPE COUN1") in Data Monitor mode with 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-127, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719039

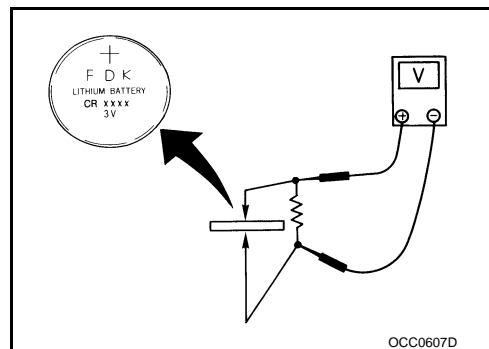
1. CHECK INTELLIGENT KEY BATTERY

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

Standard : Approx. 2.5 - 3.0V

Is the measurement value within the specification?

- YES >> INSPECTION END
 NO >> Replace Intelligent Key battery. Refer to [DLK-127, "Component Inspection"](#).



Component Inspection

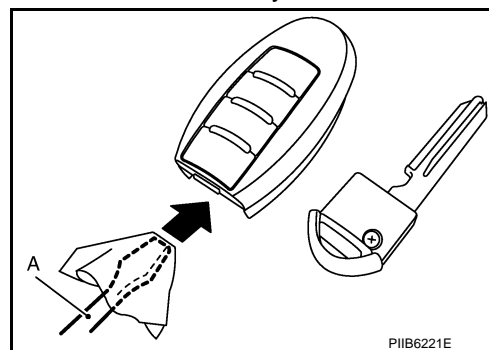
INFOID:000000009719040

1. REPLACE INTELLIGENT KEY BATTERY

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

CAUTION:

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



3. Replace the battery with new one.

INTELLIGENT KEY

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

4. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

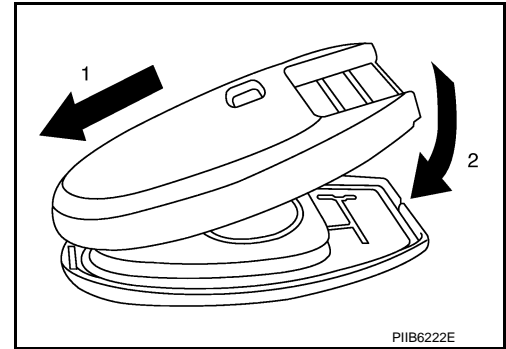
CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, check that all Intelligent Key functions work normally.

Is the inspection result normal?

YES >> Intelligent Key is OK.

NO >> Check remote keyless entry receiver. Refer to [DLK-112](#), "[Component Function Check](#)".



PIIB6222E

INFOID:000000009719041

Special Repair Requirement

Refer to CONSULT Operation Manual NATS-IVIS/NVIS.

KEY SLOT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY SLOT

Description

INFOID:000000009719042

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

Component Function Check

INFOID:000000009719043

1.CHECK FUNCTION

Check key slot ("KEY SW -SLOT") in Data Monitor mode with CONSULT.

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

Is the inspection result normal?

- YES >> Key slot is OK.
- NO >> Refer to [DLK-129, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719044

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10 A fuse, [No.9, 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	Ground	Battery voltage
M99	1		

Is the inspection result normal?

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

3.CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector and ground.

Key slot		Ground	Continuity
Connector	Terminal		
M99	7		Existed

Is the inspection result normal?

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

4.CHECK KEY SLOT CIRCUIT

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

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KEY SLOT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Key slot		Continuity
Connector	Terminal	Connector	Terminal	
M123	121	M99	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 5.

NO >> Repair or replace harness.

5.CHECK KEY SLOT

Refer to [DLK-130, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Replace key slot. Refer to [DLK-364, "Removal and Installation"](#).

6.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009719045

1.CHECK KEY SLOT

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace key slot. Refer to [DLK-364, "Removal and Installation"](#).

KEY SLOT ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY SLOT ILLUMINATION

Description

INFOID:000000009719046

Blinks when Intelligent Key insertion is required.

Component Function Check

INFOID:000000009719047

1.CHECK FUNCTION

Check key slot illumination ("KEY SLOT ILLUMI") Active Test mode.

Is the inspection result normal?

YES >> Key slot function is OK.

NO >> Refer to [DLK-131. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719048

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check 10 A fuse, [No.9, 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 ILLUMINATION OUTPUT SIGNAL

Check voltage between key slot connector and ground.

(+)		(-)	Condition	Key slot illumination	Voltage (V) (Approx.)
Key slot					
Connector	Terminal				
M99	6	Ground	Intelligent Key inserted	OFF	Battery voltage
			Intelligent Key removed	ON	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 4.

3.CHECK KEY SLOT CIRCUIT

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

BCM		Key slot		Continuity
Connector	Terminal	Connector	Terminal	
M122	92	M99	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 >> Replace BCM. Refer to [BCS-98. "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK KEY SLOT POWER SUPPLY CIRCUIT

1. Disconnect key slot connector.

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KEY SLOT ILLUMINATION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

(+)		(-)	Voltage (V) (Approx.)
Key slot			
Connector	Terminal	Ground	Battery voltage
M99	5		

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace key slot power supply circuit.

5.CHECK KEY SLOT GROUND CIRCUIT

Check continuity between key slot harness connector and ground.

Key slot		Ground	Continuity
Connector	Terminal		
M99	7		Existed

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace key slot ground circuit.

6.CHECK KEY SLOT

Refer to [DLK-132, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace key slot. Refer to [DLK-364, "Removal and Installation"](#).

7.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009719049

1.CHECK KEY SLOT ILLUMINATION

1. Turn ignition switch OFF.
2. Disconnect key slot connector.
3. Connect battery power supply to key slot terminals 5 and 6, and check the operation.

5 (BAT+) - 6 (BAT-) : Key slot illuminates

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace key slot. Refer to [DLK-364, "Removal and Installation"](#).

HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

HORN FUNCTION

Description

INFOID:000000009719050

Perform answer-back for each operation with horn.

Component Function Check

INFOID:000000009719051

1.CHECK FUNCTION

1. Select "HORN" in "ACTIVE TEST" mode with CONSULT.
2. Check the horn (high/low) operation.

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

Is the operation normal?

- YES >> Horn function is OK.
NO >> Go to [DLK-133. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719052

1.CHECK HORN FUNCTION

Check horn function with horn switch

Do the horns sound?

- YES >> GO TO 2.
NO >> Go to [HRN-2. "Wiring Diagram - HORN -"](#).

2.CHECK HORN RELAY POWER SUPPLY

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

Horn relay		Ground	Test item		Voltage (V) (Approx.)
Connector	Terminal		HORN	ON	Battery voltage → 0 → Battery voltage
E5	1		Other than above	Battery voltage	

Is the inspection result normal?

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

3.CHECK HORN RELAY CIRCUIT

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

IPDM E/R		Horn relay		Continuity
Connector	Terminal	Connector	Terminal	
E11	44	E5	1	Existed

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

IPDM E/R		Ground	Continuity
Connector	Terminal		
E11	44		Not existed

Is the inspection result normal?

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HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> Replace IPDM E/R. Refer to [PCS-37, "Removal and Installation"](#).

NO >> Repair or replace harness.

4.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

Is the inspection result normal?

>> INSPECTION END

COMBINATION METER DISPLAY FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

COMBINATION METER DISPLAY FUNCTION

Description

INFOID:000000009719053

Displays each operation method guide and warning for system malfunction.

Component Function Check

INFOID:000000009719054

1.CHECK FUNCTION

Check the operation with ("LCD") in the Active Test.

Is each warning displayed on meter display?

Is the inspection result normal?

YES >> Meter display is OK.

NO >> Refer to [DLK-135. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719055

1.CHECK COMBINATION METER

Refer to [MWI-77. "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-44. "Intermittent Incident"](#).

>> INSPECTION END

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BUZZER (COMBINATION METER)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BUZZER (COMBINATION METER)

Description

INFOID:000000009719056

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:000000009719057

1.CHECK FUNCTION

1. Check the operation with "INSIDE BUZZER" in the Active Test.
2. Touch "TAKE OUT", "KNOB" or "KEY" on screen.

Is the inspection result normal?

- Yes >> Warning buzzer into combination meter is OK.
- No >> Refer to [DLK-136, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719058

1.CHECK METER BUZZER CIRCUIT

Refer to [WCS-24, "Component Function Check"](#).

Is the inspection result normal?

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

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY WARNING LAMP

Description

INFOID:000000009719059

Performs operation method guide and warning together with buzzer.

Component Function Check

INFOID:000000009719060

1.CHECK FUNCTION

Check the operation with "INDICATOR" in "Active Test" mode with CONSULT.

Test item	Condition	
INDICATOR	KEY ON	Key warning lamp illuminates
	KEY IND	Key warning lamp flashes

Is the inspection result normal?

YES >> Key warning lamp in combination meter is OK.

NO >> Refer to [DLK-137, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719061

1.CHECK KEY WARNING LAMP

Refer to [MWI-4, "Work flow"](#).

Is the inspection result normal?

Yes >> GO TO 2.

No >> Repair or replace key warning lamp circuit.

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

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HAZARD FUNCTION

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

HAZARD FUNCTION

Description

INFOID:000000009719062

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

Component Function Check

INFOID:000000009719063

1.CHECK FUNCTION

Check hazard warning lamp ("FLASHER") in Active Test.

Is the inspection result normal?

- YES >> Hazard warning lamp circuit is OK.
- NO >> Refer to [DLK-138, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719064

1.CHECK HAZARD SWITCH CIRCUIT

Refer to [EXL-83, "Wiring Diagram - TURN AND HAZARD WARNING LAMPS -"](#) (For xenon type) or [EXL-267, "Wiring Diagram - TURN AND HAZARD WARNING LAMPS -"](#) (For halogen type)

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Repair or replace hazard warning switch circuit. Refer to [EXL-162, "Symptom Table"](#).

2.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

AUTOMATIC BACK DOOR CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR CLOSE SWITCH

Description

INFOID:000000009719065

Automatic back door system can be operated (only close operation) from back door area by automatic back door close switch.

Component Function Check

INFOID:000000009719066

1.CHECK FUNCTION

Check automatic back door close switch ("BK DOOR CL SW") in Data Monitor mode.

Monitor item	Condition		Status
BK DOOR CL SW	Automatic back door close switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

YES >> Automatic back door close switch is OK.

NO >> Refer to [DLK-139, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719067

1.CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

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

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
D178	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH CIRCUIT

1. Disconnect automatic back door close switch connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door close switch harness connector.

Automatic back door control unit		Automatic back door close switch		Continuity
Connector	Terminal	Connector	Terminal	
B8	4	D178	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	4		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH GROUND CIRCUIT

Check continuity between automatic back door close switch harness connector and ground.

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AUTOMATIC BACK DOOR CLOSE SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Automatic back door close switch		Ground	Continuity
Connector	Terminal		Existed
D178	2		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Refer to [DLK-140, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door close switch. Refer to [DLK-371, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009719068

1.CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Check automatic back door close switch.

Terminal		Condition	Continuity	
Automatic back door close switch			Existed	
1	2	Automatic back door close switch	Pressed	Existed
			Released	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door close switch. Refer to [DLK-371, "Removal and Installation"](#).

AUTOMATIC BACK DOOR MAIN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR MAIN SWITCH

Description

INFOID:000000009719069

When the main switch is turned to OFF, the automatic power back door operation is not available by back door opener switch and automatic back door close switch.

Component Function Check

INFOID:000000009719070

1.CHECK FUNCTION

Check automatic back door main switch ("MAIN SW") in Data Monitor mode.

Monitor item	Condition		Status
MAIN SW	Automatic back door main switch	ON	ON
		OFF	OFF

Is the inspection result normal?

- YES >> Automatic back door main switch is OK.
NO >> Refer to [DLK-141, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719071

1.CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

1. Turn ignition switch OFF.
2. Disconnect automatic back door main switch connector.
3. Check voltage between automatic back door control unit harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
M110	1	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK AUTOMATIC BACK DOOR MAIN SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door main switch harness connector.

Automatic back door control unit		Automatic back door main switch		Continuity
Connector	Terminal	Connector	Terminal	
B8	17	M110	1	Existed

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

Automatic back door control unit connector	Terminal	Ground	Continuity
B8	17		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).
NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR MAIN SWITCH GROUND CIRCUIT

Check continuity between automatic back door main switch connector and ground.

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DLK

AUTOMATIC BACK DOOR MAIN SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Automatic back door main switch		Ground	Continuity
Connector	Terminal		Existed
M110	3		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Refer to [DLK-142. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door main switch. Refer to [DLK-370. "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009719072

1.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Terminal		Condition	Continuity	
Automatic back door main switch			Existed	
1	3	Automatic back door main switch	ON	Existed
			OFF	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door main switch. Refer to [DLK-370. "Removal and Installation"](#).

AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SWITCH

Description

INFOID:000000009719073

Automatic back door system can be operated from driver seat area by automatic back door switch.

Component Function Check

INFOID:000000009719074

1.CHECK FUNCTION

Check automatic back door switch ("AUTO BD SW") in Data Monitor mode.

Monitor item	Condition		Status
AUTO BD SW	Automatic back door switch	Pressed	ON
		Released	OFF

Is the inspection result normal?

- YES >> Automatic back door switch is OK.
- NO >> Refer to [DLK-143, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719075

1.CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

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

(+) Automatic back door switch		(-)	Voltage (V) (Approx.)
Connector	Terminal		
M111	1	Ground	Battery voltage

Is the inspection result normal?

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

2.CHECK AUTOMATIC BACK DOOR SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door switch harness connector.

Automatic back door control unit		Automatic back door switch		Continuity
Connector	Terminal	Connector	Terminal	
B8	2	M111	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	2		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).
- NO >> Repair or replace harness.

3.CHECK AUTOMATIC BACK DOOR SWITCH GROUND CIRCUIT

Check continuity between automatic back door switch harness connector and ground.

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AUTOMATIC BACK DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Automatic back door switch		Ground	Continuity
Connector	Terminal		Existed
M111	2		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK AUTOMATIC BACK DOOR SWITCH

Refer to [DLK-144, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace automatic back door switch. Refer to [DLK-372, "Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009719076

1.CHECK AUTOMATIC BACK DOOR SWITCH

Check automatic back door switch.

Terminal		Condition	Continuity
Automatic back door switch			Existed
1	2	Automatic back door switch	Pressed
			Released
			Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace automatic back door switch. Refer to [DLK-372, "Removal and Installation"](#).

OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OPEN SWITCH

Description

INFOID:000000009719077

The open switch is integrated in the door lock assembly, and it detects the open condition of the back door lock.

Component Function Check

INFOID:000000009719078

1.CHECK FUNCTION

Check open switch ("OPEN SW") in Data Monitor mode.

Monitor item	Condition		Status
OPEN SW	Back door lock	Fully closed/Half latch	OFF
		Open	ON

Is the inspection result normal?

YES >> Open switch is OK.

NO >> Refer to [DLK-145, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719079

1.CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

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

(+)		(-)	Voltage (V) (Approx.)
Back door lock assembly			
Connector	Terminal	Ground	Battery voltage
D179	4		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK OPEN SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B8	20	D179	4	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	20		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK OPEN SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly connector and ground.

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OPEN SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Back door lock assembly		Ground	Continuity
Connector	Terminal		
D179	8		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK OPEN SWITCH

Refer to [DLK-146. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to [DLK-351. "DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009719080

COMPONENT INSPECTION

1.CHECK OPEN SWITCH

Check back door lock assembly (open switch).

Terminal		Condition	Continuity	
Back door lock assembly (open switch)				
4	8	Back door lock	Open	Existed
			Fully closed/Half latch	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to [DLK-351. "DOOR LOCK : Removal and Installation"](#).

CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

CLOSE SWITCH

Description

INFOID:000000009719081

The close switch is integrated in the door lock assembly, and it detects the close condition of the back door lock.

Component Function Check

INFOID:000000009719082

1.CHECK FUNCTION

Check close switch ("CLOSE SW") in Data Monitor mode.

Monitor item	Condition		Status
CLOSE SW	Back door lock	Open/Half latch	OFF
		Fully closed	ON

Is the inspection result normal?

YES >> Close switch is OK.

NO >> Refer to [DLK-147, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719083

1.CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT SIGNAL

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

(+)		(-)	Voltage (V) (Approx.)
Back door lock assembly			
Connector	Terminal	Ground	Battery voltage
D179	5		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK CLOSE SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and back door lock assembly harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B8	19	D179	5	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	19		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK CLOSE SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

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CLOSE SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Back door lock assembly		Ground	Continuity
Connector	Terminal		Existed
D179	8		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK CLOSE SWITCH

Refer to [DLK-148. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to [DLK-351. "DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44. "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009719084

COMPONENT INSPECTION

1.CHECK CLOSE SWITCH

Check back door lock assembly (close switch).

Terminal		Condition	Continuity	
Back door lock assembly (close switch)			Existed	
5	8	Back door lock position	Fully closed	Existed
			Open/Half latch	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to [DLK-351. "DOOR LOCK : Removal and Installation"](#).

HALF LATCH SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

HALF LATCH SWITCH

Description

INFOID:000000009719085

The half latch switch is integrated in the back door lock assembly and it detects the half latch condition of the back door lock.

Component Function Check

INFOID:000000009719086

1.CHECK FUNCTION

Check half latch switch ("HALF LATCH SW") in Data Monitor mode.

Monitor item	Condition		Status
HALF LATCH SW	Back door lock	Fully closed/Half latch	OFF
		Open	ON

Is the inspection result normal?

YES >> Half latch switch is OK.

NO >> Refer to [DLK-149, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719087

1.CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

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

(-)		(-)	Voltage (V) (Approx.)
Half latch switch			
Connector	Terminal	Ground	Battery voltage
D179	6		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK HALF LATCH SWITCH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector.

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B8	8	D179	6	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	8		Not existed

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK HALF LATCH SWITCH GROUND CIRCUIT

Check continuity between back door lock assembly harness connector and ground.

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HALF LATCH SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Back door lock assembly		Ground	Continuity
Connector	Terminal		Existed
D179	8		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK HALF LATCH SWITCH

Refer to [DLK-150, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace back door lock assembly. Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

Component Inspection

INFOID:000000009719088

COMPONENT INSPECTION

1.CHECK HALF LATCH SWITCH

Check back door lock assembly (half latch switch).

Terminal		Back door lock position	Continuity
Back door lock assembly (half latch switch) connector			Existed
6	8	Open	Existed
		Fully closed/Half latch	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace back door lock assembly. Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#).

TOUCH SENSOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

TOUCH SENSOR

RH

RH : Description

INFOID:000000009719089

The touch sensor RH is installed on the right edge of the back door, and it detects any trapped foreign material in the back door during the auto close operation and at the closure operation.

RH : Component Function Check

INFOID:000000009719090

1.CHECK FUNCTION

Check touch sensor RH ("TOUCH SEN RH") in Data Monitor mode.

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

Is the inspection result normal?

YES >> Touch sensor RH is OK.

NO >> Refer to [DLK-151, "RH : Diagnosis Procedure"](#).

RH : Diagnosis Procedure

INFOID:000000009719091

1.CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

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

(+)		(-)	Voltage (V) (Approx.)
Touch sensor RH			
Connector	Terminal	Ground	6
D164	1		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK TOUCH SENSOR RH CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and touch sensor RH harness connector.

Automatic back door control unit		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B8	16	D164	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		Not existed
B8	16		

Is the inspection result normal?

YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK TOUCH SENSOR RH GROUND CIRCUIT

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TOUCH SENSOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Check continuity between automatic back door control unit harness connector and touch sensor RH harness connector.

Automatic back door control unit		Touch sensor RH		Continuity
Connector	Terminal	Connector	Terminal	
B8	15	D164	2	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK TOUCH SENSOR RH

Refer to [DLK-152, "RH : Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace touch sensor RH. Refer to [DLK-354, "TOUCH SENSOR : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

RH : Component Inspection

INFOID:000000009719092

1.CHECK TOUCH SENSOR RH

Check touch sensor RH.

Terminal		Condition	Resistance (Approx.)	
Touch sensor RH				
1	2	Touch sensor RH	Detect obstruction	120 Ω or less
			Other than above	1 kΩ ± 10%

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace touch sensor RH. Refer to [DLK-354, "TOUCH SENSOR : Removal and Installation"](#).

LH

LH : Description

INFOID:000000009719093

The touch sensor LH is installed on the light edge of the back door, and it detects any trapped foreign material in the back door during the auto close operation and at the closure operation.

LH : Component Function Check

INFOID:000000009719094

1.CHECK FUNCTION

Check touch sensor LH ("TOUCH SEN LH") in Data Monitor mode.

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

Is the inspection result normal?

YES >> Touch sensor LH is OK.

NO >> Refer to [DLK-153, "LH : Diagnosis Procedure"](#).

TOUCH SENSOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

LH : Diagnosis Procedure

INFOID:000000009719095

1. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

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

(+)		(-)	Voltage (V) (Approx.)
Touch sensor LH			
Connector	Terminal		
D165	1	Ground	6

Is the inspection result normal?

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

2. CHECK TOUCH SENSOR LH CIRCUIT

1. Disconnect automatic back door control unit.
2. Check continuity between automatic back door control unit harness connector and touch sensor LH harness connector.

Automatic back door control unit		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B8	14	D165	1	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	14		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK TOUCH SENSOR LH GROUND CIRCUIT

Check continuity between automatic back door control unit harness connector and touch sensor LH harness connector.

Automatic back door control unit		Touch sensor LH		Continuity
Connector	Terminal	Connector	Terminal	
B8	15	D165	2	Existed

Is the inspection result normal?

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

4. CHECK TOUCH SENSOR LH

Refer to [DLK-154, "LH : Component Inspection"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Replace touch sensor LH. Refer to [DLK-354, "TOUCH SENSOR : Removal and Installation"](#).

5. CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

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TOUCH SENSOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

LH : Component Inspection

INFOID:000000009719096

1.CHECK TOUCH SENSOR LH

Check touch sensor LH.

Terminal		Condition	Resistance (Approx.)	
Touch sensor LH				
1	2	Touch sensor LH	Detect obstruction	120 Ω or less
			Other than above	1 kΩ ± 10%

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace touch sensor LH. Refer to [DLK-354. "TOUCH SENSOR : Removal and Installation"](#).

ENCODER

Description

INFOID:000000009719097

The automatic back door control unit receives the pulse signals from encoders A and B that occurred due to synchronization with the back door operation. The automatic back door control unit calculates the back door position, operation direction, and operation speed according to the received pulse signals.

Component Function Check

INFOID:000000009719098

1. CHECK FUNCTION

Check encoder ("ENCODER A", "ENCODER B") in Data Monitor mode.

Monitor item	Condition		Status
ENCODER A	Back door	Moving	Change HI or LO
		Stop	No change HI or LO
ENCODER B	Back door	Moving	Change HI or LO
		Stop	No change HI or LO

Is the inspection result normal?

- YES >> Encoder is OK.
 NO >> Refer to [DLK-155, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000009719099

1. CHECK ENCODER POWER SUPPLY

- Turn ignition switch OFF.
- Disconnect automatic back door unit connector.
- Check voltage between automatic back door unit harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Automatic back door unit connector			
Connector	Terminal		
B76	2	Ground	Battery voltage

Is the inspection result normal?

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

2. CHECK ENCODER POWER SUPPLY CIRCUIT

- Disconnect automatic back door control unit connector.
- Check continuity between automatic back door control unit harness connector and automatic back door unit harness connector.

Automatic back door control unit		Automatic back door unit		Continuity
Connector	Terminal	Connector	Terminal	
B8	26	B76	2	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	26		Not existed

Is the inspection result normal?

- YES >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).
 NO >> Repair or replace harness.

ENCODER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3. CHECK ENCODER GROUND CIRCUIT

1. Disconnect automatic back door unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door unit harness connector.

Automatic back door control unit		Automatic back door unit		Continuity
Connector	Terminal	Connector	Terminal	
B8	23	B76	6	Existed

Is the inspection result normal?

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

4. CHECK ENCODER SIGNAL CIRCUIT

1. Check continuity between automatic back door control unit harness connector and automatic back door unit harness connector.

Automatic back door control unit		Automatic back door unit		Continuity
Connector	Terminal	Connector	Terminal	
B8	24	B76	5	Existed
	25		1	

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	24		Not existed
	25		

Is the inspection result normal?

- YES >> Replace automatic back door unit. Refer to [DLK-352, "POWER BACK DOOR DRIVE ASSEMBLY : Removal and Installation"](#).
NO >> Repair or replace harness.

CLUTCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

CLUTCH

Description

INFOID:000000009719100

The clutch operates by the power supplied from the automatic back door control unit. It performs the duty control of the power supply to control the operation speed of the back door.

Diagnosis Procedure

INFOID:000000009719101

1. CHECK CLUTCH OUTPUT SIGNAL CIRCUIT

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

Automatic back door control unit		Automatic back door unit		Continuity
Connector	Terminal	Connector	Terminal	
B7	32	B76	9	Existed
	33		3	

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

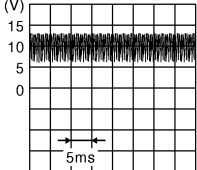
Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B7	32		Not existed
	33		

Is the inspection result normal?

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

2. CHECK CLUTCH

1. Connect automatic back door control unit connector and automatic back door unit connector.
2. Check voltage between automatic back door control unit harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)
Automatic back door control unit	Terminal			
B7	32	Ground	—	0
	33		Automatic back door Active	 <p style="text-align: right; font-size: small;">JMKIA1866ZZ</p>
			Other than above	0

Is the inspection result normal?

- YES >> Clutch is OK.
 NO >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).

AUTOMATIC BACK DOOR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR MOTOR

Description

INFOID:000000009719102

The automatic back door motor is integrated in the automatic back door unit. The automatic back door motor opens/closes the back door.

Diagnosis Procedure

INFOID:000000009719103

1. CHECK AUTOMATIC BACK DOOR MOTOR CIRCUIT

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

Automatic back door control unit		Automatic back door unit		Continuity
Connector	Terminal	Connector	Terminal	
B7	27	B76	7	Existed
	29		8	

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B7	27		Not existed
	29		

Is the inspection result normal?

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

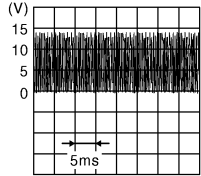
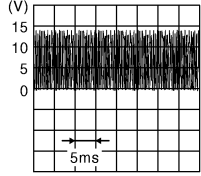
2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT OUTPUT

1. Connect automatic back door control unit connector and automatic back door motor connector.
2. Check voltage between automatic back door unit and ground.

AUTOMATIC BACK DOOR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Terminals		(-)		Condition	Voltage (V) (Approx.)
(+)					
Automatic back door control unit connector	Terminal				
B76	7	Ground	Automatic back door	Active (open)	Battery voltage
				Active (close)	
				Other than above	0
	8	Ground	Automatic back door	Active (close)	Battery voltage
				Active (open)	
				Other than above	0

Is the inspection result normal?

- YES >> Replace automatic back door unit. Refer to [DLK-352. "POWER BACK DOOR DRIVE ASSEMBLY : Removal and Installation"](#).
- NO >> Replace automatic back door control unit. Refer to [DLK-368. "Removal and Installation"](#).

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BACK DOOR CLOSURE MOTOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

BACK DOOR CLOSURE MOTOR

Description

INFOID:000000009719104

The back door lock assembly consists of the open switch, close switch, half latch switch and closure motor. The automatic back door control unit determines the back door lock condition according to the signal from each switch and performs the open/close operation of closure motor.

Diagnosis Procedure

INFOID:000000009719105

1. CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

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

Automatic back door control unit		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
B8	11	D179	1	Not existed
			2	Existed
	12		1	Existed
			2	Not existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	11		Not existed
	12		

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2. CHECK BACK DOOR CLOSURE MOTOR CIRCUIT

1. Connect automatic back door control unit connector and back door lock assembly connector.
2. Check voltage between automatic back door unit harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)	
Automatic back door control unit					
Connector	Terminal				
B8	11	Ground	Back door closure	Close operation	Battery voltage
				Other than above	0
	12			Open operation	Battery voltage
				Other than above	0

Is the inspection result normal?

YES >> Replace back door lock assembly. Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#).

NO >> Replace automatic back door control unit. Refer to [DLK-368, "Removal and Installation"](#).

AUTOMATIC BACK DOOR WARNING BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR WARNING BUZZER

Description

INFOID:000000009719106

Performs operation method guide and warning with buzzer.

Diagnosis Procedure

INFOID:000000009719107

1. CHECK AUTOMATIC BACK DOOR WARNING BUZZER POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic back door warning buzzer connector.
3. Check voltage between automatic back door warning buzzer harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
B27	1	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2. CHECK AUTOMATIC BACK DOOR WARNING BUZZER OUTPUT SIGNAL CIRCUIT

1. Disconnect automatic back door control unit connector.
2. Check continuity between automatic back door control unit harness connector and automatic back door warning buzzer harness connector.

Automatic back door control unit		Automatic back door warning buzzer		Continuity
Connector	Terminal	Connector	Terminal	
B8	1	B27	2	Existed

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	1		Not existed

Is the inspection result normal?

YES >> Replace automatic back door warning buzzer. Refer to [DLK-369, "Removal and Installation"](#).

NO >> Repair or replace harness.

GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

GROUND CIRCUIT

AUTOMATIC BACK DOOR CONTROL UNIT

AUTOMATIC BACK DOOR CONTROL UNIT : Component Function Check

INFOID:000000009719108

1.CHECK FUNCTION

Check automatic back door switch ("DESTINATION", "HAZARD") in Data Monitor mode.

Monitor item	Condition	Status
DESTINATION	—	NAM
HAZARD	—	ON

Is the inspection result normal?

YES >> Automatic back door ground circuit is OK.

NO >> Refer to [DLK-162. "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure"](#).

AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure

INFOID:000000009719109

1.CHECK GROUND CIRCUIT

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

Automatic back door control unit		Ground	Continuity
Connector	Terminal		
B8	21		Existed
	22		

Does continuity exist?

YES >> Replace automatic back door control unit. Refer to [DLK-368. "Removal and Installation"](#).

NO >> Repair or replace harness.

INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER

Description

INFOID:000000009719110

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:000000009719111

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-163. "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-70. "Removal and Installation"](#) (with ADP) or [MIR-93. "Removal and Installation"](#) (Without ADP).

Diagnosis Procedure

INFOID:000000009719112

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.

Auto anti-dazzling inside mirror (Homelink universal transceiver)		Condition	Voltage (V) (Approx.)
Connector	Terminal		
R9	10	Ground	Battery voltage
	6		
		Ignition switch position: OFF	
		Ignition switch position: ON	

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Check the following.
 - 10A fuse [No. 3 located in the fuse block (J/B)]
 - 10A fuse [No. 6 located in the fuse block (J/B)]
 - Harness for open or short between fuse and auto anti-dazzling inside mirror (homelink universal transceiver).

2.CHECK GROUND CIRCUIT

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INTEGRATED HOMELINK TRANSMITTER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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		Existed
R9	8		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness.

3.CHECK INTERMITTENT INCIDENT

Refer to [GI-44, "Intermittent Incident"](#).

>> INSPECTION END

POWER DOOR LOCK SYSTEM

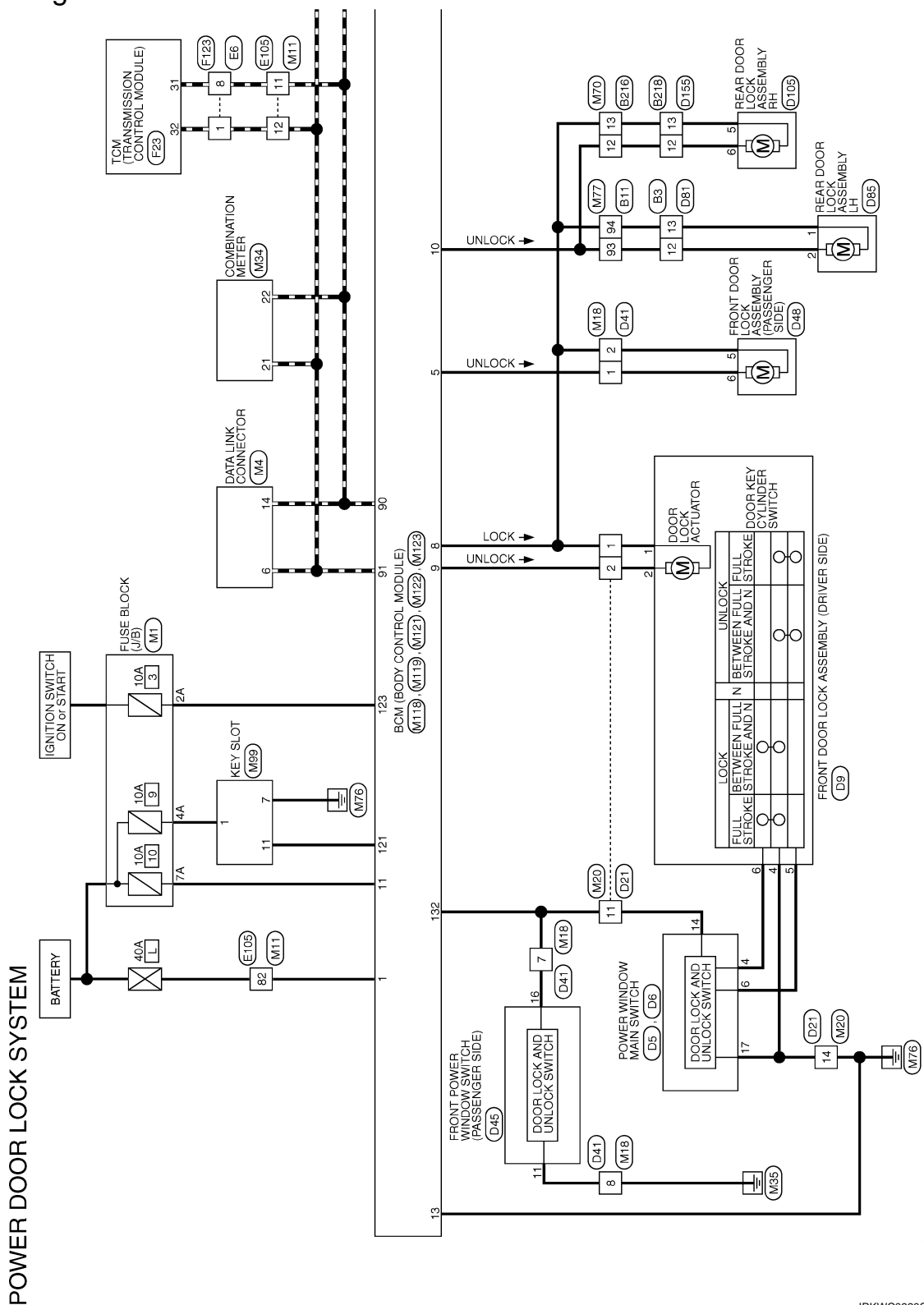
< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

Wiring Diagram - POWER DOOR LOCK SYSTEM -

INFOID:000000009719113



2011/07/28

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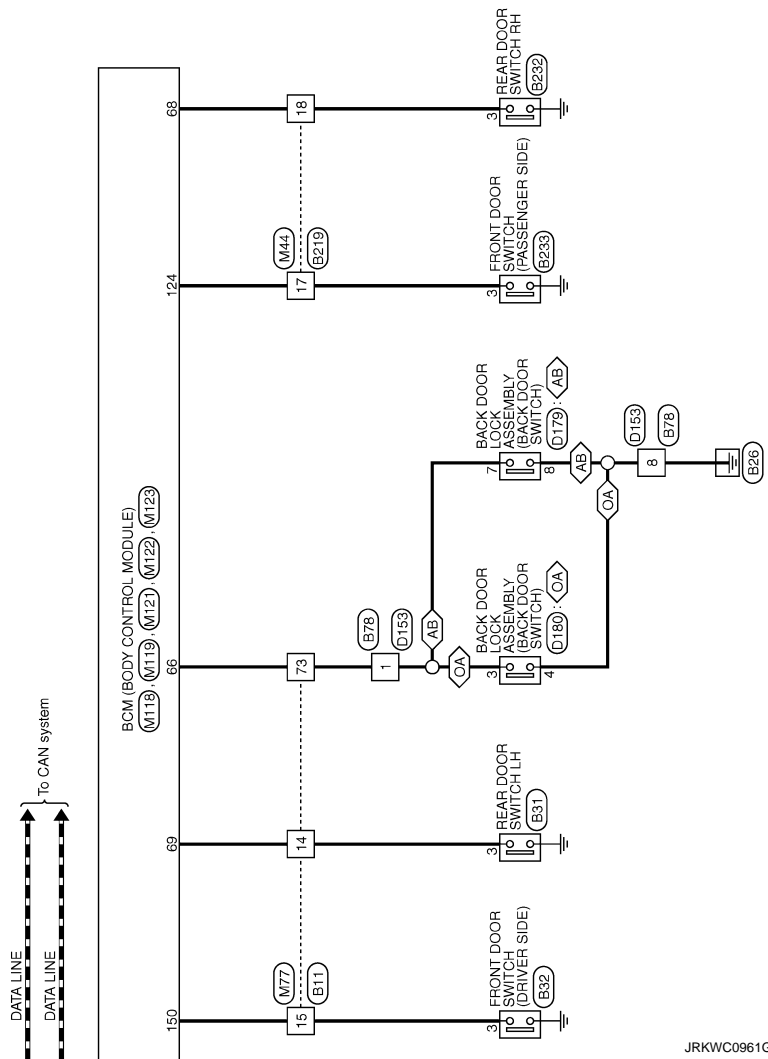
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POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AB : With automatic back door
OA : Without automatic back door



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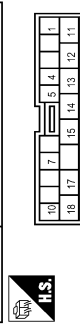
POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

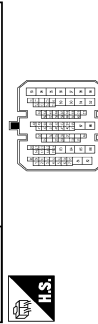
POWER DOOR LOCK SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH0PW-NSS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	LG	-
3	LG	-
4	LG	-
5	LG	-
7	LG	-
10	SB	-
11	SB	-
12	G	-
13	V	-
14	GR	-
15	BR	-
17	R	-
18	Y	-

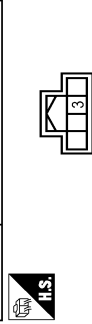
Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH0BMV-CS19



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	R	-
3	R	-
4	R/W	-
6	P	-
7	V	-
8	SHIELD	-

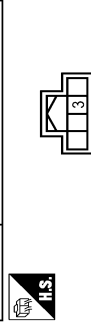
Terminal No.	Color Of Wire	Signal Name [Specification]
59	SHIELD	-
60	Y	-
61	R/L	-
62	R/W	-
63	LG	-
64	Y	-
65	BR	-
66	R	-
67	L	-
68	V	-
69	G	-
70	GR	-
71	GR	-
72	GR	-
73	GR	-
74	GR	-
75	L	-
76	G	-
77	R	-
78	B	-
79	B	-
80	W	-
81	R	-
82	L	-
83	BR	-
84	G	-
85	G	-
86	SB	-
87	R	-
88	G	-
89	GR	-
90	Y	-
91	G	-
92	BR	-
93	G	-
94	V	-
95	BR	-
96	GR	-
97	R	-
98	R	-
99	G	-

Connector No.	B31
Connector Name	REAR DOOR SWITCH-LH
Connector Type	TH0HEW-NH



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

Connector No.	B32
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH0HEW-NH



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

Connector No.	B78
Connector Name	WIRE TO WIRE
Connector Type	NS18BMV-CS



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POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	—
2	Y	—
3	SB	—
5	R	—
6	V	—
8	B	—
9	L	—
10	R	—
11	P	—
12	W	—
13	GR	—
14	G	—
15	V	—
16	BR	—

Connector No.	B216
Connector Name	WIRE TO WIRE
Connector Type	NS16MR-CS



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

Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NSB



10	7	5	4	1
18	17	15	14	13
12				

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	—
4	O	—
5	B/P	— [With BOSE system] — [Without BOSE system]
7	O	—
10	B	—
11	Y	—
12	G	—
13	V	—
14	P	—
15	SB	—
17	R	—
18	GR	—

Connector No.	B219
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18														

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W/R	—
2	B/R	—
3	SHIELD	—
4	W/R	—
5	B/R	—
6	SHIELD	—

Terminal No.	Color Of Wire	Signal Name [Specification]
7	GR/V	—
8	SHIELD	—
10	GR/V	—
11	W/L	—
12	SHIELD	—
13	SB	—
15	SB	—
16	Y	—
17	R	—
18	W	—
29	G	—
30	P	—
31	V	—
32	BR	—

Connector No.	B222
Connector Name	REAR DOOR SWITCH RH
Connector Type	TH6FW-NH



3

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

Connector No.	B233
Connector Name	FRONT DOOR SWITCH PASSENGER (RD)
Connector Type	TH6FW-NH



3

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

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	—
2	W	—
3	BR	—
4	L	—
5	SB	—
6	R	—
7	P	—
8	L	—
9	O	—
10	V	—
11	LG	—
13	Y	—
14	O	—
15	R	—

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



7	6	5	4	3	2	1
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POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

POWER DOOR LOCK SYSTEM

Terminal No.	Color Of Wire	Signal Name [Specification]
17	B	-
18	B	-
19	LG	-

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	EBDFGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	P	-
4	B	-
5	R	-
6	L	-

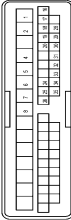
Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	B	-
4	B	-
5	W	-
6	SB	-
7	P	-
8	BR	-

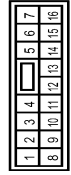
8	GR	-
9	V	-
10	O	-
11	B	-
12	LG	-
13	G	-
14	GR	-
15	Y	-
16	GR	-
17	BR	-
18	LG	-
19	P	-
20	V	-
21	W	-
22	R	-
23	B	-
24	SB	-
25	BR	-
26	R	-
27	G	-
28	Y	-
29	L	-
30	G	-
31	P	-
32	R	-
33	LG	-
34	Y	-
35	L	-
36	P	-
37	G	-
38	Y	-
39	GR	-
40	L	-
41	W	-
42	SB	-
43	R	-
44	V	-
45	O	-
46	R	-
47	V	-
48	O	-
49	P	- [Without automatic drive positioner]
50	L	- [With automatic drive positioner]
51	P	- [Without automatic drive positioner]
52	L	- [With automatic drive positioner]
53	P	- [Without automatic drive positioner]
54	LG	- [With automatic drive positioner]
55	SB	- [Without automatic drive positioner]
56	LG	- [With automatic drive positioner]
57	O	- [Without automatic drive positioner]

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	R	-
4	W	-
5	W	-
6	P	-
7	O	-
8	B	-
9	G	-
10	G	-
11	Y	-
12	Y	-
13	GR	-
14	BR	-
15	BR	-
16	LG	-
17	Y	-
18	GR	-
19	BR	-
20	LG	-
21	W	-
22	W	-
23	V	-
24	LG	-
25	O	-
26	G	-
27	V	-
28	V	-
29	V	-
30	SB	-
31	R	-
32	R	-
33	G	-
34	Y	-
35	L	-

Connector No.	D45
Connector Name	FRONT POWER MIRROR SWITCH (PASSENGER SIDE)
Connector Type	NISDFW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	L	-
4	LG	-
5	P	-
6	B	-
7	Y	-
8	G	-
9	G	-
10	O	-
11	B	-
12	Y	-
13	G	-
14	G	-
15	O	-
16	O	-

Connector No.	D48
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	EBDFGY-RS



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

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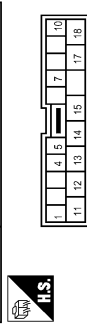
POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

POWER DOOR LOCK SYSTEM

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	--
4	Y	--
5	W	--
6	LG	--
7	B	--
10	Y	--
11	G	--
12	V	--
13	P	--
14	SB	--
15	R	--
17	GR	--
18	GR	--

Connector No.	D85
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	EBFEGY-RS



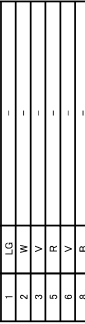
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	--
2	G	--

Connector No.	D105
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	EBFEGY-RS



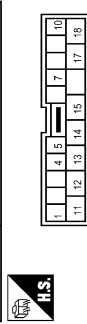
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	--
5	G	--

Connector No.	D153
Connector Name	WIRE TO WIRE
Connector Type	NS1BFW-CS



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

Connector No.	D155
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSR



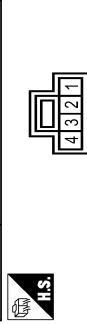
Terminal No.	Color Of Wire	Signal Name [Specification]
4	Y	--
5	W	--
7	LG	--
10	B	--
11	Y	--
12	G	--
13	V	--
14	P	--
15	SB	--
17	R	--
18	GR	--

Connector No.	D179
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS1BFW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	Y	--
4	G	--
5	L	--
6	W	--
7	LG	--
8	B	--

Connector No.	D180
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS1MEW-CS



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

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK10MGY-TV



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	--
3	Y	--
4	R	--
5	GR	--
6	V	--
8	P	--
10	W	--
11	G	--
12	BR	--
13	SB	--
14	B	--

POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

POWER DOOR LOCK SYSTEM

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	1H70MM-CST0-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
7	L	-
8	GR	-
9	G	-
11	P	-
12	L	-
13	Y	-
14	O	-
15	BR	-
20	Y	-
21	BR	-
22	P	-
24	L	-
25	O	-
28	SB	-
29	W	-
30	Y	-
38	R	-
39	L	-
40	B	-
47	P	-
48	L	-
49	SB	-
50	GR	-
51	LG	-
52	V	-
53	GR	-
54	BR	-
55	R	-
56	W	-
60	V	-
61	BR	-
62	O	-
63	L/O	-
64	SHIELD	-
65	W	-

POWER DOOR LOCK SYSTEM

Connector No.	F23
Connector Name	WIRE TO WIRE
Connector Type	1K18FY-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
25	W/R	SENSOR GROUND
26	R/O	STEP MOTOR
27	R/O	STEP MOTOR
28	R	STEP MOTOR C
29	O/B	STEP MOTOR B
30	G/R	STEP MOTOR A
31	P	CAN-L
32	L	CAN-H
33	LG	PRIMARY SPEED SENSOR
34	LG/R	SECONDARY SPEED SENSOR
37	V/R	LOOK-UP SELECT SOLENOID VALVE
38	L/W	TORQUE CONVERTER CLUTCH SOLENOID VALVE
39	W/B	SECONDARY PRESSURE SOLENOID VALVE
40	P/Y	LINE PRESSURE SOLENOID VALVE
42	B	GROUND
43	Y	GROUND
44	L/R	POWER SUPPLY (MEMORY BACK-UP)
48	Y	POWER SUPPLY

POWER DOOR LOCK SYSTEM

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
3	G/R	-
4	G/B	-
5	R	-
6	L/R	-
8	P	-
10	V/B	-
11	BR/W	-
12	BR	-
13	W	-
14	B	-

POWER DOOR LOCK SYSTEM

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD18FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1A	Y	-
2A	O	-
3A	Y	-
4A	GR	-
7A	LG	-
8A	Y	-

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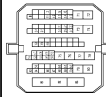
POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS10-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	BR	-
3	OD	-
4	G	-
5	G	-
6	R	-
7	R	-
8	R	-
9	P	-
10	L	-
11	L	-
12	L	-
13	V	-
14	Y	-
15	R	-
20	W	-
21	Y	-
22	BR	-
23	LG	-
24	Y	-
25	L	-
28	BR	-
29	L	-
30	R	-
38	R	-
39	L	-
40	B	-
47	P	-
48	L	-
49	W	-
50	GR	-
51	LG	-
52	Y	-
53	V	-
54	SB	-
55	P	-
56	LG	-
60	V	-
61	GR	-
62	BR	-
63	V	-

POWER DOOR LOCK SYSTEM

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS10-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	LG	-
3	P	-
4	R	-
5	SB	-
6	W	-
7	GR	-
8	GR	-
9	G	-
10	V	-
11	V	-
12	Y	-
13	P	-
14	BR	-
15	BR	-
16	R	-
17	R	-
18	R	-
19	R	-
20	P	-
24	V	-
25	V	-
26	W	-

POWER DOOR LOCK SYSTEM

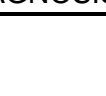
Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS10-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	LG	-
3	P	-
4	R	-
5	SB	-
6	W	-
7	GR	-
8	GR	-
9	G	-
10	V	-
11	V	-
12	Y	-
13	P	-
14	BR	-
15	BR	-
16	R	-
17	R	-
18	R	-
19	R	-
20	P	-
24	V	-
25	V	-
26	W	-

POWER DOOR LOCK SYSTEM

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS10-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	LG	-
3	P	-
4	R	-
5	SB	-
6	W	-
7	GR	-
8	GR	-
9	G	-
10	V	-
11	V	-
12	Y	-
13	P	-
14	BR	-
15	BR	-
16	R	-
17	R	-
18	R	-
19	R	-
20	P	-
24	V	-
25	V	-
26	W	-

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POWER DOOR LOCK SYSTEM

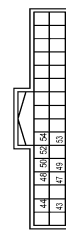
< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

13	V	ILLUMINATION CONTROL SWITCH SIGNAL C
14	GR	ILLUMINATION CONTROL SWITCH SIGNAL C
15	BR	ILLUMINATION CONTROL SWITCH SIGNAL C
16	BR	ILLUMINATION CONTROL SWITCH SIGNAL C
17	BR	ILLUMINATION CONTROL SWITCH SIGNAL C
18	L	AMBIENT SENSOR SIGNAL
19	P	AMBIENT SENSOR SIGNAL
20	Y	AMBIENT SENSOR SIGNAL
21	L	CAN-H
22	P	CAN-L
23	B	GROUND
24	W	FUEL LEVEL SENSOR GROUND
25	BR	ALL TERNATOR SIGNAL
26	G	PARKING BRAKE SWITCH SIGNAL
27	V	BRAKE FLUID LEVEL SWITCH SIGNAL
28	R	WASHER LEVEL SWITCH SIGNAL
29	P	VEHICLE SPEED SIGNAL (2-PULSED)
30	V	VEHICLE SPEED SIGNAL (2-PULSED)
31	Y	VEHICLE SPEED SIGNAL (2-PULSED)
32	LG	OVERDRIVE CONTROL SWITCH SIGNAL
33	G	FUEL LEVEL SENSOR SIGNAL
34	G	FUEL LEVEL SENSOR SIGNAL
35	SR	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SEAT)
36	R	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SEAT)

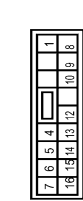
Connector No.	M44
Connector Name	WIRE TO WIRE
Connector Type	TH33PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	SHIELD	-
4	B	-
5	W	-
6	SHIELD	-
7	L	-
8	B	-
9	SHIELD	-
10	V	-
11	LG	-
12	SHIELD	-
13	P	-
15	LG	-


16	L	-
17	B	-
18	W	-
19	L	-
20	L	-
21	BR	-
22	Y	-
23	V	-

Connector No.	M70
Connector Name	WIRE TO WIRE
Connector Type	INS18FBR-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
4	P	-
5	GR	-
6	R	-
7	W	-
8	GR	-
9	GR	-
10	GR	-
11	P	-
12	V	-
13	V	-
14	L	-
15	BR	-
16	V	-

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH86PW-CS19



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	W	-
3	W	-
4	R	-
6	W	-
7	G	-
8	SHIELD	-
9	W	-
10	R	-
11	G	-
12	B	-
13	P	-
14	R	-
15	SHIELD	-
16	Y	-
17	Y	-
18	P	-
19	P	-
20	LG	-
21	Y	-
22	BR	-
23	LG	-
24	SHIELD	-
25	Y	-
27	Y	-
28	R	-
29	Y	-
30	Y	-
31	W	-
32	BR	-
33	B	-
34	B	-
36	G	-
37	Y	-
40	BR	-
41	LG	-
42	SHIELD	-

46	G	-
47	LG	-
48	SR	-
49	Y	-
47	GR	-
48	SHIELD	-
49	BR	-
50	R	-
50	LG	-
51	R	-
51	Y	-
52	B	-
53	BR	-
54	B	-
55	G	-
56	G	-
57	L	-
58	SR	-
59	R	-
59	SHIELD	-
60	B	-
60	Y	-
61	R	-
62	W	-
63	LG	-
64	Y	-
65	R	-
65	Y	-
66	Y	-
68	Y	-
67	G	-
70	W	-
68	G	-
69	SHIELD	-
70	L	-
71	P	-
72	LG	-
73	Y	-
74	R	-
75	P	-
76	L	-
76	BR	-
79	W	-
80	W	-
81	L	-
82	L	-
83	GR	- [Without automatic drive positioner]
83	W	- [With automatic drive positioner]

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POWER DOOR LOCK SYSTEM

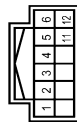
< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM

84	R	-	-
85	V	-	-
86	W	-	-
87	R	-	-
88	G	-	-
89	B	-	-
90	V	-	-
91	G	-	-
92	BR	-	-
93	P	-	-
94	V	-	-
95	W	-	-
96	SB	-	-
97	L	-	-
98	LG	-	-
99	Y	-	-

Connector No.	M69
Connector Name	KEY SLOT
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BAT
2	SB	CLOCK
3	O	DATA
5	GR	ILL.BAT
6	R	ILL
7	B	GROUND
11	Y	KEY SWITCH SIGNAL

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BAT (F/L)
2	GR	POWER WINDOW POWER SUPPLY (BAT)
3	L	POWER WINDOW POWER SUPPLY (IGN)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-4S



Terminal No.	Color Of Wire	Signal Name [Specification]
4	P/W	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
7	W	STEP LAMP CONT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	P	REAR DOOR UNLOCK OUTPUT
11	LG	BAT FUSE1
13	B	GROUND
14	O	PUSH-BUTTON IGNITION SW ILL GND
17	G	TURN SIGNAL RH
18	BR	TURN SIGNAL LH
19	Y	INT ROOM LAMP CONT

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FY-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
34	W	LUGGAGE ROOM ANT-
35	R	LUGGAGE ROOM ANT+
38	L	REAR BUMPER ANT-
39	BR	REAR BUMPER ANT+
47	L	IGN RELAY (IFDM/PI) CONT
52	R	STARTER RELAY CONT
60	BR	PUSH SW
61	R	BACK DOOR OPENER REQUEST SW
64	GR	I-KEY WARN BELLER
65	O	REAR WIPER STOP POSITION
66	Y	BACK DOOR SW
67	LG	BACK DOOR OPENER SW
68	W	REAR RH DOOR SW
69	R	REAR LH DOOR SW

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



Terminal No.	Color Of Wire	Signal Name [Specification]
72	B	ROOM ANT-
73	W	ROOM ANT+
74	Y	PASSENGER DOOR ANT-
75	LG	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	P	DRIVER DOOR ANT+

80	SB	METS ANT AMP
81	G	METS ANT AMP
82	BR	IGN RELAY (F/L) CONT
83	P	KEYLESS ENTRY RECEIVER COMM
87	R	COMBI SW INPUT 5
88	GR	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
92	R	KEY SLOT ILL CONT
93	P	ON IND
95	L	ACC RELAY CONT
96	Y	CVT SHIFT SELECTOR POWER SUPPLY
99	V	SHIFT P
100	P	PASSENGER DOOR REQUEST SW
101	W	DRIVER DOOR REQUEST SW
102	L	BLUETOOTH COY
103	L	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	O	COMBI SW INPUT 1
108	P	COMBI SW INPUT 4
109	SB	COMBI SW INPUT 2
110	G	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FC-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
112	R	RAIN SENSOR SERIAL LINK
113	P/B	OPTICAL SENSOR
116	GR	STOP LAMP SW 1
118	L	STOP LAMP SW 2
119	W	DR DOOR UNLOCK SENSOR
120	G	REAR LAMP SW
121	G	IGN F/L
124	R	PASSENGER DOOR SW
130	BR	REAR DEFROGGER SW
132	G	POWER WINDOW SW COMM
133	W	PUSH-BUTTON IGNITION SW ILL POWER
134	R	LOCK IND
137	P	RECEIVER/SENSOR GND

POWER DOOR LOCK SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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POWER DOOR LOCK SYSTEM	
138	V REVERSE/SENSOR POWER SUPPLY
139	G REVERSE/SENSOR POWER SUPPLY
140	GR OPEN COMB
141	GR
142	O SECURITY IND. LAMP CONT
143	W COMBI SW OUTPUT 5
144	P COMBI SW OUTPUT 1
145	V COMBI SW OUTPUT 2
146	Y COMBI SW OUTPUT 3
150	SB DRIVER DOOR SW
151	G REAR WINDOW DEFOGGER RELAY CONT

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INTELLIGENT KEY SYSTEM

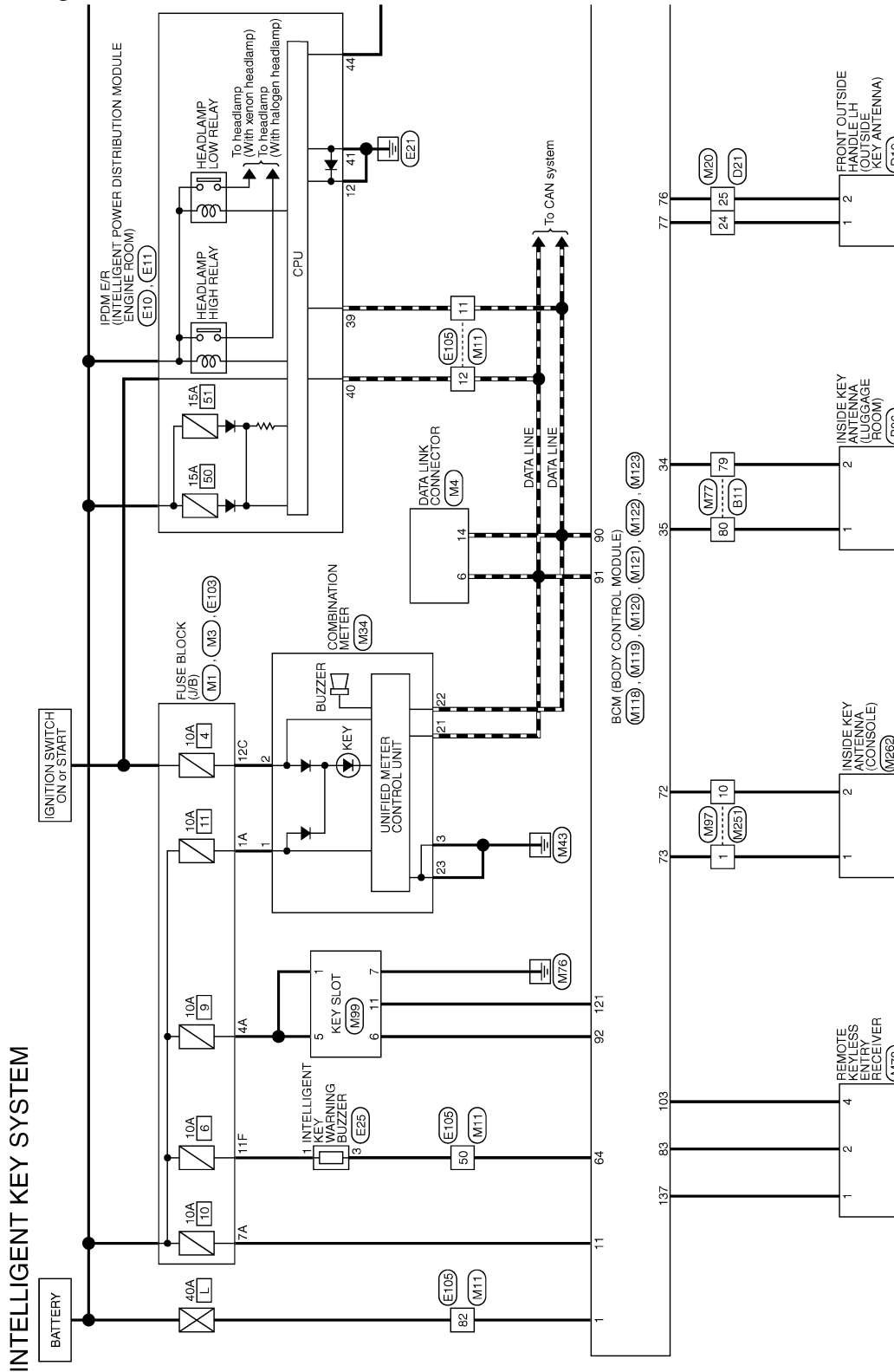
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[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

Wiring Diagram - INTELLIGENT KEY SYSTEM -

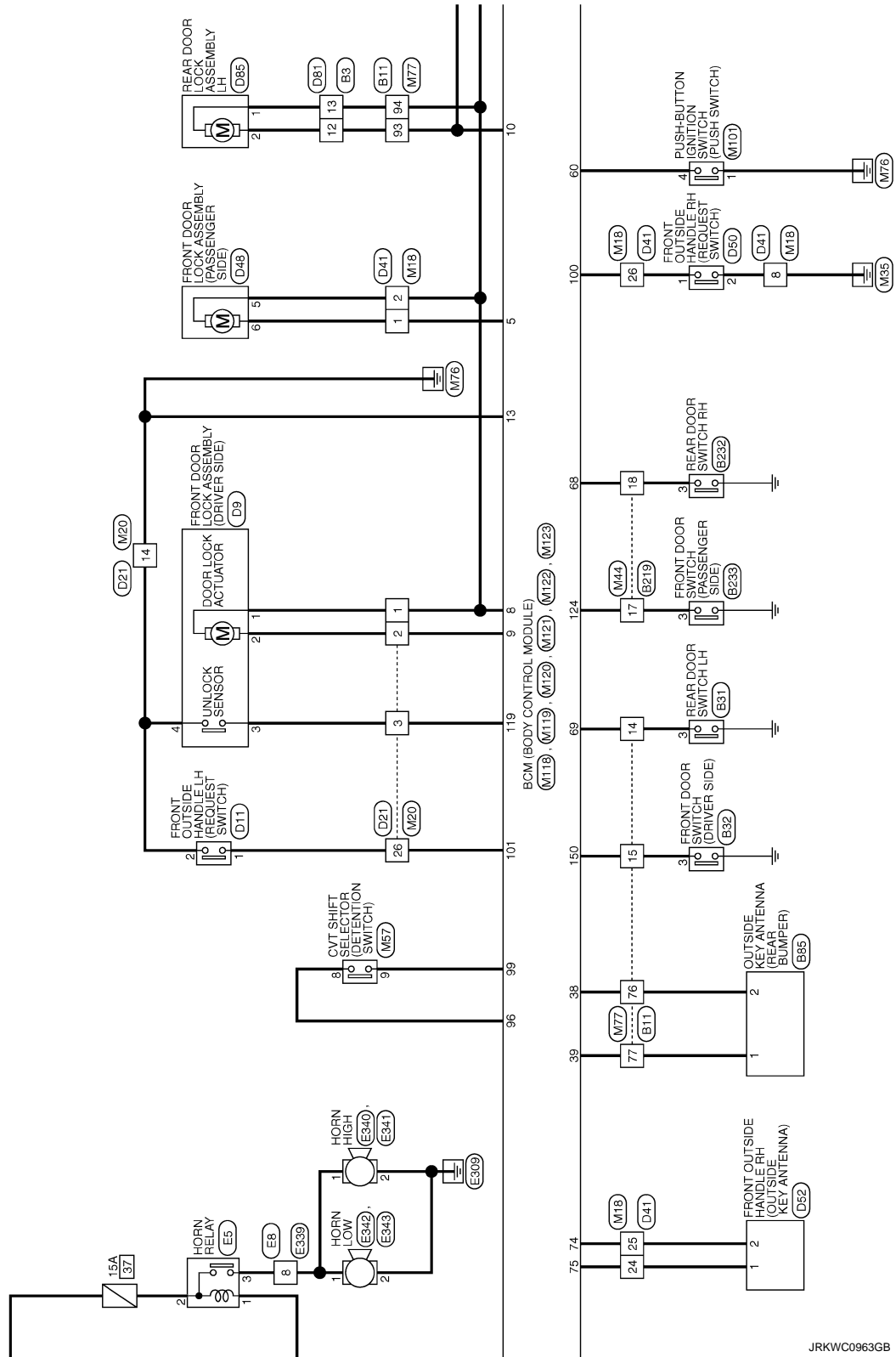
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INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]



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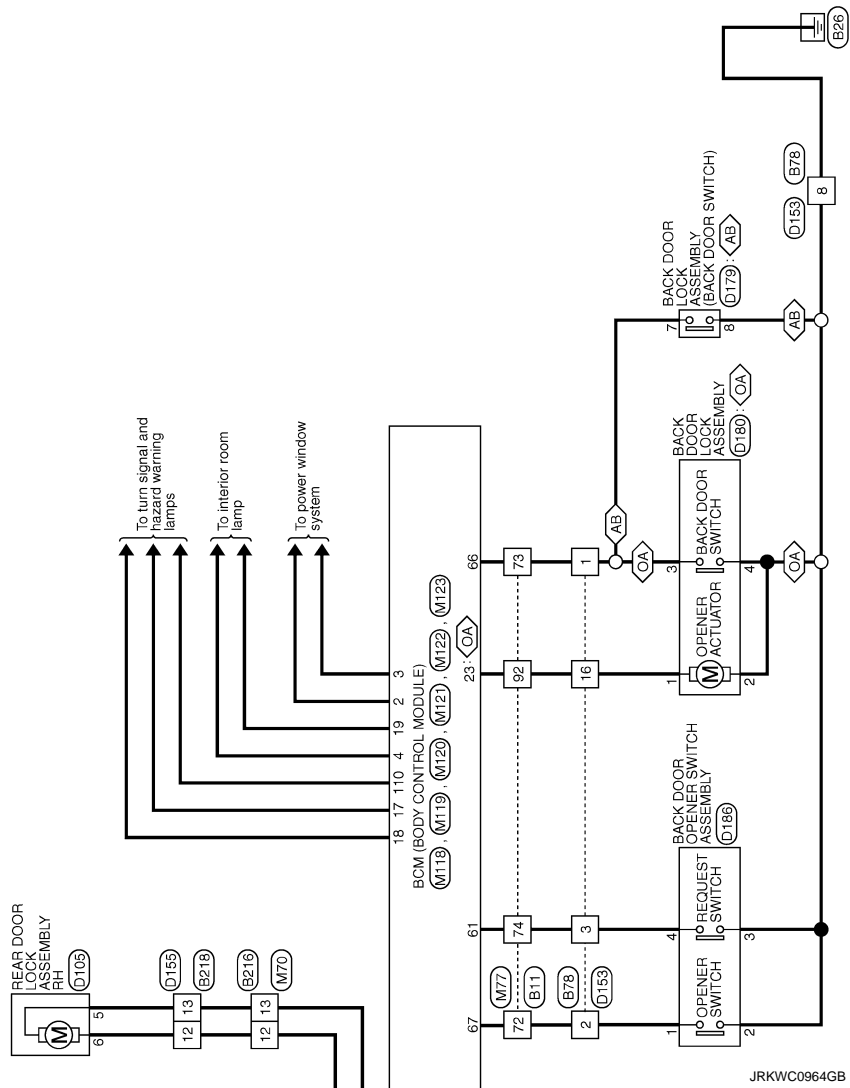
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INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AE : With automatic back door
OA : Without automatic back door



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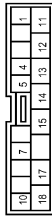
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[WITH INTELLIGENT KEY SYSTEM]

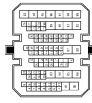
INTELLIGENT KEY SYSTEM

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-N38



Terminal No.	Color Of Wire	Signal Name (Specification)
1	L	-
2	LG	-
3	G	-
4	LG	-
5	LG	-
6	LG	-
7	LG	-
8	LG	-
9	LG	-
10	B	-
11	SB	-
12	G	-
13	V	-
14	GR	-
15	BR	-
16	R	-
17	R	-
18	Y	-

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH08MW-SS19



Terminal No.	Color Of Wire	Signal Name (Specification)
1	SHIELD	-
2	R/L	-
3	R/L	-
4	R/W	-
5	BR	-
6	P	-
7	V	-
8	SHIELD	-

Terminal No.	Color Of Wire	Signal Name (Specification)
59	SHIELD	-
60	Y	-
61	R/L	-
62	R/W	-
63	LG	-
64	Y	-
65	BR	-
66	R	-
67	L	-
68	V	-
69	R	-
70	G	-
71	GR	-
72	BR	-
73	GR	-
74	BR	-
75	L	-
76	G	-
77	R	-
78	B	-
79	B	-
80	W	-
81	R	-
82	L	-
83	BR	-
84	G	-
85	G	-
86	SB	-
87	R	-
88	G	-
89	GR	-
90	Y	-
91	G	-
92	BR	-
93	G	-
94	V	-
95	BR	-
96	GR	-
97	R	-
98	R	-
99	G	-

Connector No.	B31
Connector Name	REAR DOOR SWITCH LH
Connector Type	TH08FW-NH



Terminal No.	Color Of Wire	Signal Name (Specification)
3	BR	-

Connector No.	B32
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH08FW-NH



Terminal No.	Color Of Wire	Signal Name (Specification)
3	SB	-

Connector No.	B78
Connector Name	WIRE TO WIRE
Connector Type	NI18BMW-CS



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INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	—
2	Y	—
3	SB	—
5	R	—
6	V	—
8	B	—
9	L	—
10	R	—
11	P	—
12	W	—
13	GR	—
14	G	—
15	S	—
16	BR	—

Connector No.	B85
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FCY

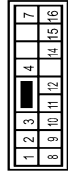


Connector No.	B88
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	RK02FCY

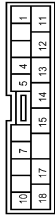


Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	—
2	B	—

Connector No.	B216
Connector Name	WIRE TO WIRE
Connector Type	NS18MBR-CS

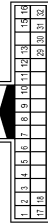


Connector No.	B218
Connector Name	WIRE TO WIRE
Connector Type	TK02PW-NSB



Terminal No.	Color Of Wire	Signal Name [Specification]
4	Y	— [With BOSE system]
4	O	— [Without BOSE system]
5	B/P	— [With BOSE system]
5	O	— [Without BOSE system]
7	O	—
10	B	—
11	Y	—
12	G	—
13	V	—
14	P	—
15	SB	—
17	R	—
18	GR	—

Connector No.	B219
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W/R	—
2	B/R	—
3	SHIELD	—
4	W/R	—
5	B/R	—
6	SHIELD	—

7	GR/V	—
8	W/L	—
9	SHIELD	—
10	GR/V	—
11	W/L	—
12	SHIELD	—
13	SB	—
15	SB	—
16	Y	—
17	R	—
18	W	—
19	G	—
20	P	—
21	V	—
32	BR	—

Connector No.	B232
Connector Name	REAR DOOR SWITCH RH
Connector Type	TH06FW-NH



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

Connector No.	B233
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH06FW-NH



INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

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INTELLIGENT KEY SYSTEM

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

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	EDFGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	P	-
4	B	-
5	R	-
6	L	-

Connector No.	D11
Connector Name	FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Type	FRHDEB



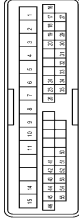
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	D12
Connector Name	FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA)
Connector Type	FRQZMGY



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

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-C2S15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	P	-
4	B	-
5	W	-
6	SB	-
7	P	-
8	BR	-
9	GR	-
10	V	-
11	G	-
12	V	-
13	LG	-
14	G	-
15	LG	-
16	G	-
17	Y	-
18	GR	-
19	BR	-
20	LG	-

24	D	-
25	V	-
26	W	-
27	R	-
28	V	-
29	SB	-
30	BR	-
31	R	-
32	G	-
33	Y	-
34	L	-
35	L	-
41	P	-
42	GR	-
43	L	-
44	W	-
45	SB	-
46	R	-
47	V	-
48	V	-
49	V	-
50	V	-
51	O	-
52	L	- [Without automatic drive positioner]
53	P	- [With automatic drive positioner]
54	L	- [Without automatic drive positioner]
55	P	- [With automatic drive positioner]
56	LG	- [Without automatic drive positioner]
57	SB	- [With automatic drive positioner]
58	LG	- [Without automatic drive positioner]
59	O	- [Without automatic drive positioner]

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-C2S15



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

16	G	-
17	V	-
18	GR	-
19	BR	-
20	LG	-
21	V	-
22	V	-
23	W	-
24	LG	-
25	W	-
26	O	-
27	G	-
28	G	-
29	V	-
30	SB	-
31	BR	-
32	R	-
33	G	-
34	Y	-
35	L	-

Connector No.	D48
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	EDFGY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
5	V	-
6	G	-

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INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

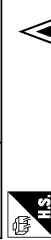
INTELLIGENT KEY SYSTEM

Connector No.	D59
Connector Name	FRONT OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Type	RH02EB



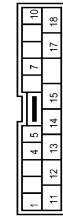
Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	-
2	B	-

Connector No.	D52
Connector Name	FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA)
Connector Type	RK02AGY



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

Connector No.	D81
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSB



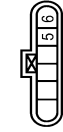
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
4	V	-
5	W	-
7	LG	-
10	B	-
11	Y	-
12	G	-
13	V	-
14	P	-
15	SB	-
17	R	-
18	GR	-

Connector No.	D85
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	EBF6Y-RS



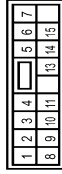
Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-

Connector No.	D105
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	EBF6Y-RS



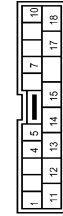
Terminal No.	Color Of Wire	Signal Name [Specification]
3	G	-
8	G	-

Connector No.	D153
Connector Name	WIRE TO WIRE
Connector Type	NS18FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	W	-
3	V	-
5	R	-
6	V	-
8	B	-
9	L	-
10	R	-
11	O	-
12	RY	-
14	GY	-
15	O	-
16	BR	-

Connector No.	D155
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NSB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
4	W	-
5	W	-
7	LG	-
10	B	-
11	Y	-
12	G	-
13	V	-
14	P	-
15	SB	-
17	R	-
18	GR	-

Connector No.	D179
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS18FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	V	-
4	G	-
5	L	-
6	W	-
7	LG	-
8	B	-

JRKWC8090GB

INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

Connector No.	D180
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NSDFW-CS



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

Connector No.	D186
Connector Name	BACK DOOR OPERIER SWITCH ASSEMBLY
Connector Type	THDMW-NH



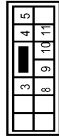
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-
3	B	-
4	V	-

Connector No.	E5
Connector Name	HORN RELAY
Connector Type	2438T-3690A



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

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	NS1ZMBR-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	GR	-
4	SB	-
5	O	-
8	G	-
9	W	-
10	Y	-
11	G	-

Connector No.	E10
Connector Name	INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	THDFW-CS12-M4-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	-
7	CS	-
10	GR	-
12	B	-
13	SB	-
15	W	-
16	R	-
19	Y	-
20	L	-
21	O	-
22	SB	-
23	GR	-
24	G	-
25	GR	-
27	W	-
28	SB	-
30	BR	-
34	O	-
35	P	-
36	G	-
38	GR	-

Connector No.	E11
Connector Name	INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	THDFW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	B	-
42	SB	-
43	Y	-
44	W	-
45	O	-
46	BR	-

Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	IKGPFER



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

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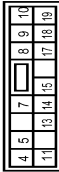
INTELLIGENT KEY SYSTEM

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[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS18EM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	
5	G	
7	Y	
8	L	
9	LG	
10	BR	
11	Y	
13	BR	
14	Y	
15	Y	
17	Y	
18	Y	
19	Y	

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH10MMP-CS1CP-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	
5	LG	
6	GR	
8	G	
12	P	
13	Y	
14	O	
15	BR	
20	Y	
21	BR	
22	P	

24	L	
25	O	
26	SB	
28	W	
30	Y	
35	R	
39	L	
40	B	
47	P	
48	L	
49	SB	
50	GR	
51	LG	
52	G	
53	GR	
54	BR	
55	Y	
56	W/L	
60	V	
61	BR	
62	O	
63	L/O	
64	SHIELD	
66	W	
67	BR	
68	Y	
69	SB	
70	GR	
72	SB	
73	L	
74	W	
75	BR	
76	GR	
77	O	
78	G	
78	V	
79	Y	
80	R	
81	W	
82	LG	
83	G	

Connector No.	E339
Connector Name	WIRE TO WIRE
Connector Type	NS12EER-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	G	
4	O	
5	O	
8	G	
9	W	
10	Y	
11	R	

Connector No.	E340
Connector Name	HORN HIGH
Connector Type	P01FB-A



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

Connector No.	E341
Connector Name	HORN HIGH
Connector Type	P01FB-A



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

Connector No.	E342
Connector Name	HORN LOW
Connector Type	P01FB-A



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

Connector No.	E343
Connector Name	HORN LOW
Connector Type	P01FB-A



INTELLIGENT KEY SYSTEM

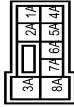
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[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

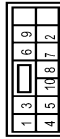
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-

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



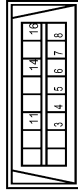
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	Y	-
2A	G	-
3A	Y	-
4A	GR	-
7A	LG	-
8A	Y	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	SB	-
11C	R	-
12C	G	-
6C	BR	-
7C	B	-
8C	G	-
9C	GR	-

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



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

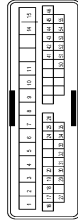
Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TT7DFW-CS1P-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
3	P	-
5	BR	-
6	G	-
8	G	-
11	P	-
12	L	-
13	V	-
14	Y	-
15	R	-
20	W	- [Without colour display]

Terminal No.	Color Of Wire	Signal Name [Specification]
20	Y	- [With colour display]
21	BR	-
22	LG	-
24	Y	-
25	L	-
28	BR	-
29	L	-
30	R	-
35	R	-
39	L	-
40	B	-
47	P	-
48	L	-
49	W	-
50	GR	-
52	V	-
53	V	-
54	SB	-
55	P	-
56	LG	-
60	V	-
61	GR	-
62	BR	-
63	V	-
64	SHIELD	-
66	W	-
67	R	-
68	W	-
69	G	-
70	G	-
71	G	-
72	BR	-
73	L	-
74	W	-
75	BR	-
76	R	-
77	G	-
78	Y	-
79	G	-
80	R	-
81	W	-
82	W	-
83	BG	-

Connector No.	M8
Connector Name	WIRE TO WIRE
Connector Type	TT4ADM-CSS3



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	Y	-
3	Y	- [With Pod without BOSE system]
4	W	- [With BOSE system and base unit without Pod]
5	B	- [With BOSE system]
5	BR	- [Without Pod and BOSE system]
5	W	- [With Pod without BOSE system]
6	GR	-
7	G	-
8	B	-
16	W	-
17	Y	-
18	W	-
19	R	-
20	SB	-
24	G	-
25	G	-
26	P	-
28	R	-
29	GR	-
30	G	-
31	V	-
32	Y	-
33	P	-
34	BR	-
35	R	-

JRKWC8093GB

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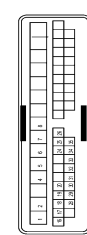
INTELLIGENT KEY SYSTEM

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[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

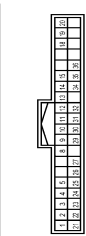
Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CSI5



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	--
2	G	--
3	W	--
4	B	-- [With BOSE system and base audio without iPod] --
5	G	-- [With BOSE system and base audio without iPod] --
6	V	-- [With BOSE system and base audio without iPod] --
7	BR	--
8	W	--
9	SB	--
10	L	--
11	G	--
14	B	--
15	GR	--
16	Y	--
17	Y	--
18	W	--
19	Y	--
20	SB	--
24	P	--
25	V	--
26	W	--
27	R	--
29	R	--
30	L	--
31	SB	--
32	W	--
33	Y	--
34	BR	--
35	R	--
41	LG	--
42	LG	--
43	BR	--
44	Y	--
45	P	--

46	P	--
50	V	--
51	BG	--
52	GR	-- [With automatic drive positioner]
53	L	-- [With automatic drive positioner]
53	V	-- [Without automatic drive positioner]
54	G	-- [Without automatic drive positioner]
54	LG	-- [Without automatic drive positioner]
55	GR	-- [Without automatic drive positioner]
55	SB	-- [Without automatic drive positioner]

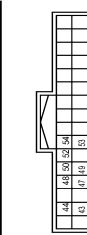
Connector No.	M24
Connector Name	COMBINATION METER
Connector Type	TH40PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	BATTERY POWER SUPPLY
2	G	IGNITION SIGNAL
3	B	GROUND
4	B	GROUND
5	SB	ILLUMINATION CONTROL SIGNAL
8	SB	TRIP RESET SIGNAL
9	W	SWILL POWER
10	LG	METER CONTROL SWITCH GROUND
11	L	ENTER SWITCH SIGNAL
12	R	SELECT SWITCH SIGNAL
13	V	ILLUMINATION CONTROL SWITCH SIGNAL (-)
14	GR	ILLUMINATION CONTROL SWITCH SIGNAL (+)
15	BR	AIR BAG SIGNAL
18	L	AMBIENT SENSOR SIGNAL
19	P	AMBIENT SENSOR POWER
20	Y	AMBIENT SENSOR GROUND
21	L	CAN-L
22	P	GROUND
23	B	GROUND
24	W	FUEL LEVEL SENSOR GROUND
25	BR	ALTERNATOR SIGNAL
26	G	PARKING BRAKE SWITCH SIGNAL
27	V	BRAKE FLUID LEVEL SWITCH SIGNAL

29	B	WASHER LEVEL SWITCH SIGNAL
30	P	VEHICLE SPEED SIGNAL (2-PULSE)
31	V	VEHICLE SPEED SIGNAL (8-PULSE)
32	LG	OVERDRIVE CONTROL SWITCH SIGNAL
34	G	FUEL LEVEL SENSOR SIGNAL
35	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
36	R	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)

Connector No.	M44
Connector Name	WIRE TO WIRE
Connector Type	TH32PW-NH



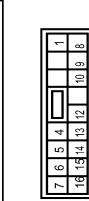
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	--
2	R	--
3	SHIELD	--
4	B	--
5	W	--
6	SHIELD	--
7	SHIELD	--
8	R	--
9	SHIELD	--
10	V	--
11	LG	--
12	SHIELD	--
13	P	--
15	LG	--
16	L	--
17	R	--
18	W	--
29	L	--
30	BG	--
31	Y	--
32	V	--

Connector No.	M57
Connector Name	C/VT SHIFT SELECTOR
Connector Type	TK10FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	--
2	B	--
6	P	--
7	B	--
8	V	--
9	V	--

Connector No.	M70
Connector Name	WIRE TO WIRE
Connector Type	INSIFER-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	--
4	P	--
5	GR	--
6	R	--
7	W	--
8	GR	--
10	GR	--
12	P	--
13	V	--
14	L	--
15	BR	--
16	V	--

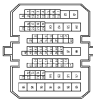
INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH89FW-CSS9



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	
2	B	
3	W	
4	R	
5	P	
6	W	
7	G	
8	SHIELD	
9	W	
10	R	
11	G	
12	B	
13	P	
14	R	
15	SB	
16	R	
17	Y	
18	B	
19	P	
20	LG	
21	Y	
22	BR	
23	LG	
24	SB	
25	Y	
27	Y	
28	R	
30	Y	
31	W	
32	BR	
35	B	
36	G	
37	Y	
40	BR	
41	LG	
42	SB	

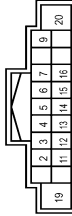
84	R	
85	Y	
86	W	
87	R	
88	G	
89	B	
90	V	
91	G	
92	BR	
93	P	
94	V	
95	W	
96	SB	
97	L	
98	LG	
99	Y	

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



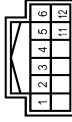
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	GROUND
2	P	SIGNAL
4	L	+12V

Connector No.	M87
Connector Name	WIRE TO WIRE
Connector Type	TH89FW-CSS2



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	
2	W	
3	W	
4	W	
5	SHIELD	
6	W	
7	W	
8	B	
9	Y	
10	B	
13	SHIELD	
14	R	
15	B	
17	SHIELD	
18	BR	

Connector No.	M89
Connector Name	KEY SLOT
Connector Type	TH89FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BAT
2	SB	DATA
3	GR	DATA
5	GR	ILL BAT
6	R	ILL
7	B	GROUND
11	Y	KEY SWITCH SIGNAL

46	G	
47	G	
48	SB	
49	Y	
48	GR	
48	SHIELD	
49	BR	
49	R	
50	LG	
50	R	
51	R	
51	V	
52	B	
53	BR	
54	B	
55	G	
56	P	
57	L	
58	SB	
59	R	
59	SHIELD	
60	B	
60	Y	
61	R	
62	W	
63	LG	
64	Y	
65	R	
65	V	
66	Y	
67	G	
67	W	
66	BG	
66	G	
69	SHIELD	
70	L	
71	P	
72	LG	
73	Y	
74	R	
75	P	
75	R	
77	BR	
78	R	
80	W	
81	L	
82	L	
83	GR	- [Without automatic drive positioner]
83	W	- [With automatic drive positioner]

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INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

Connector No.	M101
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR



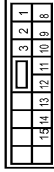
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	G	-
3	W	-
4	BR	-
5	R	-
6	L	-
7	P	-
8	GR	-

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



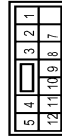
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (7/L)
2	GR	POWER WINDOW POWER SUPPLY (BAT)
3	L	POWER WINDOW POWER SUPPLY (IGN)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	INTERIOR ROOM LAMP POWER SUPPLY
2	GR	PASSENGER DOOR UNLOCK OUTPUT
3	W	STEP LAMP CONT
4	BR	ALL DOOR FUEL LID LOCK OUTPUT
5	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
6	P	REAR DOOR UNLOCK OUTPUT
7	LG	GROUND
8	O	PUSH-BUTTON IGNITION SW ILL GND
9	L	ACC IND
10	G	TURN SIGNAL RH
11	BR	TURN SIGNAL LH
12	Y	INT ROOM LAMP CONT

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



Terminal No.	Color Of Wire	Signal Name [Specification]
23	BR	BACK DOOR GREEN OUTPUT
26	G	REAR WIPER OUTPUT

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FY-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
34	W	LUGGAGE ROOM ANT-
35	R	LUGGAGE ROOM ANT+
36	L	REAR BUMPER ANT-
38	BR	REAR BUMPER ANT+
47	L	IGN RELAY (I/DM/PI) CONT
52	R	STARTER RELAY CONT
60	BR	PUSH SW
61	R	BACK DOOR OPENER REQUEST SW
64	GR	I-KEY WARN BLIZZER
65	O	REAR WIPER STOP POSITION
66	Y	BACK DOOR SW
67	LG	BACK DOOR OPENER SW
68	W	REAR RH DOOR SW
69	R	REAR LH DOOR SW

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



Terminal No.	Color Of Wire	Signal Name [Specification]
12	B	ROOM ANT-
13	W	ROOM ANT+
74	Y	PASSENGER DOOR ANT-
75	LG	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	P	DRIVER DOOR ANT+

80	SB	METS ANT AMP
81	G	METS ANT AMP
82	BR	IGN RELAY (F/BC) CONT
83	P	KEYLESS ENTRY RECEIVER COMM
87	R	COMBI SW INPUT 5
88	GR	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
92	R	KEY SLOT ILL CONT
93	P	ON IND
95	L	ACC RELAY CONT
96	Y	CVT SHIFT SELECTOR POWER SUPPLY
99	V	SHIFT P
100	P	PASSENGER DOOR REQUEST SW
101	W	DRIVER DOOR REQUEST SW
102	L	BLUETOOTH KEY CONT SW
103	L	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	O	COMBI SW INPUT 1
108	P	COMBI SW INPUT 4
109	SB	COMBI SW INPUT 2
110	G	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FC-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
112	R	RAIN SENSOR SERIAL LINK
113	P/B	OPTICAL SENSOR
116	GR	STOP LAMP SW 1
118	L	STOP LAMP SW 2
119	W	DR DOOR UNLOCK SENSOR
120	W	REAR DOOR SW
121	G	IGN F/CA
124	R	PASSENGER DOOR SW
130	BR	REAR DEFROGGER SW
132	G	POWER WINDOW SW COMM
133	W	PUSH-BUTTON IGNITION SW ILL POWER
134	R	LOCK IND
137	P	RECEIVER SENSOR GND

INTELLIGENT KEY SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM

138	V	RECEIVER/SENSOR POWER SUPPLY
139	G	RECEIVER/SENSOR GROUND
140	GR	TIRE PRESSURE SENSOR COMB
141	P	SECURITY IND. LAMP CONT
141	O	SECURITY IND. LAMP CONT
142	O	COMBI SW OUTPUT 5
143	W	COMBI SW OUTPUT 1
144	P	COMBI SW OUTPUT 2
145	V	COMBI SW OUTPUT 3
146	Y	COMBI SW OUTPUT 4
150	SB	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

Connector No.	M251
Connector Name	WIRE TO WIRE
Connector Type	TH18BMF-C52



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	--
2	W	--
4	W	--
5	SHIELD	--
6	SHIELD	--
8	SHIELD	--
9	G	--
10	B	--
13	SHIELD	--
14	R	--
15	B	--
17	SHIELD	--
18	R	--

Connector No.	M252
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	FR02FGY



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

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BACK DOOR OPENER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

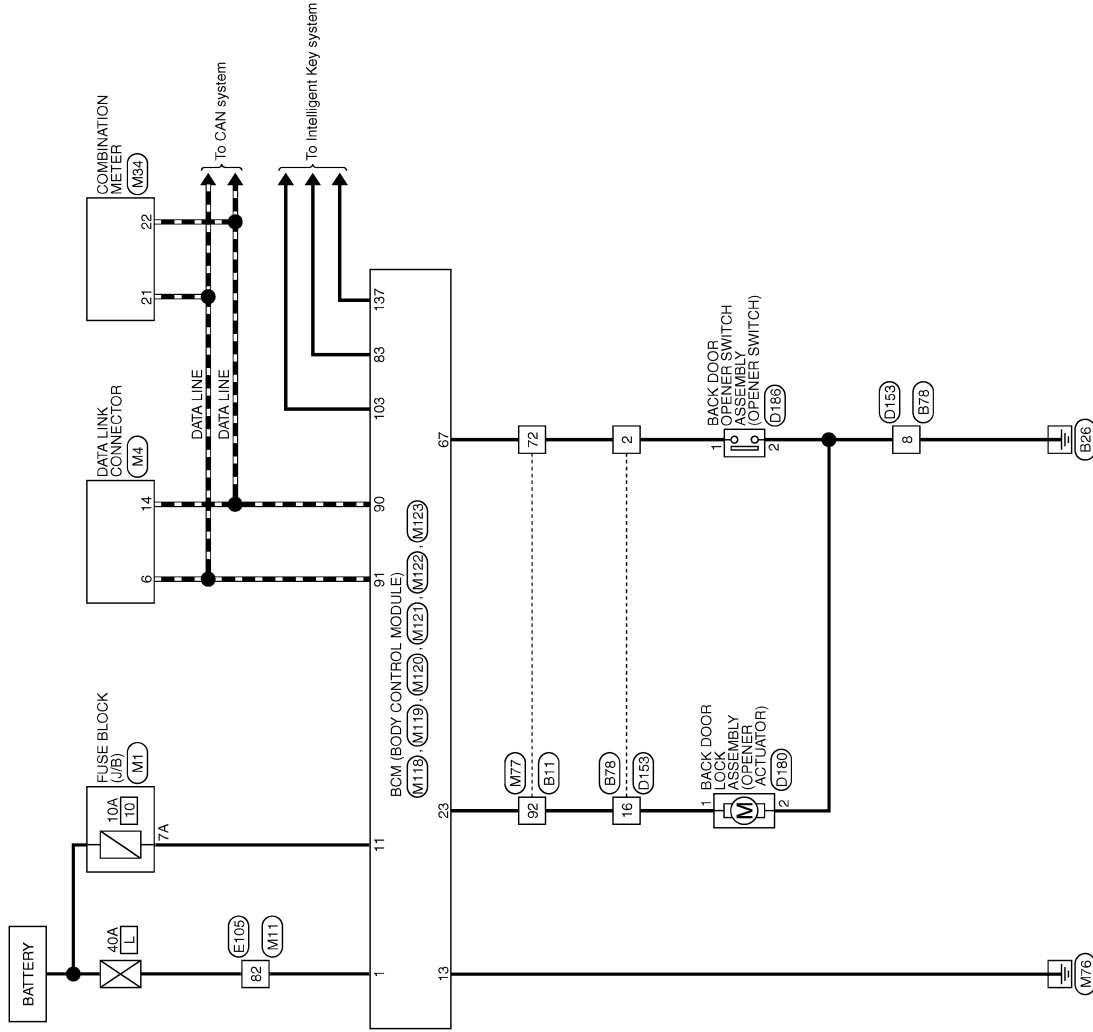
[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPENER SYSTEM

Wiring Diagram - BACK DOOR OPENER -

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BACK DOOR OPENER



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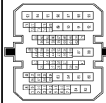
BACK DOOR OPENER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPENER

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TR80BMW-CSI9



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	
2	B	
3	R/L	
4	R/W	
5	BR	
6	P	
7	V	
8	SHIELD	
9	BR/L	
10	Y/G	
11	Y/L	
12	W/L	
13	L	
14	BR	
15	SB	
16	GR	
17	SB	
18	SB	
19	R	
20	P	
21	LG	
22	W	
23	Y	
24	GR	
25	Y	
27	V	
28	R	
30	P	
31	BR	
32	BR	
33	SB	
35	SHIELD	
36	G	
37	LG	
40	Y	
41	GR	

42	G	
43	G	
44	LG	
47	SB	
47	V	
48	SHIELD	
49	B	
49	BR	
50	G	
50	R/W	
51	R	
51	R/L	
52	B	
53	SHIELD	
54	LG	
55	BR	
56	P	
57	L	
58	R	
59	R	
59	SHIELD	
60	B	
60	Y	
61	R/L	
62	R/W	
63	LG	
64	Y	
65	BR	
66	R	
66	V	
67	G	
67	GR	
68	BR	
68	R	
69	SHIELD	
70	W/R	
71	B/R	
72	Y	
73	LG	
74	SB	
75	L	
76	G	
76	B	
76	R	
80	W	
81	R	
82	L	

Terminal No.	Color Of Wire	Signal Name [Specification]
83	BR	
84	G	
85	G	
86	SB	
87	R	
88	G	
89	GR	
90	Y	
91	G	
92	BR	
93	G	
94	V	
95	BR	
96	GR	
97	R	
98	LG	
99	O	



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

Connector No.	B78
Connector Name	WIRE TO WIRE
Connector Type	NS16BMW-CS

Connector No.	D153
Connector Name	WIRE TO WIRE
Connector Type	NS16BMW-CS



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	
2	W	
3	R	
4	V	
6	V	
8	B	
9	L	
10	R	
11	O	
12	W	
13	GR	
14	G	
15	O	
16	BR	

Connector No.	D189
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS16BMW-CS



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

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BACK DOOR OPENER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPENER

Connector No.	D78B
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	THDMW-NH



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

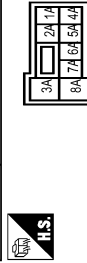
Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH1MMK-CSDP-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
5	LG	-
6	GR	-
8	G	-
11	P	-
12	L	-
13	Y	-
14	O	-
15	BR	-
21	GR	-
22	P	-
24	L	-
25	O	-
28	SB	-
29	W	-

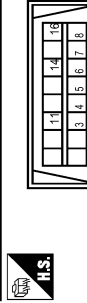
39	Y	-
39	R	-
40	B	-
47	P	-
48	L	-
49	SB	-
50	GR	-
51	LG	-
52	V	-
53	GR	-
54	BR	-
55	Y	-
56	W/L	-
67	BR	-
68	Y	-
69	SB	-
70	GR	-
71	SB	-
72	Y	-
73	L	-
74	R	-
75	GR	-
77	O	-
78	G	- [With iPod without navigation system] - [Without iPod and navigation system]
79	Y	-
80	R	-
81	W	-
82	LG	-
83	O	-

Connector No.	IM
Connector Name	FUSE BLOCK (J/B)
Connector Type	NSBFW-M2



Terminal No.	Color Of Wire	Signal Name [Specification]
3A	G	-
3B	Y	-
3C	GR	-
3D	LG	-
3E	Y	-
3F	LG	-
3G	Y	-
3H	Y	-
3I	Y	-
3J	Y	-
3K	Y	-
3L	Y	-
3M	Y	-
3N	Y	-
3O	Y	-
3P	Y	-
3Q	Y	-
3R	Y	-
3S	Y	-
3T	Y	-
3U	Y	-
3V	Y	-
3W	Y	-
3X	Y	-
3Y	Y	-
3Z	Y	-

Connector No.	IM
Connector Name	DATA LINK CONNECTOR
Connector Type	BD18FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	BR	-
8	G	-
14	SP	-
16	Y	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH1MMK-CSDP-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
3	W	-
5	BR	-
6	O	-
8	G	-
11	P	-
12	L	-
13	V	-
14	Y	-
15	R	-
20	W	- [Without colour display] - [With colour display]
21	BR	-
22	LG	-
24	Y	-
25	Y	-
28	BR	-
29	I	-
38	R	-
39	L	-
40	B	-
47	P	-
48	L	-
49	W	-
50	GR	-
51	LG	-
52	Y	-
53	SB	-
55	P	-
56	LG	-
60	V	-
61	GR	-
62	BR	-
63	V	-

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BACK DOOR OPENER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPENER

84	SHIELD	-	-	-	-
85	W	-	-	-	-
86	W	-	-	-	-
87	W	-	-	-	-
88	W	-	-	-	-
89	P	-	-	-	-
90	G	-	-	-	-
91	G	-	-	-	-
92	BR	-	-	-	-
93	L	-	-	-	-
94	W	-	-	-	-
95	BR	-	-	-	-
96	R	-	-	-	-
97	G	-	-	-	-
98	G	-	-	-	-
99	W	-	-	-	-
80	W	-	-	-	-
81	W	-	-	-	-
82	W	-	-	-	-
83	EG	-	-	-	-

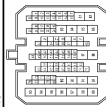
Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH4DFW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BATTERY POWER SUPPLY
2	LG	IGN SIGNAL
3	B	GROUND
4	B	ILLUMINATION CONTROL SIGNAL
5	SB	TRIP RESET SIGNAL
9	W	SW/LL POWER
10	LG	METER CONTROL SWITCH GROUND
11	R	TRIP GEAR
12	B	SELECT SWITCH SIGNAL
13	V	ILLUMINATION CONTROL SWITCH SIGNAL C
14	GR	ILLUMINATION CONTROL SWITCH SIGNAL C
15	BR	AIR BAG SIGNAL
18	L	AMBIENT SENSOR SIGNAL
19	P	AMBIENT SENSOR POWER

20	Y	AMBIENT SENSOR GROUND
21	L	CON-T
22	P	CON-T
23	B	GROUND
24	W	FUEL LEVEL SENSOR GROUND
25	BR	ALTERNATOR SIGNAL
26	G	PARKING BRAKE SWITCH SIGNAL
27	V	BRAKE FLUID LEVEL SWITCH SIGNAL
28	R	WASHER LEVEL SWITCH SIGNAL
29	P	VEHICLE SPEED SIGNAL (2-PULSE)
30	P	VEHICLE SPEED SIGNAL (8-PULSE)
31	V	OVERDRIVE CONTROL SWITCH SIGNAL
32	LG	FUEL LEVEL SENSOR SIGNAL
33	G	FUEL LEVEL SENSOR SIGNAL
34	G	FUEL LEVEL SENSOR SIGNAL
35	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SEAT)
36	R	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SEAT)

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH8DFW-CS19



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	W	-
4	R	-
6	W	-
7	G	-
8	SHIELD	-
9	W	-
10	R	-
11	G	-
12	B	-
13	R	-
14	R	-
15	SB	-
16	R	-
17	V	-
18	P	-
19	P	-
20	LG	-

68	EG	-
69	EG	-
70	SHIELD	-
71	P	-
72	LG	-
73	Y	-
74	R	-
75	P	-
76	L	-
77	BR	-
79	B	-
80	W	-
81	L	-
82	L	-
83	GR	[With automatic drive assistance?]
84	W	[With automatic drive assistance?]
85	V	-
86	W	-
87	R	-
88	G	-
89	B	-
90	V	-
91	G	-
92	BR	-
93	P	-
94	W	-
95	W	-
97	SB	-
98	LG	-
99	Y	-

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



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BACK DOOR OPENER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPENER

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (E/L)
2	GR	POWER WINDOW POWER SUPPLY (BAT)
3	L	POWER WINDOW POWER SUPPLY (IGN)

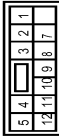
Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	P/W	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
7	W	STEP LAMP CONT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	P	REAR DOOR UNLOCK OUTPUT
11	G	BAT (CRUSE)
12	B	PUSH-BUTTON IGNITION SW ILL GND
15	L	ACC IND
17	G	TURN SIGNAL RH
18	BR	TURN SIGNAL LH
19	Y	INT ROOM LAMP CONT



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



Terminal No.	Color Of Wire	Signal Name [Specification]
28	BR	BACK DOOR OPEN OUTPUT
29	G	REAR WIPER OUTPUT

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



Terminal No.	Color Of Wire	Signal Name [Specification]
34	B	LUGGAGE ROOM ANT-
35	W	LUGGAGE ROOM ANT+
38	L	REAR BUMPER ANT-
39	BR	REAR BUMPER ANT+
47	L	IGN RELAY (IPDM E/R) CONT
52	R	STARTER RELAY CONT
60	BR	PUSH SW
61	R	BACK DOOR OPENER REQUEST SW
64	GR	KEY WARN BUZZER
65	O	REAR WIPER STOP POSITION
67	W	REAR WIPER MOTOR
68	LG	BACK DOOR CHLRS SW
69	W	REAR RH DOOR SW
69	R	REAR LH DOOR SW

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



Terminal No.	Color Of Wire	Signal Name [Specification]
72	W	ROOM ANT-
73	W	ROOM ANT+
74	Y	PASSENGER DOOR ANT-
75	LG	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	P	DRIVER DOOR ANT+
80	S5	NATS ANT AMP
81	O	NATS ANT AMP
82	BR	IGN RELAY (F/B) CONT
83	P	KEYLESS ENTRY RECEIVER COMM
87	R	COMBI SW INPUT 5
88	GR	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
92	W	LOCK IND
93	P	KEY SIGNAL CONT
95	L	ACC RELAY CONT
96	L	CVT SHIFT SELECTOR POWER SUPPLY
99	Y	SHIFT P
100	P	PASSENGER DOOR REQUEST SW
101	W	DRIVER DOOR REQUEST SW
102	Y	BLOWER RELAY CONT
103	L	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	O	COMBI SW INPUT 1
108	P	COMBI SW INPUT 4
109	SB	COMBI SW INPUT 2
110	G	HAZARD SW

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



Terminal No.	Color Of Wire	Signal Name [Specification]
112	P/B	RAIN SENSOR SERIAL LINK
113	P/B	OPTICAL SENSOR
116	GR	STOP LAMP SW 1
118	W	STOP LAMP SW 2
119	W	DR DOOR UNLOCK SENSOR
121	Y	KEY SLOT SW
123	G	IGN F/B
124	R	PASSENGER DOOR SW
130	BR	REAR DEFOGGER SW
132	G	POWER WINDOW SW COMM
133	W	PUSH-BUTTON IGNITION SW ILL POWER
134	R	LOCK IND
137	P	RECEIVER SENSOR GND
138	V	RECEIVER SENSOR POWER SUPPLY
139	W	TIRE PRESSURE SENSOR COMM
140	GR	SECURITY SW ILL
141	O	SECURITY IND LAMP CONT
142	O	COMBI SW OUTPUT 5
143	W	COMBI SW OUTPUT 1
144	P	COMBI SW OUTPUT 2
145	V	COMBI SW OUTPUT 3
146	Y	COMBI SW OUTPUT 4
150	SB	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

JRKWC8107GB

FUEL FILLER LID OPENER

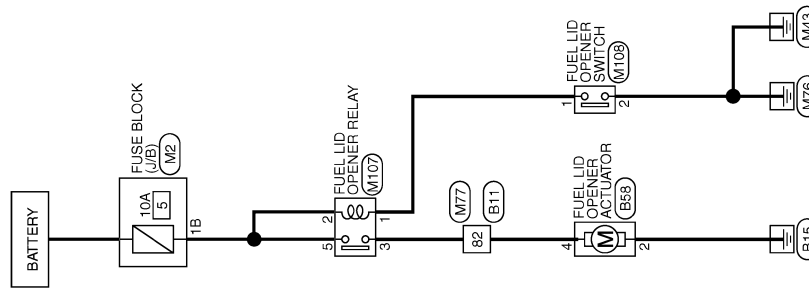
< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

FUEL FILLER LID OPENER

Wiring Diagram - FUEL LID OPENER -

INFOID:000000009719116



FUEL LID OPENER

2012/08/24

JRKWC2435GB

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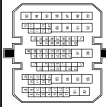
FUEL FILLER LID OPENER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

FUEL LID OPENER

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH88PW-CS19



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	
2	R/L	
3	R/L	
4	R/W	
6	P	
7	V	
8	SHIELD	
9	BR/L	
10	Y/G	
11	Y/L	
12	W/L	
13	L	
14	BR	
15	SB	
16	SP	
17	V	
18	SB	
19	R	
20	P	
21	LG	
22	W	
23	Y	
24	GR	
25	Y	
27	V	
28	R	
30	P	
31	BR	
32	SB	
35	SHIELD	
36	LG	
37	LG	
40	Y	
41	GR	

Terminal No.	Color Of Wire	Signal Name [Specification]
42	G	
43	G	
44	LG	
45	G	
46	SB	
47	R	
48	GR	
49	SHIELD	
50	B	
51	BR	
52	G	
53	R/W	
54	R	
55	R/L	
56	P	
57	L	
58	R	
59	R	
59	SHIELD	
60	B	
61	R/L	
62	R/W	
63	LG	
64	GR	
65	R	
66	L	
68	V	
67	G	
67	GR	
68	BR	
68	R	
69	SHIELD	
70	W/R	
71	B/R	
72	Y	
73	LG	
74	SB	
75	L	
76	G	
77	R	
78	B	
80	W	
81	R	
82	L	

Connector No.	B58
Connector Name	FUEL LID OPENER ACTUATOR
Connector Type	IM88PW-LC



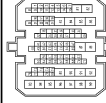
Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	
4	L	

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NIS10PW-CS



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

Connector No.	IM77
Connector Name	WIRE TO WIRE
Connector Type	TH88PW-CS19



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

FUEL FILLER LID OPENER

< DTC/CIRCUIT DIAGNOSIS >

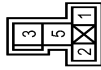
[WITH INTELLIGENT KEY SYSTEM]

FUEL LID OPENER

13	P	-
14	SB	-
15	SB	-
16	R	-
17	V	-
18	P	-
19	P	-
20	LG	-
21	Y	-
22	BR	-
23	LG	-
24	SB	-
25	Y	-
27	Y	-
28	R	-
30	W	-
32	BR	-
34	Y	-
35	B	-
36	G	-
37	Y	-
40	BR	-
41	LG	-
42	SB	-
46	G	-
46	LG	-
47	SB	-
47	Y	-
48	CG	-
48	SHIELD	-
49	BR	-
49	R	-
50	LG	-
50	R	-
51	R	-
51	V	-
52	B	-
53	BR	-
54	B	-
55	G	-
56	P	-
57	LS	-
58	SB	-
59	SHIELD	-
60	B	-
60	Y	-
61	R	-
62	W	-

83	LG	-
84	V	-
85	R	-
86	V	-
86	L	-
86	Y	-
87	G	-
87	W	-
88	BG	-
88	G	-
89	SHIELD	-
70	L	-
71	P	-
72	LG	-
72	V	-
73	R	-
74	P	-
75	L	-
77	BR	-
79	B	-
80	W	-
81	L	-
82	L	-
83	GR	- [Without automatic drive positioner]
83	W	- [With automatic drive positioner]
84	R	-
85	V	-
85	W	-
87	R	-
88	G	-
88	B	-
89	V	-
81	G	-
92	BR	-
93	P	-
94	V	-
95	W	-
96	SB	-
97	L	-
98	LG	-
99	Y	-

Connector No.	MTD7
Connector Name	FUEL LID OPENER RELAY
Connector Type	MS02EL-M2-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	V	-
3	W	-
5	W	-

Connector No.	MTB8
Connector Name	FUEL LID OPENER SWITCH
Connector Type	TK09FXY



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

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INTEGRATED HOMELINK TRANSMITTER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

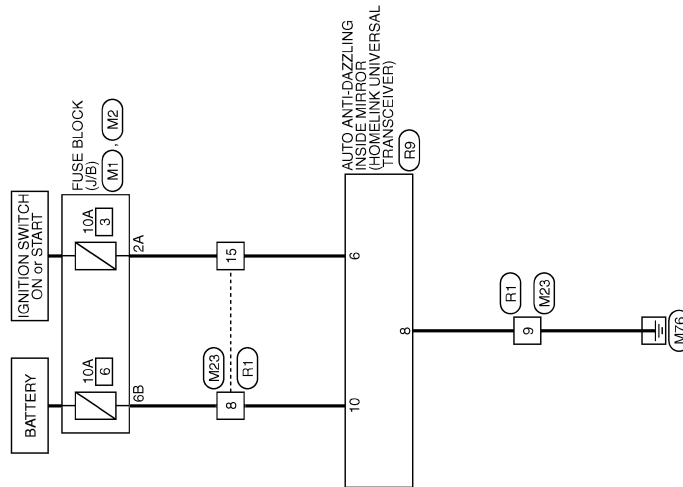
[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER SYSTEM

Wiring Diagram - INTEGRATED HOMELINK TRANSMITTER SYSTEM -

INFOID:000000009719117

INTEGRATED HOMELINK TRANSMITTER



2010/09/06

JCKWM5090GB

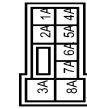
INTEGRATED HOMELINK TRANSMITTER SYSTEM

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

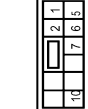
INTEGRATED HOMELINK TRANSMITTER

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS95FW-M2



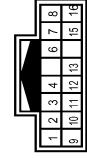
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	Y	-
2A	G	-
3A	Y	-
4A	GR	-
7A	LG	-
8A	Y	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10PW-CS



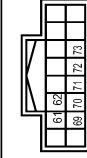
Terminal No.	Color Of Wire	Signal Name [Specification]
1B	W	-
3B	L	-
4B	G	-
5B	L	-
8B	Y	-
7B	R	-
8B	R	-
8B	GR	-

Connector No.	M3
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	SHIELD	- [Without navigation system] - [With navigation system]
3	B	-
4	SHIELD	-
6	R	-
7	Y	-
8	Y	-
9	B	-
10	Y	-
11	P	-
12	L	-
13	SB	-
15	G	-
16	R	-

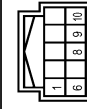
Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R/W	- [Without navigation system]
1	W	- [With navigation system]
2	R/L	- [Without navigation system]
2	SHIELD	- [With navigation system]

3	B	-
6	SHIELD	-
7	Y/R	-
8	B/Y	-
9	B	-
10	Y	-
11	P/W	-
12	B	-
13	R/Y	-
15	B/R	-
16	R	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
8	B/R	-
9	B/Y	-

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000010044857

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/AUTO	Off
	Front wiper switch INT/AUTO	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
RR WIPER ON	Other than rear wiper switch ON	Off
	Rear wiper switch ON	On
RR WIPER INT	Other than rear wiper switch INT	Off
	Rear wiper switch INT	On
RR WASHER SW	Rear washer switch OFF	Off
	Rear washer switch ON	On
RR WIPER STOP	Rear wiper is in STOP position	Off
	Rear wiper is not in STOP position	On
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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status	
FR FOG SW	Front fog lamp switch OFF	Off	A
	Front fog lamp switch ON	On	
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off	B
DOOR SW-DR	Driver door closed	Off	C
	Driver door opened	On	
DOOR SW-AS	Passenger door closed	Off	D
	Passenger door opened	On	
DOOR SW-RR	Rear RH door closed	Off	E
	Rear RH door opened	On	
DOOR SW-RL	Rear LH door closed	Off	F
	Rear LH door opened	On	
DOOR SW-BK	Back door closed	Off	G
	Back door opened	On	
CDL LOCK SW	Other than power door lock switch LOCK	Off	H
	Power door lock switch LOCK	On	
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off	I
	Power door lock switch UNLOCK	On	
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off	J
	Driver door key cylinder LOCK position	On	
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off	K
	Driver door key cylinder UNLOCK position	On	
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off	L
HAZARD SW	Hazard switch is OFF	Off	M
	Hazard switch is ON	On	
REAR DEF SW NOTE: For models with BOSE audio system this item is not monitored.	Rear window defogger switch OFF	Off	N
	Rear window defogger switch ON	On	
TR CANCEL SW	NOTE: The item is indicated, but not monitored.	Off	O
TR/BD OPEN SW	Back door opener switch OFF	Off	P
	While the back door opener switch is turned ON	On	
TRNK/HAT MNTR	NOTE: The item is indicated, but not monitored.	Off	
RKE-LOCK	LOCK button of Intelligent Key is not pressed	Off	O
	LOCK button of Intelligent Key is pressed	On	
RKE-UNLOCK	UNLOCK button of Intelligent Key is not pressed	Off	P
	UNLOCK button of Intelligent Key is pressed	On	
RKE-TR/BD	BACK DOOR OPEN button of Intelligent Key is not pressed	Off	
	BACK DOOR 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	

DLK

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
RKE-MODE CHG	LOCK/UNLOCK button of Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
	Passenger door request switch is pressed	On
REQ SW -RR	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	Back door request switch is not pressed	Off
	Back door request switch is pressed	On
PUSH SW	Push-button ignition switch (push switch) is not pressed	Off
	Push-button ignition switch (push switch) is pressed	On
IGN RLY2 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off
CLUCH SW	NOTE: 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
	Stop lamp switch 1 signal circuit is normal	On
DETE/CANCL SW	Selector lever in P position	Off
	Selector lever in any position other than P	On
SFT PN/N SW	Selector lever in any position other than P and N	Off
	Selector lever in P or N position	On
S/L -LOCK	NOTE: The item is indicated, but not monitored.	Off
S/L -UNLOCK	NOTE: The item is indicated, but not monitored.	Off
S/L RELAY-F/B	NOTE: The item is indicated, but not monitored.	Off
UNLK SEN -DR	Driver door is unlocked	Off
	Driver door is locked	On
PUSH SW -IPDM	Push-button ignition switch (push-switch) is not pressed	Off
	Push-button ignition switch (push-switch) is pressed	On
IGN RLY1 -F/B	Ignition switch in OFF or ACC position	Off
	Ignition switch in ON position	On
DETE SW -IPDM	Selector lever in any position other than P	Off
	Selector lever in P position	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status	
SFT PN -IPDM	Selector lever in any position other than P and N	Off	A
	Selector lever in P or N position	On	
SFT P -MET	Selector lever in any position other than P	Off	B
	Selector lever in P position	On	
SFT N -MET	Selector lever in any position other than N	Off	C
	Selector lever in N position	On	
ENGINE STATE	Engine stopped	Stop	
	While the engine stalls	Stall	D
	At engine cranking	Crank	
	Engine running	Run	
S/L LOCK-IPDM	NOTE: The item is indicated, but not monitored.	Off	E
S/L UNLK-IPDM	NOTE: The item is indicated, but not monitored.	Off	F
S/L RELAY-REQ	NOTE: The item is indicated, but not monitored.	Off	
VEH SPEED 1	While driving	Equivalent to speedometer reading	G
VEH SPEED 2	While driving	Equivalent to speedometer reading	H
DOOR STAT-DR	Driver door is locked	LOCK	
	Wait with selective UNLOCK operation (5 seconds)	READY	I
	Driver door is unlocked	UNLOCK	
DOOR STAT-AS	Passenger door is locked	LOCK	
	Wait with selective UNLOCK operation (5 seconds)	READY	J
	Passenger door is unlocked	UNLOCK	
ID OK FLAG	Power supply position in LOCK position	Reset	
	Power supply position in any position other than LOCK	Set	DLK
PRMT ENG STRT	The engine start is prohibited	Reset	
	The engine start is permitted	Set	L
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset	
KEY SW -SLOT	Intelligent Key is not inserted into key slot	Off	M
	Intelligent Key is inserted into key slot	On	
RKE OPE COUN1	During the operation of Intelligent Key	Operation frequency of Intelligent Key	N
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	—	
CONFIRM ID ALL	The Intelligent Key ID that the key slot receives is not recognized by any Intelligent Key ID registered to BCM.	Yet	O
	The Intelligent Key ID that the key slot receives is recognized by any Intelligent Key ID registered to BCM.	Done	P
CONFIRM ID4	The Intelligent Key ID that the key slot receives is not recognized by the fourth Intelligent Key ID registered to BCM.	Yet	
	The Intelligent Key ID that the key slot receives is recognized by the fourth Intelligent Key ID registered to BCM.	Done	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

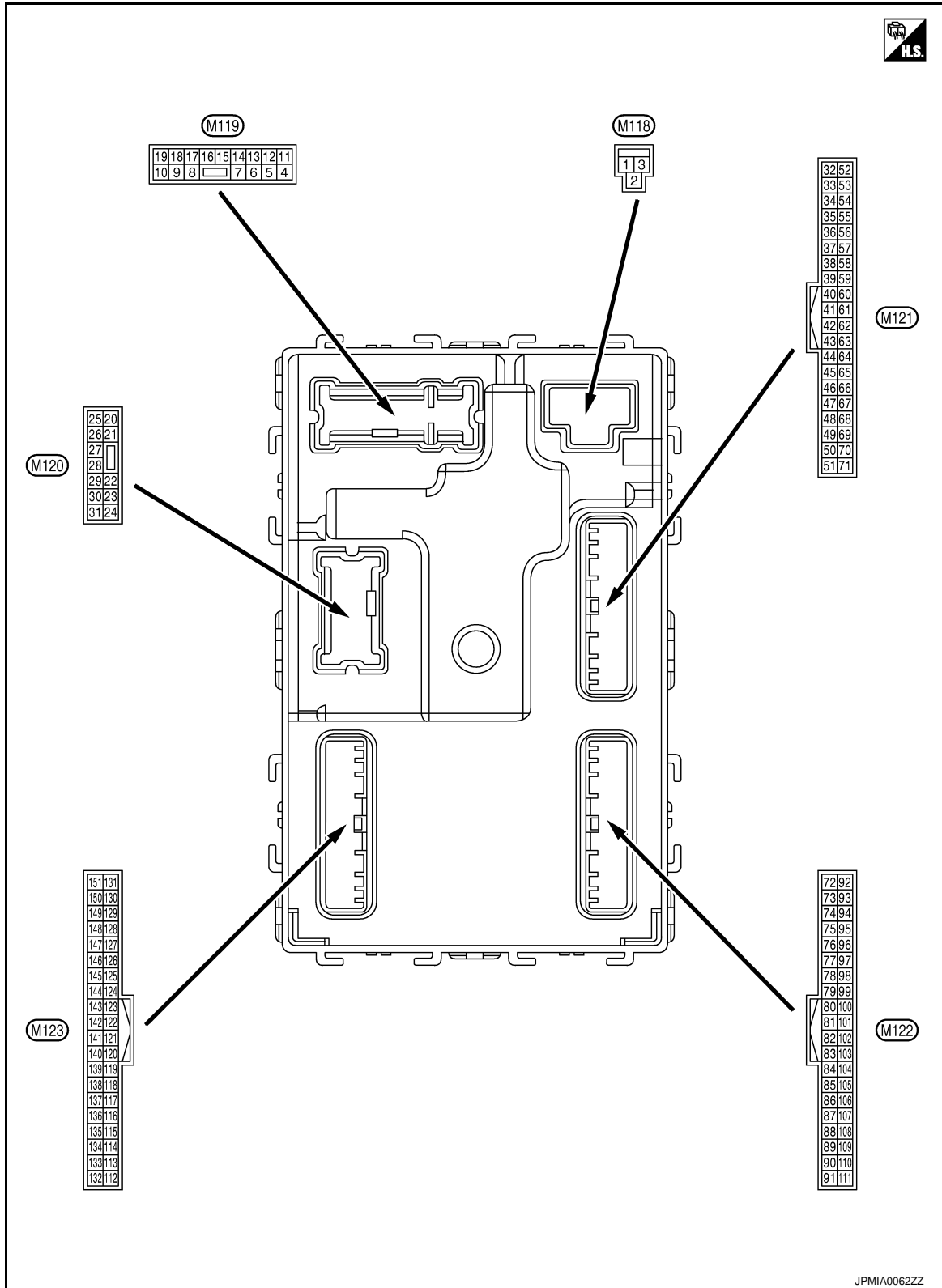
Monitor Item	Condition	Value/Status
CONFIRM ID3	The Intelligent Key ID that the key slot receives is not recognized by the third Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the third Intelligent Key ID registered to BCM.	Done
CONFIRM ID2	The Intelligent Key ID that the key slot receives is not recognized by the second Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the second Intelligent Key ID registered to BCM.	Done
CONFIRM ID1	The Intelligent Key ID that the key slot receives is not recognized by the first Intelligent Key ID registered to BCM.	Yet
	The Intelligent Key ID that the key slot receives is recognized by the first Intelligent Key ID registered to BCM.	Done
TP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
	The ID of fourth Intelligent Key is registered to BCM	Done
TP 3	The ID of third Intelligent Key is not registered to BCM	Yet
	The ID of third Intelligent Key is registered to BCM	Done
TP 2	The ID of second Intelligent Key is not registered to BCM	Yet
	The ID of second Intelligent Key is registered to BCM	Done
TP 1	The ID of first Intelligent Key is not registered to BCM	Yet
	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
ID REGST FL1	ID of front LH tire transmitter is registered	Done
	ID of front LH tire transmitter is not registered	Yet
ID REGST FR1	ID of front RH tire transmitter is registered	Done
	ID of front RH tire transmitter is not registered	Yet
ID REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
ID REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
WARNING LAMP	Tire pressure indicator OFF	Off
	Tire pressure indicator ON	On
BUZZER	Tire pressure warning alarm is not sounding	Off
	Tire pressure warning alarm is sounding	On

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

TERMINAL LAYOUT



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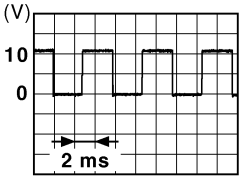
PHYSICAL VALUES

JPMIA0062ZZ

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

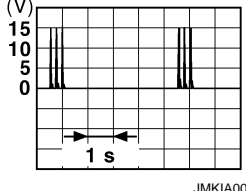
[WITH INTELLIGENT KEY SYSTEM]

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 (GR)	Ground	P/W power supply (BAT)	Output	Ignition switch OFF		Battery voltage
3 (L)	Ground	P/W power supply (IGN)	Output	Ignition switch ON		Battery voltage
4 (P/W)	Ground	Interior room lamp power supply	Output	Interior room lamp battery saver is activated. (Cuts the interior room lamp power supply)		0 V
				Interior room lamp battery saver is not activated. (Outputs the interior room lamp power supply)		Battery voltage
5 (G)	Ground	Passenger door UN- LOCK	Output	Passenger door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
7 (W)	Ground	Step lamp control	Output	Step lamp	ON	0 V
					OFF	Battery voltage
8 (V)	Ground	All doors LOCK	Output	All doors	LOCK (Actuator is activated)	Battery voltage
					Other than LOCK (Actuator is not activated)	0 V
9 (G)	Ground	Driver door UNLOCK	Output	Driver door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
10 (P)	Ground	Rear RH door and rear LH door UN- LOCK	Output	Rear RH door and rear LH door	UNLOCK (Actuator is activated)	Battery voltage
					Other than UNLOCK (Actuator is not activated)	0 V
11 (LG)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage
13 (B)	Ground	Ground	—	Ignition switch ON		0 V
14 (O)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	OFF	0 V
					ON	<p>NOTE: When the illumination brightening/dimming level is in the neutral position</p>  <p style="text-align: right; font-size: small;">JSNIA0010GB</p>
15 (L)	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK and ON indicator lamps are not illuminated.)	Battery voltage
					ACC	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
17 (G)	Ground	Turn signal RH	Output	Ignition switch ON	Turn signal switch RH
18 (BR)	Ground	Turn signal LH	Output	Ignition switch ON	Turn signal switch LH
19 (Y)	Ground	Interior room lamp control	Output	Interior room lamp	OFF
23 (BR)	Ground	Back door open	Output	Back door	OPEN (Back door opener actuator is activated)
26 (G)	Ground	Rear wiper	Output	Rear wiper	OFF (Stopped)
34 (B)	Ground	Luggage room antenna (-)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compartment
				When Intelligent Key is not in the passenger compartment	

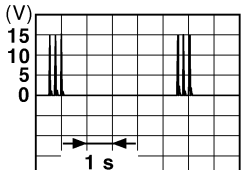
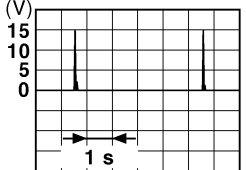
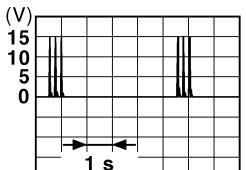
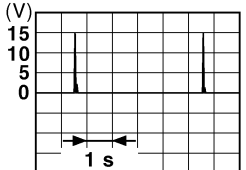
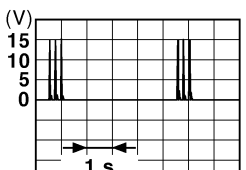
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

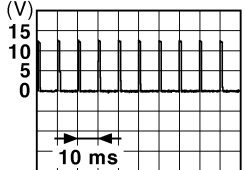
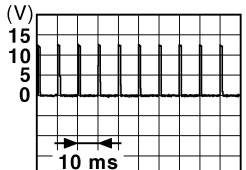
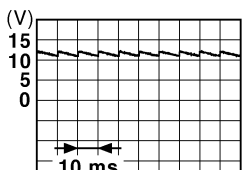
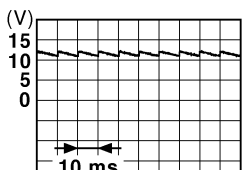
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
35 (W)	Ground	Luggage room antenna (+)	Output		
				When Intelligent Key is not in the passenger compartment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
38 (L)	Ground	Rear bumper antenna (-)	Output	When the back door request switch is operated with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
39 (BR)	Ground	Rear bumper antenna (+)	Output	When the back door request switch is operated with ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
47 (L)	Ground	Ignition relay (IPDM E/R) control	Output	Ignition switch	Battery voltage
				OFF or ACC	0 V
				ON	0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
		Signal name	Input/ Output			
+	-					
52 (R)	Ground	Starter relay control	Output	Ignition switch ON	When selector lever is in P or N position	Battery voltage
					When selector lever is not in P or N position	0.3 V
				Ignition switch OFF		0 V
60 (BR)	Ground	Push-button ignition switch (push switch)	Input	Push-button igni- tion switch (push switch)	Pressed	0 V
					Not pressed	Battery voltage
61 (R)	Ground	Back door request switch	Input	Back door re- quest switch	ON (Pressed)	0 V
					OFF (Not pressed)	 1.0 V
64 (GR)	Ground	Intelligent key warn- ing buzzer control	Output	Warning buzzer	Sounding	0 V
					Not sounding	Battery voltage
65 (O)	Ground	Rear wiper stop posi- tion	Input	Rear wiper	In stop position	 1.0 V
					Not in stop position	0 V
66 (Y)	Ground	Back door switch	Input	Back door switch	OFF (When back door closes)	 11.8 V
					ON (When back door opens)	0 V
67 (LG)	Ground	Back door opener switch	Input	Back door opener switch	Pressed	0 V
					Not pressed	 11.8 V

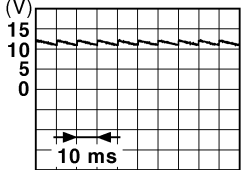
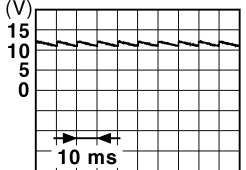
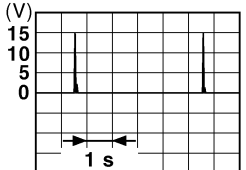
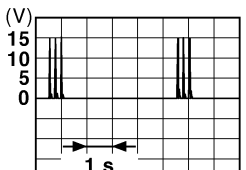
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BCM (BODY CONTROL MODULE)

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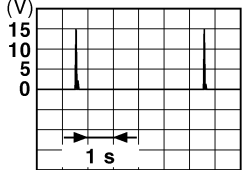
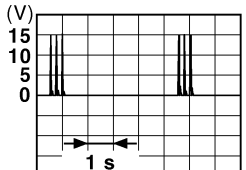
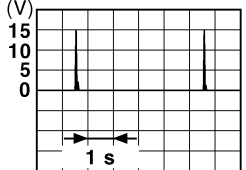
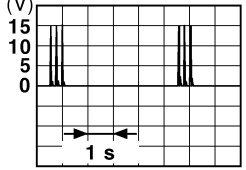
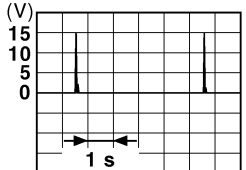
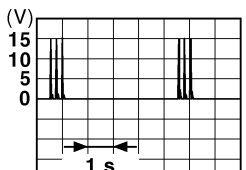
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
68 (W)	Ground	Rear RH door switch	Input	Rear RH door switch	OFF (When rear RH door closes)	 11.8 V
				Rear RH door switch	ON (When rear RH door opens)	0 V
69 (R)	Ground	Rear LH door switch	Input	Rear LH door switch	OFF (When rear LH door closes)	 11.8 V
				Rear LH door switch	ON (When rear LH door opens)	0 V
72 (B)	Ground	Room antenna (-) (Center console)	Output	Ignition switch OFF	When Intelligent Key is in the passenger compart- ment	 JMKIA0062GB
				Ignition switch OFF	When Intelligent Key is not in the passenger compart- ment	 JMKIA0063GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
73 (W)	Ground	Room antenna (+) (Center console)	Output	Ignition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the passenger compart- ment	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
74 (Y)	Ground	Passenger door an- tenna (-)	Output	When the pas- senger door re- quest switch is operated with ig- nition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>
75 (LG)	Ground	Passenger door an- tenna (+)	Output	When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA0062GB</p>
				When the pas- senger door re- quest switch is operated with ig- nition switch OFF	 <p style="text-align: right; font-size: small;">JMKIA0063GB</p>

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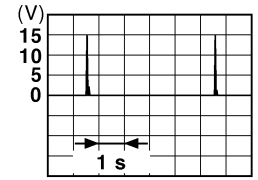
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BCM (BODY CONTROL MODULE)

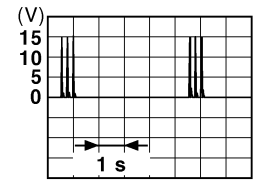
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[WITH INTELLIGENT KEY SYSTEM]

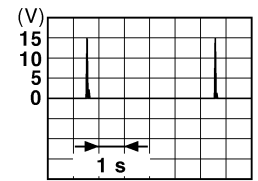
Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
76 (V)	Ground	Driver door antenna (-)	Output	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area
				When Intelligent Key is not in the antenna detection area	When Intelligent Key is not in the antenna detection area
77 (P)	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
				When Intelligent Key is not in the antenna detection area	When Intelligent Key is not in the antenna detection area
80 (SB)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting Intelligent Key into the key slot.
81 (O)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting Intelligent Key into the key slot.
82 (BR)	Ground	Ignition relay [fuse block (J/B)] control	Output	Ignition switch	OFF or ACC
				ON	Battery voltage



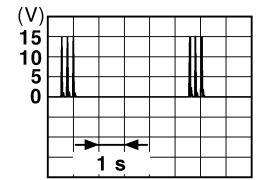
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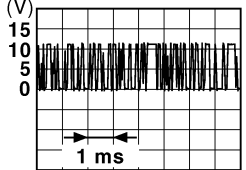
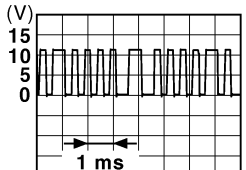
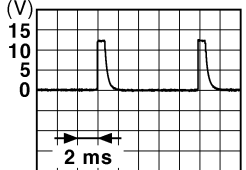
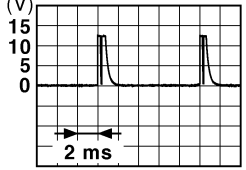
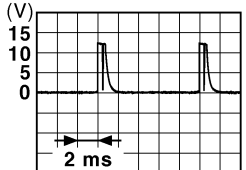



JMKIA0063GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
83 (P)	Ground	Remote keyless entry receiver communication	Input/ Output	During waiting		
				When operating either button on Intelligent Key		
87 (R)	Ground	Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 <p style="text-align: center;">1.4 V</p>
					Front fog lamp switch ON (Wiper intermittent dial 4)	 <p style="text-align: center;">1.3 V</p>
					Rear wiper switch ON (Wiper intermittent dial 4)	 <p style="text-align: center;">1.3 V</p>
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 2 • Wiper intermittent dial 6 • Wiper intermittent dial 7 	 <p style="text-align: center;">1.3 V</p>

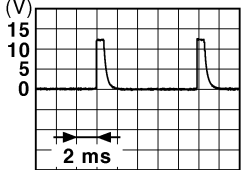
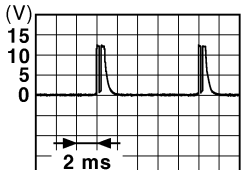

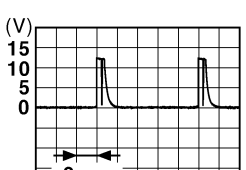
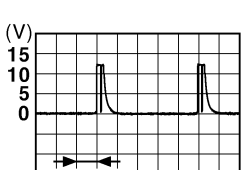
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BCM (BODY CONTROL MODULE)

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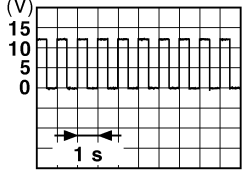
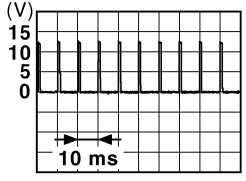
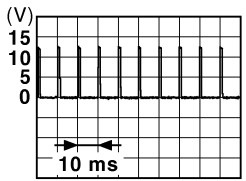
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
88 (GR)	Ground	Combination switch INPUT 3	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 <small>JPMIA0041GB</small> 1.4 V
					Lighting switch HI (Wiper intermittent dial 4)	 <small>JPMIA0036GB</small> 1.3 V
					Lighting switch 2ND (Wiper intermittent dial 4)	 <small>JPMIA0037GB</small> 1.3 V
					Rear washer switch ON (Wiper intermittent dial 4)	 <small>JPMIA0039GB</small> 1.3 V
					Any of the conditions below with all switches OFF	 <small>JPMIA0040GB</small> 1.3 V
90 (P)	Ground	CAN-L	Input/ Output	—	—	
91 (L)	Ground	CAN-H	Input/ Output	—	—	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)		
		Signal name	Input/ Output				
+	-						
92 (R)	Ground	Key slot illumination	Output	Key slot illumination	OFF	0 V	
					Blinking	 <p style="text-align: right; font-size: small;">JPMIA0015GB</p>	6.5 V
					ON	Battery voltage	
93 (P)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK and ACC indicator lamps are not illuminated.)	Battery voltage	
					ON	0 V	
95 (L)	Ground	ACC relay control	Output	Ignition switch	OFF	0 V	
					ACC or ON	Battery voltage	
96 (Y)	Ground	CVT shift selector (detention switch) power supply	Output	—	Battery voltage		
99 (V)	Ground	Selector lever P position switch	Input	Selector lever	P position	0 V	
					Any position other than P	Battery voltage	
100 (P)	Ground	Passenger door request switch	Input	Passenger door request switch	ON (Pressed)	0 V	
					OFF (Not pressed)	 <p style="text-align: right; font-size: small;">JPMIA0016GB</p>	1.0 V
101 (W)	Ground	Driver door request switch	Input	Driver door request switch	ON (Pressed)	0 V	
					OFF (Not pressed)	 <p style="text-align: right; font-size: small;">JPMIA0016GB</p>	1.0 V
102 (Y)	Ground	Blower fan motor relay control	Output	Ignition switch	OFF or ACC	0 V	
					ON	Battery voltage	
103 (L)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch OFF	Battery voltage		

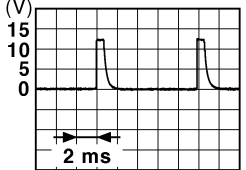

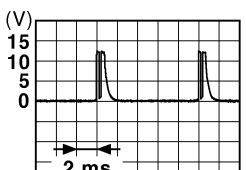
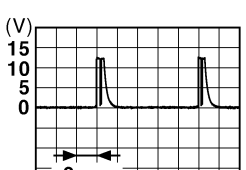
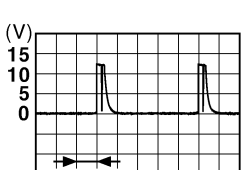
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

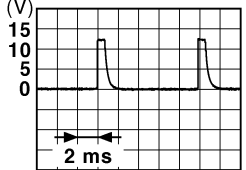
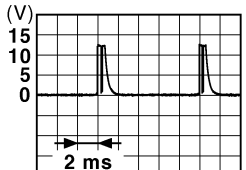

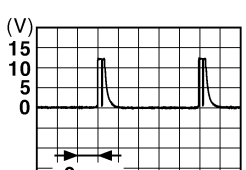

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
+	-	Signal name	Input/ Output		
107 (O)	Ground	Combination switch INPUT 1	Input	All switches OFF	 <small>JPMIA0041GB</small> 1.4 V
				Turn signal switch LH	 <small>JPMIA0037GB</small> 1.3 V
				Turn signal switch RH	 <small>JPMIA0036GB</small> 1.3 V
				Front wiper switch LO	 <small>JPMIA0038GB</small> 1.3 V
				Front washer switch ON	 <small>JPMIA0039GB</small> 1.3 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
108 (P)	Ground	Combination switch INPUT 4	Input	Combination switch	All switches OFF (Wiper intermittent dial 4)	 1.4 V
					Lighting switch AUTO (Wiper intermittent dial 4)	 1.3 V
					Lighting switch 1ST (Wiper intermittent dial 4)	 1.3 V
					Rear wiper switch INT (Wiper intermittent dial 4)	 1.3 V
					Any of the conditions below with all switches OFF	 1.3 V

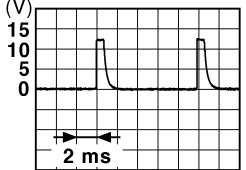

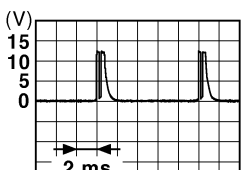
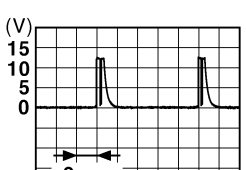
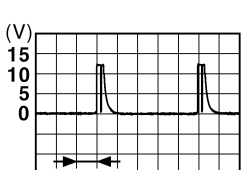
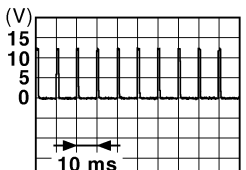
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

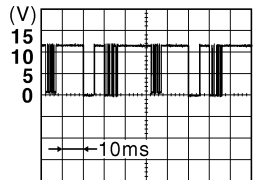
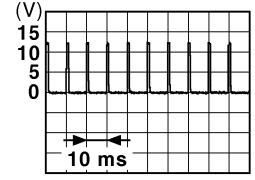
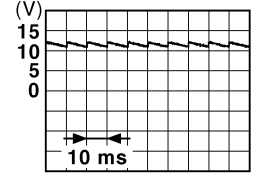
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
+	-	Signal name	Input/ Output			
109 (SB)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper intermittent dial 4)	All switches OFF	 <small>JPMIA0041GB</small> 1.4 V
					Lighting switch PASS	 <small>JPMIA0037GB</small> 1.3 V
					Lighting switch 2ND	 <small>JPMIA0036GB</small> 1.3 V
					Front wiper switch INT/ AUTO	 <small>JPMIA0038GB</small> 1.3 V
					Front wiper switch HI	 <small>JPMIA0040GB</small> 1.3 V
					ON	0 V
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF  <small>JPMIA0012GB</small> 1.1 V	

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON	 8.7 V
113 (P/B)	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 (GR)	Ground	Stop lamp switch 1	Input	—	Battery voltage
118 (L)	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 (W)	Ground	Front door lock assembly driver side (Unlock sensor)	Input	Driver door	 LOCK status (unlock sensor switch OFF) 1.1 V
				—	UNLOCK status (unlock sensor switch ON) 0 V
121 (Y)	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 (G)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC 0 V
				—	ON Battery voltage
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	 OFF (When passenger door closes) 11.8 V
				—	ON (When passenger door opens) 0 V

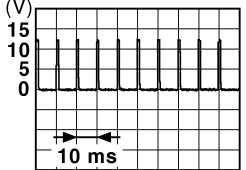
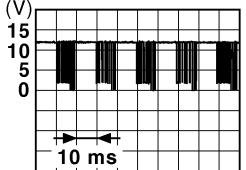
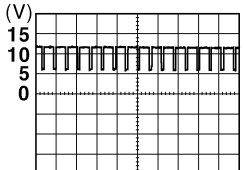
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

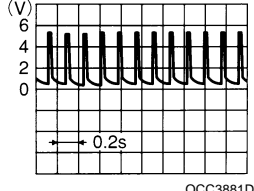
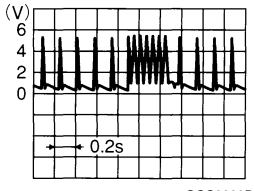
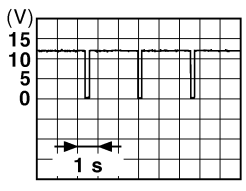
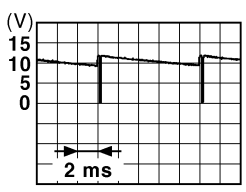
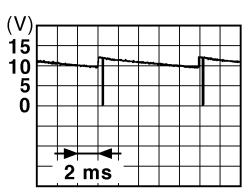
[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ Output			
130 (BR)	Ground	Rear window defogger switch	Input	Ignition switch ON	Rear window defogger switch OFF	 <small>JPMIA0012GB</small> 1.1 V
				Rear window defogger switch ON		0 V
132 (G)	Ground	Power window switch communication	Input/ Output	Ignition switch ON		 <small>JPMIA0013GB</small> 10.2 V
				Ignition switch OFF or ACC		Battery voltage
133 (W)	Ground	Push-button ignition switch illumination	Output	Push-button ignition switch illumination	ON (When tail lamps OFF)	9.5 V
				ON (When tail lamps ON)	<p style="text-align: center;">NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.</p>  <small>JPMIA0159GB</small>	
134 (R)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	OFF (ACC and ON indicator lamps are not illuminated.)	Battery voltage
				ON		0 V
137 (P)	Ground	Receiver and sensor ground	Input	Ignition switch ON		0 V
138 (V)	Ground	Receiver and sensor power supply	Output	Ignition switch	OFF	0 V
				ACC or ON		5.0 V

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)
		Signal name	Input/ Output		
+	-				
139 (O)	Ground	Tire pressure receiver communication	Input/ Output	Ignition switch ON	Standby state  OCC3881D
					When receiving the signal from the transmitter  OCC3880D
140 (GR)	Ground	Selector lever P/N position	Input	Selector lever	P or N position Battery voltage
					Except P and N positions 0 V
141 (O)	Ground	Security indicator	Output	Security indicator	ON 0 V
					Blinking  JPMA0014GB 11.3 V
					OFF Battery voltage
142 (L)	Ground	Combination switch OUTPUT 5	Output	Combination switch (Wiper intermittent dial 4)	All switches OFF 0 V
					Lighting switch 1ST  JPMA0031GB 10.7 V
					Lighting switch HI
					Lighting switch 2ND
				Turn signal switch RH	
143 (W)	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)  JPMA0032GB 10.7 V
					Rear wiper switch INT (Wiper intermittent dial 4)
					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

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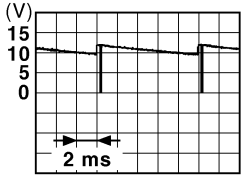
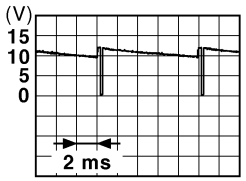
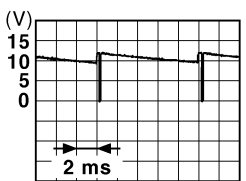
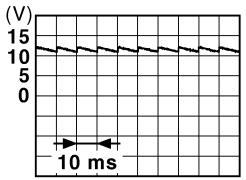
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Value (Approx.)	
		Signal name	Input/ Output			
+	-					
144 (P)	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)	
					Rear wiper switch ON (Wiper intermittent dial 4)	
					Rear washer switch ON (Wiper intermittent dial 4)	
					Any of the conditions below with all switches OFF <ul style="list-style-type: none"> • Wiper intermittent dial 1 • Wiper intermittent dial 5 • Wiper intermittent dial 6 	
145 (V)	Ground	Combination switch OUTPUT 3	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF	0 V
					Front wiper switch INT/ AUTO	
					Front wiper switch LO	
					Lighting switch AUTO	
146 (Y)	Ground	Combination switch OUTPUT 4	Output	Combination switch (Wiper intermit- tent dial 4)	All switches OFF	0 V
					Front fog lamp switch ON	
					Lighting switch 2ND	
					Lighting switch PASS	
					Turn signal switch LH	
150 (SB)	Ground	Driver door switch	Input	Driver door switch	OFF (When driver door closes)	
					ON (When driver door opens)	
151 (G)	Ground	Rear window defog- ger relay control	Output	Rear window de- fogger	Active	0 V
					Not activated	Battery voltage

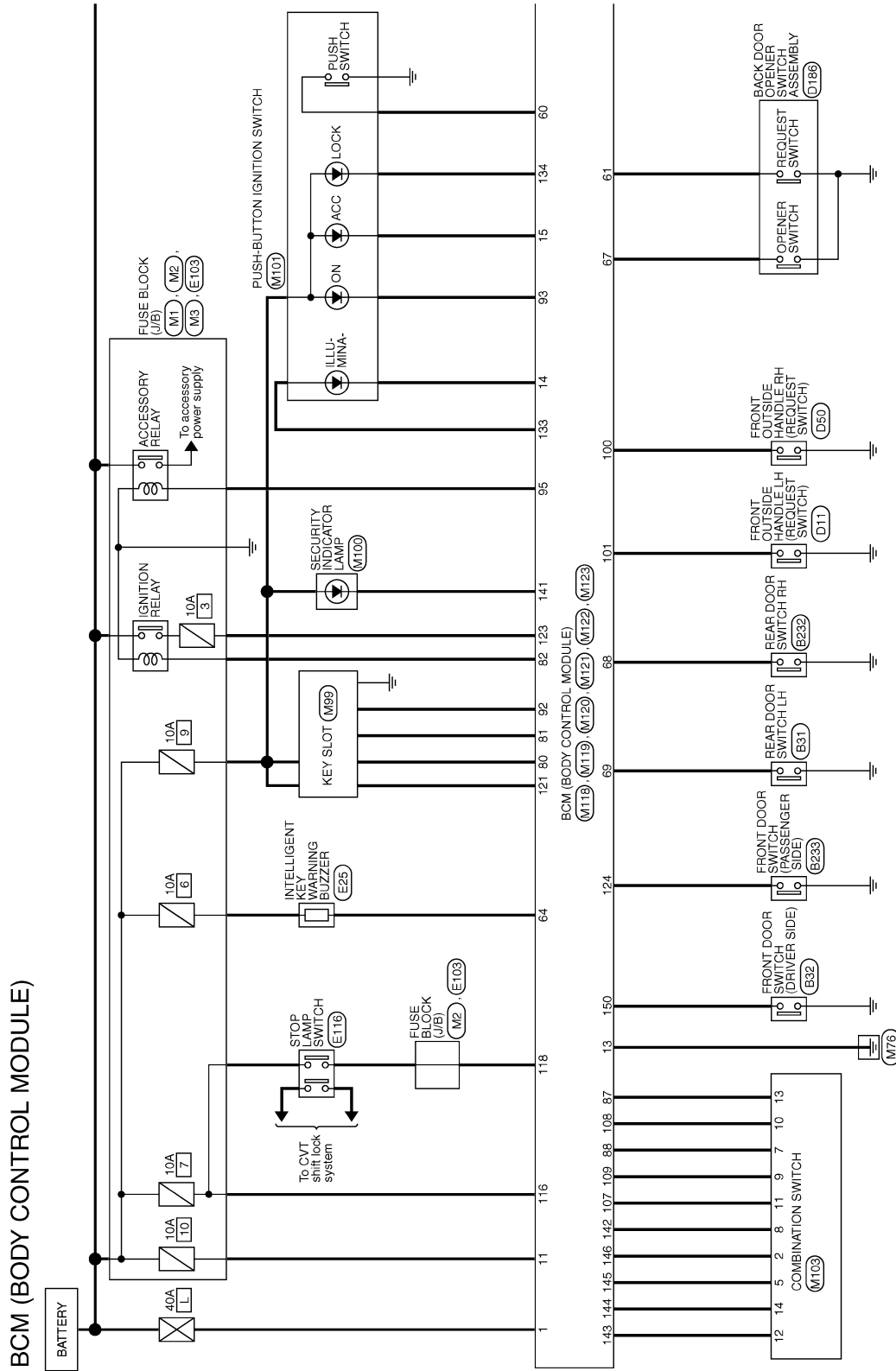
BCM (BODY CONTROL MODULE)

[WITH INTELLIGENT KEY SYSTEM]

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - BCM -

INFOID:000000010044858



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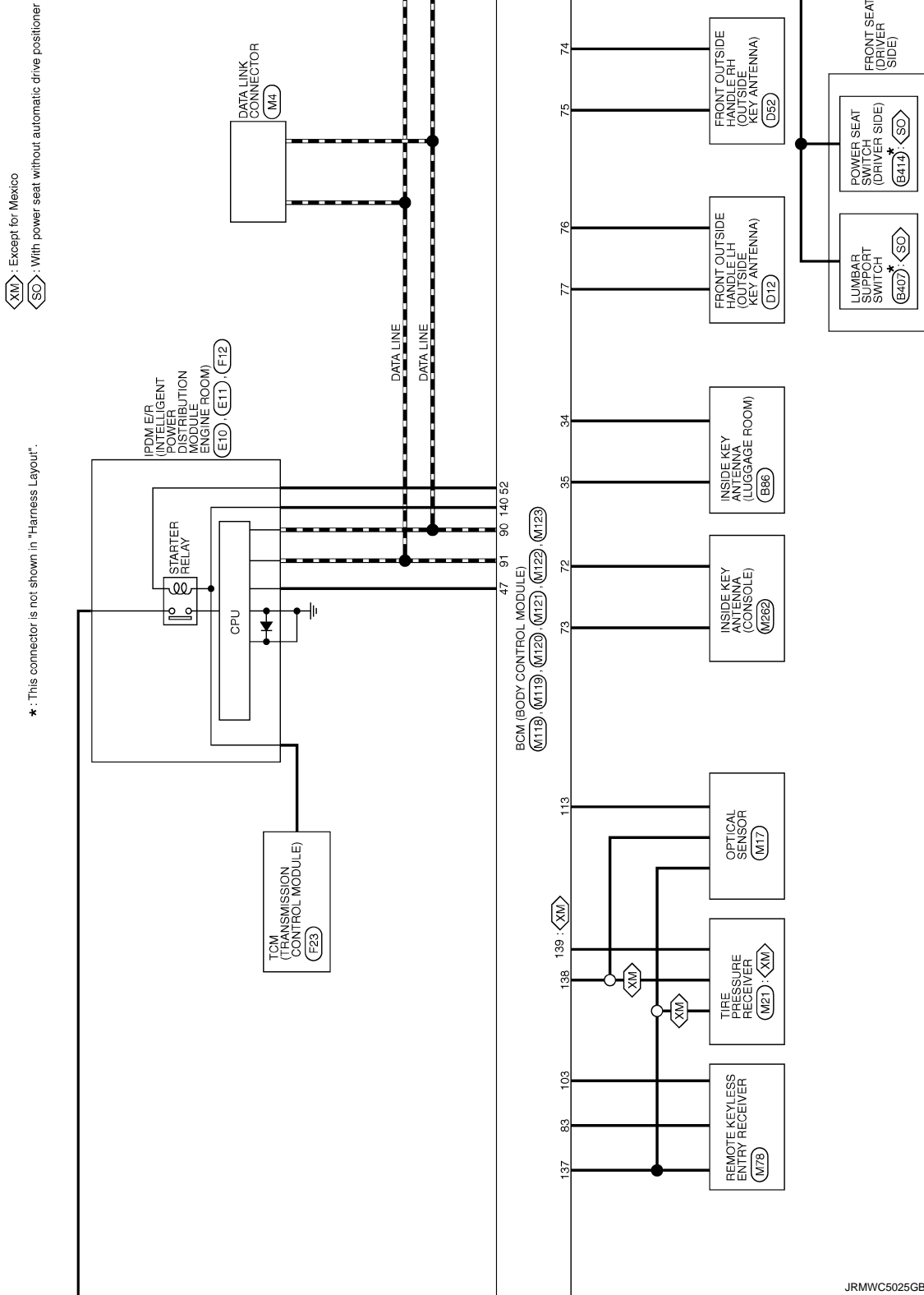
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]



JRMWC5025GB

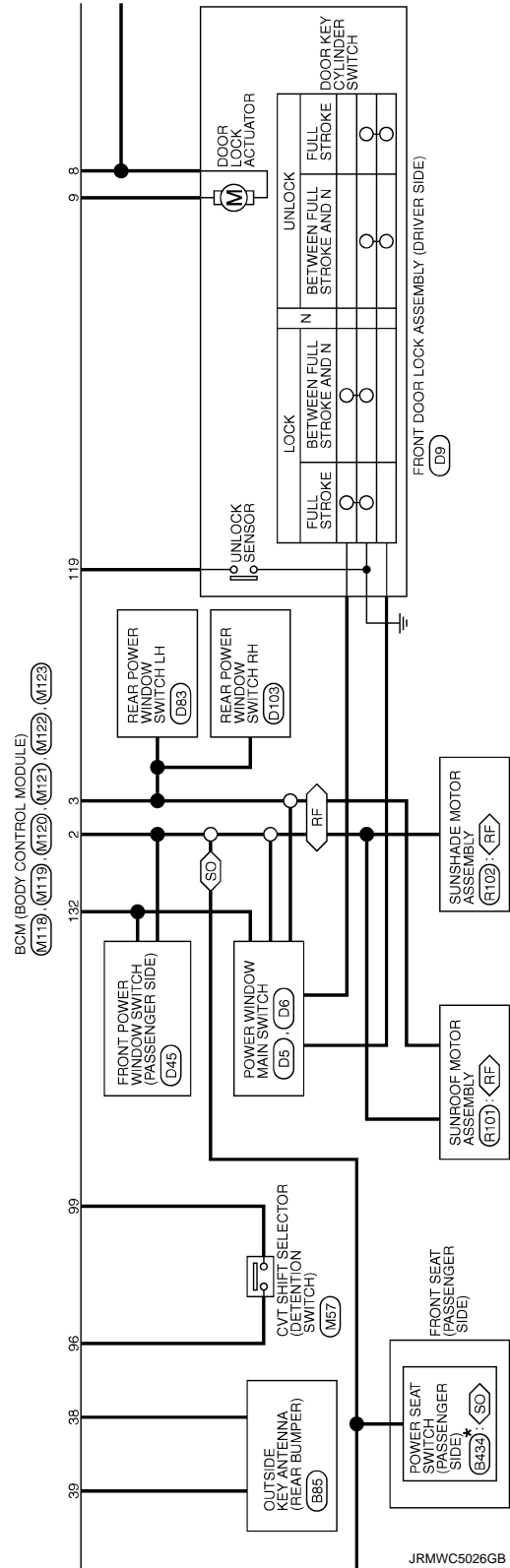
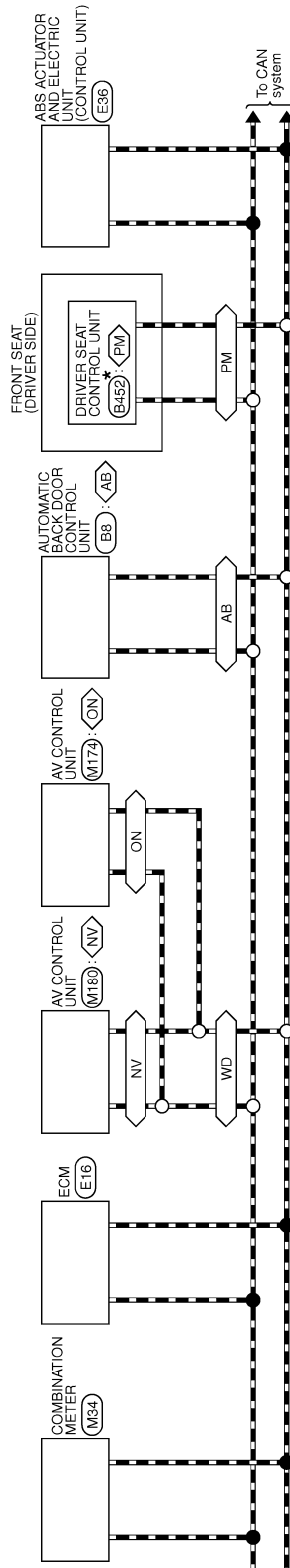
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

- ◊NV◊ : With navigation system
- ◊ON◊ : Without navigation system
- ◊RF◊ : With sunroof
- ◊PM◊ : With automatic drive positioner
- ◊SO◊ : With power seat without automatic drive positioner
- ◊AB◊ : With automatic back door
- ◊WD◊ : With color display

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



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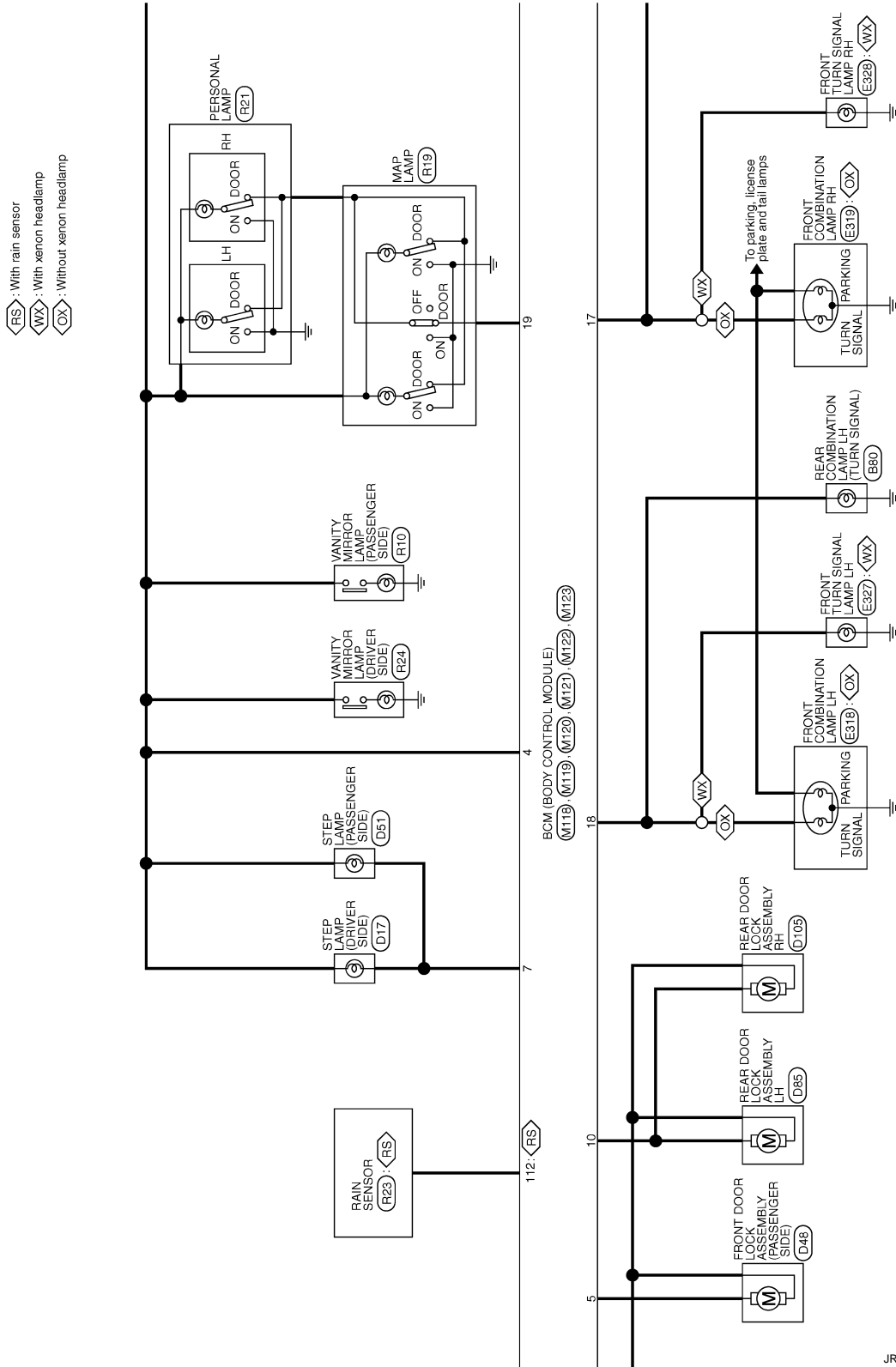
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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]



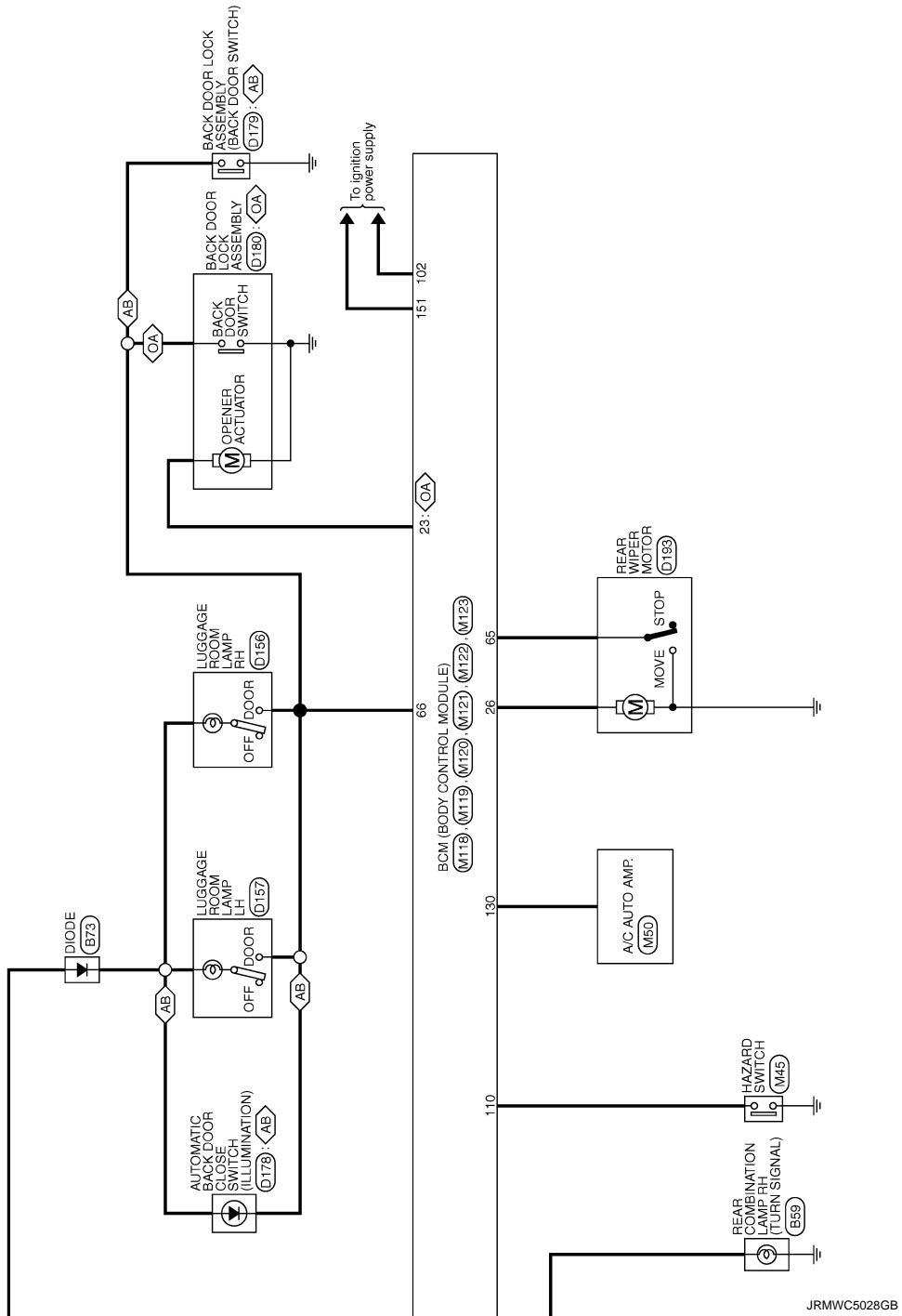
JRMWC5027GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

◊AB◊ : With automatic back door
 ◊OA◊ : Without automatic back door



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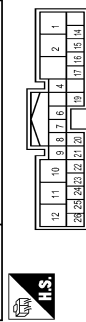
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

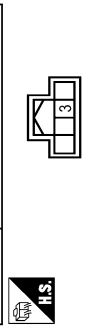
[WITH INTELLIGENT KEY SYSTEM]

BCM (BODY CONTROL MODULE)

Connector No.	B8
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	TH20FW-TB6



Connector No.	B51
Connector Name	REAR DOOR SWITCH LH
Connector Type	TH44FW-RH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B/W	[Without rear view camera]
2	LG	[With rear view camera]
3	BR	-
4	P	-
1	B/W	-
2	LG	-
3	BR	-
4	L	-

Connector No.	B72
Connector Name	DICD
Connector Type	24335-G5802



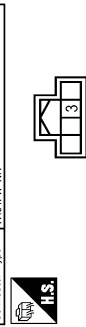
Connector No.	B85
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	RK02FCY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	BUTZER
2	Y	ABS SW
3	Y	ABS GLOSE SW
4	Y	ABS GLOSE SW
5	L	CAN-H
6	L	CAN-L
7	P	CAN-L
8	LG	HALF LATCH SW
9	GR	IGN
10	SB	BAT
11	V	CLOSURE MTR (CLOSE)
12	R	CLOSURE MTR (OPEN)
13	V	TOUCH SENS LH
14	V	TOUCH SENS LH
15	O	TOUCH SENS GND
16	W	TOUCH SENS RH
17	W	TOUCH SENS RH
18	LG	MAIN SW
19	P	OPEN SW
20	L	OPEN SW
21	B	GROUND
22	B	GROUND
23	GR	GROUND
24	BR	ENCODER B
25	Y	ENCODER A
26	G	ENCODER PWR

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

Connector No.	B32
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	TH44FW-RH



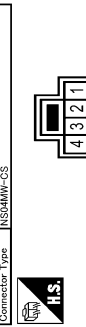
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-

Connector No.	B88
Connector Name	INSIDE KEY ANTENNA (LOUNGE ROOM)
Connector Type	RK02FCY



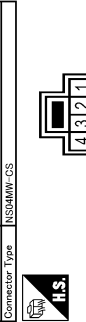
Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	-

Connector No.	B59
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS44MW-CS



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

Connector No.	B60
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS44MW-CS



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

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

JRMWE5830GB

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

BCM (BODY CONTROL MODULE)

Connector No.	B232
Connector Name	REAR DOOR SWITCH RH
Connector Type	TH05FW-NH



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

Connector No.	B233
Connector Name	FRONT DOOR SWITCH (PASSENGER SIDE)
Connector Type	TH05FW-NH



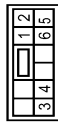
Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-

Connector No.	B407
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	NS04FBR-CS



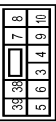
Terminal No.	Color Of Wire	Signal Name [Specification]
11	O	-
12	L/G	-
13	Y/W	-
14	Y	-

Connector No.	B414
Connector Name	POWER SEAT SWITCH (DRIVER SIDE)
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-
3	G	-
4	G/R	-
5	V	-
6	R/L	-
8	L/W	-
8	L/R	-
10	L/B	-

Connector No.	B434
Connector Name	POWER SEAT SWITCH (PASSENGER SIDE)
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	G	-
4	G/R	-
5	V	-
6	R/L	-

Connector No.	B452
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH02FW



Terminal No.	Color Of Wire	Signal Name [Specification]
11	O/B	-
12	G/W	-
13	R/G	-
14	R/W	-
15	V/B	-
17	L/G/B	-
18	L/S/R	-
19	G/Y	-
20	R/Y	-
21	L/Y	-
22	BR/Y	-
23	P	-
24	P/L	-
25	O/O	-
26	L/O	-
27	V	-
28	V/W	-
29	O/L	-
31	BR/W	-
32	W/L	-
33	W	-

Connector No.	D5
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	BR	-
4	B	-
5	SB	-
6	R	-
7	P	-
8	L	-
9	G	-
10	V	-
11	LG	-
13	Y	-
14	O	-
15	R	-

Connector No.	D6
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS02FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
17	PS	-
19	LG	-

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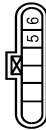
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

BCM (BODY CONTROL MODULE)

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	ERBEFY-RS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	G	-
3	P	-
4	B	-
5	R	-
6	L	-

Connector No.	D11
Connector Name	FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Type	RHOZFB



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

Connector No.	D12
Connector Name	FRONT OUTSIDE HANDLE LH (OUTSIDE KEY ANTENNA)
Connector Type	RHOZMGY



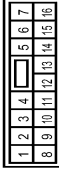
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	Y	-

Connector No.	D17
Connector Name	STEP LAMP (DRIVER SIDE)
Connector Type	COZFW



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

Connector No.	D45
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	NS18FW-GS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	L	-
3	R	-
4	L	-
5	LG	-
6	P	-
7	B	-
8	Y	-
9	G	-
10	O	-
11	B	-
12	Y	-
13	G	-
14	G	-
15	O	-
16	O	-

Connector No.	D48
Connector Name	FRONT DOOR LOCK ASSEMBLY (PASSENGER SIDE)
Connector Type	ERBEFY-RS



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

Connector No.	D59
Connector Name	FRONT OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Type	RHOZFB



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

Connector No.	D51
Connector Name	STEP LAMP (PASSENGER SIDE)
Connector Type	COZFW



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

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

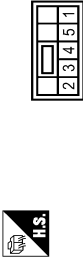
BCM (BODY CONTROL MODULE)

Connector No.	D82
Connector Name	FRONT OUTSIDE HANDLE RH (OUTSIDE KEY ANTENNA)
Connector Type	FR02M6Y



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

Connector No.	D83
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	P	-
3	SB	-
4	LG	-
5	L	-

Connector No.	D85
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	LE08FY-BS



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

Connector No.	D103
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	P	-
3	SB	-
4	LG	-
5	L	-

Connector No.	D105
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	LE08FY-BS



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

Connector No.	D156
Connector Name	LUGGAGE ROOM LAMP RH
Connector Type	CJ08FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
4	LG	-

Connector No.	D157
Connector Name	LUGGAGE ROOM LAMP LH
Connector Type	CJ08FW



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
4	LG	-

Connector No.	D178
Connector Name	AUTOMATIC BACK DOOR CLOSE SWITCH
Connector Type	TK08FGY



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

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

BCM (BODY CONTROL MODULE)

Connector No.	D179
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NSDBEW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	Y	-
4	G	-
5	L	-
6	W	-
7	LG	-
8	B	-

Connector No.	D180
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NSDBEW-CS



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

Connector No.	D188
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH84MW-NH



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

Connector No.	D183
Connector Name	REAR WIPER MOTOR
Connector Type	CU04FW-TV



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
3	GR	-
4	O	-

Connector No.	E16
Connector Name	ECU IN INTELLIGENT POWER DISTRIBUTION MODULE FRAME
Connector Type	TH8BEW-CS12-M4-TV



Terminal No.	Color Of Wire	Signal Name [Specification]
5	Y	-
7	GR	-
10	BR	-
12	B	-
13	SB	-
15	W	-
16	R	-
19	Y	-
20	L	-
21	O	-
22	SB	-
23	GR	-
24	G	-
26	Y	-
27	W	-
28	SB	-
30	BR	-
34	O	-
35	P	-
36	G	-
38	GR	-

Connector No.	E11
Connector Name	ECU IN INTELLIGENT POWER DISTRIBUTION MODULE FRAME
Connector Type	TH8BEW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	B	-
41	B	-
42	SB	-
43	Y	-
44	W	-
45	O	-
46	BR	-

Connector No.	E16
Connector Name	ECM
Connector Type	RP24FE-R28-L-H



Terminal No.	Color Of Wire	Signal Name [Specification]
81	W	ACCELERATOR PEDAL POSITION SENSOR 1
82	O	ACCELERATOR PEDAL POSITION SENSOR 2
83	BR	SENSOR POWER SUPPLY
84	B	SENSOR GROUND
85	Y	SENSOR GROUND
86	SB	EVAP CONTROL SYSTEM PRESSURE SENSOR
87	GR	SENSOR POWER SUPPLY
88	O	DATA LINK CONNECTOR
91	L	SENSOR POWER SUPPLY
92	BR	SENSOR GROUND
93	BR	IGNITION SWITCH
94	GR	ENGINE SPEED OUTPUT SIGNAL

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

BCM (BODY CONTROL MODULE)

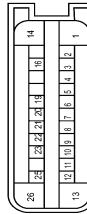
Terminal No.	Color Of Wire	Signal Name [Specification]
85	Y	FUEL TANK TEMPERATURE SENSOR
87	GR	STOP LAMP SWITCH
88	R	CAN COMMUNICATION LINE (CAN-L)
88	L	CAN COMMUNICATION LINE (CAN-H)
100	G	SENSOR GROUND
102	R	PNP SIGNAL
104	SB	SENSOR GROUND
105	V	POWER SUPPLY FOR ECM
106	SB	STOP LAMP SWITCH
107	B	ECM GROUND
108	B	ECM GROUND
109	W	EVAP CANISTER VENT CONTROL VALVE
110	G	ASD BRAKE SWITCH
111	B	ECM GROUND
112	B	ECM GROUND

Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	PK03FBR



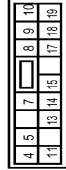
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
3	GR	-

Connector No.	E36
Connector Name	ABS ACTIVATION AND ELECTRIC IMT (CONTROL UNIT)
Connector Type	AE22FBAJZ4-LH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	VALVE / ECU SUPPLY
2	Y	WSS RL SIG (-)
3	L	WSS RL PWR (+)
4	GR	CLUSTER SUPPLY
5	B	WSS FR PWR (+)
6	W	WSS FR SIG (-)
7	LG	LIS
8	V	WSS FL SIG (-)
9	W	WSS FL PWR (+)
10	SB	CLUSTER GND
11	P	WSS RR PWR (+)
12	V	WSS RR SIG (-)
13	B/W	MOTOR GND
14	SB	MOTOR SUPPLY
15	BR	CAN 2 H
16	BR	IGN
20	GR	CAN 1 L
21	P	CAN 1 L
22	Y	VDC OFF SW
23	L	CAN 1 H
25	W	CAN 2 L
26	B/W	VALVE / ECU GND

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
11F	G	-
12F	V	-
13	L	-
14	LG	-
15	BR	-
16	Y	-
17	R	-
18	R	-
19	GR	-

Connector No.	E319
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	Z03FBR



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

Connector No.	E327
Connector Name	FRONT TURN SIGNAL LAMP LH
Connector Type	RS02FCY



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

Connector No.	E116
Connector Name	STOP LAMP SWITCH
Connector Type	MD0FW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	Y	-
4	Y	-

Connector No.	E318
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	Z03FBR



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

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

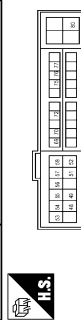
BCM (BODY CONTROL MODULE)

Connector No.	E32B
Connector Name	FRONT TURN SIGNAL LAMP RH
Connector Type	RS2ZEGY



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

Connector No.	F12
Connector Name	INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH2BFW-CS12-M4



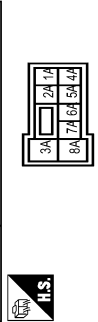
Terminal No.	Color Of Wire	Signal Name [Specification]
48	W	-
49	R/B	-
51	LG	-
52	Y/G	-
53	R/W	-
54	G/W	-
55	W/L	-
56	R/Y	-
57	O	-
58	Y	-
59	WB	-
60	G	-
72	R/B	-
75	LG	-
76	SB	-
77	GR	-
80	B	-

Connector No.	F23
Connector Name	TOM (TRANSMISSION CONTROL MODULE)
Connector Type	RH40FB-E2B-L-RH



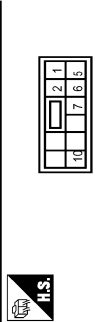
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	TRANSMISSION RANGE SWITCH 2
2	P/B	TRANSMISSION RANGE SWITCH 2
3	G/O	TRANSMISSION RANGE SWITCH 4
4	GR	TRANSMISSION RANGE SWITCH 3 (MONITOR)
5	B	GROUND
7	W	SENSOR GROUND
8	G/W	CLOCK (SEL.2)
9	L/R	CHP SELECT (SEL.1)
10	BR/R	DATA I/O (SEL.3)
11	BR/W	TRANSMISSION RANGE SWITCH 1
13	V	CVT FLUID TEMPERATURE SENSOR
14	R/W	PRIMARY PRESSURE SENSOR
15	V/W	SECONDARY PRESSURE SENSOR
18	G/B	REVERSE LAMP-RELAY
19	R/B	SENSOR GROUND
25	W/B	SENSOR GROUND
26	L/O	SENSOR POWER
27	R/G	STEP MOTOR C
28	R	STEP MOTOR B
29	O/B	STEP MOTOR A
30	G/R	STEP MOTOR A
31	P	CAN-H
32	L	CAN-L
33	LG	PRIMARY SPEED SENSOR
34	LG/R	SECONDARY SPEED SENSOR
37	V/R	LOOK-UP SELECT SOLENOID VALVE
38	L/W	TORQUE CONVERTER CLUTCH SOLENOID VALVE
39	W/B	SECONDARY PRESSURE SOLENOID VALVE
40	P/Y	LINE PRESSURE SOLENOID VALVE
42	B	GROUND
46	Y	POWER SUPPLY
47	L/R	POWER SUPPLY (MEMORY BACK-UP)
48	Y	POWER SUPPLY

Connector No.	MT
Connector Name	FUSE BLOCK (J/B)
Connector Type	NSR6FW-M2



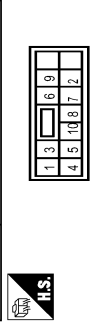
Terminal No.	Color Of Wire	Signal Name [Specification]
3A	G	-
3A	Y	-
4A	GR	-
7A	LG	-
8A	Y	-

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



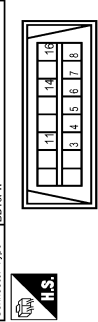
Terminal No.	Color Of Wire	Signal Name [Specification]
1B	W	-
3B	L	-
4B	G	-
5B	L	-
5B	Y	-
7B	R	-
8B	SB	-
9B	GR	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
11C	SB	-
12C	O	-
8C	BR	-
7C	B	-
8C	G	-
9C	GR	-

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD18FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	BR	-
8	SB	-
14	P	-
16	Y	-

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

BCM (BODY CONTROL MODULE)

Connector No.	M17
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



Terminal No.	Color	Wire	Signal Name [Specification]
1	V	1	GROUND
2	Y	2	GROUND
3	P	3	GROUND

Connector No.	M21
Connector Name	TIRE PRESSURE RECEIVER
Connector Type	TK05FW



Terminal No.	Color	Wire	Signal Name [Specification]
1	P	1	GROUND
2	O	2	SIGNAL
4	V	4	POWER

Connector No.	M24
Connector Name	COMBINATION METER
Connector Type	TK40FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
1	G	1	BATTERY POWER SUPPLY
2	G	2	IGNITION
3	B	3	GROUND
4	B	4	GROUND
5	SB	5	ILLUMINATION CONTROL SIGNAL
8	SB	8	TRIP RESET SIGNAL
9	W	9	SW ILL POWER
10	LG	10	METER CONTROL SWITCH GROUND
11	L	11	ENTER SWITCH SIGNAL
12	R	12	SELECT SWITCH SIGNAL
13	V	13	ILLUMINATION CONTROL SWITCH SIGNAL (-)
14	GR	14	ILLUMINATION CONTROL SWITCH SIGNAL (+)
15	BR	15	AIR BAG SIGNAL
16	L	16	AMBIENT SENSOR SIGNAL
17	P	17	AMBIENT SENSOR POWER
18	Y	18	AMBIENT SENSOR GROUND
20	L	20	CAN-L
21	P	21	CAN-H
22	B	22	GROUND
23	B	23	FUEL LEVEL SENSOR GROUND
24	W	24	ALTERNATOR SIGNAL
25	BR	25	PARKING BRAKE SWITCH SIGNAL
26	G	26	WASHER LEVEL SWITCH SIGNAL
27	V	27	WASHER LEVEL SWITCH SIGNAL
29	R	29	VEHICLE SPEED SIGNAL (2-PULSE)
30	P	30	VEHICLE SPEED SIGNAL (8-PULSE)
31	V	31	OVERDRIVE CONTROL SWITCH SIGNAL
32	LG	32	FUEL LEVEL SENSOR SIGNAL
34	G	34	FUEL LEVEL SENSOR SIGNAL
35	SB	35	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
36	R	36	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TK04FW



Terminal No.	Color	Wire	Signal Name [Specification]
1	B	1	GROUND
2	B	2	GROUND
3	B	3	GROUND
4	R/Y	4	GROUND

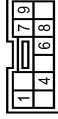
Connector No.	M50
Connector Name	A/C AUTO AMP
Connector Type	SN40FW



Terminal No.	Color	Wire	Signal Name [Specification]
1	L	1	CAN-H
2	P	2	CAN-L
6	L	6	TX AMP SW & DISP
7	P	7	RX (SW AMP)
10	G	10	LAN SIG (Without colour display)
10	L	10	LAN SIG (With colour display)
11	R	11	VACTR
15	BR	15	SUN SENS
16	G	16	INTAKE SENS (With colour display)
16	G	16	INTAKE SENS (Without colour display)
19	B	19	IGN
20	G	20	RR DEF F/B
26	GR	26	RR DEF ON
27	BR	27	RR DEF ON
32	L	32	FAN PWM
34	P	34	AMB POWER (With colour display)

34	V	AMB POWER (Without colour display)
35	G	AMB SENS (Without colour display)
35	L	AMB SENS (With colour display)
36	LG	INCAR SENS
37	SB	SENS GND (Without colour display)
37	Y	SENS GND (With colour display)
39	B	GND (POWER)
40	Y	BAT

Connector No.	M57
Connector Name	CVT SHIFT SELECTOR
Connector Type	TK10FW



Terminal No.	Color	Wire	Signal Name [Specification]
1	LG	1	GROUND
4	B	4	GROUND
6	P	6	GROUND
7	B	7	GROUND
8	Y	8	GROUND
9	V	9	GROUND

Connector No.	M78
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	JAB04FB



Terminal No.	Color	Wire	Signal Name [Specification]
1	P	1	GROUND
2	P	2	SIGNAL
4	L	4	+12V

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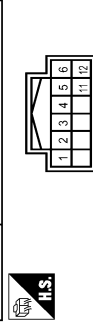
BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

BCM (BODY CONTROL MODULE)

Connector No.	M189
Connector Name	KEY SLOT
Connector Type	TH12FW-NH



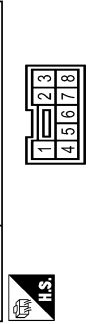
Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BAT
2	O	LOCK
3	O	DATA
4	GR	ILL BATT
5	R	ILL
6	R	GROUND
7	B	KEY SWITCH SIGNAL
11	Y	

Connector No.	M100
Connector Name	SECURITY INDICATOR LAMP
Connector Type	TR16ZFB



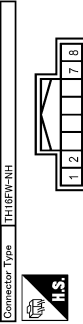
Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	
2	O	

Connector No.	M101
Connector Name	PUSH-BUTTON:IGNITION SWITCH
Connector Type	TK08FBR



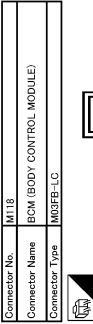
Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	
2	O	
3	W	
4	BR	
5	R	
6	L	
7	P	
8	GR	

Connector No.	M103
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



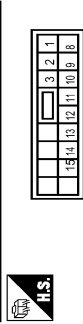
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	
2	Y	OUTPUT 4
3	BG	FR
4	W	IGN
5	W	GROUND 3
6	B	GROUND
7	GR	INPUT 3
8	L	OUTPUT 5
9	SB	INPUT 2
10	P	INPUT 4
11	O	INPUT 1
12	W	OUTPUT 1

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M08FE-LC



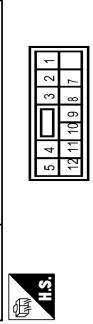
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	GR	POWER WINDOW POWER SUPPLY (BAT)
3	L	POWER WINDOW POWER SUPPLY (IGN)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	HS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	P/W	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
7	W	STEP LAMP CONT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	W	REAR DOOR UNLOCK OUTPUT
11	L	BAT (L/SE)
13	B	GROUND
14	O	PUSH-BUTTON:IGNITION SW ILL GND
15	L	ACC IND
17	G	TURN SIGNAL RH
18	BR	TURN SIGNAL LH
19	Y	INT ROOM LAMP CONT

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



Terminal No.	Color Of Wire	Signal Name [Specification]
23	BR	BACK DOOR OPEN OUTPUT
29	G	REAR WIPER OUTPUT

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH46FCY-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
34	B	LUGGAGE ROOM ANT-
35	W	LUGGAGE ROOM ANT+
38	L	REAR BUMPER ANT-
39	BR	REAR BUMPER ANT+
47	L	IGN RELAY (PDM E/R) CONT
52	R	STARTER RELAY CONT
60	BR	PUSH SW
61	R	BACK DOOR OPENER REQUEST SW
64	GR	TRAY WASH BUZZER
65	O	REAR WIPER STOP POSITION
67	Y	TRAY WASH BUZZER
69	L	BACK DOOR OPENER SW
68	W	REAR RH DOOR SW
69	R	REAR LH DOOR SW

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

BCM (BODY CONTROL MODULE)

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH46EB-NH



Terminal No.	Wire	Signal Name [Specification]
72	B	ROOM ANT-
73	W	ROOM ANT+
74	Y	PASSENGER DOOR ANT-
75	LG	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	P	DRIVER DOOR ANT+
80	SB	NATS ANT AMP
81	O	NATS ANT AMP
82	BR	IGN RELAY (F/B) CONT
83	P	KEYLESS ENTRY RECEIVER COMM
87	R	COMBI SW INPUT 5
88	GR	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
92	R	KEY SLOT ILL CONT
93	P	ACC RELAY CONT
95	L	ACC RELAY CONT
96	Y	CVT SHIFT SELECTOR POWER SUPPLY
99	V	SHIF P
100	P	PASSENGER DOOR REQUEST SW
101	W	DRIVER DOOR REQUEST SW
102	Y	BLOWER RELAY CONT
103	L	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	O	COMBI SW INPUT 1
108	P	COMBI SW INPUT 4
109	SB	COMBI SW INPUT 2
110	G	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH46FG-NH



Terminal No.	Wire	Signal Name [Specification]
112	R	RAIN SENSOR SERIAL LINK
113	CB	STOP LAMP SW 1
114	CR	STOP LAMP SW 2
118	L	DR DOOR UNLOCK SENSOR
119	W	KEY SLOT SW
121	Y	IGN F/B
123	G	PASSENGER DOOR SW
124	R	REAR DEFOGGER SW
130	BR	POWER WINDOW SW COMM
132	G	PUSH-BUTTON IGNITION SW ILL POWER
133	W	LOOK IND
134	R	RECEIVER SENSOR GND
137	P	RECEIVER SENSOR POWER SUPPLY
138	V	TIRE PRESS RECEIVER COMM
139	G	SECURITY AND ALARM CONT
140	GR	COMBI SW OUTPUT 1
141	O	COMBI SW OUTPUT 2
142	L	COMBI SW OUTPUT 3
143	W	COMBI SW OUTPUT 4
144	P	COMBI SW OUTPUT 5
145	V	COMBI SW OUTPUT 6
146	Y	DRIVER DOOR SW
150	SB	REAR WINDOW DEFOGGER RELAY CONT
151	G	REAR WINDOW DEFOGGER RELAY CONT

Connector No.	M174
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Wire	Signal Name [Specification]
75	LG	AV COMM (L)
76	LG	AV COMM (L)
78	SR	AV COMM (L)
79	SR	AV COMM (H)
80	P	CAN-H
81	L	CAN-L
82	V	SW GND
85	SHIELD	SHIELD
87	R	TEL VOICE SIGNAL (-)
88	L	TEL VOICE SIGNAL (+)
92	V	VEHICLE SPEED SIGNAL (8-PULSE)
93	G	PARKING BRAKE (Without EBS system)
94	SB	REVERSE
95	G	IGNITION
96	W	DISK EJECT SIGNAL
98	W	AV COMM (L)
102	B	AV SOUND SIGNAL (L)
103	B	AV SOUND SIGNAL (L)
104	R	AUX SOUND SIGNAL PH (-)



Connector No.	M282
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Type	IK02PEGY

Terminal No.	Color Of Wire	Signal Name [Specification]
65	LC	PARKING BRAKE
67	LG	-
68	LG	-
71	SHIELD	SHIELD
72	B	MICROPHONE VCC
73	R	COMM (CONT-DISP)
74	P	CAN-L
75	LG	AV COMM (L)
76	LG	AV COMM (L)
79	R	ILLUMINATION SIGNAL
80	G	IGNITION
81	SB	REVERSE
82	V	VEHICLE SPEED SIGNAL (8-PULSE)
83	B	-
84	B	MICROPHONE SIGNAL
88	B	-
89	W	-
90	L	CAN-H
91	SB	AV COMM (H)
92	SB	AV COMM (H)

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

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BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

BCM (BODY CONTROL MODULE)

Connector No.	RT0
Connector Name	VANITY MIRROR LAMP (PASSENGER SIDE)
Connector Type	MCA02FW



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

Connector No.	RI9
Connector Name	MAP LAMP
Connector Type	TK06FCY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P/W	-
2	Y	-
3	B	-
4	SB	-
5	R/Y	-
6	R/L	-

Connector No.	RE1
Connector Name	PERSONAL LAMP
Connector Type	TH04FW-NH



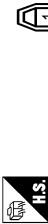
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P/W	-
2	B	-
3	SB	-

Connector No.	RE3
Connector Name	RAIN SENSOR
Connector Type	JAAB03FB



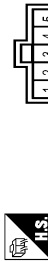
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y/R	-
2	R	-
3	B	-

Connector No.	RE4
Connector Name	VANITY MIRROR LAMP (DRIVER SIDE)
Connector Type	MCA02FW



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

Connector No.	RI01
Connector Name	SUNROOF MOTOR ASSEMBLY
Connector Type	YEADFCY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	O	GROUND
3	L	IGN
4	Y	PUSH SW
5	LG	OPEN SW
6	R	BAT
7	P	COMM
8	BR	VEHICLE SPEED (2-PULSE)
9	W	2ND SW
10	V	CLOSE SW

Connector No.	RI02
Connector Name	SUNSHADE MOTOR ASSEMBLY
Connector Type	YEADFCY



Terminal No.	Color Of Wire	Signal Name [Specification]
6	B	GROUND
7	O	GROUND
8	P	COMM
8	BR	VEHICLE SPEED (2-PULSE)

Fail-safe

FAIL-SAFE CONTROL BY DTC

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

JRMWE5840GB

INFOID:000000010044859

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Display contents of CONSULT	Fail-safe	Cancellation
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
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent <ul style="list-style-type: none"> • Starter control relay signal • Starter relay status signal
B2608: STARTER RELAY	Inhibit engine cranking	500 ms after the following signal communication status becomes consistent <ul style="list-style-type: none"> • Starter motor relay control signal • Starter relay status signal (CAN)
B260A: IGNITION RELAY	Inhibit engine cranking	500 ms after the following conditions are fulfilled <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Power position changes to ACC • Receives engine status signal (CAN)
B2617: STARTER RELAY CIRC	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization

HIGH FLASHER OPERATION

BCM detects the turn signal lamp circuit status by the current value.

BCM increases the turn signal lamp blinking speed if the bulb or harness open is detected with the turn signal lamp operating.

NOTE:

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

FAIL-SAFE CONTROL BY RAIN SENSOR MALFUNCTION

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

NOTE:

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

REAR WIPER MOTOR PROTECTION

BCM detects the rear wiper stopping position according to the rear wiper stop position signal.

When the rear wiper stop position signal does not change for more than 5 seconds while driving the rear wiper, BCM stops power supply to protect the rear wiper motor.

Condition of cancellation

1. More than 1 minute is passed after the rear wiper stop.
2. Turn rear wiper switch OFF.
3. Operate the rear wiper switch or rear washer switch.

DTC Inspection Priority Chart

INFOID:000000010044860

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

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Priority	DTC
1	B2562: LOW VOLTAGE
2	<ul style="list-style-type: none">• U1000: CAN COMM• U1010: CONTROL UNIT(CAN)
3	<ul style="list-style-type: none">• B2190: NATS ANTENNA AMP• B2191: DIFFERENCE OF KEY• B2192: ID DISCORD BCM-ECM• B2193: CHAIN OF BCM-ECM• B2195: ANTI SCANNING
4	<ul style="list-style-type: none">• B2553: IGNITION RELAY• B2555: STOP LAMP• B2556: PUSH-BTN IGN SW• B2557: VEHICLE SPEED• B2560: STARTER CONT RELAY• B2601: SHIFT POSITION• B2602: SHIFT POSITION• B2603: SHIFT POSI STATUS• B2604: PNP SW• B2605: PNP SW• B2608: STARTER RELAY• B260A: IGNITION RELAY• B260F: ENG STATE SIG LOST• B2614: ACC RELAY CIRC• B2615: BLOWER RELAY CIRC• B2616: IGN RELAY CIRC• B2617: STARTER RELAY CIRC• B2618: BCM• B261A: PUSH-BTN IGN SW• B261E: VEHICLE TYPE• B26EA: KEY REGISTRATION• C1729: VHCL SPEED SIG ERR• U0415: VEHICLE SPEED SIG
5	<ul style="list-style-type: none">• C1704: LOW PRESSURE FL• C1705: LOW PRESSURE FR• C1706: LOW PRESSURE RR• C1707: LOW PRESSURE RL• C1708: [NO DATA] FL• C1709: [NO DATA] FR• C1710: [NO DATA] RR• C1711: [NO DATA] RL• C1716: [PRESSDATA ERR] FL• C1717: [PRESSDATA ERR] FR• C1718: [PRESSDATA ERR] RR• C1719: [PRESSDATA ERR] RL• C1734: CONTROL UNIT
6	<ul style="list-style-type: none">• B2622: INSIDE ANTENNA• B2623: INSIDE ANTENNA

DTC Index

INFOID:000000010044861

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 [BCS-18. "COMMON ITEM : CONSULT Function \(BCM - COMMON ITEM\)"](#).

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference	
No DTC is detected. further testing may be required.	—	—	—	—	—	A
U1000: CAN COMM	—	—	—	—	BCS-42	B
U1010: CONTROL UNIT(CAN)	—	—	—	—	BCS-43	C
U0415: VEHICLE SPEED SIG	—	—	—	—	BCS-44	D
B2190: NATS ANTENNA AMP	×	—	—	—	SEC-42	E
B2191: DIFFERENCE OF KEY	×	—	—	—	SEC-45	F
B2192: ID DISCORD BCM-ECM	×	—	—	—	SEC-46	G
B2193: CHAIN OF BCM-ECM	×	—	—	—	SEC-48	H
B2195: ANTI SCANNING	×	—	—	—	SEC-49	I
B2553: IGNITION RELAY	—	×	—	—	PCS-50	J
B2555: STOP LAMP	—	×	—	—	SEC-50	DLK
B2556: PUSH-BTN IGN SW	—	×	×	—	SEC-52	K
B2557: VEHICLE SPEED	×	×	×	—	SEC-54	L
B2560: STARTER CONT RELAY	×	×	×	—	SEC-55	M
B2562: LOW VOLTAGE	—	×	—	—	BCS-45	N
B2601: SHIFT POSITION	×	×	×	—	SEC-56	O
B2602: SHIFT POSITION	×	×	×	—	SEC-59	P
B2603: SHIFT POSI STATUS	×	×	×	—	SEC-61	
B2604: PNP SW	×	×	×	—	SEC-64	
B2605: PNP SW	×	×	×	—	SEC-66	
B2608: STARTER RELAY	×	×	×	—	SEC-68	
B260A: IGNITION RELAY	×	×	×	—	PCS-52	
B260F: ENG STATE SIG LOST	×	×	×	—	SEC-70	
B2614: ACC RELAY CIRC	—	×	×	—	PCS-54	
B2615: BLOWER RELAY CIRC	—	×	×	—	PCS-57	
B2616: IGN RELAY CIRC	—	×	×	—	PCS-60	
B2617: STARTER RELAY CIRC	×	×	×	—	SEC-72	
B2618: BCM	×	×	×	—	PCS-63	
B261A: PUSH-BTN IGN SW	—	×	×	—	SEC-75	
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	—	SEC-78	
B2622: INSIDE ANTENNA	—	×	—	—	DLK-91	
B2623: INSIDE ANTENNA	—	×	—	—	DLK-93	
B26EA: KEY REGISTRATION	—	×	× (Turn ON for 15 seconds)	—	SEC-71	
C1704: LOW PRESSURE FL	—	—	—	×	WT-23	
C1705: LOW PRESSURE FR	—	—	—	×		
C1706: LOW PRESSURE RR	—	—	—	×		
C1707: LOW PRESSURE RL	—	—	—	×		

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle Condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Reference
C1708: [NO DATA] FL	—	—	—	×	WT-25
C1709: [NO DATA] FR	—	—	—	×	
C1710: [NO DATA] RR	—	—	—	×	
C1711: [NO DATA] RL	—	—	—	×	
C1716: [PRESSDATA ERR] FL	—	—	—	×	WT-28
C1717: [PRESSDATA ERR] FR	—	—	—	×	
C1718: [PRESSDATA ERR] RR	—	—	—	×	
C1719: [PRESSDATA ERR] RL	—	—	—	×	
C1729: VHCL SPEED SIG ERR	—	—	—	×	WT-29
C1734: CONTROL UNIT	—	—	—	×	WT-30

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR CONTROL UNIT

Reference Value

INFOID:000000009719123

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
VHCL SPEED MTR	While driving		Equivalent to speedometer reading
VHCL SPEED ABS	While driving		Equivalent to speedometer reading
MAIN SW	Automatic back door main switch	OFF	OFF
		ON	ON
AUTO BD SW	Automatic back door switch	Release	OFF
		Press	ON
BK DOOR CL SW	Automatic back door close switch	Release	OFF
		Press	ON
UNLOCK SEN DR	Door lock (driver)	Unlock	OFF
		Lock	ON
OPEN SW	Back door latch	Half latch/fully closed	OFF
		Open	ON
CLOSE SW	Back door latch	Open/half latch/closed	OFF
		Fully closed	ON
HALF LATCH SW	Back door	Half latch/fully closed	OFF
		Open	ON
TOUCH SEN RH	Touch sensor RH	Other than bellow	OFF
		Detect obstruction	ON
TOUCH SEN LH	Touch sensor LH	Other than bellow	OFF
		Detect obstruction	ON
P RANGE IND	Selector lever	Other than P position	OFF
		P position	ON
RKE REQ	Intelligent Key button (back door)	Release	OFF
		Press (more than 0.5 second)	MOVE
		Press (just after)	REV
IGN SW	Ignition switch	Other than ON position	OFF
		ON position	ON
ENCODER A	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO
ENCODER B	Automatic back door	Not operate	No change HI or LO
		Operate	Change HI or LO
BD OPENER SW	Back door opener switch	Release	OFF
		Press	ON
UNLOCK SEN BD	Door lock (back door)	Unlock	OFF
		Lock	ON

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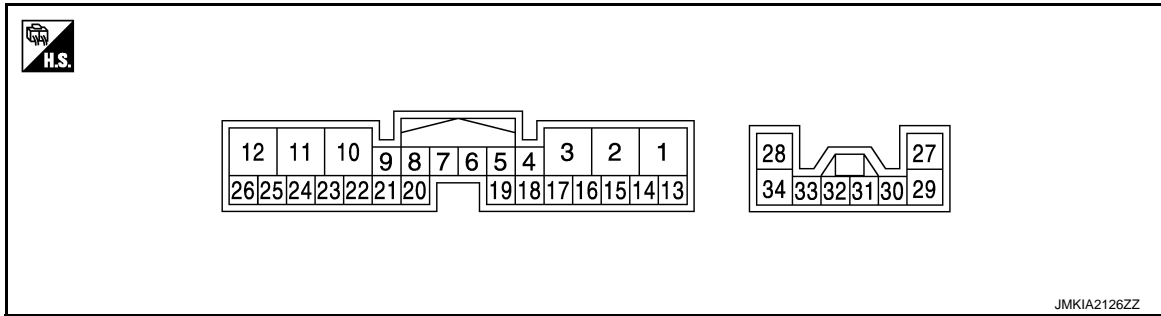
AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Monitor Item	Condition	Value/Status
DESTINATION	—	NAM
HAZARD	—	ON

TERMINAL LAYOUT



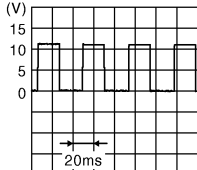
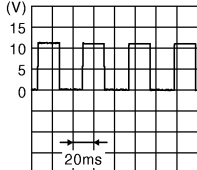
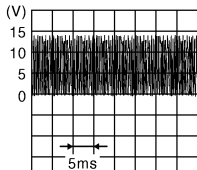
PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(-)	Signal name	Input/ Output			
1 (BR)	Ground	Automatic back door warning buzzer	Output	Automatic back door warning buzzer	Sounds	0
					Other than above	Battery voltage
2 (Y)	Ground	Automatic back door switch signal	Input	Automatic back door switch	Pressed	0
					Other than above	Battery voltage
4 (Y)	Ground	Automatic back door close switch signal	Input	Automatic back door close switch	Pressed	0
					Other than above	Battery voltage
6 (L)	Ground	CAN - H	Input/ Output	—		—
7 (P)	Ground	CAN - L	Input/ Output	—		—
8 (LG)	Ground	Half latch switch signal	Input	Back door (open → ajar or closed)		0 → Battery voltage
9 (GR)	Ground	Power supply (IGN)	Input	Ignition switch ON		Battery voltage
10 (SB)	Ground	Power supply (BAT)	Input	—		Battery voltage
11 (V)	Ground	Back door closure motor (close)	Output	Back door closure	Close operation	Battery voltage
					Other than above	0
12 (R)	Ground	Back door closure motor (open)	Output	Back door closure	Open operation	Battery voltage
					Other than above	0
14 (V)	Ground	Touch sensor LH signal	Input	Touch sensor LH	Detect obstruction	0
					Other than above	6
15 (O)	Ground	Touch sensor ground	Input	—		0
16 (W)	Ground	Touch sensor RH signal	Input	Touch sensor RH	Detect obstruction	0
					Other than above	6
17 (LG)	Ground	Automatic back door main switch signal	Input	Automatic back door main switch	ON	Battery voltage
					OFF	0

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition		Voltage (V) (Approx.)
(+)	(-)	Signal name	Input/ Output			
19 (P)	Ground	Close switch signal	Input	Back door lock	Fully closed	0
					Open/half latch	Battery voltage
20 (L)	Ground	Open switch signal	Input	Back door lock	Open	0
					Half latch/fully closed	Battery voltage
21 (B)	Ground	Ground (destination)	—	—	—	0
22 (B)	Ground	Ground (Hazard re- minder)	—	—	—	0
23 (GR)	Ground	Encoder ground	—	—	—	0
24 (BR)	Ground	Encoder B signal	Input	Back door motor	Moving	 <small>JMKIA1864ZZ</small>
					Other than above	0/Battery voltage
25 (Y)	Ground	Encoder A signal	Input	Back door motor	Moving	 <small>JMKIA1864ZZ</small>
					Other than above	0/Battery voltage
26 (G)	Ground	Encoder power supply	Output	—	—	Battery voltage
27 (L/B)	Ground	Automatic back door motor (open)	Input	Power back door	Active (open)	Battery voltage
					Active (close)	 <small>JMKIA1865ZZ</small>
					Other than above	0
28 (R)	Ground	Power supply (BAT)	Input	—	—	Battery voltage

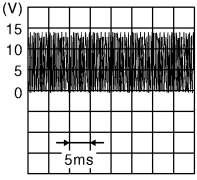
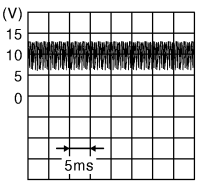
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AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No. (Wire color)		Description		Condition	Voltage (V) (Approx.)	
(+)	(-)	Signal name	Input/ Output			
29 (L/W)	Ground	Automatic back door motor (close)	Input	Power back door	Active (close)	Battery voltage
				Power back door	Active (open)	
				Power back door	Other than above	0
32 (L/O)	Ground	Ground (clutch)	—	—	0	
33 (W/L)	Ground	Clutch power supply	Input	Power back door	Active	
				Power back door	Other than above	0
34 (B)	Ground	Ground	—	—	0	

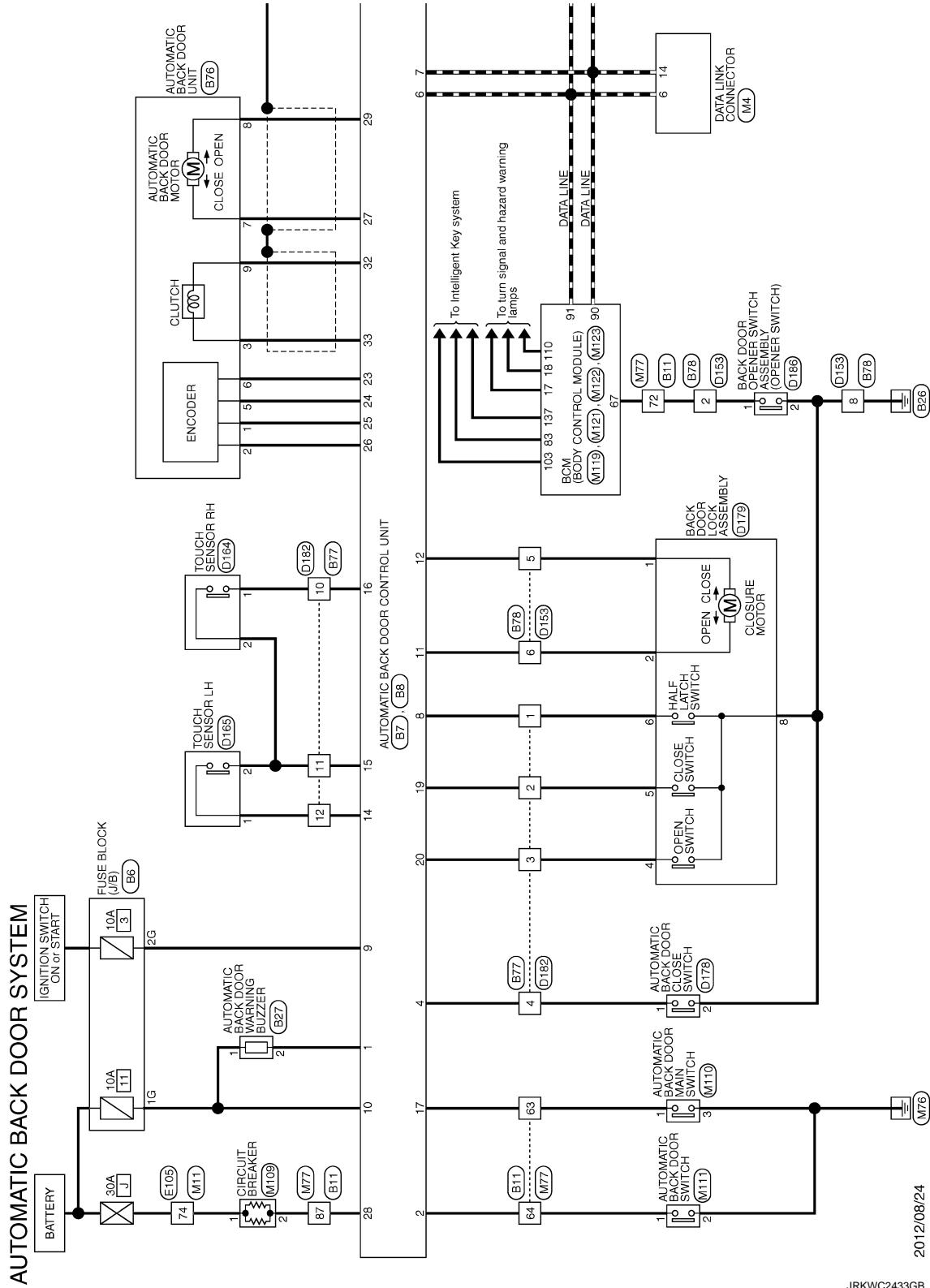
AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Wiring Diagram - AUTOMATIC BACK DOOR CONTROL SYSTEM -

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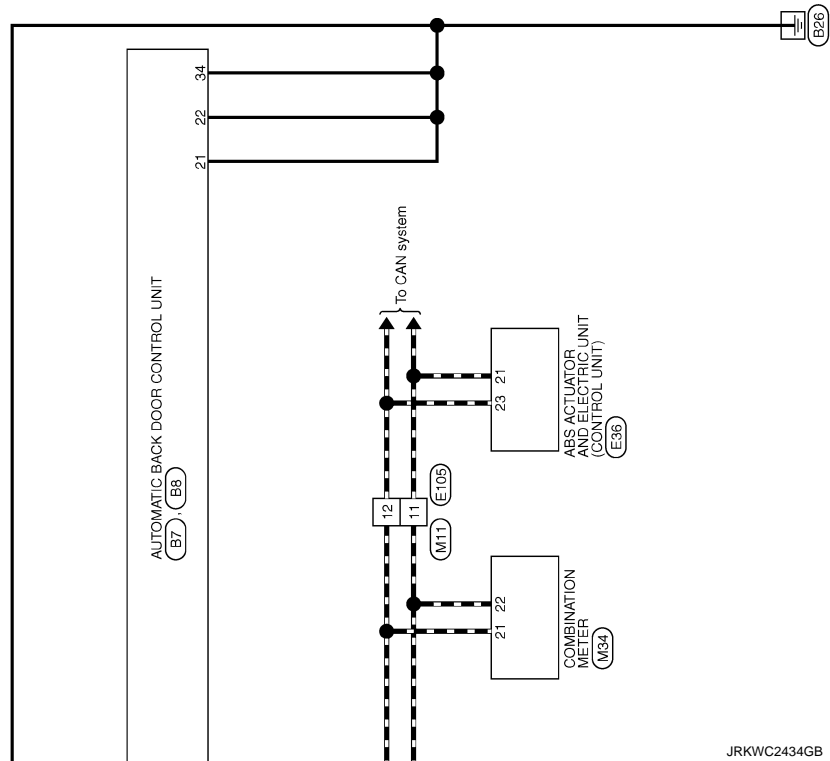
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AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]



JRKWC2434GB

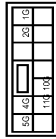
AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

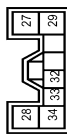
AUTOMATIC BACK DOOR SYSTEM

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS1ZPBR-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1B3	Y	-
2	Y	-
LG	SB	-
2G	GR	-
4G	L	-
5G	P	-

Connector No.	B7
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	TBD4FW-TM4



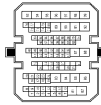
Terminal No.	Color Of Wire	Signal Name [Specification]
27	L/B	ABD MTR (OPEN)
28	R	BAT
29	L/W	ABD MTR (CLOSE)
32	L/O	CLUTCH GND
33	W/L	CLUTCH PWR
34	B	GROUND

Connector No.	B8
Connector Name	AUTOMATIC BACK DOOR CONTROL UNIT
Connector Type	TH2DFW-TB8



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	BUZZER
2	Y	IGN
4	Y	ABD CLOSE SW
6	L	CAN-H
7	P	CAN-L
8	LG	HALF LATCH SW
9	GR	IGN
10	SB	BAT
11	V	CLOSURE MTR (CLOSE)
12	R	CLOSURE MTR (OPEN)
14	V	TOUCH SENS LH
15	O	TOUCH SENS GND
16	W	TOUCH SENS RH
17	LG	DIAG SW
18	P	CLOSE SW
20	L	GROUND
21	B	GROUND
22	B	GROUND
23	GR	GROUND
24	BR	ENCODER B
25	Y	ENCODER A
26	G	ENCODER PWR

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH5BDMW-CS19



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	Y	-
3	B	-
4	R/W	-
6	P	-
7	V	-
8	SHIELD	-
9	BR/L	-
10	Y/G	-
11	Y/L	-
12	W/L	-
13	L	-
14	BR	-
15	SB	-
16	GR	-
18	SB	-
19	R	-
20	P	-
21	LG	-
22	W	-
23	Y	-
24	GR	-
25	Y	-
27	V	-
28	R	-
30	P	-
31	BR	-
32	BR	-
34	SHIELD	-
36	G	-
37	LG	-
40	Y	-
41	GR	-

42	G	-
43	G	-
46	L	-
47	SB	-
47	V	-
48	GR	-
48	SHIELD	-
49	B	-
49	BR	-
50	G	-
50	R/W	-
51	R	-
51	R/L	-
52	B	-
53	Y	-
54	LG	-
54	BR	-
56	P	-
57	L	-
58	R	-
59	R	-
59	SHIELD	-
60	B	-
60	Y	-
61	R/L	-
62	R/W	-
63	LG	-
64	Y	-
65	BR	-
66	R	-
66	V	-
67	G	-
67	GR	-
68	BR	-
68	R	-
69	SHIELD	-
70	W/R	-
71	B/R	-
72	Y	-
73	LG	-
74	SB	-
75	L	-
76	G	-
79	B	-
80	W	-
81	R	-
82	L	-

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AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

83	BR	-
84	G	-
85	G	-
86	SB	-
87	R	-
88	G	-
89	GR	-
90	Y	-
91	G	-
92	BR	-
93	G	-
94	V	-
95	BR	-
96	GR	-
97	L	-
98	LG	-
99	O	-

Connector No.	B27
Connector Name	AUTOMATIC BACK DOOR WARNING BUZZER
Connector Type	TK02FBR



Terminal No.	Wire	Signal Name [Specification]
1	SB	-
2	BR	-

Connector No.	B76
Connector Name	AUTOMATIC BACK DOOR UNIT
Connector Type	TEB8FEW-TM2



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	W/L	-
3	W/L	-
4	BR	-
5	BR	-
6	GR	-
7	L/B	-
8	L/W	-
9	L/O	-

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TK12MW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	P	-
3	L	-
4	W	-
5	R/L	-
6	R/W	-
7	R/W	-
8	B	-
9	SHIELD	-
10	W	-
11	O	-
12	V	-

Connector No.	B78
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-GS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	V	-
3	SB	-
4	R	-
5	R	-
6	V	-
7	B	-
8	B	-
9	L	-
10	R	-
11	P	-
12	W	-
13	GR	-
14	G	-
15	Y	-
16	BR	-

Connector No.	D153
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-GS



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

8	L	-
9	R	-
10	O	-
11	W	-
12	W	-
13	GR	-
14	G	-
15	O	-
16	BR	-

Connector No.	D164
Connector Name	TOUCH SENSOR RH
Connector Type	TK02MGY



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

Connector No.	D165
Connector Name	TOUCH SENSOR LH
Connector Type	TK02BMW



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

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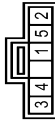
AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

Connector No.	D178
Connector Name	AUTOMATIC BACK DOOR CLOSE SWITCH
Connector Type	TR08E5Y



Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	-
2	B	-
3	G	-
4	LG	-

Connector No.	D179
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	INS08PW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	V	-
4	G	-
5	L	-
6	W	-
7	LG	-
8	B	-

Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	TK12FW



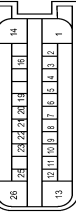
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	G	-
3	L	-
4	O	-
5	W	-
6	R	-
7	G	-
8	B	-
9	SHIELD	-
10	LG	-
11	O	-
12	G	-

Connector No.	D188
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TH04MM-NH



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

Connector No.	E18
Connector Name	ABS ACTUATOR AND ELECTRIC PART (CONTROL UNIT)
Connector Type	AE222FB-AE24-LH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	VALVE / ECU SUPPLY
2	L	WSS FL PWR (+)
3	L	WSS RL PWR (+)
4	GR	CLUSTER SUPPLY
5	B	WSS FR PWR (+)
6	W	WSS FR SIG (-)
7	LG	LIS
8	V	WSS FL SIG (-)
9	W	WSS FL PWR (-)
10	SB	CLUSTER GND
11	P	WSS RR PWR (+)
12	V	WSS RR SIG (-)
13	B/W	MOTOR GND
14	G	MOTOR SUPPLY
16	SB	BLS
17	W	WSS FL SIG (+)
18	Y	CLZ H
19	GR	CLZ Y
21	P	CAN 1 L
22	Y	NOG OFF SW
23	L	CAN 1 H
25	W	CAN 2 L
26	B/W	VALVE / ECU GND

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH08MM-CS19-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	-
4	L	-
5	GR	-
6	G	-
8	P	-
11	P	-
12	L	-
13	Y	-
14	O	-
15	BR	-
20	Y	-
21	BR	-
22	P	-
24	L	-
25	O	-
28	SB	-
29	Y	-
30	Y	-
38	R	-
39	L	-
40	B	-
47	P	-
48	L	-
49	SB	-
50	GR	-
51	LG	-
52	V	-
53	GR	-
54	BR	-
55	Y	-
60	W	-
61	V	-
61	BR	-
62	O	-
63	L/O	-
64	SHIELD	-
65	W	-

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AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

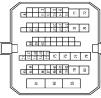
Terminal No.	Color Of Wire	Signal Name [Specification]
67	BR	-
68	SP	-
69	SB	-
70	GR	-
71	SB	-
72	Y	-
73	L	-
74	W	-
75	BR	-
76	GR	-
77	O	-
78	G	- [With iPod without navigation system]
78	V	- [Without iPod and navigation system]
79	Y	-
80	R	-
81	W	-
82	LG	-
83	O	-

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD1BFW



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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH10FW-CS10-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
3	BR	-
5	O	-
6	G	-
8	P	-
11	L	-
12	V	-
13	Y	-
14	R	-
15	R	-
20	W	- [Without colour display]
20	Y	- [With colour display]
21	BR	-
22	LG	-
24	L	-
25	L	-
26	BR	-
28	L	-
30	R	-
38	R	-
39	L	-
40	B	-
47	P	-
48	L	-
49	W	-
50	GR	-
51	LG	-
52	V	-
53	Y	-
54	SB	-
55	P	-
56	LG	-
60	V	-
61	GR	-
62	BR	-
63	V	-

Terminal No.	Color Of Wire	Signal Name [Specification]
64	SHIELD	-
66	W	-
67	R	-
68	W	-
69	P	-
70	G	-
71	G	-
72	BR	-
73	L	-
74	W	-
75	BR	-
76	R	-
77	G	-
78	Y	-
79	Y	-
80	S	-
81	W	-
82	W	-
83	RG	-

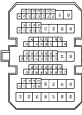
Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH4GFW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BATTERY POWER SUPPLY
2	LG	IGN SIGNAL
3	B	GROUND
4	B	ILLUMINATION CONTROL SIGNAL
5	SB	TRIP RESET SIGNAL
8	SB	SWELL POWER GROUND
9	W	SWELL POWER GROUND
11	L	SELECT SWITCH SIGNAL
12	R	SELECT SWITCH SIGNAL
13	V	ILLUMINATION CONTROL SWITCH SIGNAL (-)
14	GR	ILLUMINATION CONTROL SWITCH SIGNAL (-)
15	BR	AIR BAG SIGNAL
18	L	AMBIENT SENSOR SIGNAL
19	P	AMBIENT SENSOR POWER

Terminal No.	Color Of Wire	Signal Name [Specification]
20	Y	AMBIENT SENSOR GROUND
21	I	CAN-L
22	P	CAN-H
23	B	GROUND
24	W	FUEL LEVEL SENSOR GROUND
25	BR	ALTERNATOR SIGNAL
26	G	PARKING BRAKE SWITCH SIGNAL
27	V	BRAKE FLUID LEVEL SWITCH SIGNAL
29	R	WASHER LEVEL SWITCH SIGNAL
30	P	VEHICLE SPEED SIGNAL (2-PULSE)
31	V	VEHICLE SPEED SIGNAL (8-PULSE)
32	LG	OVERDRIVE CONTROL SWITCH SIGNAL
34	G	FUEL LEVEL SENSOR SIGNAL
35	SB	S&A BELT BUCKLE SWITCH SIGNAL (LOWER SIDE)
35	R	S&A BELT BUCKLE SWITCH SIGNAL (UPPER SIDE)

Connector No.	M17
Connector Name	WIRE TO WIRE
Connector Type	TH8BFW-CS19



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	-
2	B	-
3	W	-
4	R	-
6	W	-
7	G	-
8	SHIELD	-
9	W	-
10	R	-
11	G	-
12	B	-
13	R	-
14	P	-
15	SB	-
16	R	-
17	V	-
18	P	-
19	P	-
20	LG	-

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

21	P	-	-	-	-
22	BR	-	-	-	-
23	GR	-	-	-	-
24	SB	-	-	-	-
25	L	-	-	-	-
27	Y	-	-	-	-
28	R	-	-	-	-
30	Y	-	-	-	-
31	W	-	-	-	-
32	BR	-	-	-	-
34	Y	-	-	-	-
35	B	-	-	-	-
36	G	-	-	-	-
37	Y	-	-	-	-
40	BR	-	-	-	-
41	GR	-	-	-	-
42	SB	-	-	-	-
43	W	-	-	-	-
46	G	-	-	-	-
46	LG	-	-	-	-
47	SB	-	-	-	-
47	Y	-	-	-	-
48	GR	-	-	-	-
48	SHIELD	-	-	-	-
49	BR	-	-	-	-
49	R	-	-	-	-
50	LG	-	-	-	-
50	R	-	-	-	-
51	R	-	-	-	-
51	V	-	-	-	-
52	BR	-	-	-	-
52	SB	-	-	-	-
54	G	-	-	-	-
55	G	-	-	-	-
57	L	-	-	-	-
58	SB	-	-	-	-
59	R	-	-	-	-
59	SHIELD	-	-	-	-
60	B	-	-	-	-
60	Y	-	-	-	-
61	R	-	-	-	-
62	W	-	-	-	-
63	LG	-	-	-	-
64	V	-	-	-	-
65	R	-	-	-	-
65	V	-	-	-	-
66	L	-	-	-	-
66	Y	-	-	-	-
67	G	-	-	-	-
67	W	-	-	-	-

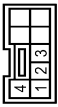
68	BG	-	-	-	-
68	SHIELD	-	-	-	-
70	L	-	-	-	-
71	P	-	-	-	-
72	LG	-	-	-	-
73	Y	-	-	-	-
74	R	-	-	-	-
75	P	-	-	-	-
76	L	-	-	-	-
77	BR	-	-	-	-
79	B	-	-	-	-
80	W	-	-	-	-
81	L	-	-	-	-
82	CR	-	-	-	-
83	W	-	-	-	-
84	R	-	-	-	-
85	V	-	-	-	-
86	W	-	-	-	-
87	R	-	-	-	-
88	G	-	-	-	-
88	B	-	-	-	-
90	V	-	-	-	-
91	G	-	-	-	-
92	BR	-	-	-	-
93	P	-	-	-	-
94	V	-	-	-	-
95	P	-	-	-	-
96	SB	-	-	-	-
97	SB	-	-	-	-
98	LG	-	-	-	-
98	Y	-	-	-	-

Connector No.	M109
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-LG



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

Connector No.	M110
Connector Name	AUTOMATIC BACK DOOR MAIN SWITCH
Connector Type	TK08FW



Terminal No.	Color	Wire	Signal Name [Specification]
1	LG	-	-
3	B	-	-
4	R	-	-

Connector No.	M111
Connector Name	AUTOMATIC BACK DOOR SWITCH
Connector Type	TK08FGY



Terminal No.	Color	Wire	Signal Name [Specification]
1	Y	-	-
2	B	-	-
3	R	-	-
4	SB	-	-

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	N18BFW-CS



Terminal No.	Color	Wire	Signal Name [Specification]
4	P/W	-	INTERIOR ROOM LAMP POWER SUPPLY
5	G	-	TRUNK LOCK OUTPUT
7	W	-	TRUNK LAMP CONT
8	V	-	ALL DOOR FUEL LID LOCK OUTPUT
9	G	-	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	P	-	REAR DOOR UNLOCK OUTPUT
11	LG	-	BAT (FUSE)
13	B	-	GROUND
14	O	-	PUSH-BUTTON IGNITION SW ILL GND
15	L	-	ACC IND
17	G	-	TURN SIGNAL RH
18	BR	-	TURN SIGNAL LH
19	Y	-	INT ROOM LAMP CONT

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40BFGY-NH



Terminal No.	Color	Wire	Signal Name [Specification]
35	B	-	LUGGAGE ROOM ANT-
35	W	-	LUGGAGE ROOM ANT+
38	Y	-	REAR BUMPER ANT-
39	BR	-	REAR BUMPER ANT+
47	L	-	IGN RELAY (P/D)M E/R/CONT
52	R	-	STARTER RELAY CONT
60	BR	-	PUSH SW

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AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SYSTEM

84	GR	BACK DOOR OPENER GUEST SW
85	GR	1-KEY WAKE UP/DOOR OPENER
86	O	REAR WIPER STOP POSITION
87	Y	BACK DOOR SW
88	LG	BACK DOOR OPENER SW
89	W	REAR RH DOOR SW
89	R	REAR LH DOOR SW

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



Terminal No.	Color	Wire	Signal Name [Specification]
72	B		ROOM ANT-
73	W		ROOM ANT+
74	Y		PASSENGER DOOR ANT-
75	LG		PASSENGER DOOR ANT+
76	V		DRIVER DOOR ANT-
77	B		DRIVER DOOR ANT+
80	SB		DRIVER DOOR LOCK SW
81	O		NAIS ANT AMP
82	BR		IGN RELAY (F/B) CONT
83	P		KEYLESS ENTRY RECEIVER COMM
87	R		COMBI SW INPUT 5
88	GR		COMBI SW INPUT 3
90	P		CAN-L
91	L		CAN-H
92	R		KEY SLOT ILL CONT
93	P		ONJND
95	L		ACC RELAY CONT
96	Y		CVT SHIFT SELECTOR POWER SUPPLY
99	V		SHIFT P
100	W		PASSENGER DOOR REQUEST SW
101	R		DRIVER DOOR REQUEST SW
102	Y		BLOWER RELAY CONT
103	L		KEYLESS ENTRY RECEIVER POWER SUPPLY
107	O		COMBI SW INPUT 1
108	P		COMBI SW INPUT 4
109	SB		COMBI SW INPUT 2
110	G		HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color	Wire	Signal Name [Specification]
112	P/B		RAIN SENSOR SERIAL LINK
113	GR		OPTICAL SENSOR
116	GR		STOP LAMP SW 1
118	L		STOP LAMP SW 2
119	W		DR DOOR UNLOCK SENSOR
121	Y		KEY SLOT SW
123	G		IGN F/B
124	R		PASSENGER DOOR SW
130	BR		REAR DEFROGGER SW
132	G		POWER WINDOW SW COMM
133	W		PUSH-BUTTON IGNITION SW ILL POWER
134	R		LOCK ILL
137	P		RECEIVER SENSOR GND
138	O		RECEIVER SENSOR POWER SUPPLY
140	GR		TIRE PRESSURE COMM
141	GR		SECURITY AND LAMP CONT
142	L		COMBI SW OUTPUT 5
143	W		COMBI SW OUTPUT 1
144	P		COMBI SW OUTPUT 2
145	V		COMBI SW OUTPUT 3
146	Y		COMBI SW OUTPUT 4
150	SB		DRIVER DOOR SW
151	G		REAR WINDOW DEFROGGER RELAY CONT

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AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

Fail Safe

INFOID:000000009719125

Display contents of CONSULT	Fail-safe	Cancellation
U1000: CAN COMM	Intermittent clutch function	Normal return
B2401 IGN OPEN	Intermittent clutch function	All following condition are satisfied <ul style="list-style-type: none"> • Power supply condition of automatic back door control unit: OFF • BCM receive ignition position signal (OFF) via CAN
B2403 PULSE ENCODER	Inhibit automatic back door operation	When receiving the pulse from encoders A and B normally (5 pulses)
B2409 HALF LATCH SW	Intermittent clutch function	Half latch switch is ON from OFF
B2416 TOUCH SEN R OPEN	During close operation: Intermittent clutch function	Normal return
B2417 TOUCH SEN L OPEN	During close operation: Intermittent clutch function	Normal return
B2418 CLUTCH PWR SPLY	Inhibit automatic back door operation	Reception of next operation request
B2419 OPEN SW	Inhibit automatic back door operation	Erase DTC, reconnect battery
B2420 CLOSE SW	Inhibit automatic back door operation	Erase DTC, reconnect battery
B2421 CLUTCH TIME OUT	Intermittent clutch function	Reception of next operation request
B2422 BACK DOOR STATE	Intermittent clutch function	Detect back door fully closed position
B2423 ABD MTR TIME OUT	Intermittent clutch function	Reception of next operation request
B2424 CLSR CONDITION	Inhibit automatic back door operation	Normal return or reconnect battery

DTC Inspection Priority Chart

INFOID:000000009719126

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

Priority	DTC
1	<ul style="list-style-type: none"> • U1000: CAN COMM CIRCUIT • U1010: CONTROL UNIT (CAN) • B2401 IGN OPEN
2	<ul style="list-style-type: none"> • B2403 PULSE ENCODER • B2409 HALF LATCH SW • B2416 TOUCH SEN R OPEN • B2417 TOUCH SEN L OPEN • B2418 CLUTCH PWR SPLY • B2419 OPEN SW • B2420 CLOSE SW • B2421 CLUTCH TIME OUT • B2422 BACK DOOR STATE • B2423 ABD MTR TIME OUT • B2424 CLSR CONDITION

DTC Index

INFOID:000000009719127

NOTE:

Details of time display

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

AUTOMATIC BACK DOOR CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

[WITH INTELLIGENT KEY SYSTEM]

CONSULT display	Fail-safe	Item	Reference page
U1000: CAN COMM	—	CAN communication circuit	DLK-63
U1010: CONTROL UNIT(CAN)	—	Internal CAN communication circuit	DLK-65
B2401: IGN OPEN	×	IGN power supply circuit	DLK-66
B2403: PULSE ENCODER	×	Encoder signal	DLK-67
B2409: HALF LATCH SW	×	Half latch switch signal	DLK-70
B2416: TOUCH SEN R OPEN	×	Touch sensor RH	DLK-72
B2417: TOUCH SEN L OPEN	×	Touch sensor LH	DLK-74
B2418: CLUTCH PWR SPLY	×	Clutch power supply circuit	DLK-76
B2419: OPEN SW	×	Open switch signal	DLK-78
B2420: CLOSE SW	×	Close switch signal	DLK-81
B2421: CLUTCH TIME OUT	×	Clutch operation time	DLK-83
B2422: BACK DOOR STATE	×	Back door state	DLK-84
B2423: ABD MTR TIME OUT	×	Automatic back door motor operation time	DLK-86
B2424: CLSR CONDITION	×	Closure condition	DLK-88

SYMPTOM DIAGNOSIS

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

ALL DOOR

ALL DOOR : Diagnosis Procedure

INFOID:000000009719128

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.
Refer to [BCS-46. "Diagnosis Procedure"](#) (BCM).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.
Refer to [DLK-102. "DRIVER SIDE : Component Function Check"](#) (driver side).
Refer to [DLK-102. "PASSENGER SIDE : Component Function Check"](#) (passenger side).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).
Refer to [DLK-104. "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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

DRIVER SIDE

DRIVER SIDE : Diagnosis Procedure

INFOID:000000009719129

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (driver side).
Refer to [DLK-104. "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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

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DLK

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH [WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000009719130

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (passenger side).

Refer to [DLK-105. "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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

REAR LH

REAR LH : Diagnosis Procedure

INFOID:000000009719131

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (rear LH).

Refer to [DLK-106. "REAR LH : 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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

REAR RH

REAR RH : Diagnosis Procedure

INFOID:000000009719132

1.CHECK DOOR LOCK ACTUATOR

Check door lock actuator (rear RH).

Refer to [DLK-106. "REAR RH : 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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION
< SYMPTOM DIAGNOSIS > **[WITH INTELLIGENT KEY SYSTEM]**

DOOR DOES NOT LOCK/UNLOCK WITH DOOR KEY CYLINDER OPERATION

Diagnosis Procedure

INFOID:000000009719133

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 >> Go to [DLK-257, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to [DLK-110, "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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE
< SYMPTOM DIAGNOSIS > **[WITH INTELLIGENT KEY SYSTEM]**

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009719134

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 >> Go to [DLK-257, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK VEHICLE SPEED SIGNAL

Check combination meter.

Refer to [SEC-54, "DTC Logic"](#).

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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

IGN OFF INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE
< SYMPTOM DIAGNOSIS > **[WITH INTELLIGENT KEY SYSTEM]**

IGN OFF INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009719135

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 >> Go to [DLK-257, "ALL DOOR : Diagnosis Procedure"](#).

2.CHECK BCM

Check DTC for BCM.

Refer to [BCS-91, "DTC Index"](#).

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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

P RANGE INTERLOCK DOOR LOCK/UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000009719136

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 >> Go to [DLK-257, "ALL DOOR : Diagnosis Procedure"](#).

2. CHECK TCM

Check DTC for TCM.

Refer to [TM-128, "DTC Index"](#).

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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

POWER WINDOW DOWN FUNCTION DOES NOT OPERATE WITH KEY CYLINDER OPERATION

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER WINDOW DOWN FUNCTION DOES NOT OPERATE WITH KEY CYLINDER OPERATION

Diagnosis Procedure

INFOID:000000009719137

1.CHECK DOOR KEY CYLINDER OPERATION

Check door key cylinder operation.

Does door lock/unlock with door key cylinder switch operation?

YES >> GO TO 2.

NO >> Go to [DLK-259, "Diagnosis Procedure"](#).

2.CHECK POWER WINDOW OPERATION

Check power window operation.

Does power window up/down with power window main switch?

YES >> GO TO 3.

NO >> Go to [PWC-103, "Diagnosis Procedure"](#).

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Description

INFOID:000000009719138

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent key is removed from key slot.
- All doors are closed.

Diagnosis Procedure

INFOID:000000009719139

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-127, "Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Replace Intelligent Key battery.

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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-257, "ALL DOOR : Diagnosis Procedure"](#).

8.CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to [DLK-112, "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-97, "WITH AUTOMATIC BACK DOOR : 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-98, "Removal and Installation"](#).

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SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH INTELLIGENT KEY

Description

INFOID:000000009719140

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent key is removed from key slot.
- All doors are closed.

Diagnosis Procedure

INFOID:000000009719141

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 >> Go to [DLK-257, "ALL DOOR : Diagnosis Procedure"](#).

2. CHECK "DOOR LOCK-UNLOCK SET" SETTING IN "WORK SUPPORT"

Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".

Refer to [DLK-55, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "DOOR LOCK-UNLOCK SET" of "WORK SUPPORT".

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

NO >> GO TO 1.

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

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

Description

INFOID:000000009719142

NOTE:

- Before performing the diagnosis in the following procedure, check “ Work Flow”. Refer to [DLK-10, "Work Flow"](#).

Diagnosis Procedure

INFOID:000000009719143

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent key button?

YES >> GO TO 2.

NO >> Go to [DLK-264, "Description"](#).

2.CHECK POWER WINDOW OPERATION

Check power window operation.

Does power window up/down with power window main switch?

YES >> GO TO 3.

NO >> Go to [PWC-103, "Diagnosis Procedure"](#).

3.CHECK “PW DOWN SET” SETTING IN “WORK SUPPORT”

Check “PW DOWN SET” setting in “WORK SUPPORT”.

Refer to [DLK-57, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set “PW DOWN SET” setting in “WORK SUPPORT”.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

NO >> GO TO 1.

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PANIC ALARM FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

PANIC ALARM FUNCTION DOES NOT OPERATE

Description

INFOID:000000009719144

NOTE:

- Before performing the diagnosis following procedure, check “Work Flow”. Refer to [DLK-10, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATION CONDITIONS)

- Ignition switch is in OFF or LOCK position.
- Intelligent Key is removed from key slot.

Diagnosis Procedure

INFOID:000000009719145

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent key button?

- YES >> GO TO 2.
- NO >> Go to [DLK-264, "Description"](#).

2.CHECK VEHICLE SECURITY ALARM OPERATION

Check vehicle security alarm operation.

Does alarm (headlamp and horn) active?

- YES >> GO TO 3.
- NO >> Go to [DLK-264, "Description"](#).

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

Check “PANIC ALARM SET” setting in “WORK SUPPORT”.

Refer to [DLK-57, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

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

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).
- NO >> GO TO 1.

HAZARD AND HORN REMINDER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

HAZARD AND HORN REMINDER DOES NOT OPERATE

Description

INFOID:000000009719146

NOTE:

- Before performing the diagnosis following procedure, check "Work Flow". Refer to [DLK-10, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATION CONDITIONS)

- Ignition switch is in OFF or LOCK position.
- Intelligent Key is removed from key slot.

Diagnosis Procedure

INFOID:000000009719147

1.CHECK "HAZARD ANSWER BACK" SETTING IN "WORK SUPPORT"

Check "HAZARD ANSWER BACK" setting in "WORK SUPPORT".

Refer to [DLK-57, "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-57, "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 WARNING LAMP

Check hazard warning lamp.

Refer to [DLK-138, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK HORN

Check horn.

Refer to [DLK-133, "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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Description

INFOID:000000009719148

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-10, "Work Flow"](#).

Diagnosis Procedure

INFOID:000000009719149

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

Check “AUTO LOCK SET” setting in “WORK SUPPORT”.

Refer to [DLK-57, "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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH DRIVER SIDE

DRIVER SIDE : Description

INFOID:000000009719150

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-10, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent Key is removed from key slot.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

DRIVER SIDE : Diagnosis Procedure

INFOID:000000009719151

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent key button?

YES >> GO TO 2.

NO >> Go to [DLK-264, "Description"](#).

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

Check “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT”.

Refer to [DLK-57, "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.CHECK DOOR REQUEST SWITCH

Check door request switch (driver side).

Refer to [DLK-117, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (driver side).

Refer to [DLK-123, "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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000009719152

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-10, "Work Flow"](#).

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DLK

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent Key is removed from key slot.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000009719153

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent key button?

- YES >> GO TO 2.
- NO >> Go to [DLK-264, "Description"](#).

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

Check “LOCK/UNLOCK BY I-KEY” in “WORK SUPPORT”.

Refer to [DLK-57, "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.CHECK DOOR REQUEST SWITCH

Check door request switch (passenger side).

Refer to [DLK-117, "Component Function Check"](#).

Is the inspection result normal?

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

4.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (passenger side).

Refer to [DLK-123, "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-44, "Intermittent Incident"](#).
- NO >> GO TO 1.

BACK DOOR

BACK DOOR : Description

INFOID:000000009719154

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-10, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent Key is removed from key slot.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

INFOID:000000009719155

BACK DOOR : Diagnosis Procedure

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent key button?

YES >> GO TO 2.

NO >> Go to [DLK-264, "Description"](#).

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

Check "LOCK/UNLOCK BY I-KEY" in "WORK SUPPORT".

Refer to [DLK-57, "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.CHECK DOOR REQUEST SWITCH

Check door request switch (back door).

Refer to [DLK-117, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (rear bumper).

Refer to [DLK-123, "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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SELECTIVE UNLOCK FUNCTION DOES NOT OPERATE WITH DOOR REQUEST SWITCH

Description

INFOID:000000009719156

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10, "Work Flow"](#).
- Check that vehicle is under the condition shown in "Conditions of vehicle" before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent Key is removed from key slot.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

Diagnosis Procedure

INFOID:000000009719157

1. CHECK DOOR LOCK FUNCTION

Check door lock function by door request switch.

Does door lock/unlock with door request switch?

YES >> GO TO 2.

- NO >>
- Go to [DLK-271, "DRIVER SIDE : Description"](#) (driver side).
 - Go to [DLK-271, "PASSENGER SIDE : Description"](#) (passenger side).
 - Go to [DLK-272, "BACK DOOR : Description"](#) (back door).

2. CHECK "DOOR LOCK-UNLOCK SET" SETTING IN "WORK SUPPORT"

Check "DOOR LOCK-UNLOCK SET" setting in "WORK SUPPORT".

Refer to [DLK-55, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "DOOR LOCK-UNLOCK SET" in "WORK SUPPORT".

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

NO >> GO TO 1.

HAZARD AND BUZZER REMINDER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

HAZARD AND BUZZER REMINDER DOES NOT OPERATE

Description

INFOID:000000009719158

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-10, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.

CONDITIONS OF VEHICLE (OPERATING CONDITIONS)

- Intelligent Key is removed from key slot.
- Ignition switch is in OFF position.
- No Intelligent Keys are inside the vehicle.

Diagnosis Procedure

INFOID:000000009719159

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

Check “HAZARD ANSWER BACK” setting in “WORK SUPPORT”.
Refer to [DLK-55, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set “HAZARD ANSWER BACK” in “WORK SUPPORT”.

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

Check “ANS BACK I-KEY LOCK” setting in “WORK SUPPORT”.
Refer to [DLK-55, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set “ANS BACK I-KEY LOCK” in “WORK SUPPORT”.

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

Check “ANS BACK I-KEY UNLOCK” setting in “WORK SUPPORT”.
Refer to [DLK-55, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set “ANS BACK I-KEY UNLOCK” in “WORK SUPPORT”.

4. CHECK HAZARD WARNING LAMP

Check hazard warning lamp.
Refer to [DLK-138, "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-125, "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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY REMINDER FUNCTION DOES NOT OPERATE

Description

INFOID:000000009719160

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-10, "Work Flow"](#).
- Understand the operation when does it work, refer to [DLK-35, "KEY REMINDER FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:000000009719161

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

Check “ANTI KEY LOCK IN FUNCTI” setting in “WORK SUPPORT”.

Refer to [DLK-57, "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-97, "WITH AUTOMATIC BACK DOOR : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-91, "DTC Logic"](#) (console).

Refer to [DLK-93, "DTC Logic"](#) (luggage room).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK UNLOCK SENSOR

Check unlock sensor.

Refer to [DLK-121, "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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

KEY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY WARNING DOES NOT OPERATE

Description

INFOID:000000009719162

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-10, "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-37, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000009719163

1.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-136, "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-97, "WITH AUTOMATIC BACK DOOR : 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-129, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-135, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK KEY SLOT ILLUMINATION

Check key slot illumination.

Refer to [DLK-131, "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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

OFF POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OFF POSITION WARNING DOES NOT OPERATE

Description

INFOID:000000009719164

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10. "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-37. "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000009719165

1. CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.

NO >> Check DTC for BCM. Refer to [BCS-91. "DTC Index"](#).

2. CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-136. "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-125. "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-97. "WITH AUTOMATIC BACK DOOR : 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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

P POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

P POSITION WARNING DOES NOT OPERATE

Description

INFOID:000000009719166

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10, "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-37, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000009719167

1.CHECK TRANSMISSION RANGE SWITCH

Check DTC for BCM.

Refer to [BCS-91, "DTC Index"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-125, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-136, "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-97, "WITH AUTOMATIC BACK DOOR : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-91, "DTC Logic"](#) (console).

Refer to [DLK-93, "DTC Logic"](#) (luggage room).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-135, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7.CONFIRM THE OPERATION

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DLK

P POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

NO >> GO TO 1.

ACC WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

ACC WARNING DOES NOT OPERATE

Description

INFOID:000000009719168

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10. "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-37. "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

Diagnosis Procedure

INFOID:000000009719169

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.

NO >> Check DTC for BCM. Refer to [BCS-91. "DTC Index"](#).

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-136. "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-135. "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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

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DLK

TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

TAKE AWAY WARNING DOES NOT OPERATE

DOOR IS OPEN

DOOR IS OPEN : Description

INFOID:000000009719170

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10, "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-37, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

DOOR IS OPEN : Diagnosis Procedure

INFOID:000000009719171

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.

NO >> Check DTC for BCM. Refer to [BCS-91, "DTC Index"](#).

2.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-136, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-135, "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-97, "WITH AUTOMATIC BACK DOOR : 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-125, "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.

Refer to [DLK-91, "DTC Logic"](#) (console).

Refer to [DLK-93, "DTC Logic"](#) (luggage room).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

TAKE AWAY WARNING DOES NOT OPERATE

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

7. CHECK KEY SLOT ILLUMINATION

Check key slot illumination.

Refer to [DLK-131, "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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

ANY DOOR OPEN TO ALL DOORS CLOSED

ANY DOOR OPEN TO ALL DOORS CLOSED : Description

INFOID:000000009719172

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10, "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-37, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

ANY DOOR OPEN TO ALL DOORS CLOSED : Diagnosis Procedure

INFOID:000000009719173

1. CHECK DOOR SWITCH

Check door switch (driver side).

Refer to [DLK-97, "WITH AUTOMATIC BACK DOOR : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-135, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-91, "DTC Logic"](#) (console).

Refer to [DLK-93, "DTC Logic"](#) (luggage room).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-44, "Intermittent Incident"](#).

NO >> GO TO 1.

PUSH-BUTTON IGNITION SWITCH OPERATION

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DLK

TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

PUSH-BUTTON IGNITION SWITCH OPERATION : Description

INFOID:000000009719174

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10, "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-37, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

PUSH-BUTTON IGNITION SWITCH OPERATION : Diagnosis Procedure

INFOID:000000009719175

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.

NO >> Check DTC for BCM. Refer to [BCS-91, "DTC Index"](#).

2.CHECK PUSH-BUTTON IGNITION SWITCH

Check push-button ignition switch.

Refer to [PCS-67, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK BUZZER (COMBINATION METER)

Check buzzer (combination meter).

Refer to [DLK-136, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-135, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-91, "DTC Logic"](#) (console).

Refer to [DLK-93, "DTC Logic"](#) (luggage room).

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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

TAKE AWAY THROUGH WINDOW

TAKE AWAY THROUGH WINDOW : Description

INFOID:000000009719176

NOTE:

TAKE AWAY WARNING DOES NOT OPERATE

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-10. "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-37. "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

TAKE AWAY THROUGH WINDOW : Diagnosis Procedure

INFOID:000000009719177

1.CHECK POWER POSITION

Check if ignition switch position is changing or not.

Does ignition switch position change?

YES >> GO TO 2.

NO >> Check DTC for BCM. Refer to [BCS-91. "DTC Index"](#).

2.CHECK “TAKE OUT FROM WIN WARN” SETTING IN “WORK SUPPORT”

Check “TAKE OUT FROM WIN WARN” setting in “WORK SUPPORT”.

Refer to [DLK-57. "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set “TAKE OUT FROM WIN WARN” setting in “WORK SUPPORT”.

3.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-135. "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.

Refer to [DLK-91. "DTC Logic"](#) (console).

Refer to [DLK-93. "DTC Logic"](#) (luggage room).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK KEY SLOT ILLUMINATION

Check key slot illumination.

Refer to [DLK-131. "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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

INTELLIGENT KEY IS REMOVED FROM KEY SLOT

INTELLIGENT KEY IS REMOVED FROM KEY SLOT : Description

INFOID:000000009719178

NOTE:

- Before performing the diagnosis in the following procedure, check “Work Flow”. Refer to [DLK-10. "Work Flow"](#).

TAKE AWAY WARNING DOES NOT OPERATE

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-37, "WARNING FUNCTION : System Description"](#).
- Door lock function is normal.

INTELLIGENT KEY IS REMOVED FROM KEY SLOT : Diagnosis Procedure

INFOID:000000009719179

1.CHECK KEY SLOT

Check key slot.

Refer to [DLK-129, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-135, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK INSIDE KEY ANTENNA

Check inside key antenna.

Refer to [DLK-91, "DTC Logic"](#) (console).

Refer to [DLK-93, "DTC Logic"](#) (luggage room).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK KEY SLOT ILLUMINATION

Check key slot illumination.

Refer to [DLK-131, "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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Description

INFOID:000000009719180

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10. "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-37. "WARNING FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:000000009719181

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-57. "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-127. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK COMBINATION METER DISPLAY

Check combination meter display.

Refer to [DLK-135. "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.

Refer to [DLK-91. "DTC Logic"](#) (console).

Refer to [DLK-93. "DTC Logic"](#) (luggage room).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK KEY SLOT ILLUMINATION

Check key slot illumination.

Refer to [DLK-131. "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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

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DOOR LOCK OPERATION WARNING DOES NOT OPERATE WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK OPERATION WARNING DOES NOT OPERATE WITH DOOR REQUEST SWITCH

Description

INFOID:000000009719182

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10, "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-37, "WARNING FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:000000009719183

1.CHECK DOOR LOCK FUNCTION

Check door lock function by door request switch.

Does door lock/unlock with door request switch?

YES >> GO TO 2.

- NO >> • Go to [DLK-271, "DRIVER SIDE : Description"](#) (driver side).
• Go to [DLK-271, "PASSENGER SIDE : Description"](#) (passenger side).
• Go to [DLK-272, "BACK DOOR : Description"](#) (back door).

2.CHECK DOOR SWITCH

Check door switch (driver side).

Refer to [DLK-97, "WITH AUTOMATIC BACK DOOR : 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-125, "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.

Refer to [DLK-91, "DTC Logic"](#) (console).

Refer to [DLK-93, "DTC Logic"](#) (luggage room).

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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

KEY ID WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY ID WARNING DOES NOT OPERATE

Description

INFOID:000000009719184

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10. "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-37. "WARNING FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:000000009719185

1.CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to [DLK-127. "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-135. "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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

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INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Description

INFOID:000000009719186

NOTE:

- Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10. "Work Flow"](#).
- Warning functions operating condition is extremely complicated, during operating confirmations, reconfirm the list above twice in order to ensure proper operation. Refer to [DLK-37. "WARNING FUNCTION : System Description"](#).

Diagnosis Procedure

INFOID:000000009719187

1.CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to [DLK-127. "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-135. "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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTEGRATED HOMELINK TRANSMITTER DOES NOT OPERATE

Description

INFOID:000000009719188

NOTE:

Before performing the diagnosis in the following procedure, check "Work Flow". Refer to [DLK-10, "Work Flow"](#).

Diagnosis Procedure

INFOID:000000009719189

1. CHECK INTEGRATED HOMELINK TRANSMITTER

Check integrated homelink transmitter.

Refer to [DLK-163, "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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

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AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

ALL SWITCHES

ALL SWITCHES : Diagnosis Procedure

INFOID:000000009719190

1. CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to [DLK-95, "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK AUTOMATIC BACK DOOR CONTROL UNIT SPECIFICATION

Check ground circuit.

Refer to [DLK-162, "AUTOMATIC BACK DOOR CONTROL UNIT : Diagnosis Procedure"](#).

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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

AUTOMATIC BACK DOOR SWITCH

AUTOMATIC BACK DOOR SWITCH : Diagnosis Procedure

INFOID:000000009719191

1. CHECK AUTOMATIC BACK DOOR SWITCH

Check automatic back door switch.

Refer to [DLK-143, "Diagnosis Procedure"](#).

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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

AUTOMATIC BACK DOOR CLOSE SWITCH

AUTOMATIC BACK DOOR CLOSE SWITCH : Diagnosis Procedure

INFOID:000000009719192

1. CONFIRM THE OPERATION

1. Turn ON automatic back door main switch.

2. Confirm the operation.

Is the result normal?

YES >> Automatic back door system is normal.

NO >> GO TO 2.

2. CHECK AUTOMATIC BACK DOOR CLOSE SWITCH

Check automatic back door close switch.

Refer to [DLK-139, "Diagnosis Procedure"](#).

Is the inspection result normal?

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

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

3.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

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-44. "Intermittent Incident"](#).
NO >> GO TO 1.

INTELLIGENT KEY

INTELLIGENT KEY : Diagnosis Procedure

INFOID:000000009719193

1.CONFIRM THE OPERATION

1. Turn ON automatic back door main switch.
2. Confirm the operation.

Is the result normal?

- YES >> Automatic back door system is normal.
NO >> GO TO 2.

2.CHECK DOOR LOCK SYSTEM

Check Intelligent Key system.

Refer to [DLK-264. "Diagnosis Procedure"](#).

Is the inspection result normal?

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

3.CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

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-44. "Intermittent Incident"](#).
NO >> GO TO 1.

BACK DOOR OPENER SWITCH

BACK DOOR OPENER SWITCH : Diagnosis Procedure

INFOID:000000009719194

1.CONFIRM THE OPERATION

1. Turn ON automatic back door main switch.
2. Confirm the operation.

Is the result normal?

- YES >> Automatic back door system is normal.
NO >> GO TO 2.

2.CHECK DOOR LOCK SYSTEM

Check Intelligent Key system.

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AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

Refer to [DLK-264. "Diagnosis Procedure"](#).

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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

CLOSURE FUNCTION

CLOSURE FUNCTION : Diagnosis Procedure

INFOID:000000009719195

1.CHECK HALF LATCH SWITCH

Check half latch switch.

Refer to [DLK-149. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK CLOSURE MOTOR

Check closure door motor.

Refer to [DLK-149. "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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

BACK DOOR OPEN/CLOSE FUNCTION

BACK DOOR OPEN/CLOSE FUNCTION : Diagnosis Procedure

INFOID:000000009719196

1.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check power supply and ground circuit.

Refer to [BCS-46. "Diagnosis Procedure"](#) (BCM).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK TOUCH SENSOR

Check touch sensor LH/RH.

Refer to [DLK-152. "LH : Component Function Check"](#) (LH).

Refer to [DLK-151. "RH : Component Function Check"](#) (RH).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK CLUTCH

Check clutch.

Refer to [DLK-157. "Diagnosis Procedure"](#).

Is the inspection result normal?

AUTOMATIC BACK DOOR OPERATION DOES NOT OPERATE

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK AUTOMATIC BACK DOOR MOTOR

Check automatic back door motor.

Refer to [DLK-158. "Diagnosis Procedure"](#).

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-44. "Intermittent Incident"](#).

NO >> GO TO 1.

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AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR WARNING DOES NOT OPERATE BUZZER

BUZZER : Diagnosis Procedure

INFOID:000000009719197

1.CHECK AUTOMATIC BACK DOOR WARNING BUZZER

Check automatic back door warning buzzer.

Refer to [DLK-161, "Diagnosis Procedure"](#).

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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

HAZARD WARNING LAMP

HAZARD WARNING LAMP : Diagnosis Procedure

INFOID:000000009719198

1.CHECK HAZARD WARNING LAMP

Check hazard warning lamp.

Refer to exterior lighting system. Refer to [EXL-162, "Symptom Table"](#).

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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR FUNCTIONS DO NOT CANCEL

AUTOMATIC BACK DOOR MAIN SWITCH

AUTOMATIC BACK DOOR MAIN SWITCH : Diagnosis Procedure

INFOID:000000009719199

1. CHECK THE OPERATION

Check automatic back door main switch function.

NOTE:

When the main switch is OFF, the automatic back door operation is not available by back door opener switch and automatic back door close switch.

Is the inspection result normal?

YES >> Automatic back door system is normal.

NO >> GO TO 2.

2. CHECK AUTOMATIC BACK DOOR MAIN SWITCH

Check automatic back door main switch.

Refer to [DLK-141, "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-44, "Intermittent Incident"](#).

NO >> GO TO 1.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

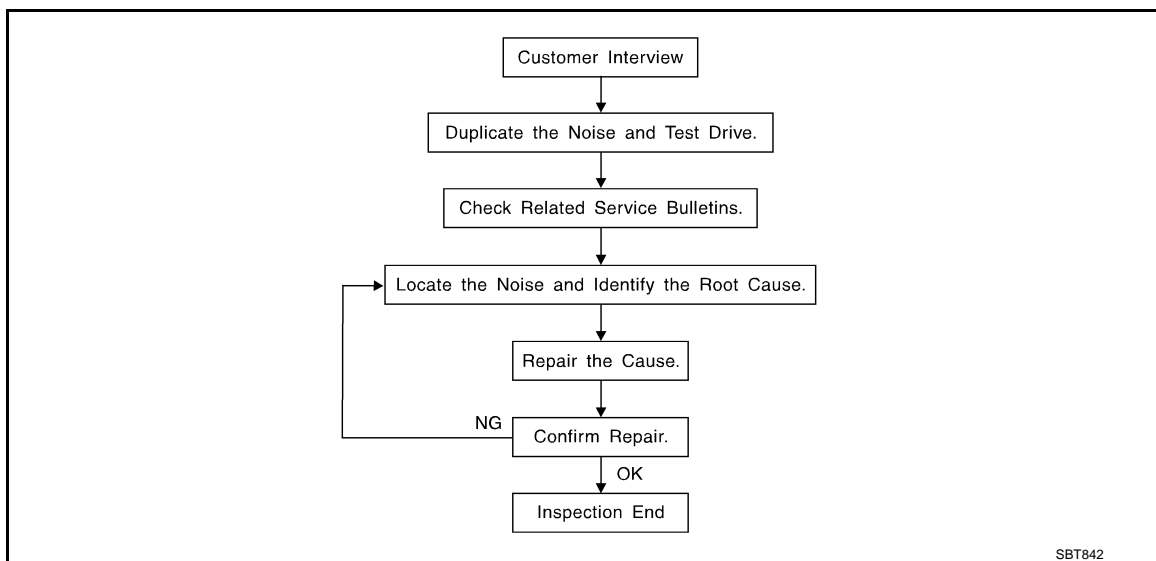
< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000009719200



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-302, "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.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

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-300. "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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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:000000009719201

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the:

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

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

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner.

In addition look for:

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

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

SUNROOF/HEADLINING

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

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

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

SEATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Diagnostic Worksheet

INFOID:00000009719202



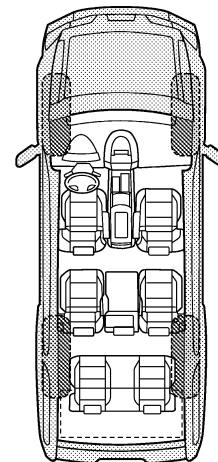
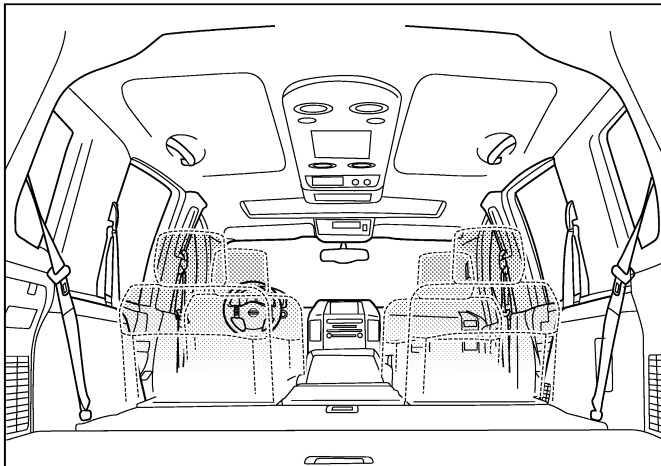
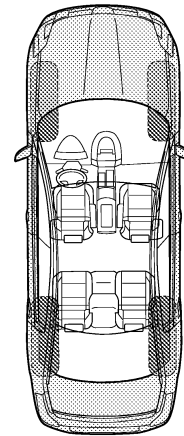
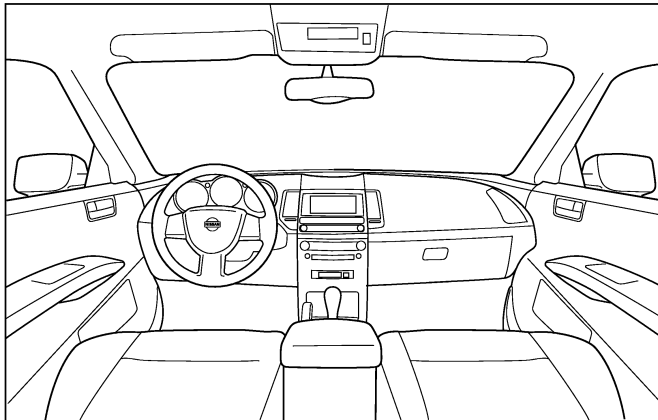
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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 AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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)

- | | |
|---|--|
| <input type="checkbox"/> anytime | <input type="checkbox"/> after sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> when it is raining or wet |
| <input type="checkbox"/> only when it is cold outside | <input type="checkbox"/> dry or dusty conditions |
| <input type="checkbox"/> only when it is hot outside | <input type="checkbox"/> 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	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise verified on test drive	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise source located and repaired	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Follow up test drive performed to confirm repair	<input type="checkbox"/>	<input type="checkbox"/>	_____

VIN: _____ Customer Name: _____
W.O.# _____ Date: _____

This form must be attached to Work Order

PIIB8742E

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PRECAUTIONS

< PRECAUTION >

[WITH INTELLIGENT KEY SYSTEM]

PRECAUTION

PRECAUTIONS

FOR USA AND CANADA

FOR USA AND CANADA : Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000009719203

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:

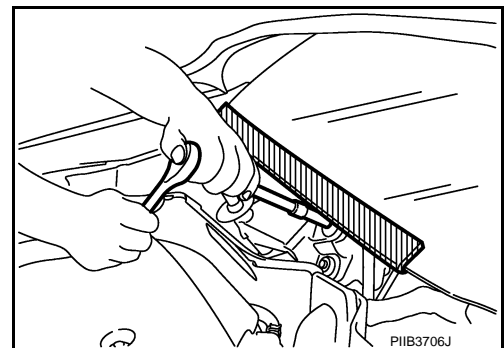
Always observe the following items for preventing accidental activation.

- 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.

FOR USA AND CANADA : Precaution for Procedure without Cowl Top Cover

INFOID:000000009719204

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



FOR USA AND CANADA : Precautions For Xenon Headlamp Service

INFOID:000000009719205

WARNING:

Comply with the following warnings to prevent any serious accident.

- Disconnect the battery cable (negative terminal) or the power supply fuse before installing, removing, or touching the xenon headlamp (bulb included). The xenon headlamp contains high-voltage generated parts.
- Never work with wet hands.

PRECAUTIONS

< PRECAUTION >

[WITH INTELLIGENT KEY SYSTEM]

- Check the xenon headlamp ON-OFF status after assembling it to the vehicle. Never turn the xenon headlamp ON in other conditions. Connect the power supply to the vehicle-side connector. (Turning it ON outside the lamp case may cause fire or visual impairments.)
- Never touch the bulb glass immediately after turning it OFF. It is extremely hot.

CAUTION:

Comply with the following cautions to prevent any error and malfunction.

- Install the xenon bulb securely. (Insufficient bulb socket installation may melt the bulb, the connector, the housing, etc. by high-voltage leakage or corona discharge.)
- Never perform HID circuit inspection with a tester.
- Never touch the xenon bulb glass with hands. Never put oil and grease on it.
- Dispose of the used xenon bulb after packing it in thick vinyl without breaking it.
- Never wipe out dirt and contamination with organic solvent (thinner, gasoline, etc.).

FOR USA AND CANADA : Precautions for Removing of Battery Terminal

INFOID:000000010084618

- 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.

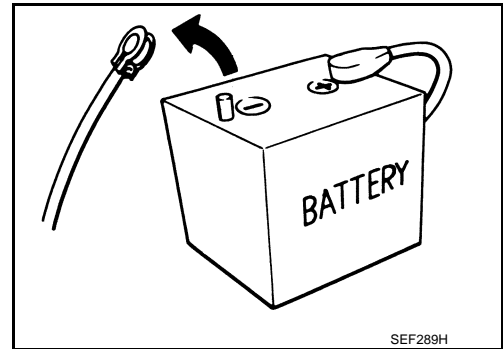
NOTE:

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.



FOR USA AND CANADA : Work

INFOID:000000009719206

- 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.

FOR MEXICO

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

INFOID:000000009719207

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. 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.

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PRECAUTIONS

[WITH INTELLIGENT KEY SYSTEM]

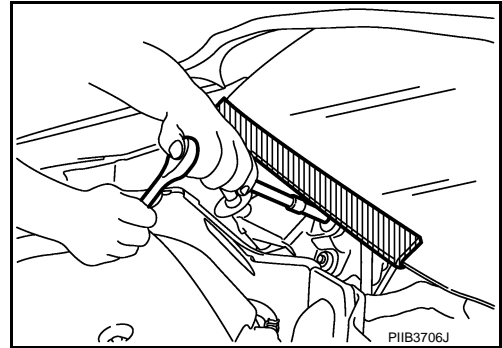
< PRECAUTION >

- 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.

FOR MEXICO : Precaution for Procedure without Cowl Top Cover

INFOID:000000009719208

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



FOR MEXICO : Precautions for Removing of Battery Terminal

INFOID:000000010084620

- 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.

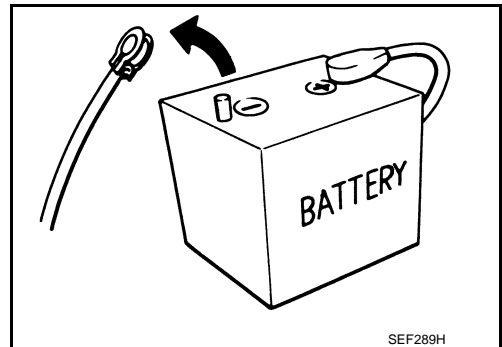
NOTE:

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.



FOR MEXICO : Work

INFOID:000000009719209

- 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 >

[WITH INTELLIGENT KEY SYSTEM]

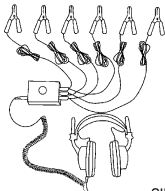
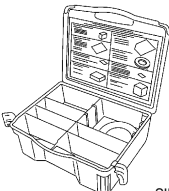
PREPARATION

PREPARATION

Special Service Tools

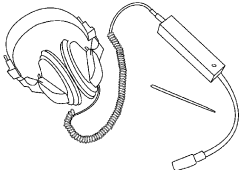
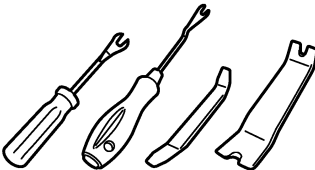

INFOID:000000009719210

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
<p>(J-39570) Chassis ear</p>  <p>SIIA0993E</p>	<p>Locates the noise</p>
<p>(J-50397) NISSAN Squeak and Rattle Kit</p>  <p>SIIA0994E</p>	<p>Repairs the cause of noise</p>

Commercial Service Tools

INFOID:000000009719211

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

HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

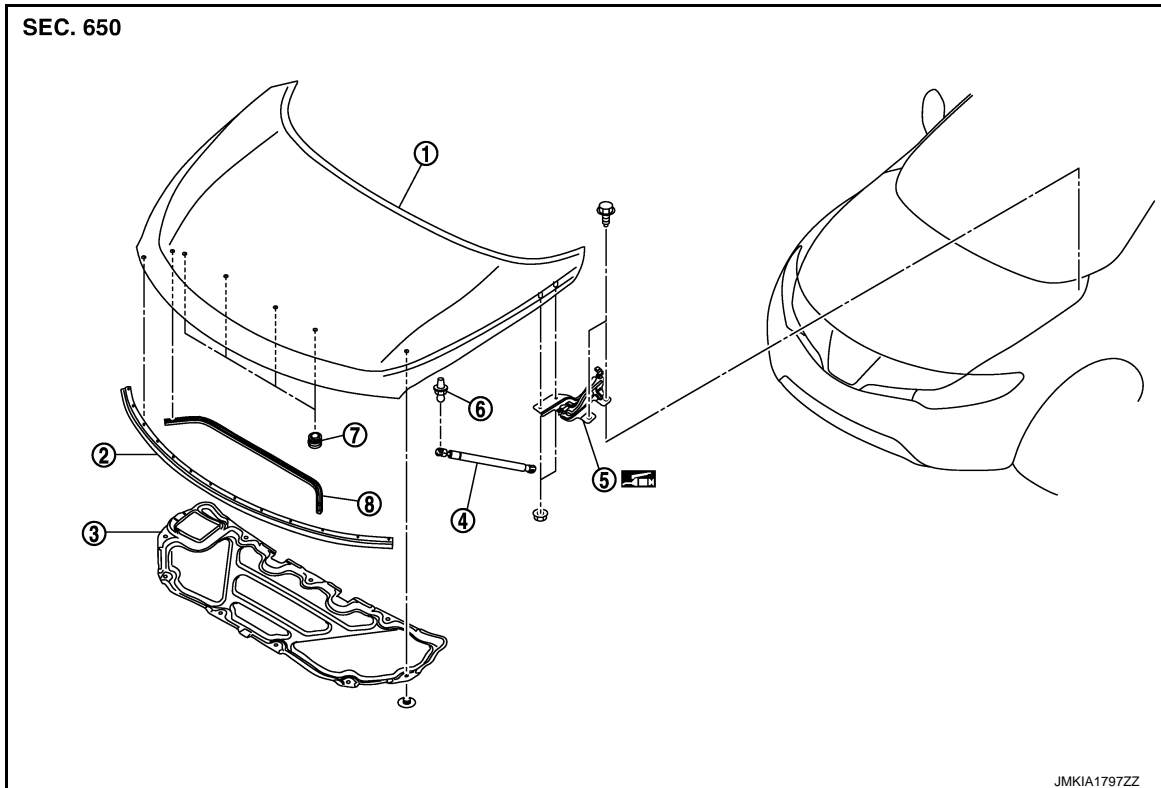
REMOVAL AND INSTALLATION

HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000009719212



- | | | |
|-----------------------|-----------------------|-------------------|
| 1. Hood assembly | 2. Hood front seal | 3. Hood insulator |
| 4. Hood stay | 5. Hood hinge | 6. Stud ball |
| 7. Hood bumper rubber | 8. Radiator core seal | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

HOOD ASSEMBLY : Removal and Installation

INFOID:000000009719213

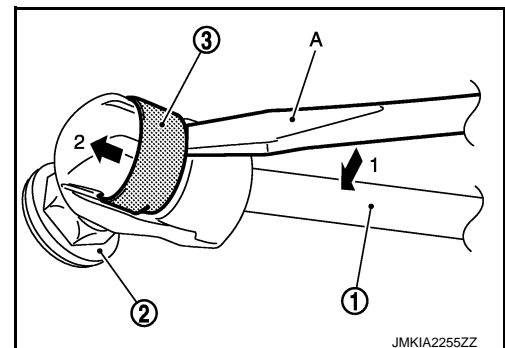
REMOVAL

1. Support hood lock assembly with the proper material to prevent it from falling.

WARNING:

Bodily injury may occur if no supporting rod is holding hood open when removing hood stay.

2. Remove the metal clip (3) located on the connection between the hood stay (1) and the stud ball (2) (hood side), by using a flatted-blade screwdriver (A).
3. Disengage the stud ball from the hood stay (hood side).



HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Remove hood hinge mounting nuts on the hood to remove the hood assembly.

CAUTION:

Perform work with 2 workers, because of its heavy weight.

INSTALLATION

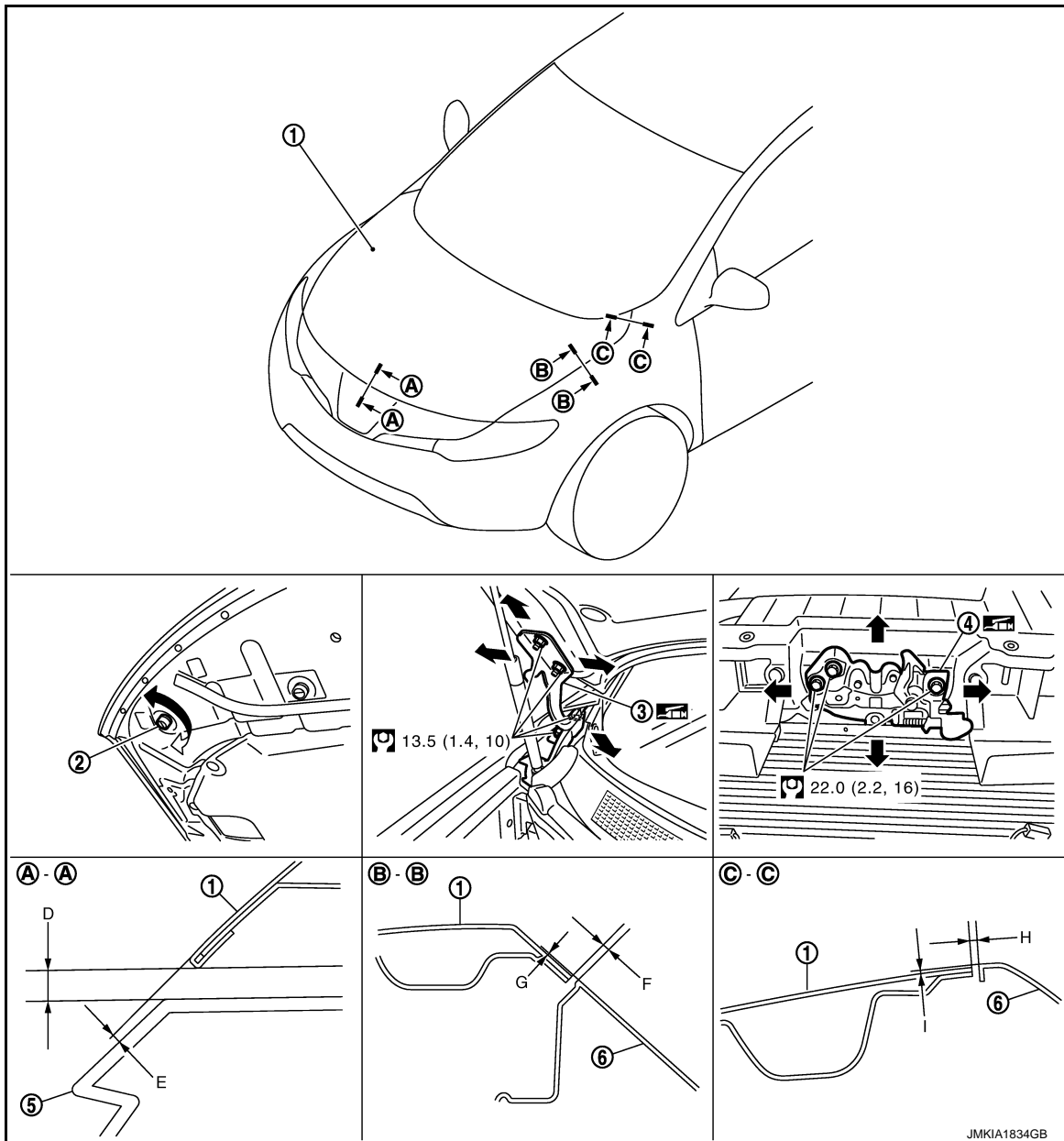
Install in the reverse order of removal.

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- Before installing the hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installing, perform hood fitting adjustment. Refer to [DLK-309, "HOOD ASSEMBLY : Adjustment"](#).

HOOD ASSEMBLY : Adjustment

INFOID:000000009719214



- | | | |
|-----------------------|----------------------------|-----------------|
| 1. Hood assembly | 2. Hood bumper rubber side | 3. Hood hinge |
| 4. Hood lock assembly | 5. Front grille | 6. Front fender |

Refer to [GI-4, "Components"](#) for symbols in the figure.

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HOOD

< REMOVAL AND INSTALLATION >

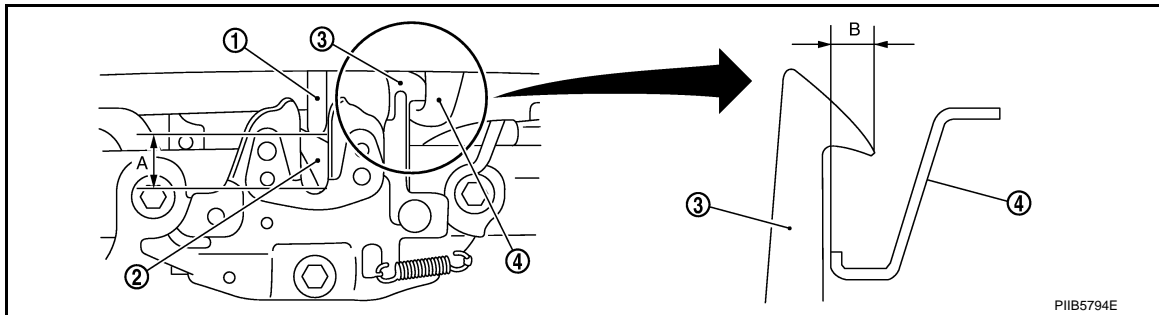
[WITH INTELLIGENT KEY SYSTEM]

Check the clearance and the surface height between hood and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm (in)

Portion			Standard	Difference (RH/LH)
Hood – Front grille	A – A	D Clearance	3.4 – 7.4 (0.134 – 0.291)	—
		E Surface height	- 1.4 – 2.6 (- 0.055 – 0.102)	—
Hood – Front fender	B – B	F Clearance	2.4 – 5.0 (0.094 – 0.197)	< 1.5 (0.059)
		G Surface height	- 1.3 – 1.3 (- 0.051 – 0.051)	—
	C – C	H Clearance	2.7 – 4.7 (0.106 – 0.185)	< 1.5 (0.059)
		I Surface height	- 1.4 – 1.4 (- 0.055 – 0.055)	—

1. Remove hood lock and adjust the height by rotating hood bumper rubber side until hood becomes 1 to 1.5 mm (0.039 to 0.059 in) lower than fender.
2. Temporarily tighten hood lock, and position by engaging it with hood striker. Check hood lock and striker for looseness and adjust the clearance and evenness with striker to satisfy the specification.
3. Adjust A and B shown in the figure to the following value with hood's own weight by dropping it from approximately 200 mm (7.874 in) height or by pressing hood lightly [approximately 29 N (3.0 kg, 6.5lb)].



1. Hood striker
2. Primary latch
3. Secondary striker
4. Secondary latch

A : 20.0 mm (0.787 in)

B : 6.8 mm (0.268 in)

4. After adjustment tighten lock bolts to the specified torque.

HOOD HINGE

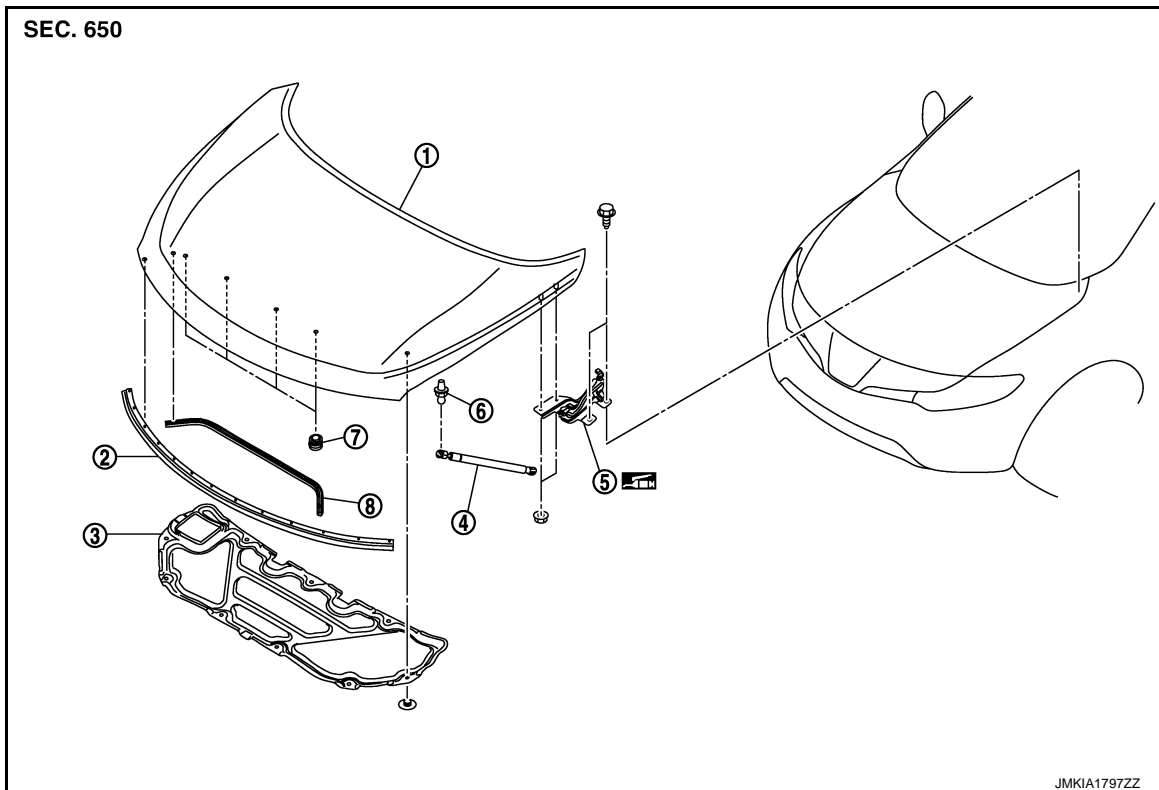
HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

HOOD HINGE : Exploded View

INFOID:000000009719215



- | | | |
|-----------------------|-----------------------|-------------------|
| 1. Hood assembly | 2. Hood front seal | 3. Hood insulator |
| 4. Hood stay | 5. Hood hinge | 6. Stud ball |
| 7. Hood bumper rubber | 8. Radiator core seal | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD HINGE : Removal and Installation

INFOID:000000009719216

DLK

REMOVAL

1. Remove hood assembly. Refer to [DLK-308. "HOOD ASSEMBLY : Removal and Installation"](#).
2. Remove front fender. Refer to [DLK-316. "Removal and Installation"](#).
3. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Before installation of hood hinge, apply anticorrosive agent onto the mounting surface of the vehicle body.
- After installation, apply touch-up paint (the body color) onto the head of the hinge mounting bolts and nuts.
- After installation, perform hood fitting adjustment. Refer to [DLK-309. "HOOD ASSEMBLY : Adjustment"](#).

HOOD STAY

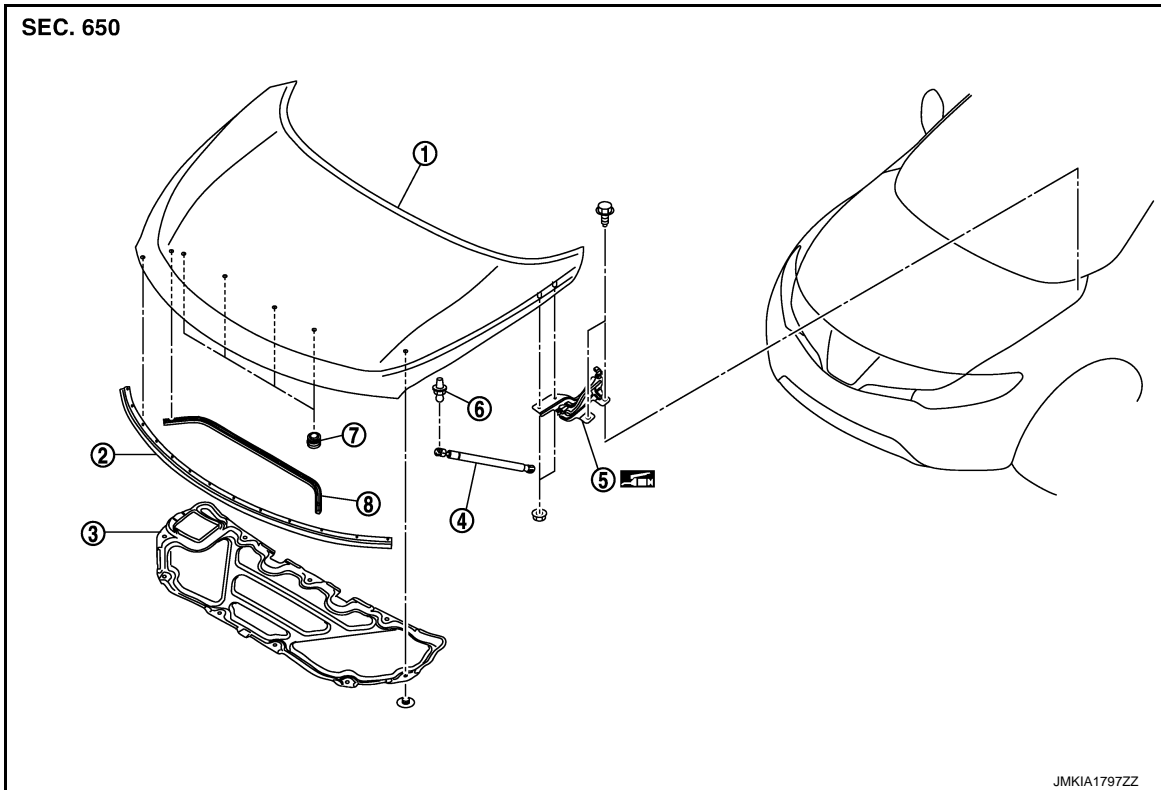
HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

HOOD STAY : Exploded View

INFOID:000000009719217



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|-----------------------|-----------------------|-------------------|
| 1. Hood assembly | 2. Hood front seal | 3. Hood insulator |
| 4. Hood stay | 5. Hood hinge | 6. Stud ball |
| 7. Hood bumper rubber | 8. Radiator core seal | |

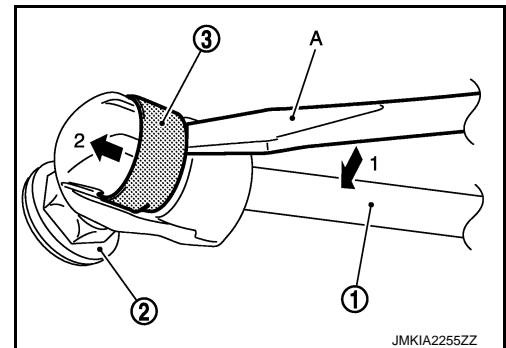
Refer to [GI-4. "Components"](#) for symbols in the figure.

HOOD STAY : Removal and Installation

INFOID:000000009719218

REMOVAL

1. Remove the metal clip (3) located on the connection between the hood stay (1) and the stud ball (2) (hood side), by using a flat-bladed screwdriver (A).
2. Disengage the stud ball from the hood stay (hood side).
3. Repeat the same operation to disengage the stud ball from the hood stay (body side), then remove the hood stay.



INSTALLATION

Install in the reverse order of removal.

HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

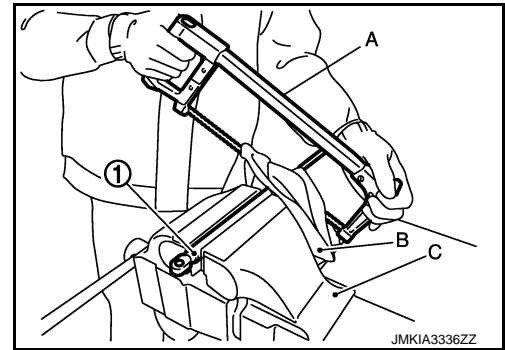
HOOD STAY : Disposal

INFOID:000000009719219

1. Fix hood stay (1) using a vise (C).
2. Using hacksaw (A) slowly make 2 holes in the hood stay, in numerical order as shown in the figure.

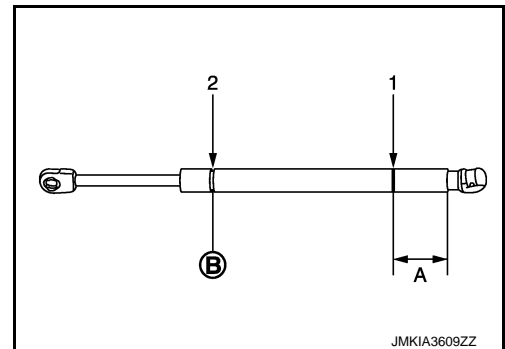
CAUTION:

- When cutting a hole on hood stay, always cover a hacksaw using a shop cloth (B) to avoid scattering metal fragments or oil.
- Wear eye protection (safety glasses).
- Wear gloves.



A: 20 mm (0.787 in)

B: Cut at the groove.



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RADIATOR CORE SUPPORT

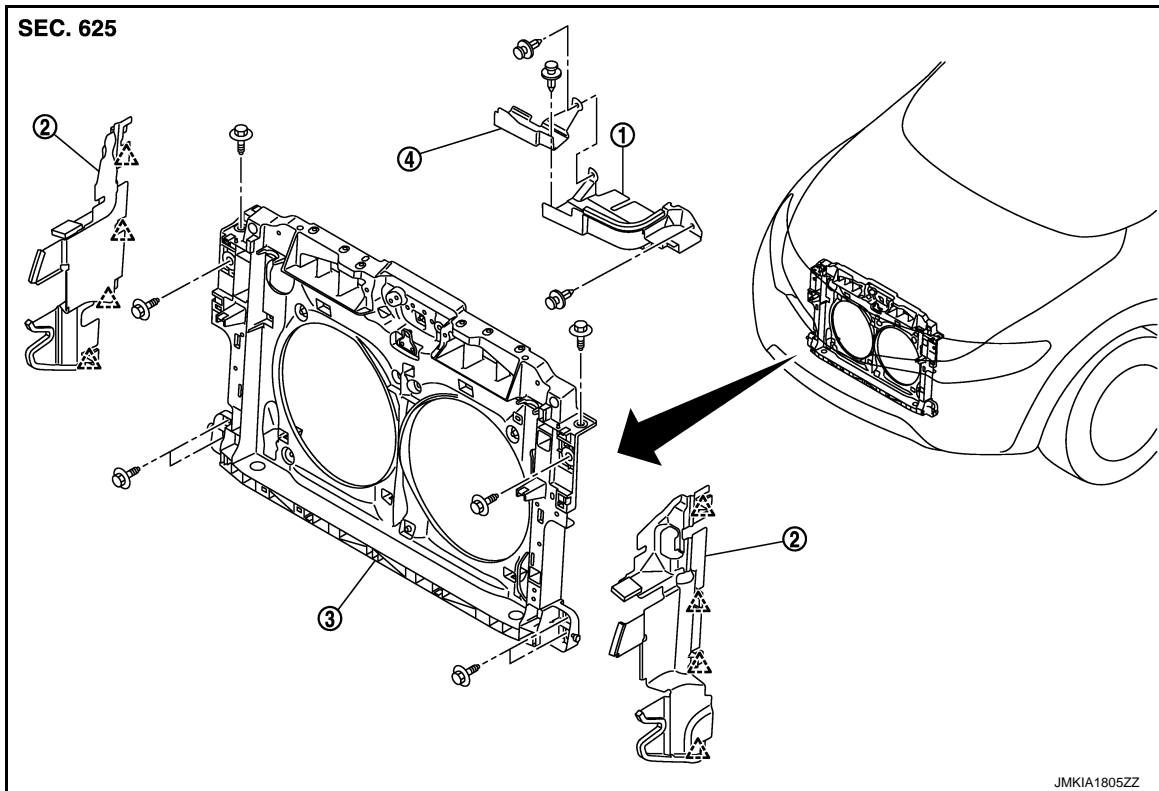
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]


RADIATOR CORE SUPPORT

Exploded View

INFOID:000000009719220



1. Air guide upper
2. Air guide side (RH/LH)
3. Radiator core support
4. Air guide center

 : Pawl

Removal and Installation

INFOID:000000009719221

REMOVAL

1. Use a refrigerant collecting equipment to discharge the refrigerant. Refer to [HA-25, "Maintenance of Lubricant Quantity"](#).
2. Remove front under cover. Refer to [EXT-29, "Removal and Installation"](#).
3. Drain engine coolant from radiator. Refer to [CO-11, "Draining"](#).
4. Remove front grille. Refer to [EXT-21, "Removal and Installation"](#).
5. Remove front bumper fascia, energy absorber, bumper reinforcement. Refer to [EXT-15, "Removal and Installation"](#).
6. Remove air duct assembly. Refer to [EM-31, "Exploded View"](#).
7. Remove hood lock. Refer to [DLK-338, "Removal and Installation"](#).
8. Remove front combination lamp (RH/LH). Refer to [EXL-179, "Removal and Installation"](#) (XENON TYPE) or [EXL-360, "Removal and Installation"](#) (HALOGEN TYPE).
9. Disconnect connector of refrigerant pressure sensor. Refer to [HA-52, "Exploded View"](#).
10. Remove bumper retainer assembly. Refer to [EXT-15, "Removal and Installation"](#).
11. Remove clips, and then remove air guide center and air guide upper.
12. Disengage harness clip from air guide side (RH).
13. Disengage pawls, and then remove air guide side (RH/LH).
14. Remove condenser. Refer to [HA-50, "Removal and Installation"](#).

RADIATOR CORE SUPPORT

[WITH INTELLIGENT KEY SYSTEM]

< REMOVAL AND INSTALLATION >

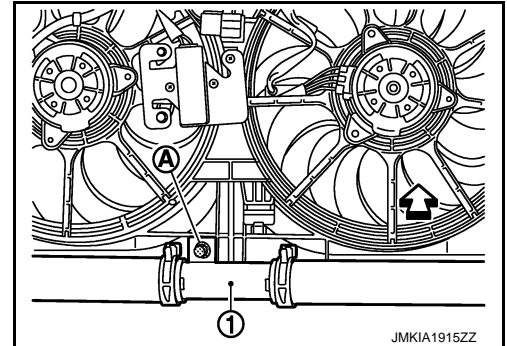
15. Remove radiator and engine coolant reservoir tank. Refer to [CO-17. "Removal and Installation"](#).

CAUTION:

Operate with two workers, because of it is heavy weight.

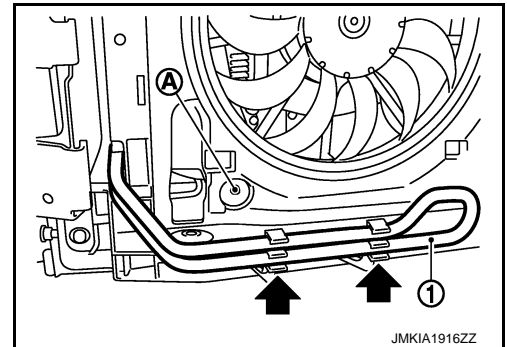
16. Disconnect connectors of the following parts.
- Ambient sensor. Refer to [VTL-26. "Removal and Installation"](#).
 - Cooling fan (RH/LH) and cooling fan control module. Refer to [CO-20. "Exploded View"](#).
 - Crash zone sensor. Refer to [SR-22. "Removal and Installation"](#).
17. Remove radiator upper hose from radiator core support. Refer to [CO-16. "Exploded View"](#).
18. Remove mounting bolt (A) of radiator lower hose bracket (1). Refer to [CO-16. "Exploded View"](#).

← : Vehicle front



19. Remove radiator lower hose clamp (A) from radiator core support.
20. Remove power steering oil cooler pipe (1) from radiator core support.
21. Remove power steering oil cooler pipe clips.

← : Clip



22. Remove all harness clips from radiator core support.
23. Remove mounting bolts, and then remove radiator core support.

CAUTION:

Never damage power steering oil cooler pipe.

24. Remove the following parts after removing radiator core support.
- Ambient sensor. Refer to [VTL-26. "Removal and Installation"](#).
 - Cooling fan (RH/LH) and cooling fan control module. Refer to [CO-20. "Exploded View"](#).
 - Crash zone sensor. Refer to [SR-22. "Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

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DLK

FRONT FENDER

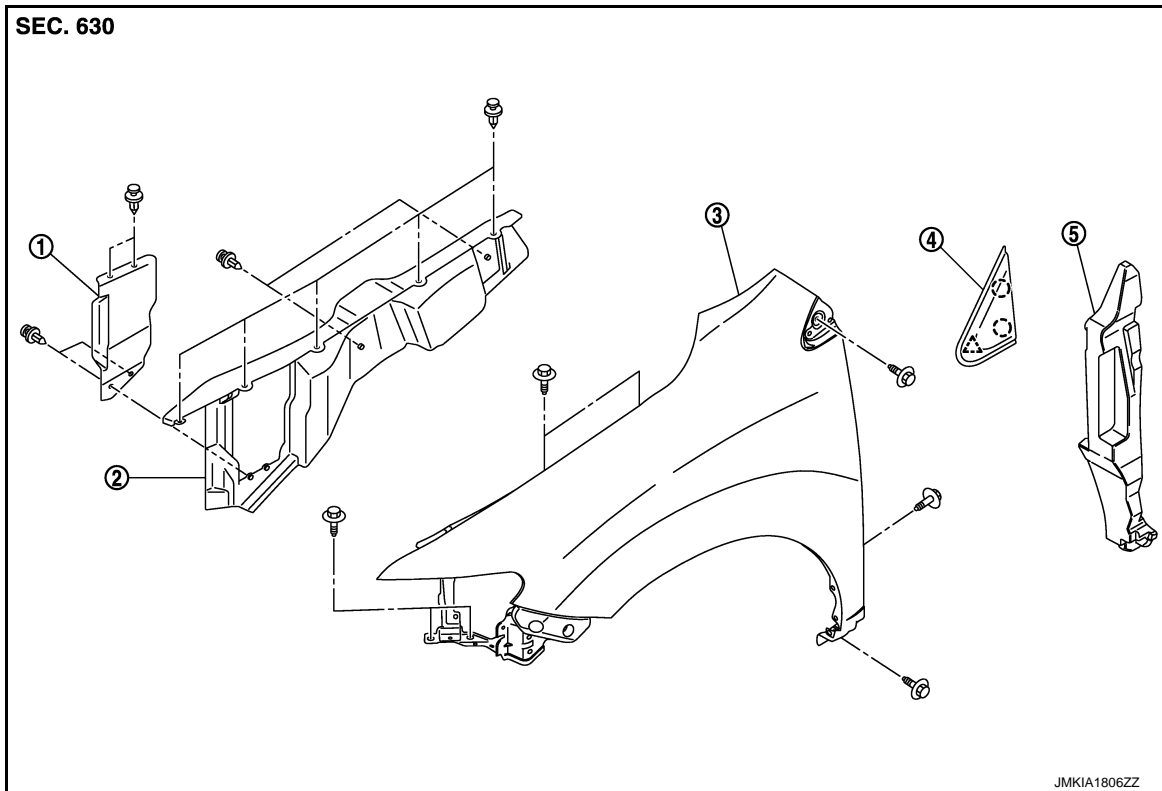
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

FRONT FENDER

Exploded View

INFOID:000000009719222



- 1. Front fender seal (front)
- 2. Front fender seal (rear)
- 3. Front fender assembly
- 4. Front fender finisher
- 5. Insulator

○ : Clip
△ : Pawl

Removal and Installation

INFOID:000000009719223

CAUTION:

Use a shop cloth to protect the body from being damaged during removal and installation.

REMOVAL

1. Remove clips and remove front fender seal (front/rear).
2. Remove front grille. Refer to [EXT-21, "Removal and Installation"](#).
3. Remove front bumper fascia. Refer to [EXT-15, "Removal and Installation"](#).
4. Remove front combination lamp. Refer to [EXL-179, "Removal and Installation"](#) (XENON TYPE), [EXL-360, "Removal and Installation"](#) (HALOGEN TYPE).
5. Remove fender protector. Refer to [EXT-26, "FENDER PROTECTOR : Removal and Installation"](#).

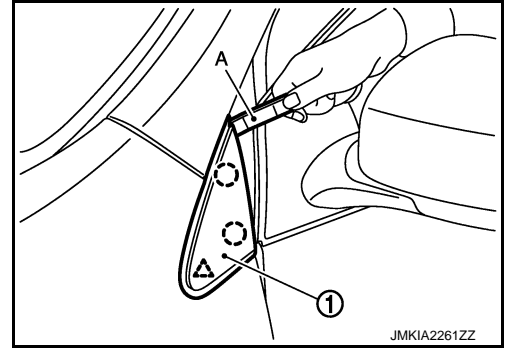
FRONT FENDER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

6. Using remover tool (A), remove front fender finisher (1).

- : Clip
△ : Pawl



7. Disengage front part of windshield glass molding from front fender.
8. Remove mounting bolts and remove front fender.

CAUTION:

An viscous urethane foam is installed on the back surface of front fender. When removing the front fender, peel of the urethane foam bit at a time, and carefully to remove it.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- After installation, check front fender adjustment. Refer to [DLK-309, "HOOD ASSEMBLY : Adjustment"](#) and [DLK-319, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply the touch-up paint (the body color) onto the head of front fender mounting bolts.

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FRONT DOOR

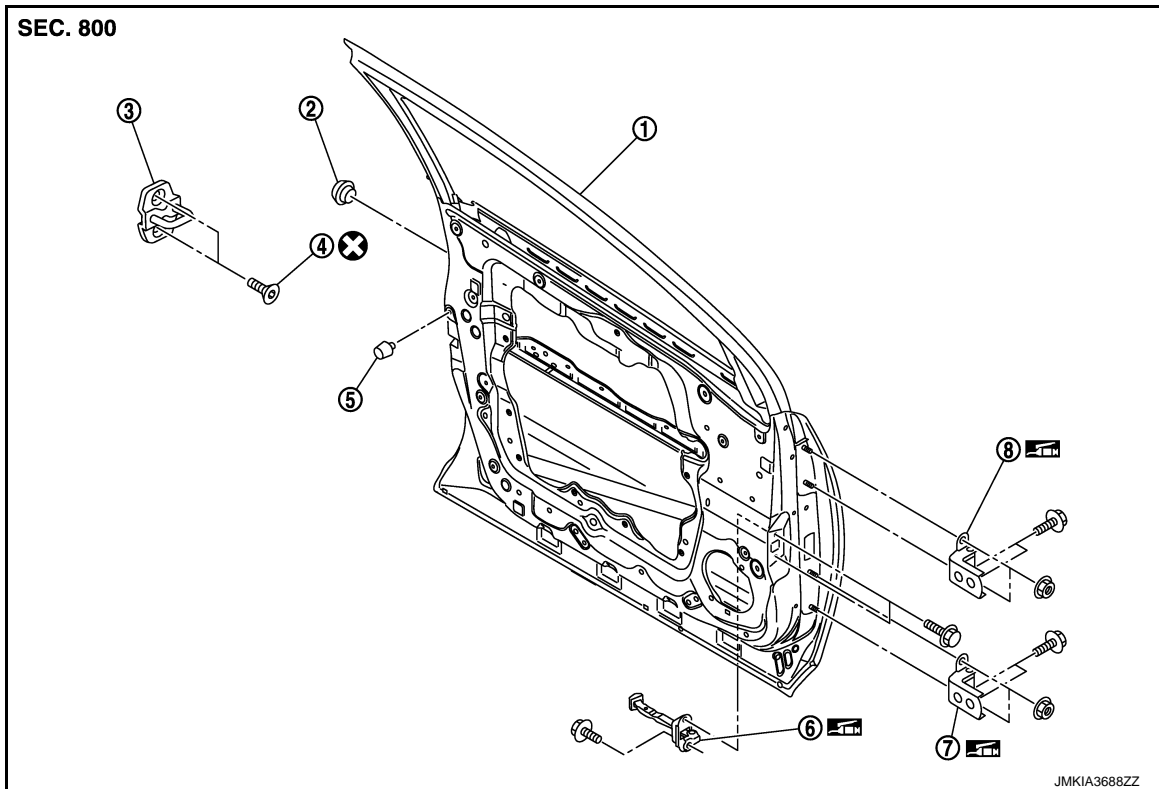
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000009719224



- | | | |
|-----------------------|-----------------------|--------------------|
| 1. Front door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Bumper rubber | 6. Door check link |
| 7. Door hinge (lower) | 8. Door hinge (upper) | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000009719225

CAUTION:

- Perform work with 2 workers, because of its heavy weight.
- When removing and installing front door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

1. Remove mounting bolts of door check link on the vehicle.
2. Remove front door harness grommet, and then pull out the harness from the vehicle.
3. Disconnect front door harness connector.
4. Remove door hinge mounting nuts (door side), and then remove door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check front door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to [DLK-319. "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

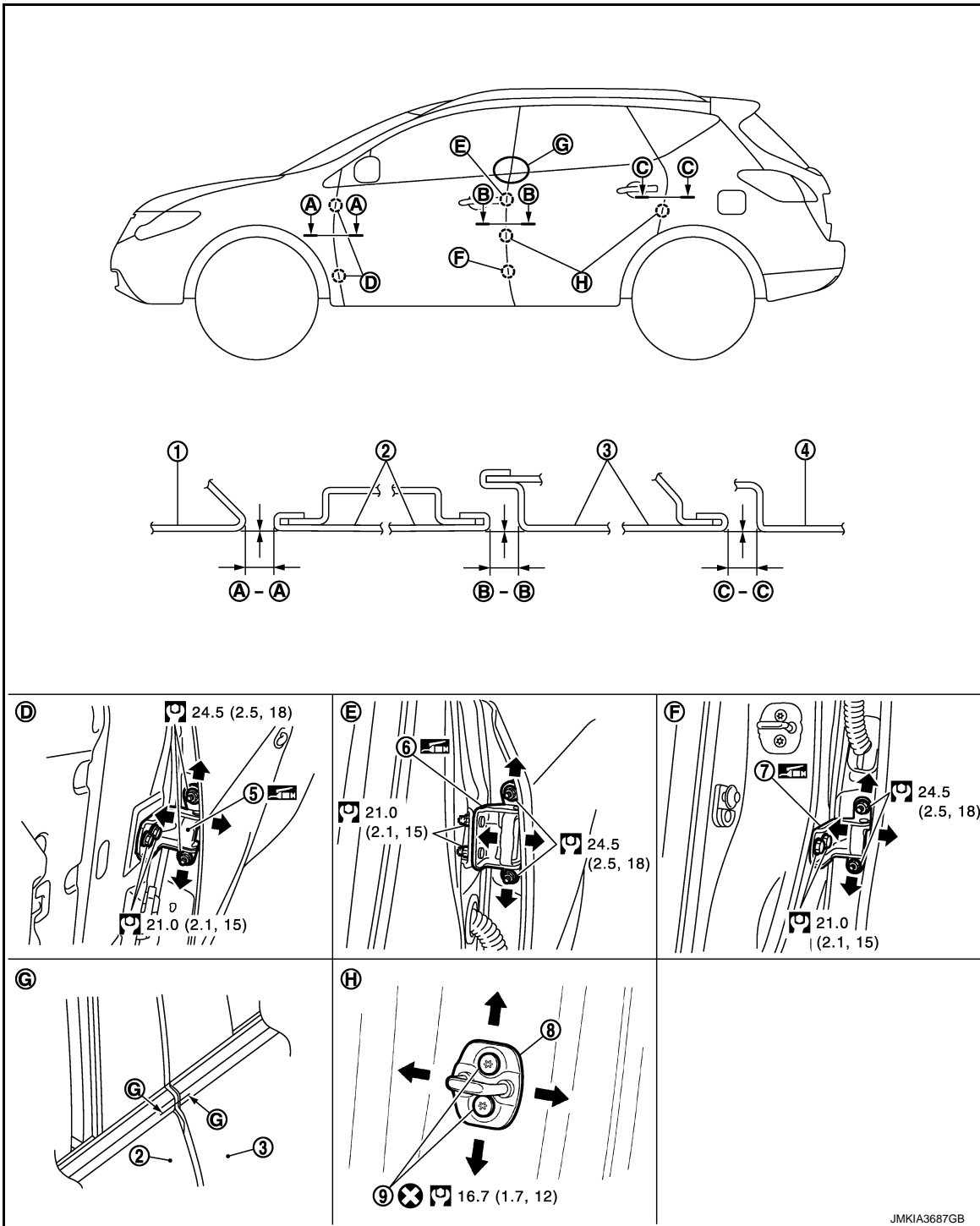
FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR ASSEMBLY : Adjustment

INFOID:000000009719226



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|----------------------------|---------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Front door hinge | 6. Rear door hinge (upper) |
| 7. Rear door hinge (lower) | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

Check the clearance and surface height between front door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Unit : mm (in)

Portion		Clearance	Surface height
Front fender – Front door	A – A	3.4 – 5.4 (0.134 – 0.213)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	B – B	3.4 – 5.4 (0.134 – 0.213)	- 1.0 – 1.0 (- 0.039 – 0.039)
Front door – Rear door	G – G	2.9 – 5.9 (0.114 – 0.237)	- 1.5 – 1.5 (- 0.059 – 0.059)

1. Remove front fender. Refer to [DLK-316. "Removal and Installation"](#).
2. Loosen door hinge mounting nuts on door side.
3. Adjust the surface height of front door according to the fitting standard dimension.
4. Temporarily tighten door hinge mounting nuts on door side.
5. Loosen door hinge mounting bolts on body side.
6. Raise front door at rear end to adjust clearance of the front door according to the fitting standard dimension.
7. After adjustment tighten bolts and nuts to the specified torque.
8. Install front fender. Refer to refer to [DLK-316. "Removal and Installation"](#).

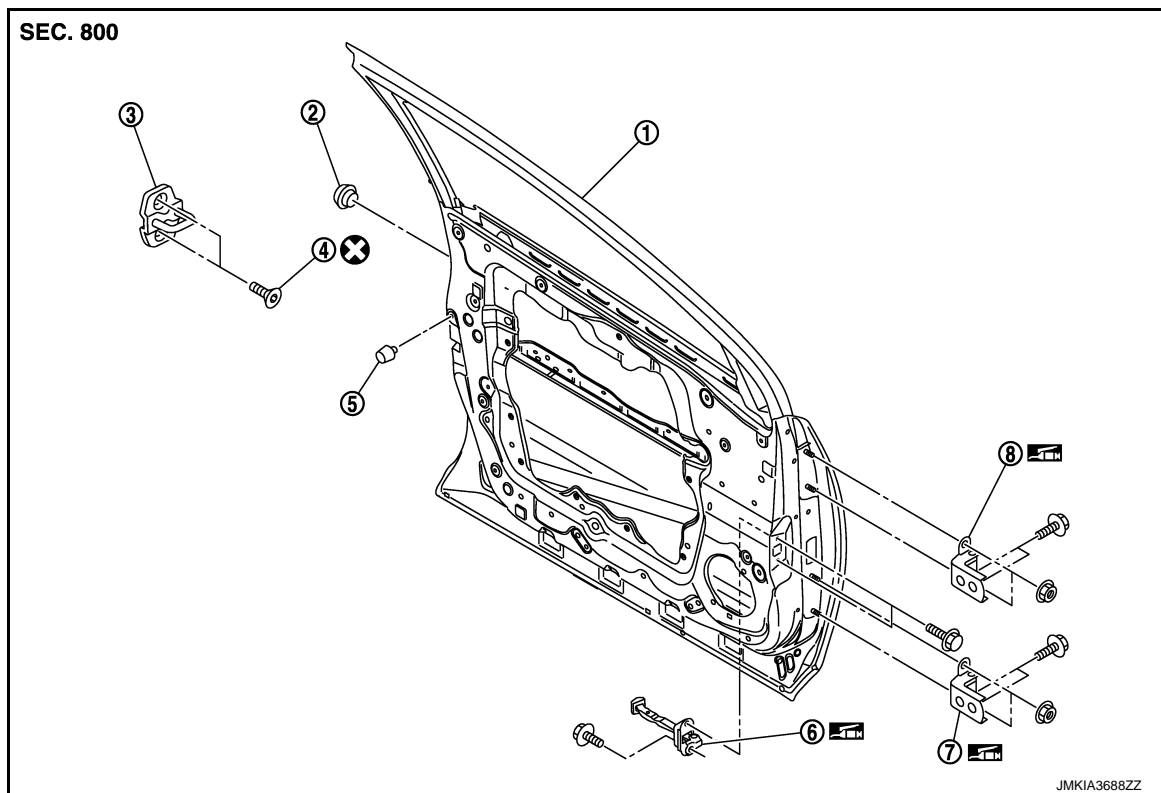
DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DOOR STRIKER : Exploded View

INFOID:000000009719227



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|-----------------------|-----------------------|--------------------|
| 1. Front door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Bumper rubber | 6. Door check link |
| 7. Door hinge (lower) | 8. Door hinge (upper) | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR STRIKER : Removal and Installation

INFOID:000000009719228

REMOVAL

Remove TORX bolts, and then remove door striker.

INSTALLATION

Install in the reverse order of removal.

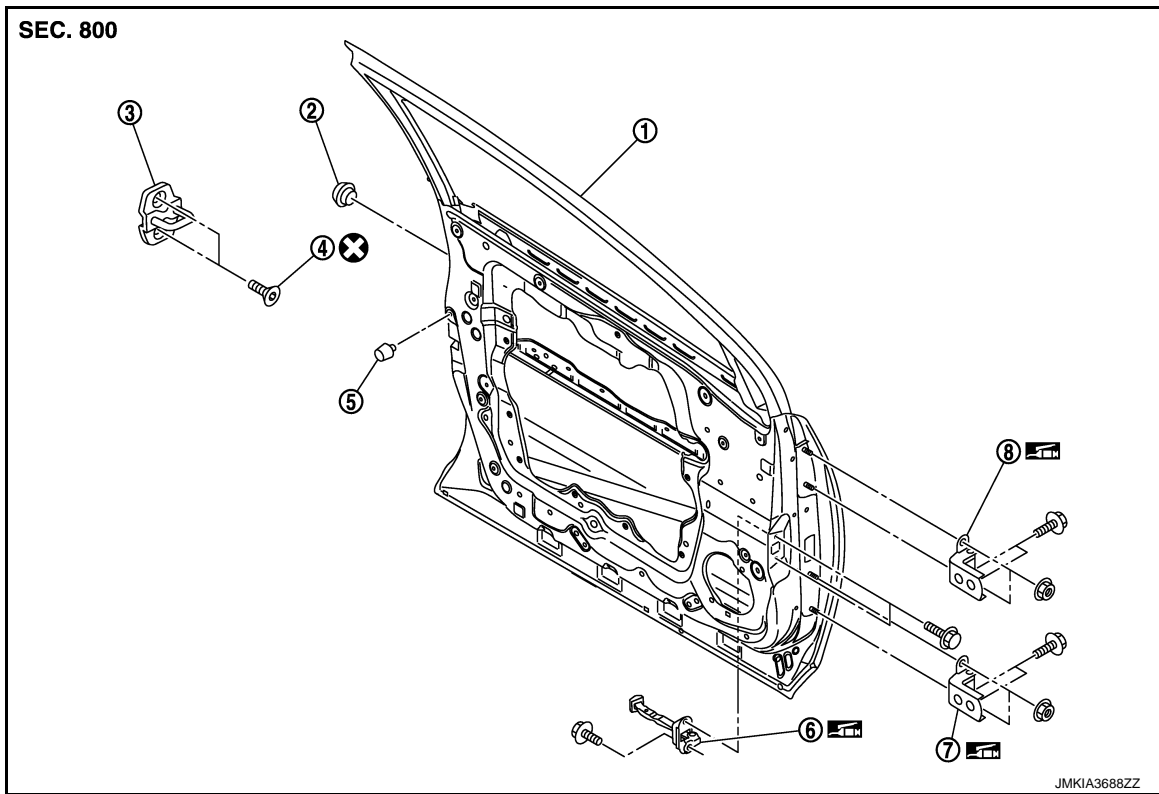
CAUTION:

- Check front door open/close, lock/unlock operation after installation.
- After installation, be sure to perform the fitting adjustment. Refer to [DLK-319, "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

DOOR HINGE : Exploded View

INFOID:000000009719229



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|-----------------------|-----------------------|--------------------|
| 1. Front door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Bumper rubber | 6. Door check link |
| 7. Door hinge (lower) | 8. Door hinge (upper) | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000009719230

REMOVAL

1. Remove front fender. Refer to [DLK-316, "Removal and Installation"](#).
2. Remove front door assembly. Refer to [DLK-318, "DOOR ASSEMBLY : Removal and Installation"](#).
3. Remove front door hinge mounting bolts, and then remove front door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check front door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.

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FRONT DOOR

< REMOVAL AND INSTALLATION >

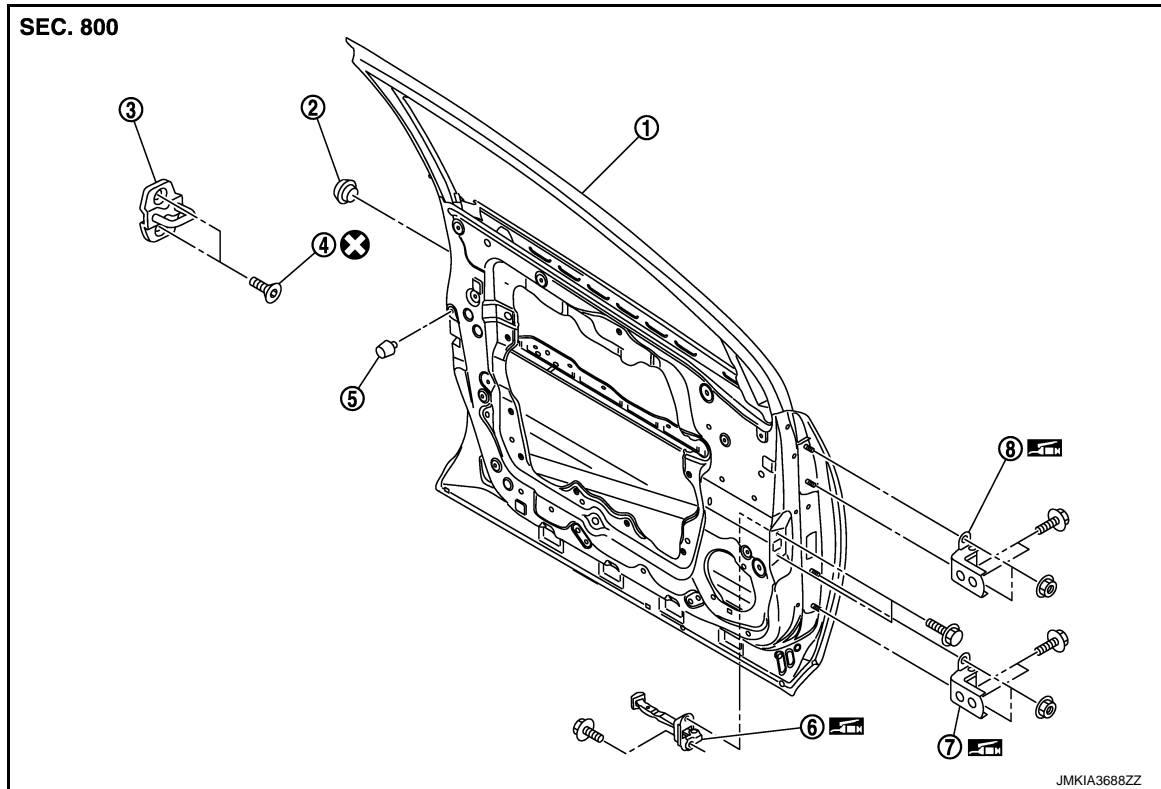
[WITH INTELLIGENT KEY SYSTEM]

- After installation, perform the fitting adjustment. Refer to [DLK-319, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

DOOR CHECK LINK

DOOR CHECK LINK : Exploded View

INFOID:000000009719231



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|-----------------------|-----------------------|--------------------|
| 1. Front door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Bumper rubber | 6. Door check link |
| 7. Door hinge (lower) | 8. Door hinge (upper) | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000009719232

REMOVAL

1. Remove front door finisher. Refer to [INT-13, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Fully close the front door window.
3. Remove front door speaker.
4. Remove mounting bolts of door check link on the vehicle.
5. Remove mounting bolts of door check link on door panel.
6. Take door check link out from the hole of door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check front door open/close operation after installation.

REAR DOOR

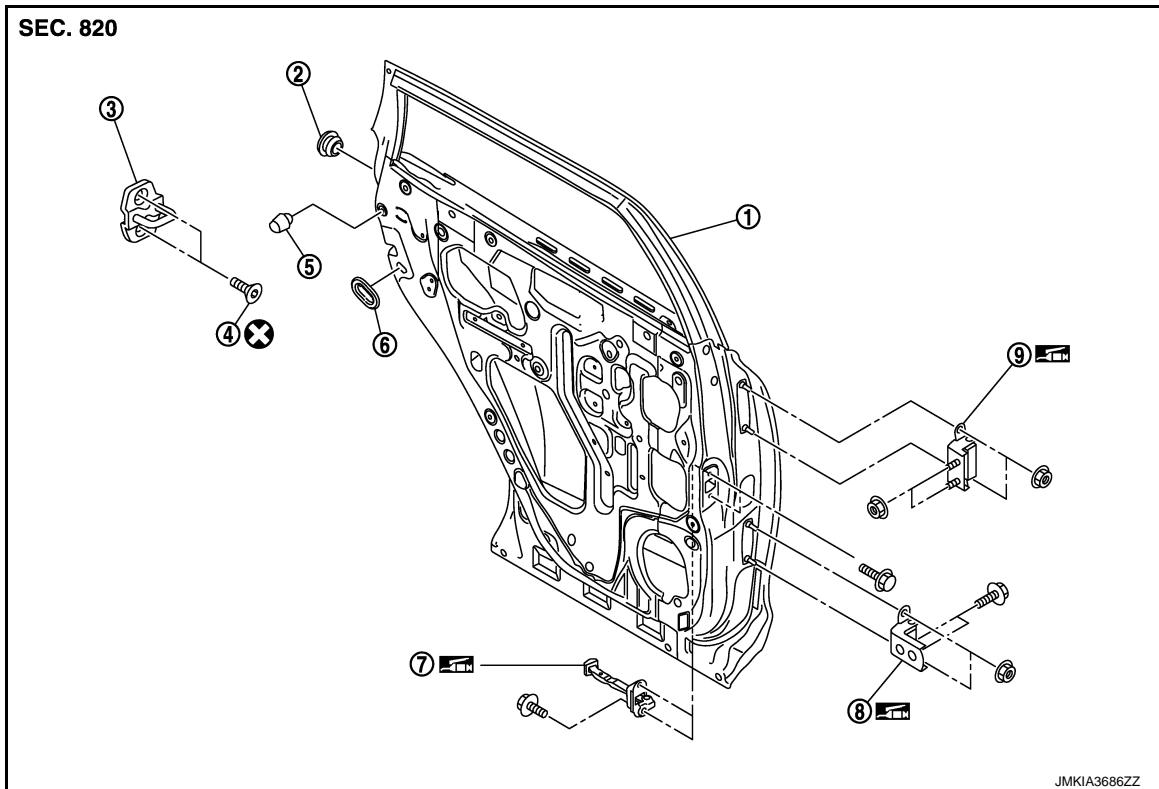
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Exploded View

INFOID:000000009719233



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Bumper rubber | 6. Seal rubber |
| 7. Door check link | 8. Door hinge (lower) | 9. Door hinge (upper) |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR ASSEMBLY : Removal and Installation

INFOID:000000009719234

CAUTION:

- Perform work with 2 workers, because of it's heavy weight.
- When removing and installing rear door assembly, support door with a jack and shop cloth to protect door and body.

REMOVAL

1. Remove mounting bolts of door check link on the vehicle.
2. Remove rear door harness grommet, and then pull out door harness from the vehicle.
3. Disconnect rear door harness connector.
4. Remove door hinge mounting nuts (door side), and then remove rear door assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check rear door open/close, lock/unlock operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- After installation, perform the fitting adjustment. Refer to [DLK-324, "DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.

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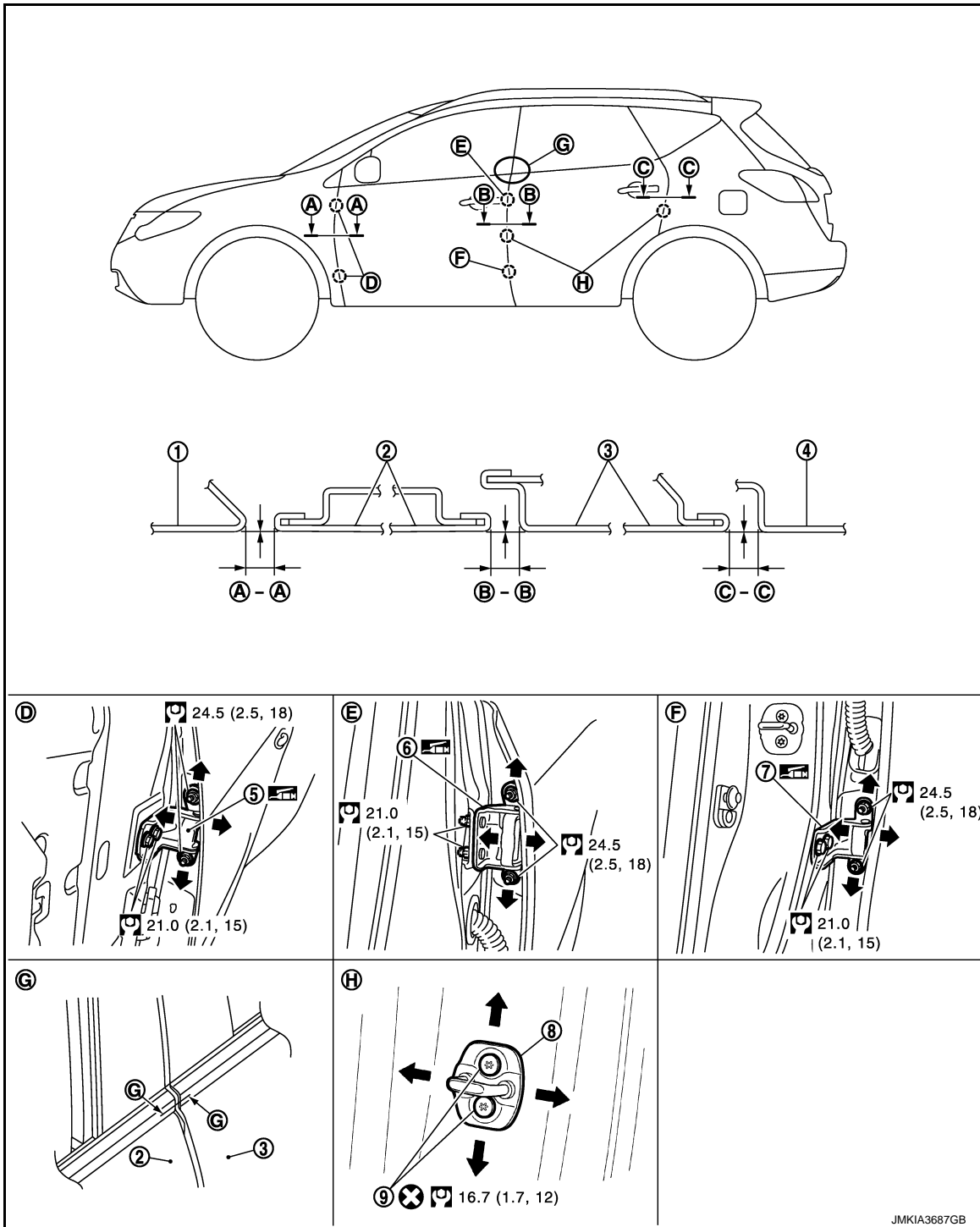
REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR ASSEMBLY : Adjustment

INFOID:00000009719235



JMKIA3687GB

- | | | |
|----------------------------|---------------------|----------------------------|
| 1. Front fender | 2. Front door | 3. Rear door |
| 4. Body side outer | 5. Front door hinge | 6. Rear door hinge (upper) |
| 7. Rear door hinge (lower) | 8. Door striker | 9. TORX bolt |

Refer to [GI-4. "Components"](#) for symbols in the figure.

Check the clearance and surface height between rear door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Portion		Clearance	Surface height
Front door – Rear door	B – B	3.4 – 5.4 (0.134 – 0.213)	-1.0 – 1.0 (-0.039 – 0.039)
Rear door – Body side outer	C – C	3.4 – 5.4 (0.134 – 0.213)	-1.0 – 1.0 (-0.039 – 0.039)
Front door – Rear door	G – G	2.9 – 5.9 (0.114 – 0.237)	-1.5 – 1.5 (-0.059 – 0.059)

1. Remove center pillar lower garnish. Refer to [INT-20. "Removal and Installation"](#).
2. Loosen door hinge mounting nuts on door side.
3. Adjust the surface height of rear door according to the fitting standard dimension.
4. Temporarily tighten door hinge mounting nuts on door side.
5. Loosen door hinge mounting nuts and bolts on body side.
6. Raise rear door at rear end to adjust clearance of rear door according to the fitting standard dimension.
7. After adjustment tighten bolts and nuts to the specified torque.
8. Install center pillar lower garnish. Refer to [INT-20. "Removal and Installation"](#).

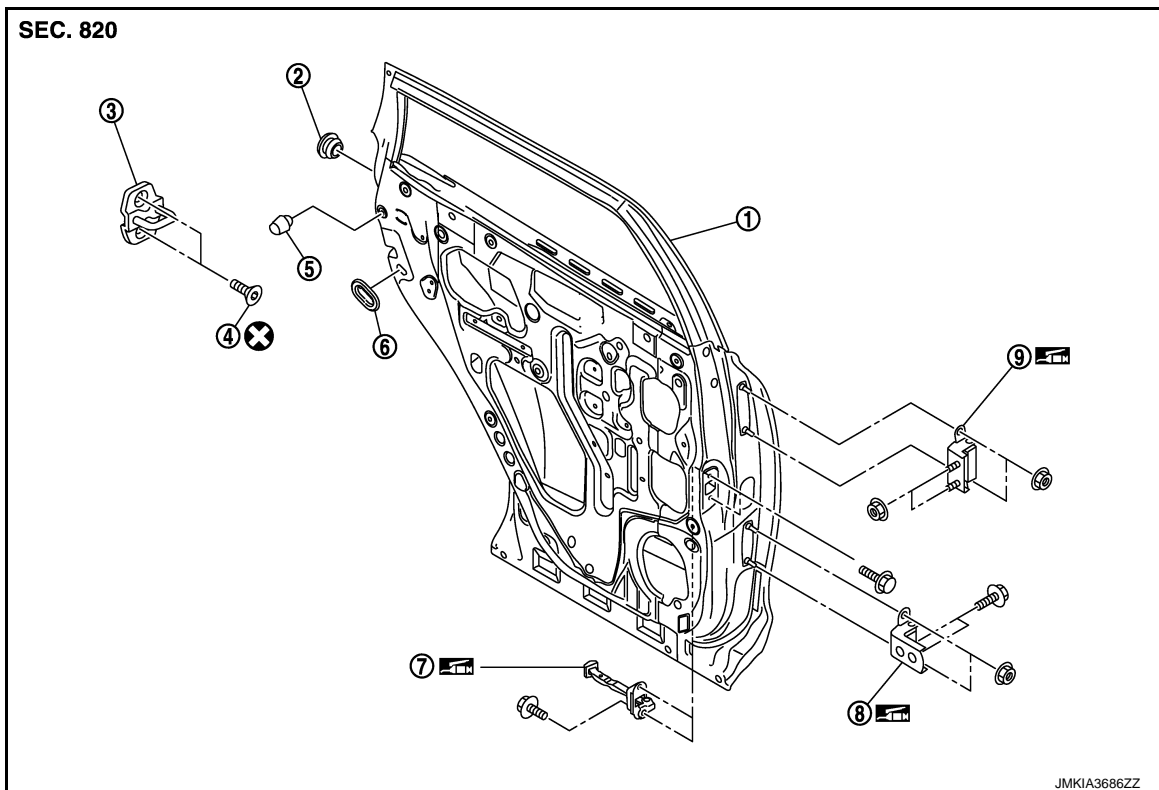
DOOR STRIKER ADJUSTMENT

Adjust door striker so that it becomes parallel with door lock insertion direction.

DOOR STRIKER

DOOR STRIKER : Exploded View

INFOID:000000009719236



- | | | |
|--------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Bumper rubber | 6. Seal rubber |
| 7. Door check link | 8. Door hinge (lower) | 9. Door hinge (upper) |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR STRIKER : Removal and Installation

INFOID:000000009719237

REMOVAL

REAR DOOR

[WITH INTELLIGENT KEY SYSTEM]

< REMOVAL AND INSTALLATION >

Remove TORX bolts, and then remove door striker.

INSTALLATION

Install in the reverse order of removal.

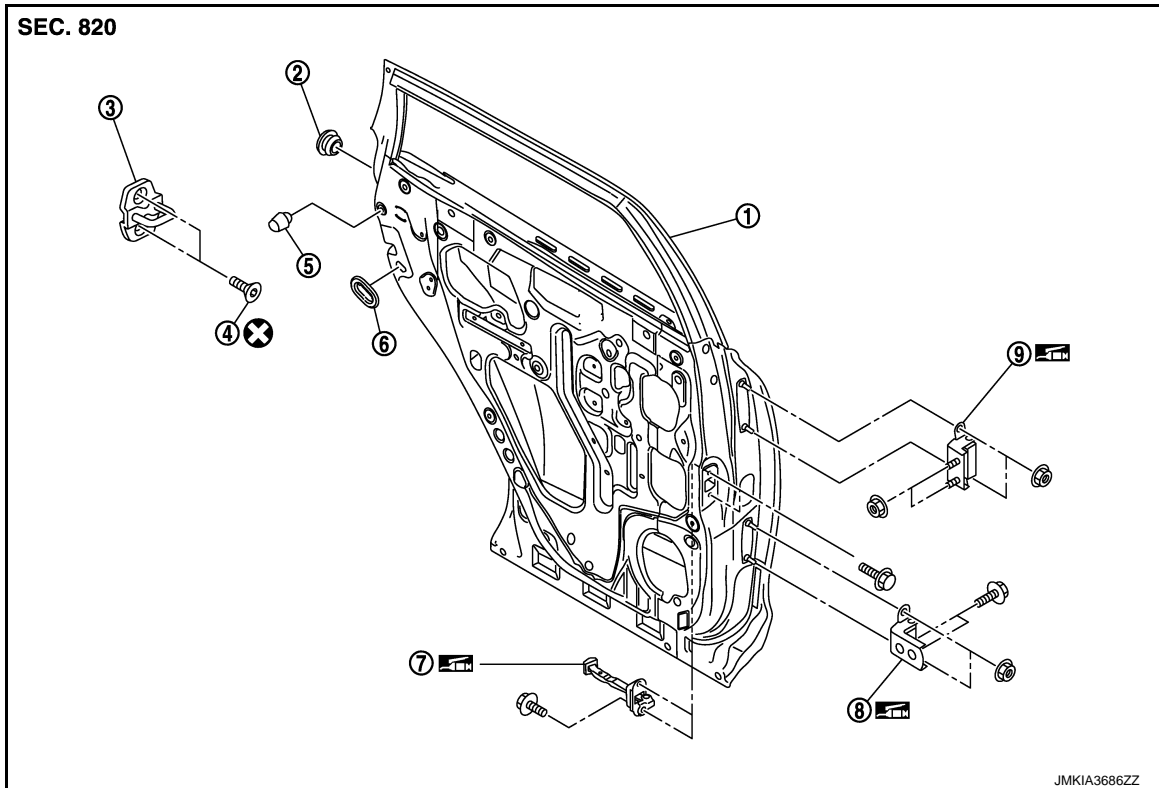
CAUTION:

- Check rear door open/close, lock/unlock operation after installation.
- After installation, be sure to perform the fitting adjustment. Refer to [DLK-324, "DOOR ASSEMBLY : Adjustment"](#).

DOOR HINGE

DOOR HINGE : Exploded View

INFOID:000000009719238



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|--------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Bumper rubber | 6. Seal rubber |
| 7. Door check link | 8. Door hinge (lower) | 9. Door hinge (upper) |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR HINGE : Removal and Installation

INFOID:000000009719239

REMOVAL

1. Remove center pillar lower garnish. Refer to [INT-20, "Removal and Installation"](#).
2. Remove rear door assembly. Refer to [DLK-323, "DOOR ASSEMBLY : Removal and Installation"](#).
3. Remove rear door hinge mounting bolts and nuts (body side), and then remove door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check rear door open/close operation after installation.
- Check door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing rear door assembly, perform the fitting adjustment. Refer to [DLK-324, "DOOR ASSEMBLY : Adjustment"](#).
- After installing, apply the touch-up paint (the body color) onto the head of door hinge mounting nuts.

REAR DOOR

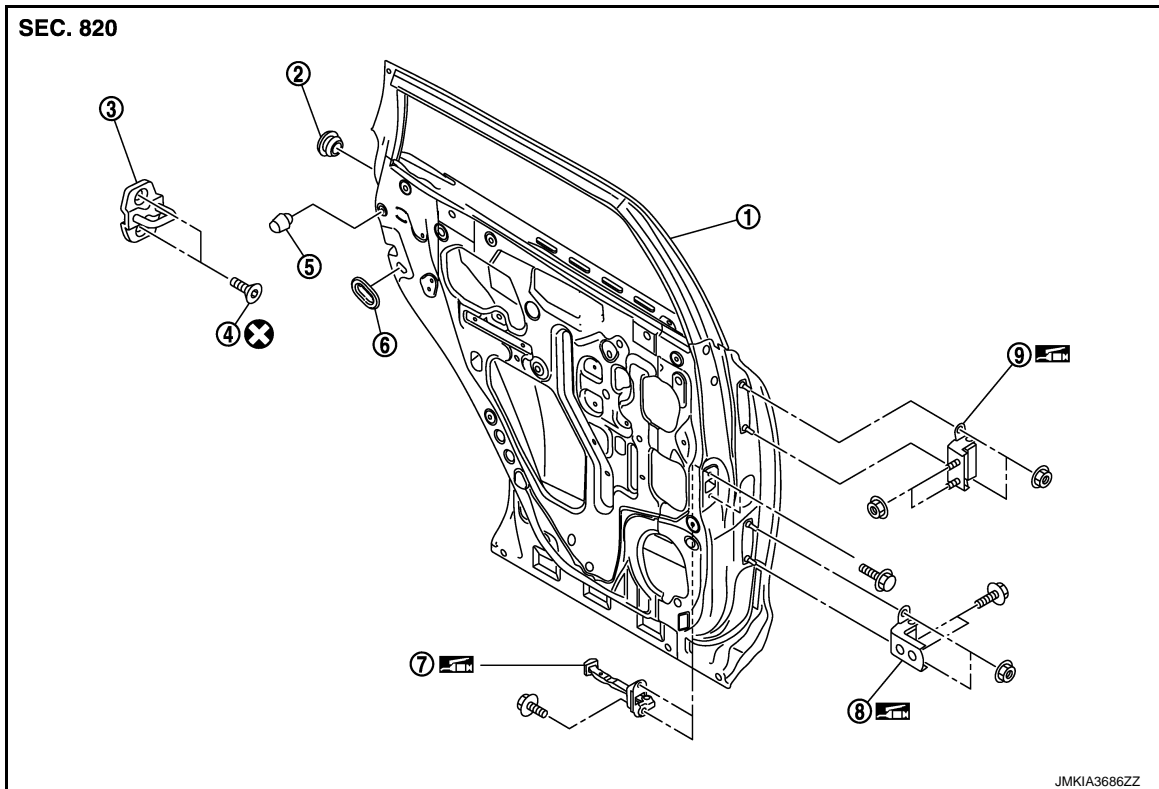
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR CHECK LINK

DOOR CHECK LINK : Exploded View

INFOID:000000009719240



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|--------------------|-----------------------|-----------------------|
| 1. Rear door panel | 2. Grommet | 3. Door striker |
| 4. TORX bolt | 5. Bumper rubber | 6. Seal rubber |
| 7. Door check link | 8. Door hinge (lower) | 9. Door hinge (upper) |

Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR CHECK LINK : Removal and Installation

INFOID:000000009719241

REMOVAL

1. Remove rear door finisher. Refer to [INT-17, "REAR DOOR FINISHER : Removal and Installation"](#).
2. Fully close the rear door window.
3. Remove rear door speaker.
4. Remove mounting bolts of the check link on the vehicle.
5. Remove mounting bolts of the check link on door panel.
6. Take door check link out from the hole of door panel.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check rear door open/close operation after installation.

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BACK DOOR

< REMOVAL AND INSTALLATION >

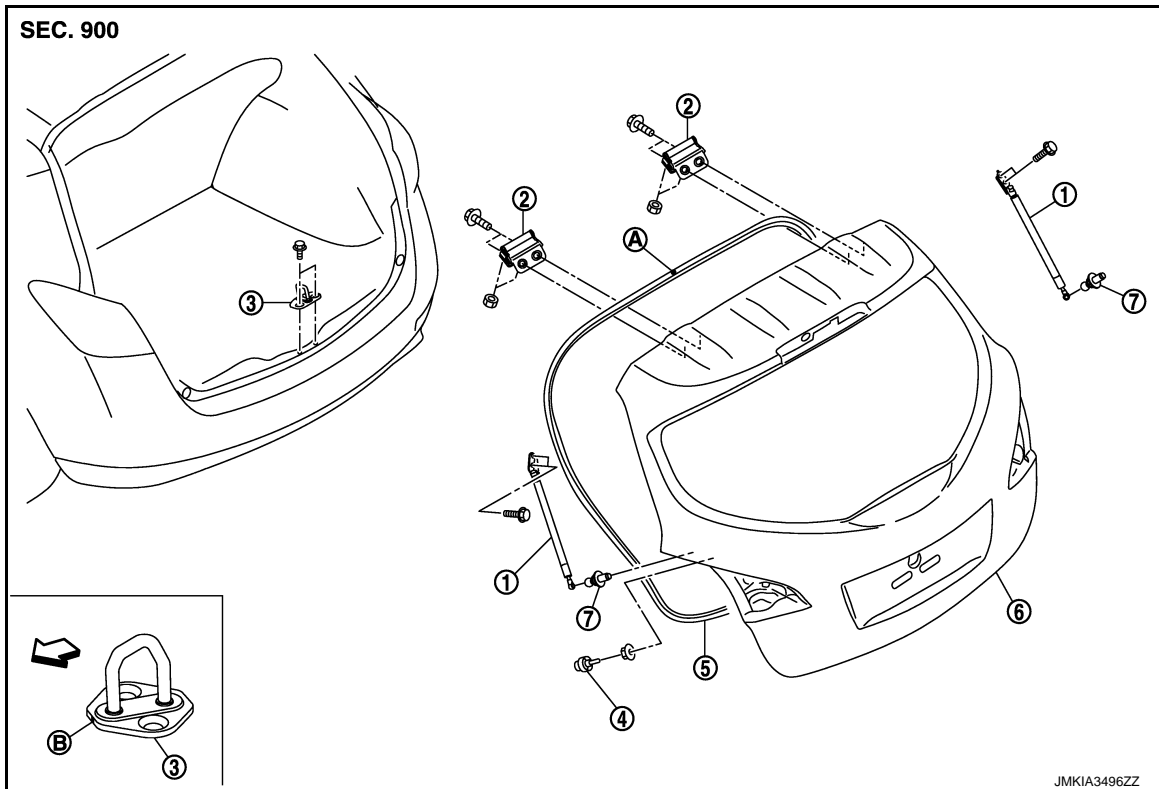
[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Exploded View

INFOID:000000009719242



1. Back door stay

2. Back door hinge

3. Back door striker

4. Bumper rubber

5. Back door weather-strip

6. Back door assembly

7. Stud ball

A : Center mark

B : Front mark

⇐ : Vehicle front

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:000000009719243

CAUTION:

Perform work with 2 workers, because of its heavy weight.

NOTE:

The back door harness constitute the back door assembly.

REMOVAL

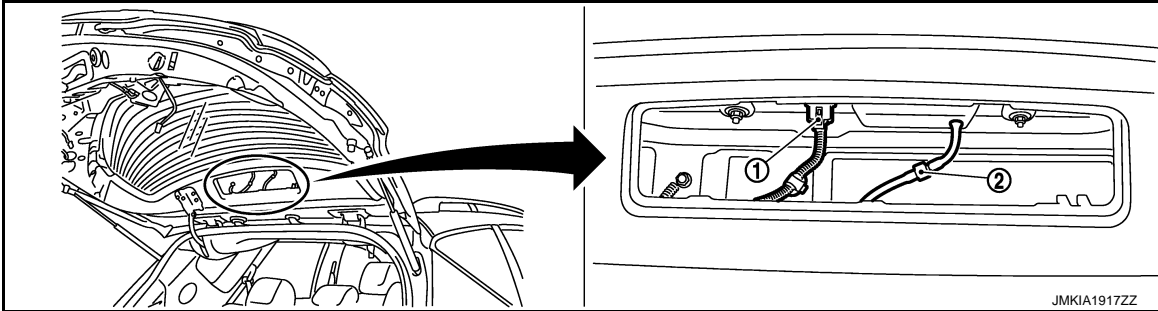
1. Remove back door finisher inner, back door hinge cover, back door plate. Refer to [INT-38, "Removal and Installation"](#).

BACK DOOR

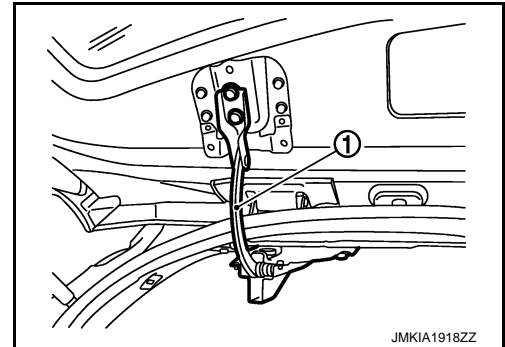
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

2. Remove grommet, and then disconnect connector (1), and washer tube (2).



3. Pull harness and washer tube out of back door.
4. Support back door lock with the proper material to prevent it from falling.
5. Remove mounting bolts of power back door drive assembly (1). (back door side)



6. Remove back door stay on back door side. Refer to [DLK-334, "BACK DOOR STAY : Removal and Installation"](#).
7. Remove back door hinge mounting bolts on back door and remove back door assembly.
8. Remove the following parts after removing back door assembly.
 - Bumper rubber
 - Stud ball
 - Back door lock assembly: Refer to [DLK-351, "DOOR LOCK : Removal and Installation"](#).
 - Touch sensor: Refer to [DLK-354, "TOUCH SENSOR : Removal and Installation"](#).
 - Patch: Refer to [DLK-351, "DOOR LOCK : Exploded View"](#).

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check back door open/close, lock/unlock operation after installation.
- After installation, perform fitting adjustment. Refer to [DLK-330, "BACK DOOR ASSEMBLY : Adjustment"](#).

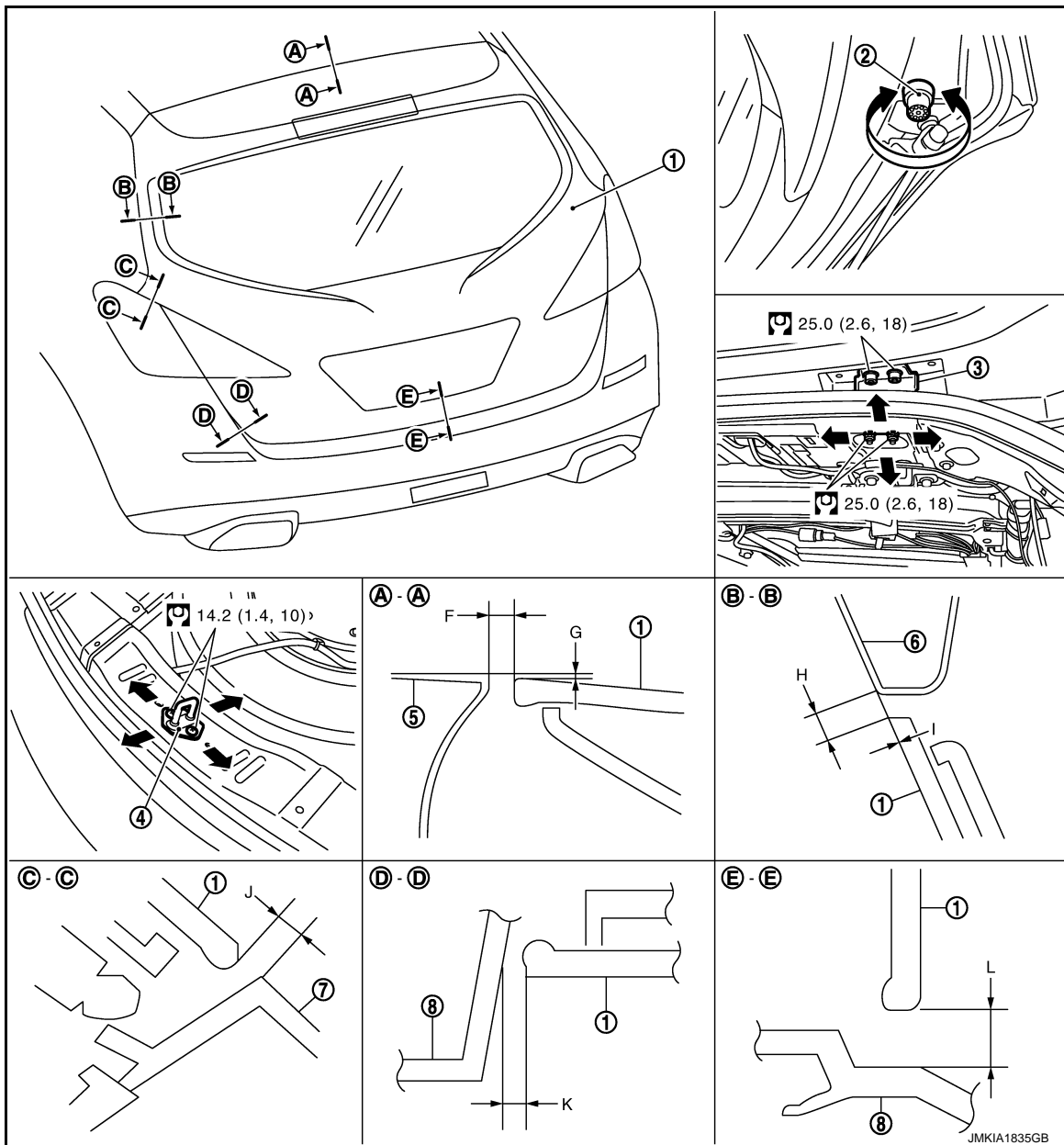
BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR ASSEMBLY : Adjustment

INFOID:00000009719244



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|--------------------------|-----------------------|--------------------|
| 1. Back door assembly | 2. Bumper rubber | 3. Back door hinge |
| 4. Back door striker | 5. Roof panel | 6. Body side outer |
| 7. Rear combination lamp | 8. Rear bumper fascia | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

Check the clearance and the surface height between back door and each part by visually and touching. If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm (in)

Portion		Standard		Difference (RH/LH)
Back door – Roof	A – A	F	Clearance	5.0 – 9.0 (0.197 – 0.354)
		G	Surface height	-1.0 – 3.0 (-0.039 – 0.118)

BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Portion			Standard	Difference (RH/LH)	
Back door – Rear fender	B – B	H	Clearance	4.0 – 8.0 (0.157 – 0.315)	—
		I	Surface height	-2.0 – 2.0 (-0.079 – 0.079)	—
Back door – Rear combination lamp	C – C	J	Clearance	4.0 – 8.0 (0.157 – 0.315)	< 2.0 (0.079)
Back door – Rear bumper fascia	D – D	K	Clearance	4.0 – 8.0 (0.157 – 0.315)	< 2.0 (0.079)
		L	Clearance	5.0 – 9.0 (0.197 – 0.354)	—

1. Remove back door hinge cover. Refer to [INT-38, "Removal and Installation"](#).
2. Loosen back door hinge mounting bolts (back door side).
3. Loosen bumper rubber.
4. Remove luggage rear plate mask. Refer to [INT-35, "Removal and Installation"](#).
5. Loosen back door striker mounting bolts.
6. Lift up back door approximately 100 – 150 mm (3.937 – 5.906 in) height then close it lightly and check that it is engaged firmly with back door closed.
7. Check the clearance and surface height.
8. Finally tighten back door hinge, bumper rubber, and back door striker.
9. Install back door hinge cover and luggage rear plate mask. Refer to [INT-38, "Removal and Installation"](#) and [INT-35, "Removal and Installation"](#).

CAUTION:

Adjust the following parts.

- Rear view camera.
- BASE AUDIO WITH COLOR DISPLAY: Refer to [AV-159, "Adjustment"](#).
- BOSE AUDIO WITHOUT NAVIGATION: Refer to [AV-290, "Adjustment"](#).
- BOSE AUDIO WITH NAVIGATION: Refer to [AV-466, "Adjustment \(Models without BSW and LDW\)"](#).

BACK DOOR STRIKER ADJUSTMENT

Adjust back door striker so that becomes parallel with back door lock insertion direction.

BACK DOOR STRIKER

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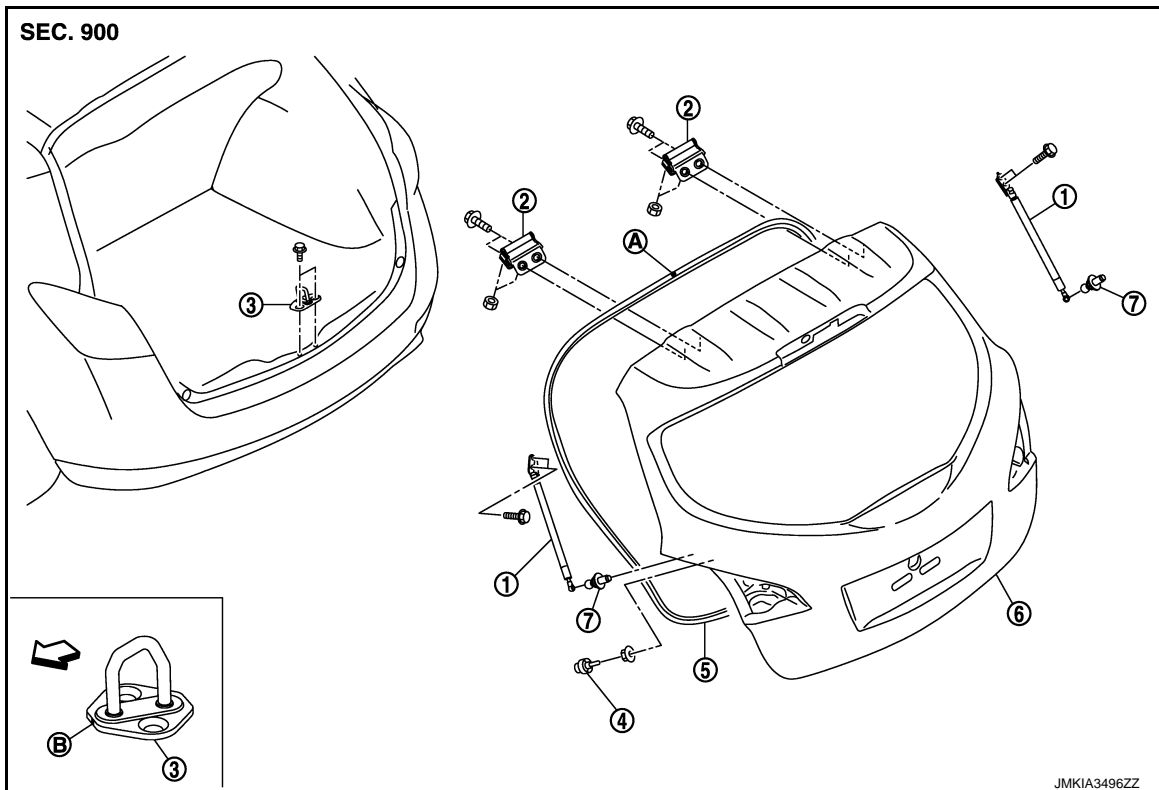
BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR STRIKER : Exploded View

INFOID:000000009719245



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|-------------------|----------------------------|-----------------------|
| 1. Back door stay | 2. Back door hinge | 3. Back door striker |
| 4. Bumper rubber | 5. Back door weather-strip | 6. Back door assembly |
| 7. Stud ball | | |
| A : Center mark | B : Front mark | |
| ← : Vehicle front | | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STRIKER : Removal and Installation

INFOID:000000009719246

REMOVAL

1. Remove luggage rear plate. Refer to [INT-35. "Removal and Installation"](#).
2. Remove mounting bolts, and then remove back door striker.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check back door open/close operation after installation.
- When removing and installing back door striker, be sure to perform the fitting adjustment. Refer to [DLK-330. "BACK DOOR ASSEMBLY : Adjustment"](#).

BACK DOOR HINGE

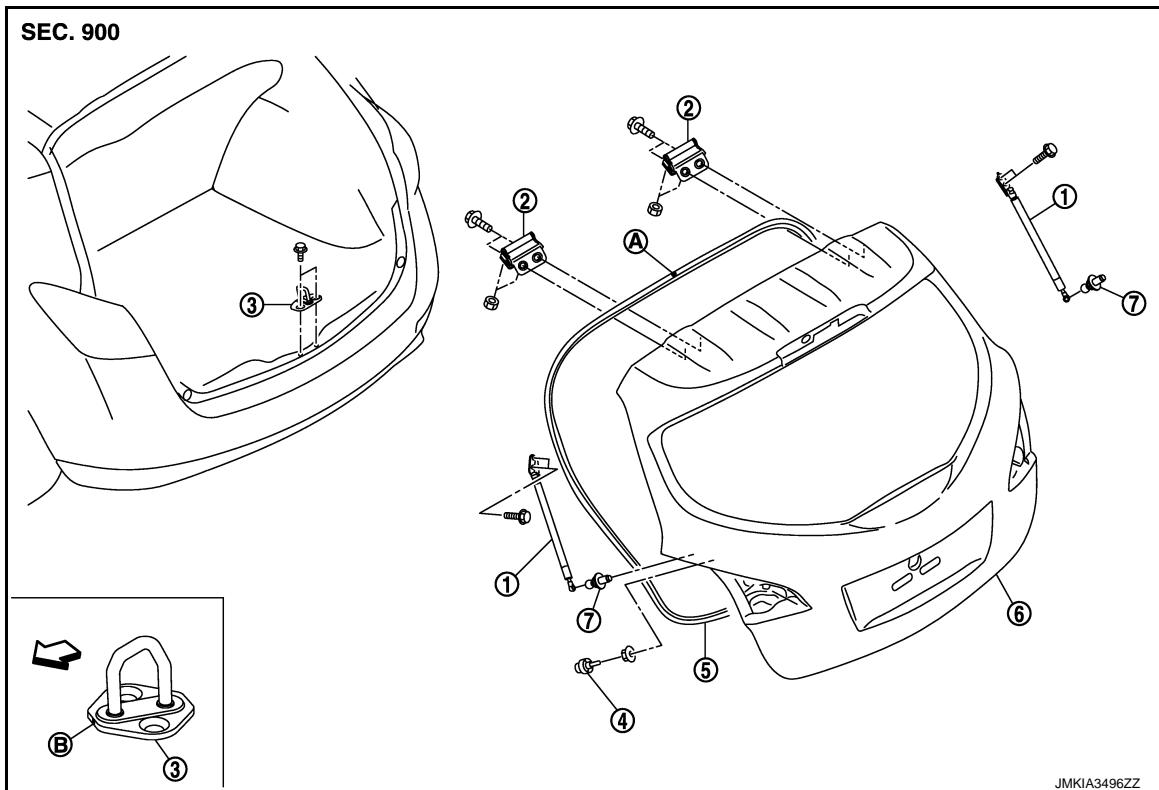
BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR HINGE : Exploded View

INFOID:000000009719247



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|-------------------|----------------------------|-----------------------|
| 1. Back door stay | 2. Back door hinge | 3. Back door striker |
| 4. Bumper rubber | 5. Back door weather-strip | 6. Back door assembly |
| 7. Stud ball | | |
| A : Center mark | B : Front mark | |
| ↔ : Vehicle front | | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR HINGE : Removal and Installation

INFOID:000000009719248

REMOVAL

1. Remove back door assembly. Refer to [DLK-328, "BACK DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove luggage side finisher lower and luggage side finisher upper. Refer to [INT-38, "Removal and Installation"](#).
3. Using a remover tool, remove headlining clip at the rear side of headlining. Refer to [INT-26, "NORMAL ROOF : Exploded View"](#) (NORMAL ROOF), [INT-30, "SUNROOF : Exploded View"](#) (SUNROOF).
4. Remove rear side of headlining.
5. Remove power back door drive assembly. Refer to [DLK-352, "POWER BACK DOOR DRIVE ASSEMBLY : Removal and Installation"](#).
6. Remove back door hinge mounting nuts (body side), and then remove back door hinge.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Check back door open/close operation after installation.
- Check back door hinge rotating part for poor lubrication. If necessary, apply body grease.
- When removing and installing back door assembly, perform the fitting adjustment. Refer to [DLK-330, "BACK DOOR ASSEMBLY : Adjustment"](#).
- After installation, apply touch-up paint (the body color) onto the head of back door hinge mounting nuts.

BACK DOOR

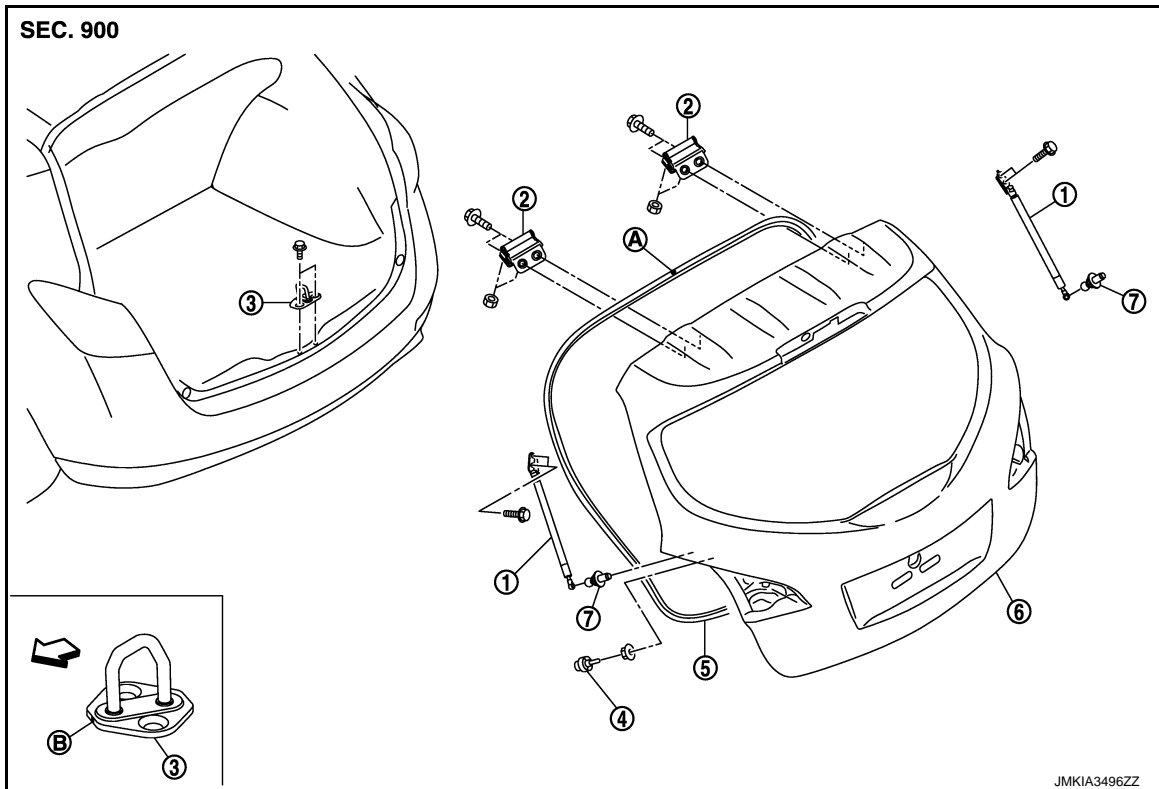
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR STAY

BACK DOOR STAY : Exploded View

INFOID:000000009719249



- | | | |
|-------------------|----------------------------|-----------------------|
| 1. Back door stay | 2. Back door hinge | 3. Back door striker |
| 4. Bumper rubber | 5. Back door weather-strip | 6. Back door assembly |
| 7. Stud ball | | |

A : Center mark B : Front mark

↔ : Vehicle front

Refer to [GI-4. "Components"](#) for symbols in the figure.

BACK DOOR STAY : Removal and Installation

INFOID:000000009719250

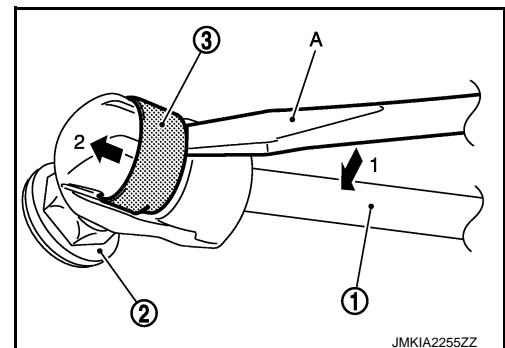
REMOVAL

1. Support back door assembly with the proper material to prevent it from falling.

WARNING:

Bodily injury may occur if no supporting rod is holding back door open when removing back door stay.

2. Remove mounting bolts of back door stay (body side).
3. Remove metal clip (3) located on the connection between the back door stay (1) and the stud ball (2) (back door side), by using a flat-bladed screwdriver (A).
4. Disengage and remove back door stay from stud ball (back door side).



BACK DOOR

[WITH INTELLIGENT KEY SYSTEM]

< REMOVAL AND INSTALLATION >

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check back door open/close operation after installation.

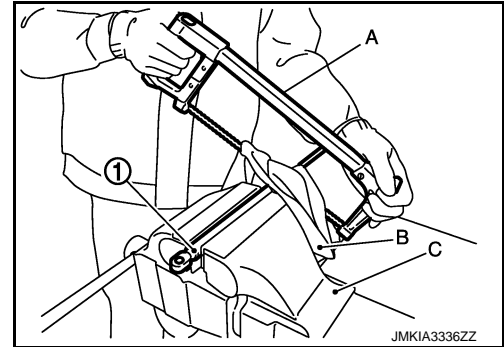
BACK DOOR STAY : Disposal

INFOID:000000009719251

1. Fix back door stay (1) using a vise (C).
2. Using hacksaw (A) slowly make 2 holes in the back door stay, in numerical order as shown in the figure.

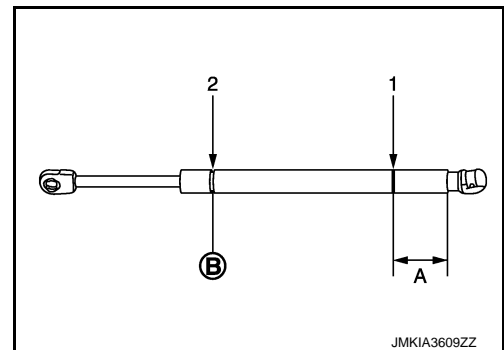
CAUTION:

- When cutting a hole on back door stay, always cover a hacksaw using a shop cloth (B) to avoid scattering metal fragments or oil.
- Wear eye protection (safety glasses).
- Wear gloves.



A: 20 mm (0.787 in)

B: Cut at the groove.



BACK DOOR WEATHER-STRIP

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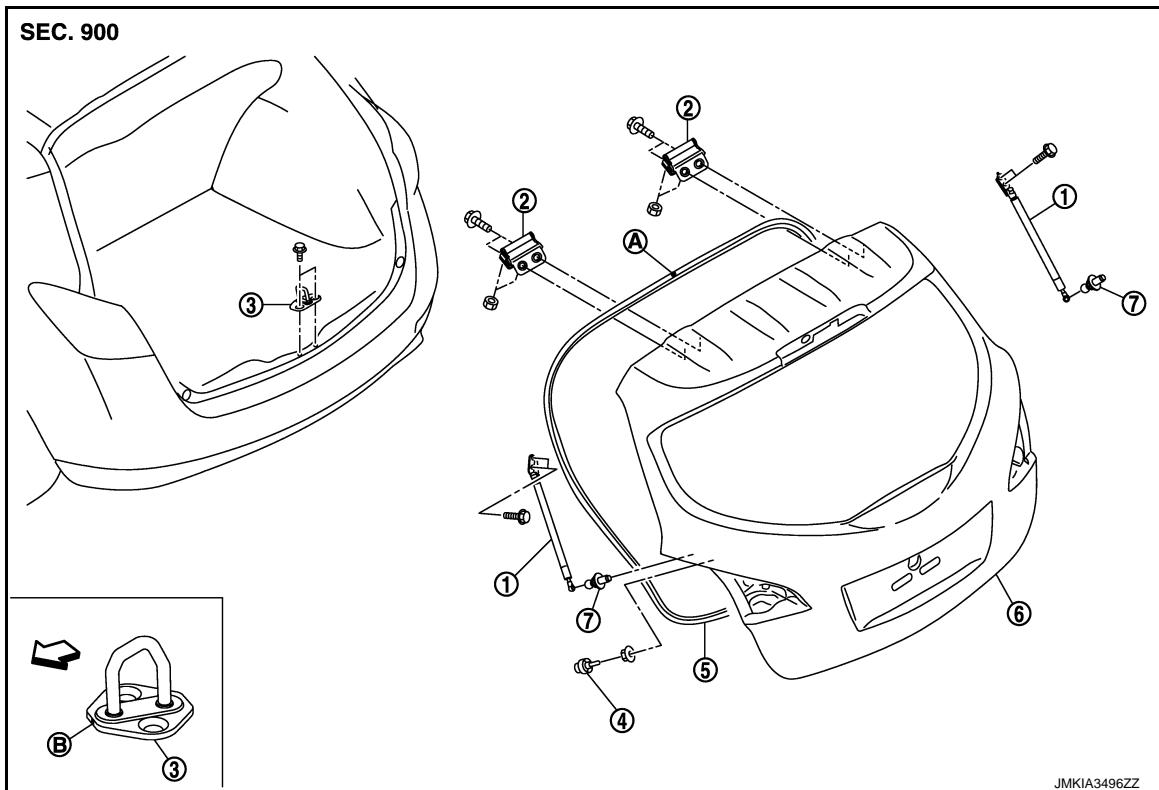
BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR WEATHER-STRIP : Exploded View

INFOID:000000009719252



- | | | |
|-------------------|----------------------------|-----------------------|
| 1. Back door stay | 2. Back door hinge | 3. Back door striker |
| 4. Bumper rubber | 5. Back door weather-strip | 6. Back door assembly |
| 7. Stud ball | | |
| A : Center mark | B : Front mark | |
| ↔ : Vehicle front | | |

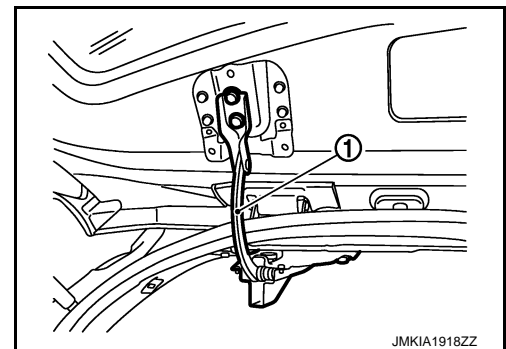
Refer to [GI-4, "Components"](#) for symbols in the figure.

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:000000009719253

REMOVAL

1. Remove mounting bolts of power back door drive assembly (1) (back door side).



2. Pull up and remove engagement with body from weather-strip joint.
CAUTION:
Never pull strongly on weather-strip.

INSTALLATION

1. Working from the upper section, align weather-strip center mark (A) with vehicle center mark (cutting position) and install weather-strip onto the vehicle.

BACK DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

2. For the lower section, align weather-strip seam with center of back door striker.
3. Pull weather-strip gently to ensure that there is no loose section.
NOTE:
Make sure that weather-strip is fit tightly at each corner and luggage rear plate.
4. Install mounting bolts of power back door drive assembly (back door side).

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HOOD LOCK

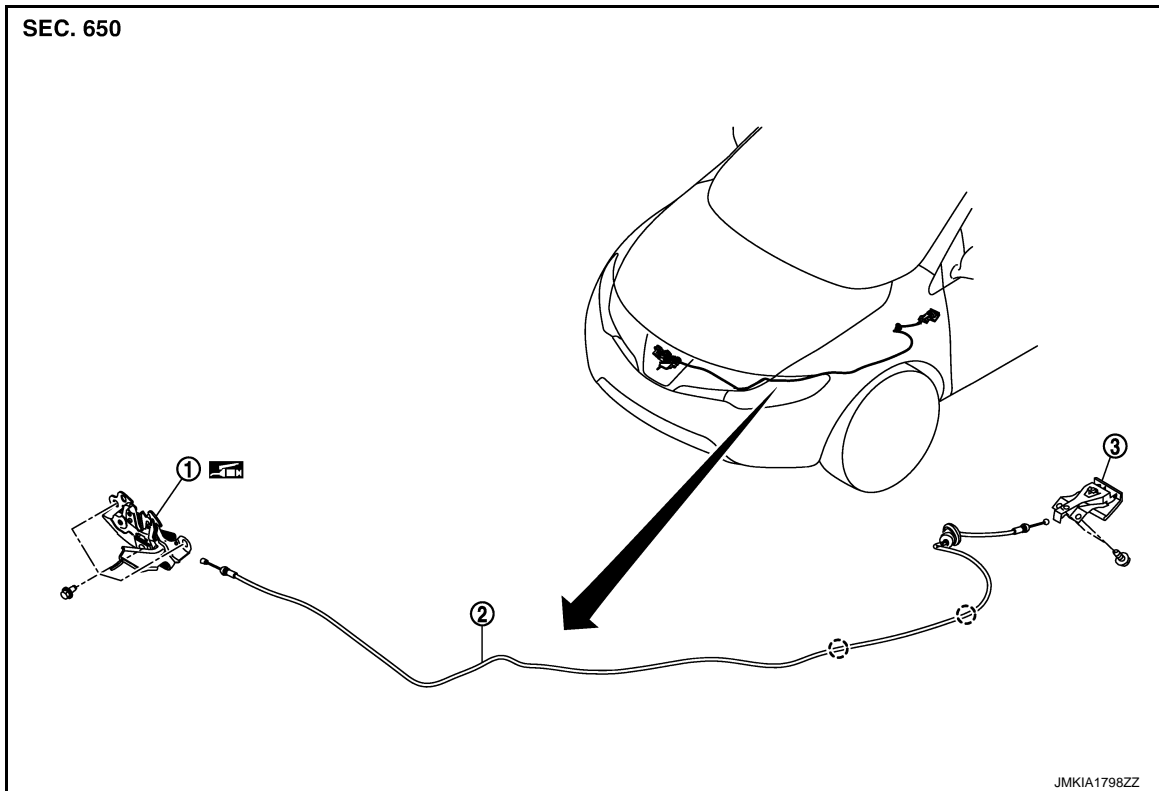
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

HOOD LOCK

Exploded View

INFOID:000000009719254



1. Hood lock assembly

2. Hood lock control cable

3. Hood lock opener

○ : Clip

Refer to [GI-4, "Components"](#) for symbols in the figure.

Removal and Installation

INFOID:000000009719255

REMOVAL

CAUTION:

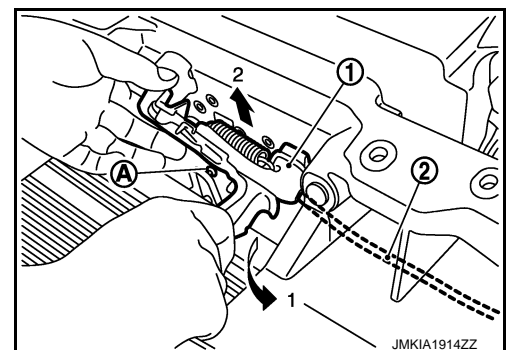
Check wiring of hood lock control before removal.

1. Remove front grille. Refer to [EXT-21, "Removal and Installation"](#).
2. Remove mounting bolts, and then remove hood lock assembly (1).

NOTE:

Press the lever downward to avoid pin (A), then pull out hood lock assembly upward.

3. Disconnect hood lock cable (2) from hood lock assembly.



4. Remove instrument lower panel (LH). Refer to [IP-15, "Removal and Installation"](#).
5. Disconnect hood lock cable from instrument lower panel (LH).
6. Remove fender protector (LH). Refer to [EXT-26, "FENDER PROTECTOR : Removal and Installation"](#).
7. Remove hood lock cable clamp.

HOOD LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Remove grommet on the lower dash, and pull the hood lock control cable toward the passenger compartment.

CAUTION:

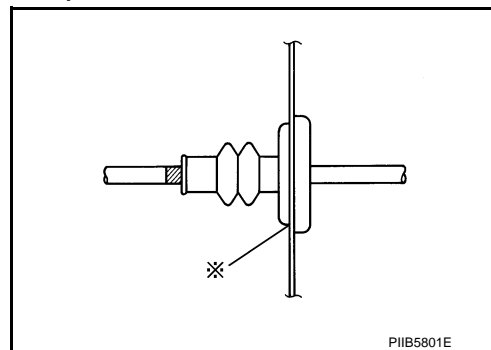
While pulling, never to damage (peeling) the outside of hood lock control cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Never to bend cable too much, keeping the radius 100 mm (3.937 in) or more.
- Check that cable is not offset from the positioning grommet, and apply the sealant to the grommet (at * mark) properly.



- Check that hood lock control cable is properly engaged with hood lock.
- After installation, perform hood fitting adjustment. Refer to [DLK-309, "HOOD ASSEMBLY : Adjustment"](#).
- After installation, perform hood lock control inspection. Refer to [DLK-339, "Inspection"](#).

Inspection

INFOID:000000009719256

NOTE:

If the hood lock cable is bent or deformed, replace it.

- Check that secondary latch is properly engaged with secondary striker [6.8 mm (0.268 in)] by hood weight.
- While operating hood opener, carefully check that the front end of hood is raised by approximately 20.0 mm (0.787 in). Also check that hood opener returns to the original position.
- Check that hood opener operating is condition 49 N (5.0 kg, 11.0 lb) or below.
- Install so that static closing face of hood is 94 – 490 N·m (9.6 – 50.0 kg·m, 69 – 361 ft – lb).

NOTE:

- Exert vertical force on right side and left side of hood lock.
 - Never press simultaneously both sides.
- Check the hood lock lubrication condition. If necessary, apply body grease to hood lock.

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FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

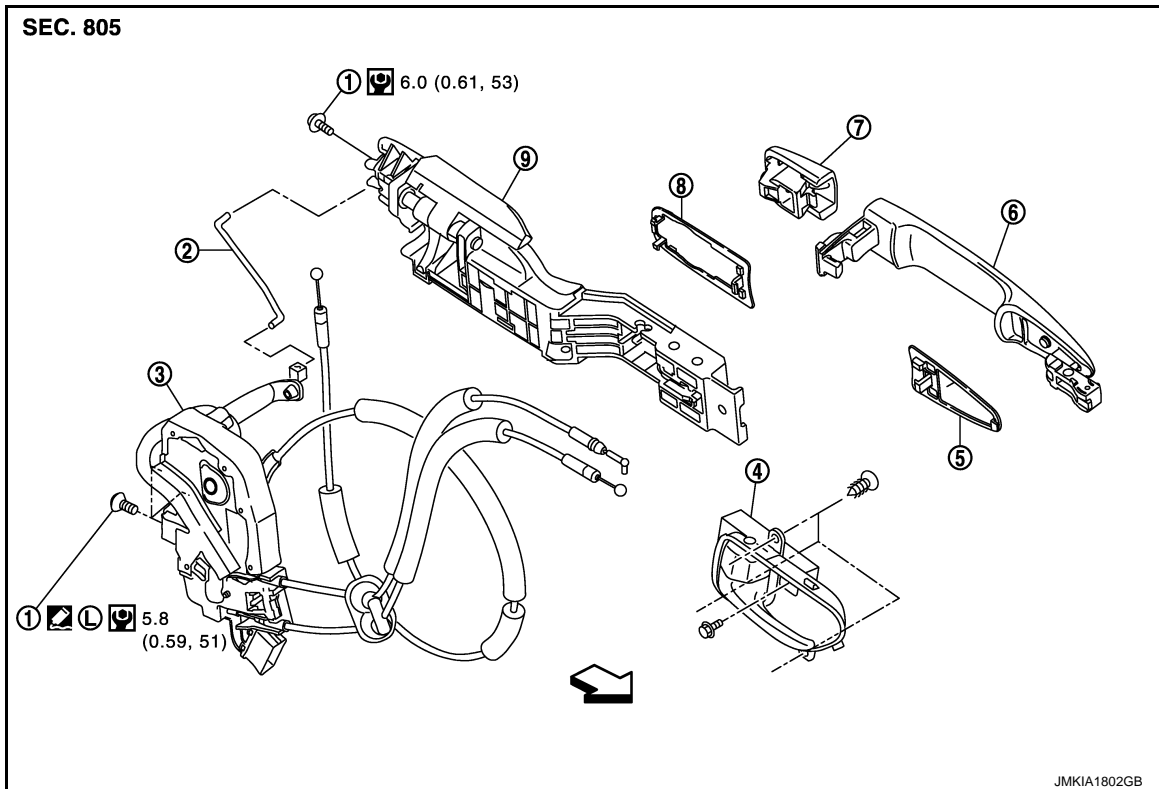
[WITH INTELLIGENT KEY SYSTEM]

FRONT DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000009719257



- | | | |
|---|-----------------|---------------------------|
| 1. TORX bolt | 2. Key rod | 3. Door lock assembly |
| 4. Inside handle | 5. Front gasket | 6. Outside handle |
| 7. Door key cylinder assembly (driver side)
Outside handle escutcheon (passenger side) | 8. Rear gasket | 9. Outside handle bracket |

← :Vehicle front

Ⓛ : Apply genuine high strength thread locking sealant or equivalent.

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000009719258

REMOVAL

1. Remove front door finisher. Refer to [INT-13. "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove front door glass. Refer to [GW-19. "Removal and Installation"](#).
3. Remove front door module assembly. Refer to [GW-22. "Removal and Installation"](#).
4. Disconnect door antenna and door request switch connector and remove harness clamp (models with Intelligent Key system) on outside handle bracket.

FRONT DOOR LOCK

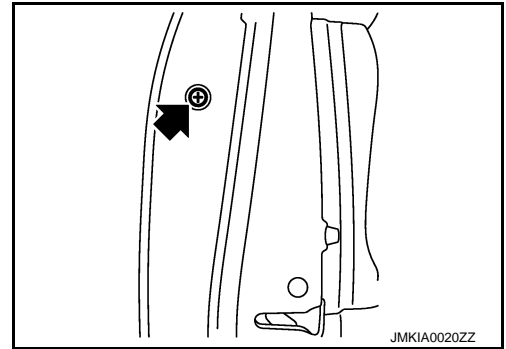
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

5. Remove door side grommet, and loosen TORX bolt from grommet hole.

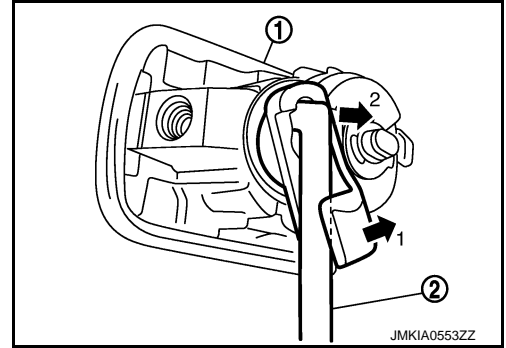
CAUTION:

Never forcibly remove TORX bolt.

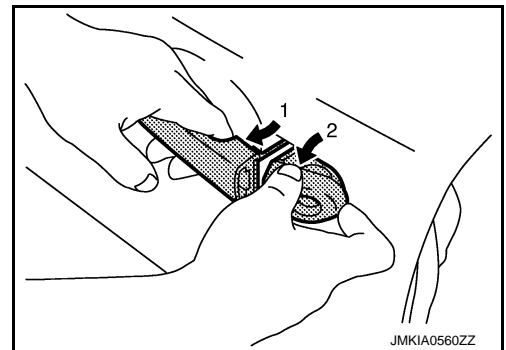


6. Reach in to separate door key rod connection (on the handle) (driver side).

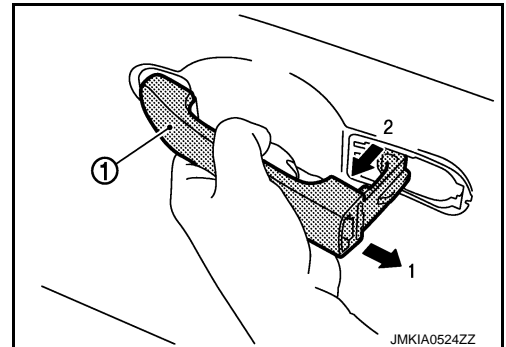
1. Door key cylinder assembly
2. Key rod



7. While pulling outside handle, remove door key cylinder assembly (driver side) or outside handle escutcheon (passenger side).



8. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



9. Remove front gasket and rear gasket.

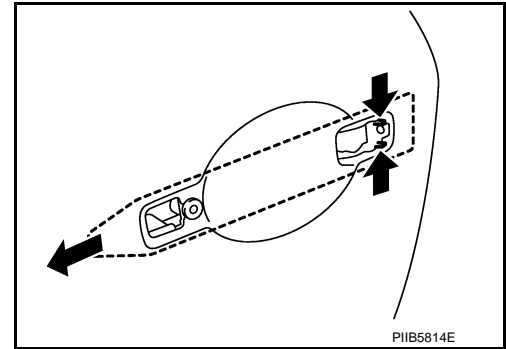
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FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

10. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



PIIB5814E

11. Reach in to separate outside handle cable connection on outside handle bracket.
12. Remove door lock assembly TORX bolts.
13. Disconnect door lock actuator connector, and then remove door lock assembly.
14. Remove key rod from door lock assembly.

INSTALLATION

Install in the reverse order of removal.

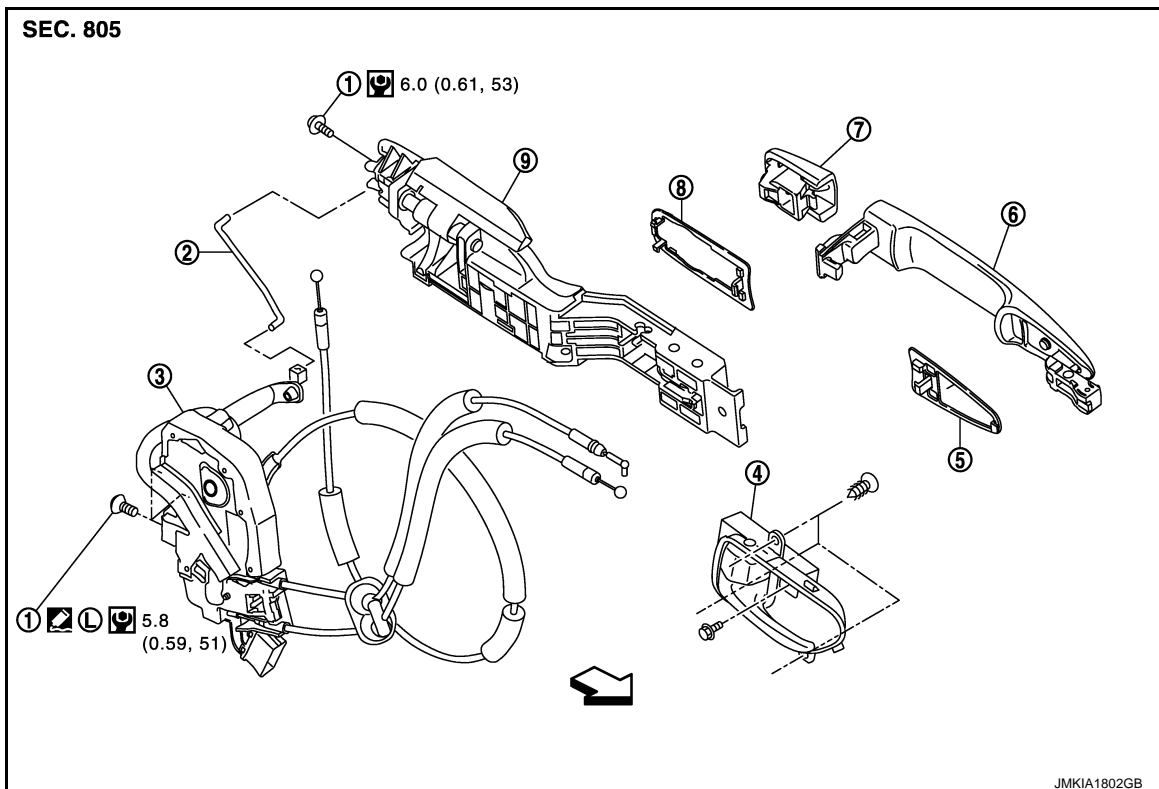
CAUTION:

- To install each rod, rotate rod holder until a click is felt.
- Check door open/close, lock/unlock operation after installation.

INSIDE HANDLE

INSIDE HANDLE : Exploded View

INFOID:000000009719259



JMKIA1802GB


- | | | |
|---|-----------------|---------------------------|
| 1. TORX bolt | 2. Key rod | 3. Door lock assembly |
| 4. Inside handle | 5. Front gasket | 6. Outside handle |
| 7. Door key cylinder assembly (driver side)
Outside handle escutcheon (passenger side) | 8. Rear gasket | 9. Outside handle bracket |

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

← :Vehicle front

 : Apply genuine high strength thread locking sealant or equivalent.

Refer to [GI-4, "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000009719260

REMOVAL

1. Remove front door finisher. Refer to [INT-13, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove inside handle mounting screws.
3. Disconnect inside handle cable, and then remove the inside handle.

INSTALLATION

Install in the reverse order of removal.

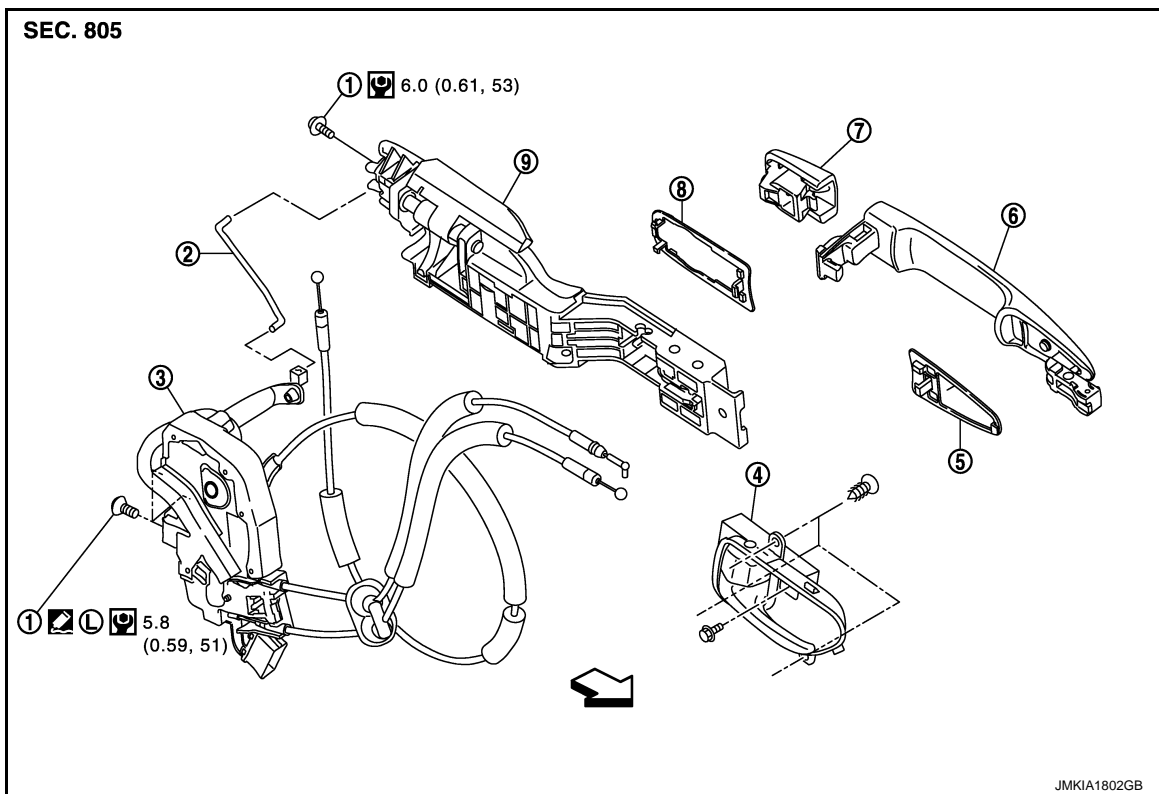
CAUTION:

Check door open/close, lock/unlock operation after installation.

OUTSIDE HANDLE


OUTSIDE HANDLE : Exploded View

INFOID:000000009719261



- | | | |
|---|-----------------|---------------------------|
| 1. TORX bolt | 2. Key rod | 3. Door lock assembly |
| 4. Inside handle | 5. Front gasket | 6. Outside handle |
| 7. Door key cylinder assembly (driver side) | 8. Rear gasket | 9. Outside handle bracket |
- Outside handle escutcheon (passenger side)

← :Vehicle front

 : Apply genuine high strength thread locking sealant or equivalent.

Refer to [GI-4, "Components"](#) for symbols in the figure.

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DLK

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE HANDLE : Removal and Installation

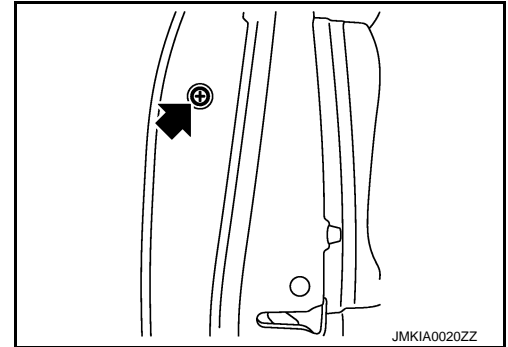
INFOID:00000009719262

REMOVAL

1. Remove front door finisher. Refer to [INT-13, "FRONT DOOR FINISHER : Removal and Installation"](#).
2. Remove front door glass. Refer to [GW-19, "Removal and Installation"](#).
3. Remove front door module assembly. Refer to [GW-19, "Removal and Installation"](#).
4. Disconnect door antenna and door request switch connector and remove harness clamp (models with Intelligent Key system) on outside handle bracket.
5. Remove door side grommet, and loosen TORX bolt from grommet hole.

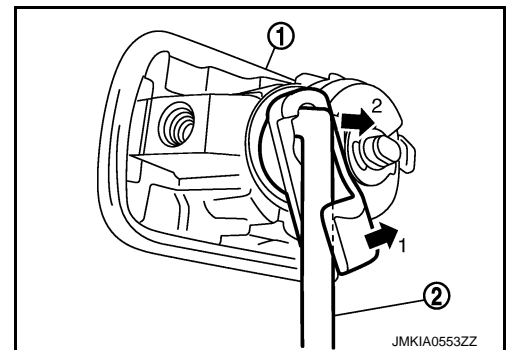
CAUTION:

Never forcibly remove TORX bolt.

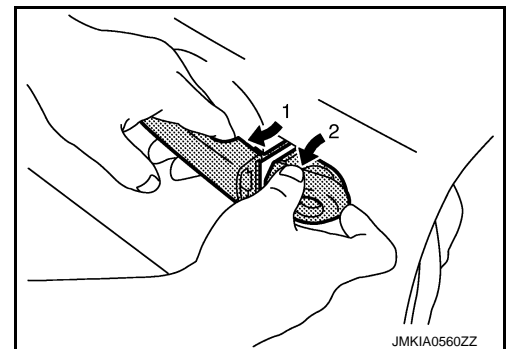


6. Reach in to separate door key rod connection (on the handle) (driver side).

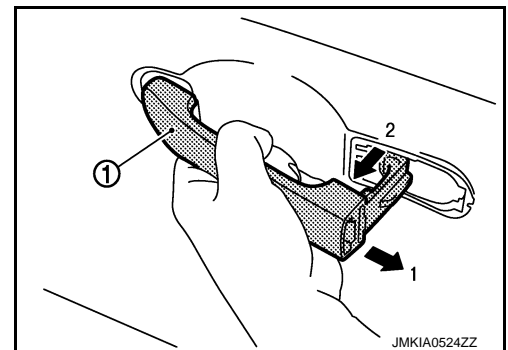
1. Door key cylinder assembly
2. Key rod



7. While pulling outside handle, remove door key cylinder assembly (driver side) or outside handle escutcheon (passenger side).



8. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



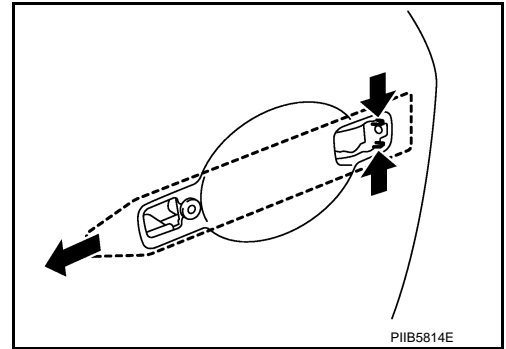
9. Remove front gasket and rear gasket.

FRONT DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

10. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



11. Reach in to separate outside handle cable connection on outside handle bracket.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install each rod, rotate rod holder until a click is felt.
- Check door open/close, lock/unlock operation after installation.

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REAR DOOR LOCK

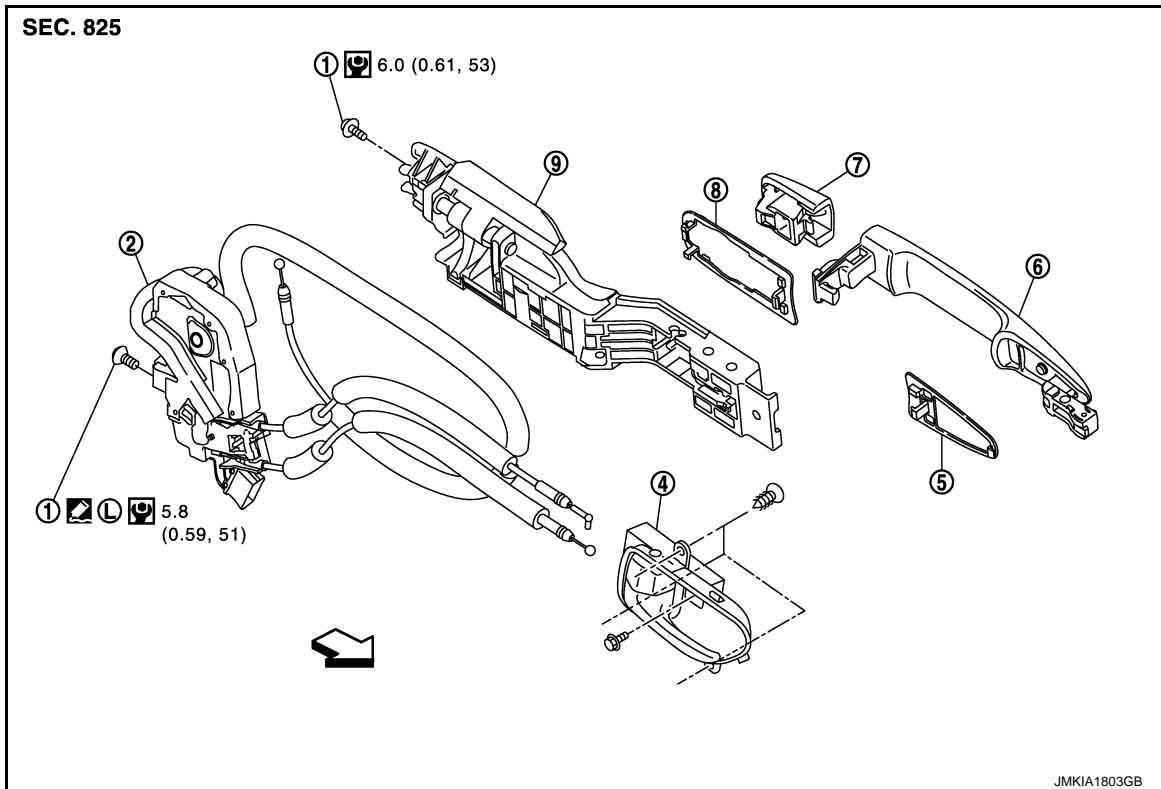
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REAR DOOR LOCK DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000009719263



- | | | |
|------------------------------|-----------------------|---------------------------|
| 1. TORX bolt | 2. Door lock assembly | 3. Inside handle cap |
| 4. Inside handle | 5. Front gasket | 6. Outside handle |
| 7. Outside handle escutcheon | 8. Rear gasket | 9. Outside handle bracket |

← : Vehicle front

: Apply genuine high strength thread locking sealant or equivalent.

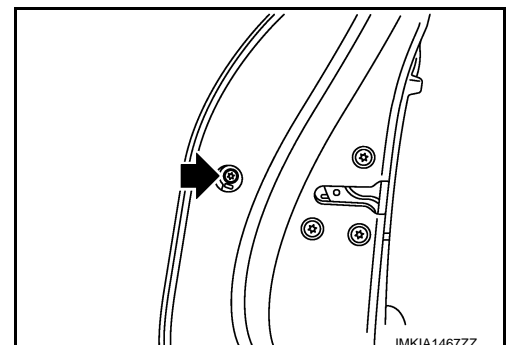
Refer to [GI-4, "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000009719264

REMOVAL

1. Fully close rear door glass.
2. Remove rear door finisher. Refer to [INT-17, "REAR DOOR FINISHER : Removal and Installation"](#).
3. Remove sealing screen. Refer to [GW-25, "Removal and Installation"](#).
4. Remove door side grommet, and loosen TORX bolt from grommet hole.

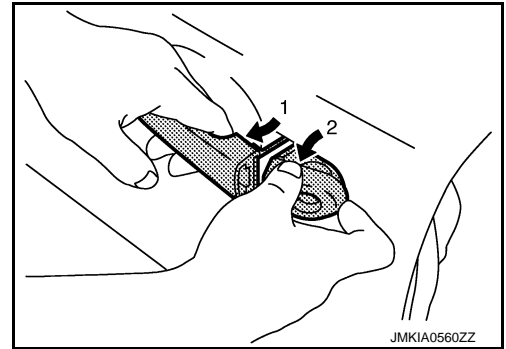


REAR DOOR LOCK

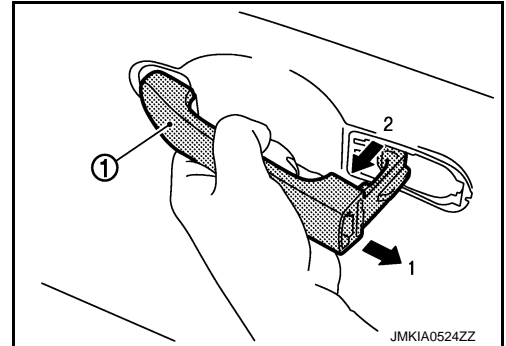
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

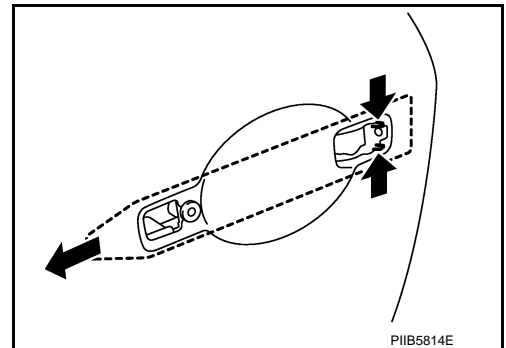
5. While pulling outside handle, remove outside handle escutcheon.



6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket and rear gasket.
8. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



9. Reach in to separate outside handle cable connection on outside handle bracket.
10. Disconnect harness connector from door lock actuator.
11. Remove door lock mounting bolts.
12. Remove door lock assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check door open/close, lock/unlock operation after installation.

INSIDE HANDLE

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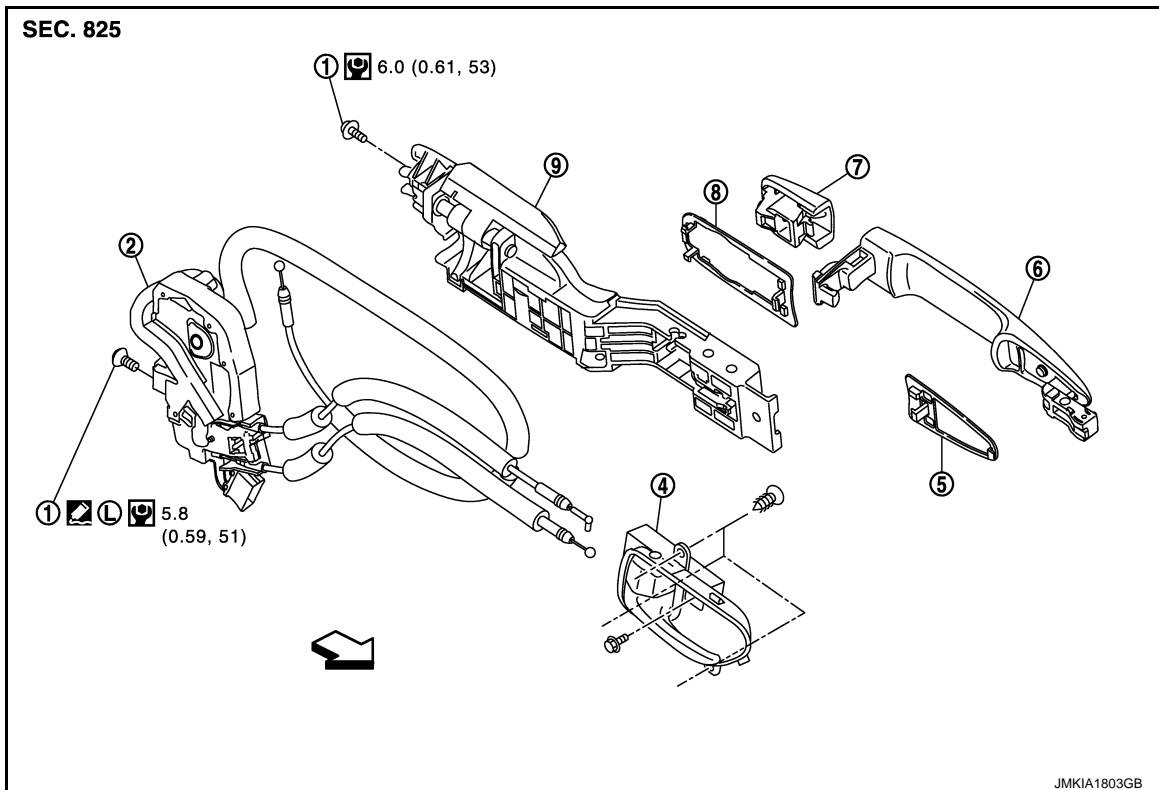
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INSIDE HANDLE : Exploded View

INFOID:000000009719265



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|------------------------------|-----------------------|---------------------------|
| 1. TORX bolt | 2. Door lock assembly | 3. Inside handle cap |
| 4. Inside handle | 5. Front gasket | 6. Outside handle |
| 7. Outside handle escutcheon | 8. Rear gasket | 9. Outside handle bracket |

← : Vehicle front

Ⓛ : Apply genuine high strength thread locking sealant or equivalent.

Refer to [GI-4. "Components"](#) for symbols in the figure.

INSIDE HANDLE : Removal and Installation

INFOID:000000009719266

REMOVAL

1. Remove rear door finisher. Refer to [INT-17. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Remove inside handle mounting screws.
3. Disconnect inside handle cable, and then remove inside handle.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check door open/close, lock/unlock operation after installation.

OUTSIDE HANDLE

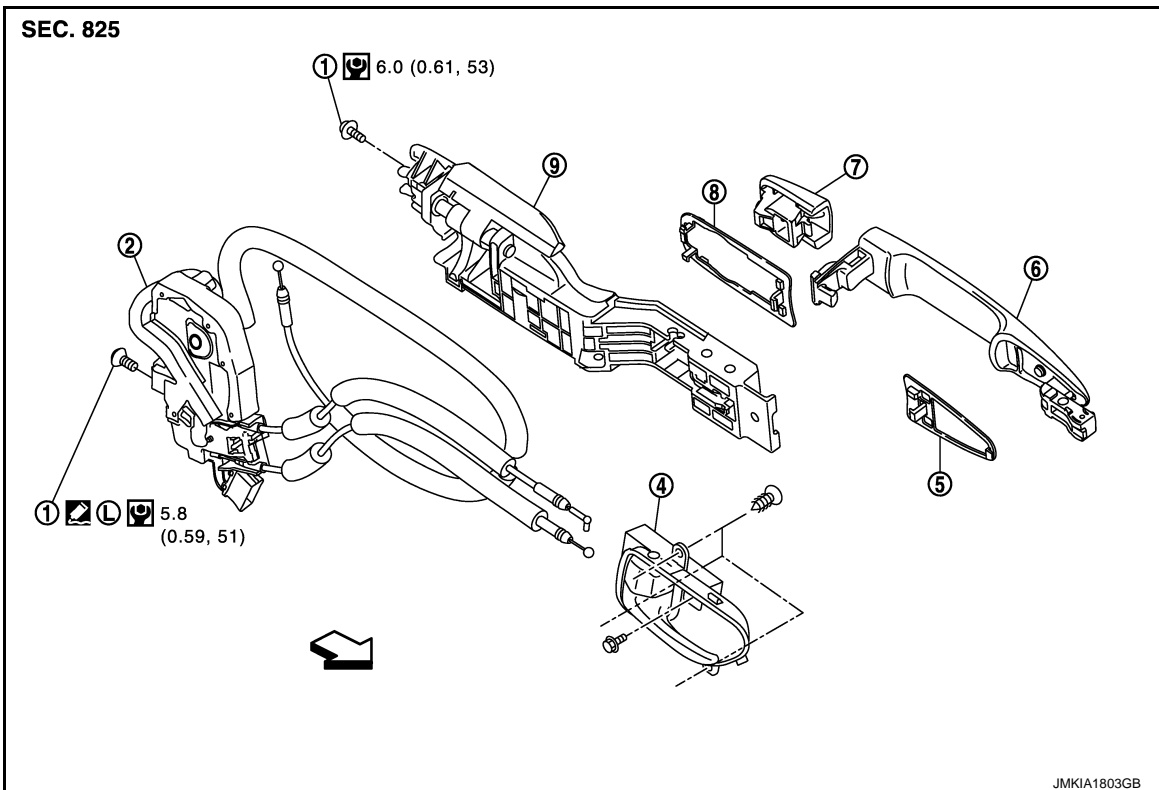
REAR DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE HANDLE : Exploded View

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|------------------------------|-----------------------|---------------------------|
| 1. TORX bolt | 2. Door lock assembly | 3. Inside handle cap |
| 4. Inside handle | 5. Front gasket | 6. Outside handle |
| 7. Outside handle escutcheon | 8. Rear gasket | 9. Outside handle bracket |

← : Vehicle front

: Apply genuine high strength thread locking sealant or equivalent.

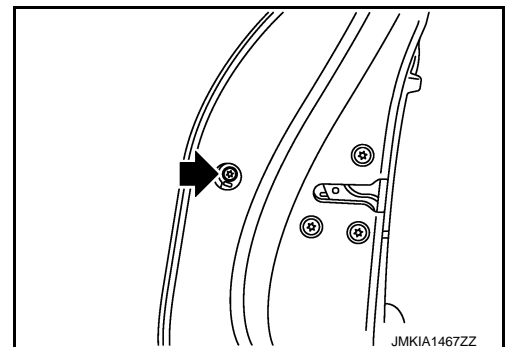
Refer to [GI-4. "Components"](#) for symbols in the figure.

OUTSIDE HANDLE : Removal and Installation

INFOID:000000009719268

REMOVAL

1. Remove rear door finisher. Refer to [INT-17. "REAR DOOR FINISHER : Removal and Installation"](#).
2. Fully close rear door glass.
3. Remove sealing screen. Refer to [GW-25. "Removal and Installation"](#).
4. Remove door side grommet, and loosen TORX bolt from grommet hole.



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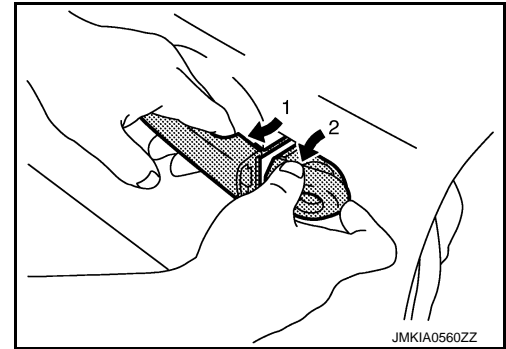
DLK

REAR DOOR LOCK

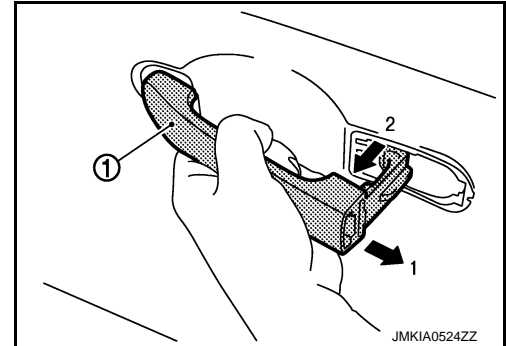
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

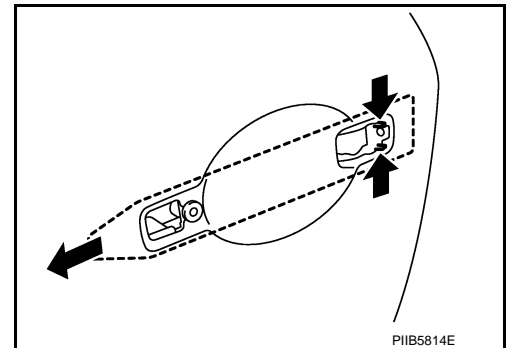
5. While pulling outside handle, remove outside handle escutcheon.



6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket and rear gasket.
8. While pulling outside handle bracket, slide toward rear of vehicle to remove outside handle bracket.



9. Reach in to separate outside handle cable connection on outside handle bracket.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Check door open/close, lock/unlock operation after installation.

BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

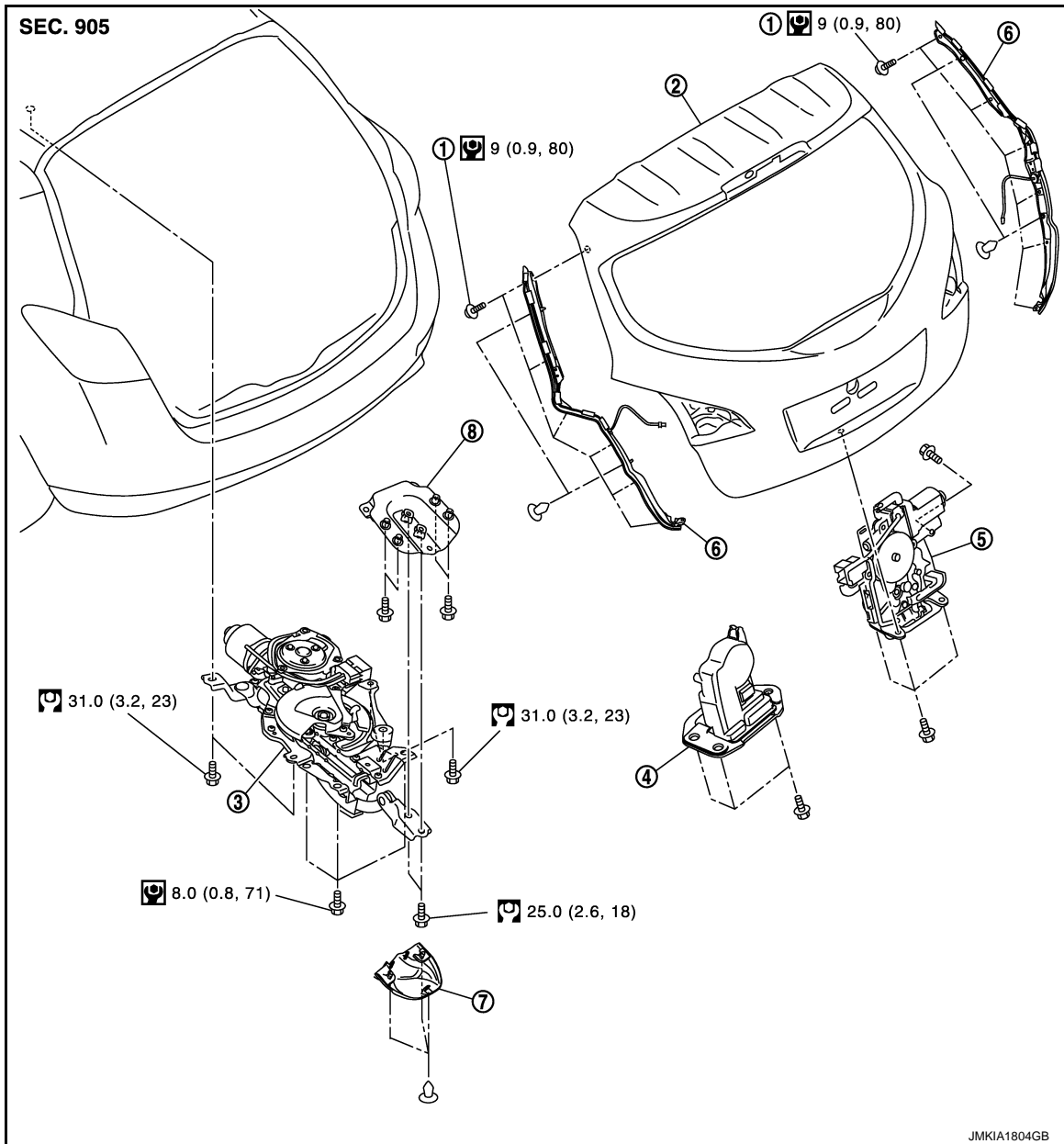
[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR LOCK

DOOR LOCK

DOOR LOCK : Exploded View

INFOID:000000009719269



- | | | |
|-------------------------------------|---|-----------------------------------|
| 1. TORX bolt | 2. Back door assembly | 3. Power back door drive assembly |
| 4. Back door lock assembly (normal) | 5. Back door lock assembly (super lock) | 6. Touch sensor (RH/LH) |
| 7. Cover | 8. Patch | |

Refer to [GI-4. "Components"](#) for symbols in the figure.

DOOR LOCK : Removal and Installation

INFOID:000000009719270

REMOVAL

1. Remove back door finisher inner. Refer to [INT-38. "Removal and Installation"](#).
2. Disconnect back door lock assembly and back door opener switch connectors.
3. Remove back door lock mounting bolts, and then remove back door lock assembly.

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BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INSTALLATION

Install in the reverse order of removal.

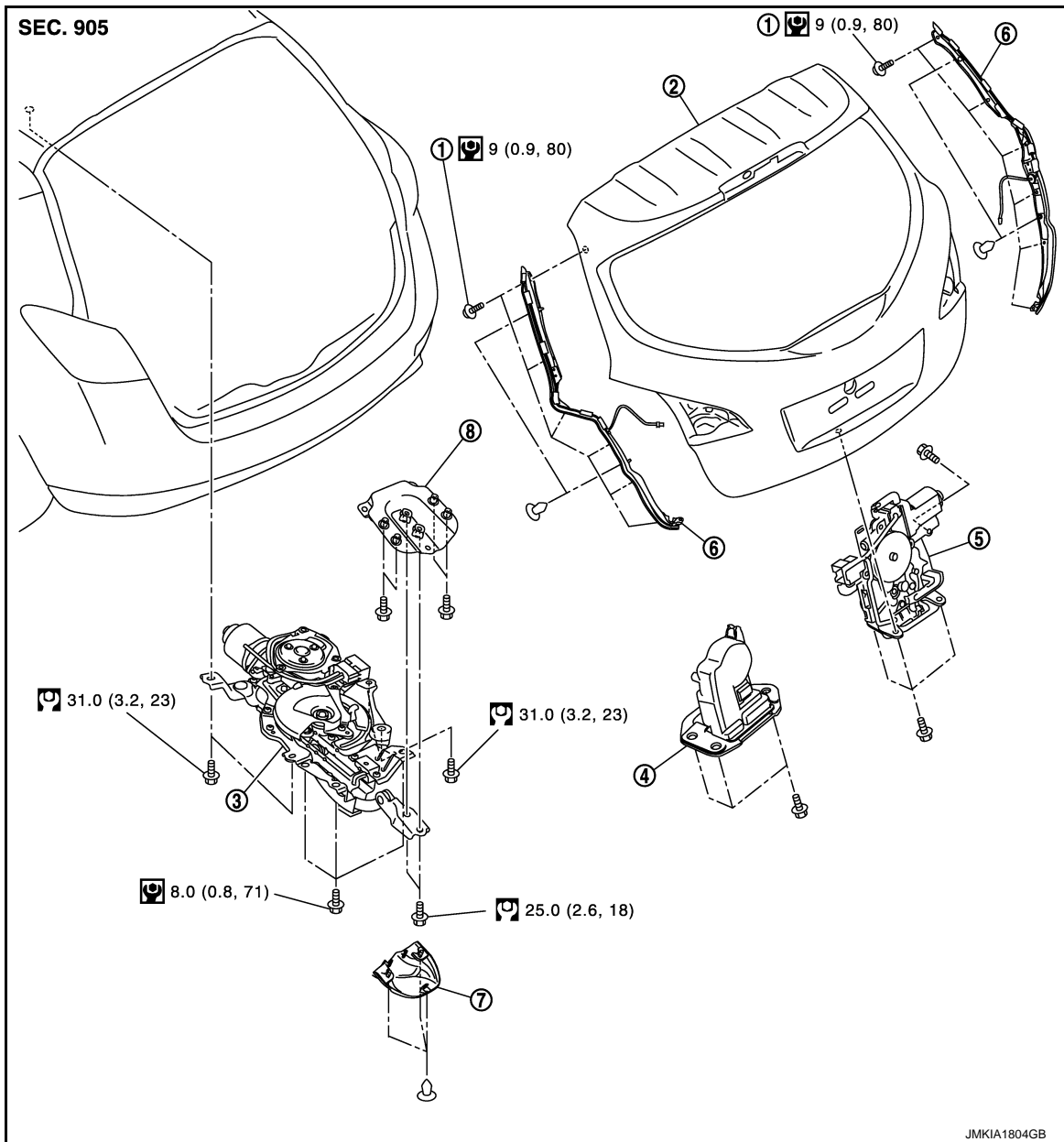
CAUTION:

Check back door open/close, lock/unlock operation after installation.

POWER BACK DOOR DRIVE ASSEMBLY

POWER BACK DOOR DRIVE ASSEMBLY : Exploded View

INFOID:000000009719271



- | | | |
|-------------------------------------|---|-----------------------------------|
| 1. TORX bolt | 2. Back door assembly | 3. Power back door drive assembly |
| 4. Back door lock assembly (normal) | 5. Back door lock assembly (super lock) | 6. Touch sensor (RH/LH) |
| 7. Cover | 8. Patch | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

POWER BACK DOOR DRIVE ASSEMBLY : Removal and Installation

INFOID:000000009719272

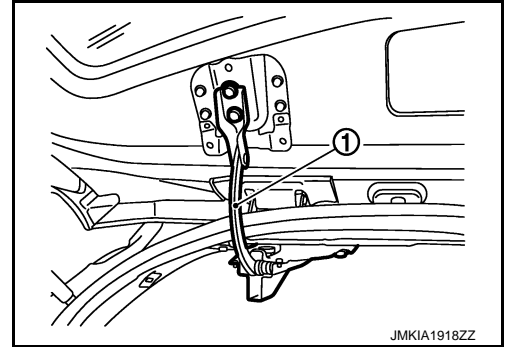
REMOVAL

BACK DOOR LOCK

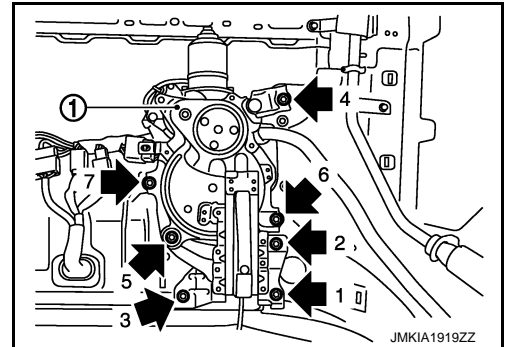
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

1. Remove headlining. Refer to [INT-26, "NORMAL ROOF : Removal and Installation"](#) (NORMAL ROOF), [INT-30, "SUNROOF : Removal and Installation"](#) (SUNROOF).
2. Disconnect power back door drive assembly connector.
3. Remove mounting bolts of power back door drive assembly (1) (back door side).



4. Remove mounting bolts of power back door drive assembly (1) (body side), and then remove power back door drive assembly.
CAUTION:
Remove the bolts of power back door drive assembly referring to figure.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Install the bolts of power back door drive assembly in the reverse order of removal.
- Check back door open/close operation after installation.

TOUCH SENSOR

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DLK

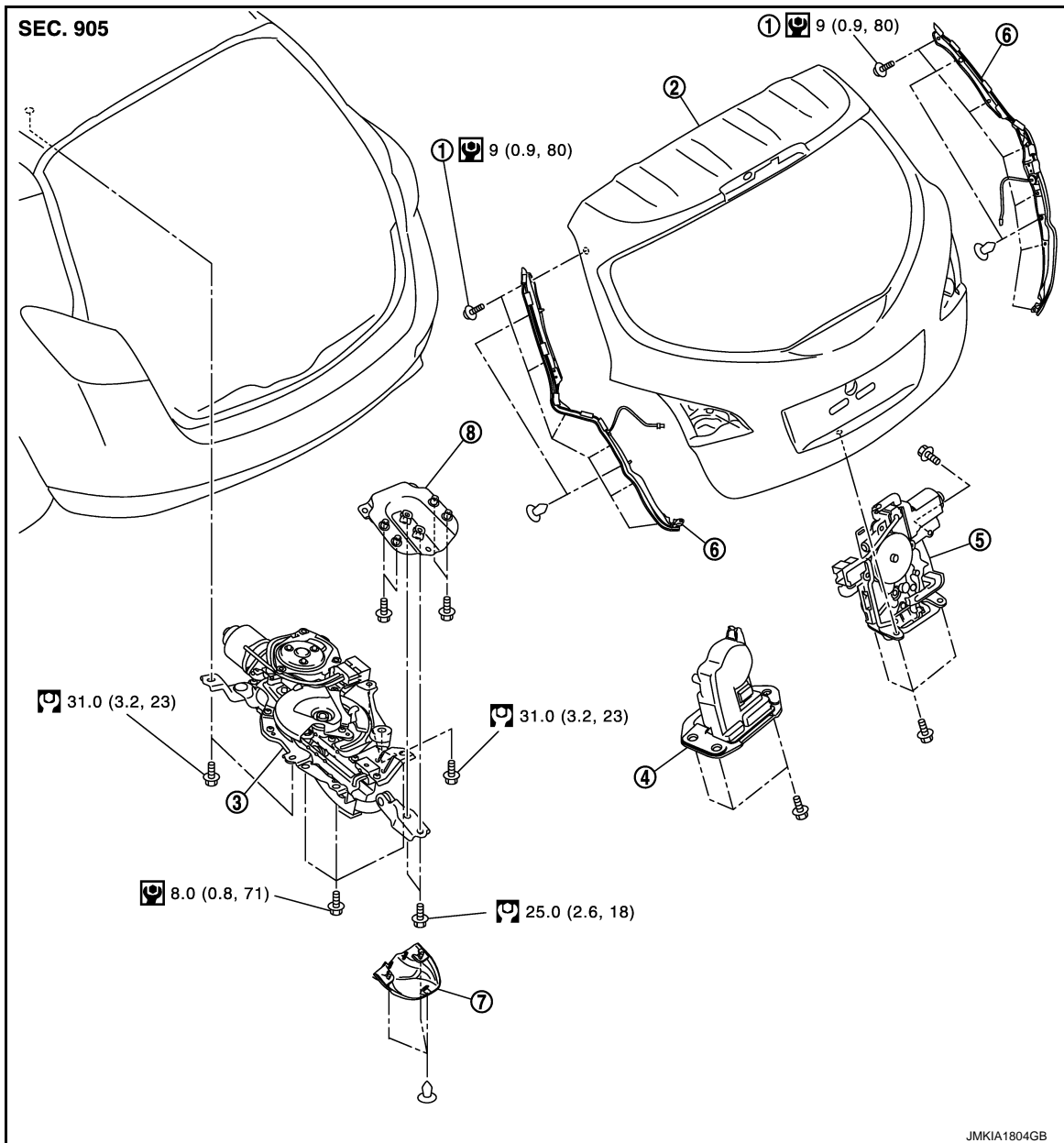
BACK DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

TOUCH SENSOR : Exploded View

INFOID:00000009719273



- | | | |
|-------------------------------------|---|-----------------------------------|
| 1. TORX bolt | 2. Back door assembly | 3. Power back door drive assembly |
| 4. Back door lock assembly (normal) | 5. Back door lock assembly (super lock) | 6. Touch sensor (RH/LH) |
| 7. Cover | 8. Patch | |

Refer to [GI-4, "Components"](#) for symbols in the figure.

TOUCH SENSOR : Removal and Installation

INFOID:00000009719274

CAUTION:

Take care not to bend touch sensor.

REMOVAL

1. Remove back door finisher inner. Refer to [INT-38, "Removal and Installation"](#).
2. Disconnect touch sensor connector.

BACK DOOR LOCK

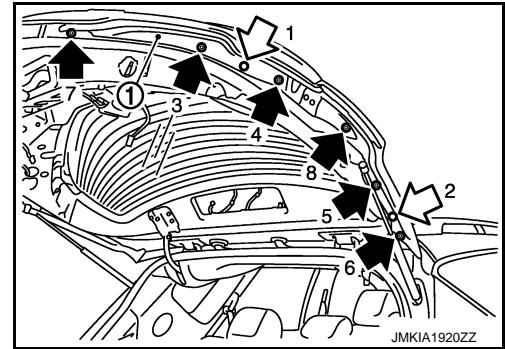
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

3. Remove clips and TORX bolts touch sensor (1).

CAUTION:

Remove the TORX bolts (black arrow) and clips (white arrow) of touch sensor referring to figure.



4. Pull harness of touch sensor out of back door and remove touch sensor.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Install the clips and TORX bolts of touch sensor in the reverse order of removal.
- Never place back door side seal between touch sensor.
- Check back door open/close operation after installation.

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DLK

FUEL FILLER LID OPENER

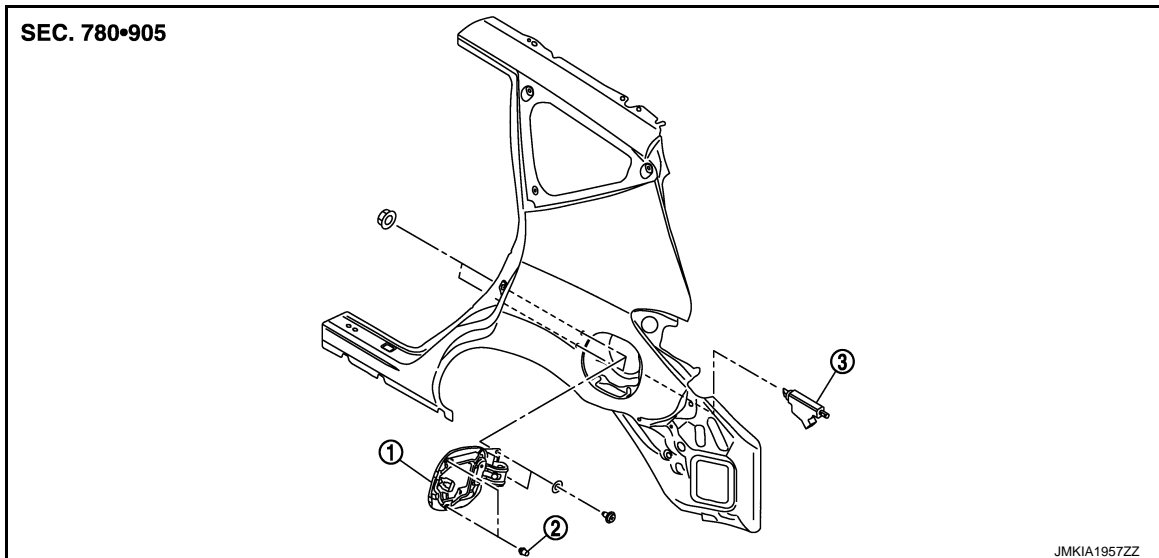
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

FUEL FILLER LID OPENER

Exploded View

INFOID:000000009719275



1. Fuel filler lid assembly

2. Bumper rubber

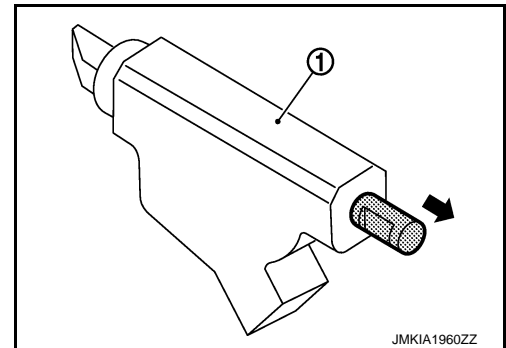
3. Fuel filler lid opener actuator

Removal and Installation

INFOID:000000009719276

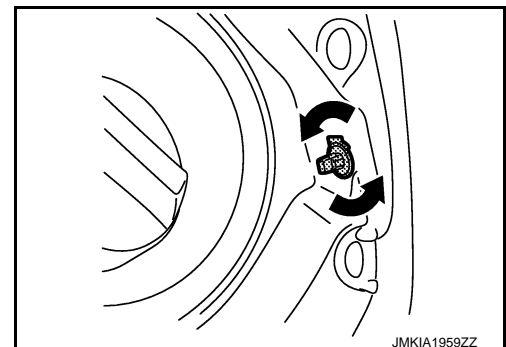
NOTE:

When fuel filler lid opener actuator is a defective operation, pull the rod to open fuel filler lid.



REMOVAL

1. Remove filler cap.
2. Remove mounting screws (A), and then remove fuel filler lid (1).
3. Remove luggage side finisher lower (LH). Refer to [INT-35, "Removal and Installation"](#).
4. Locate fuel filler lid opener actuator, and then remove the fuel filler lid opener actuator.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

After installation, apply the touch-up paint (the body color) onto the head of the mounting screws.

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DOOR SWITCH

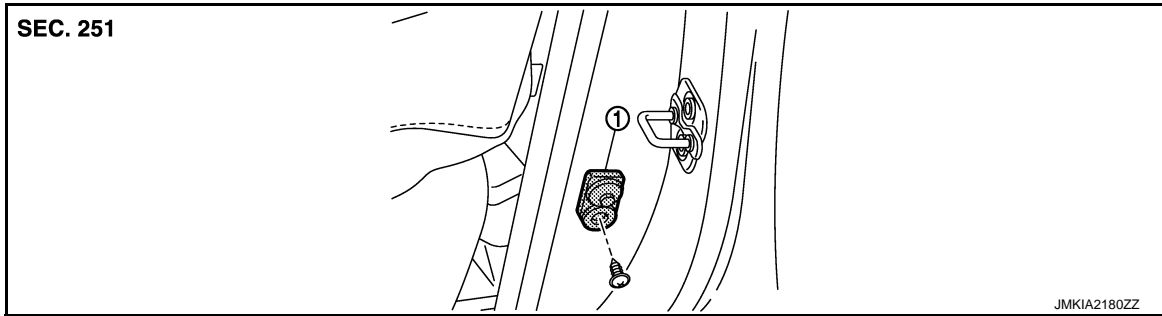
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR SWITCH

Exploded View

INFOID:000000009719277



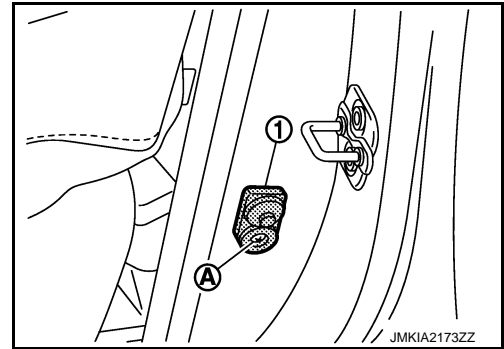
1. Door switch

Removal and Installation

INFOID:000000009719278

REMOVAL

1. Remove the door switch mounting bolt (A), and then remove door switch (1).



INSTALLATION

Install in the reverse order of removal.

INSIDE KEY ANTENNA

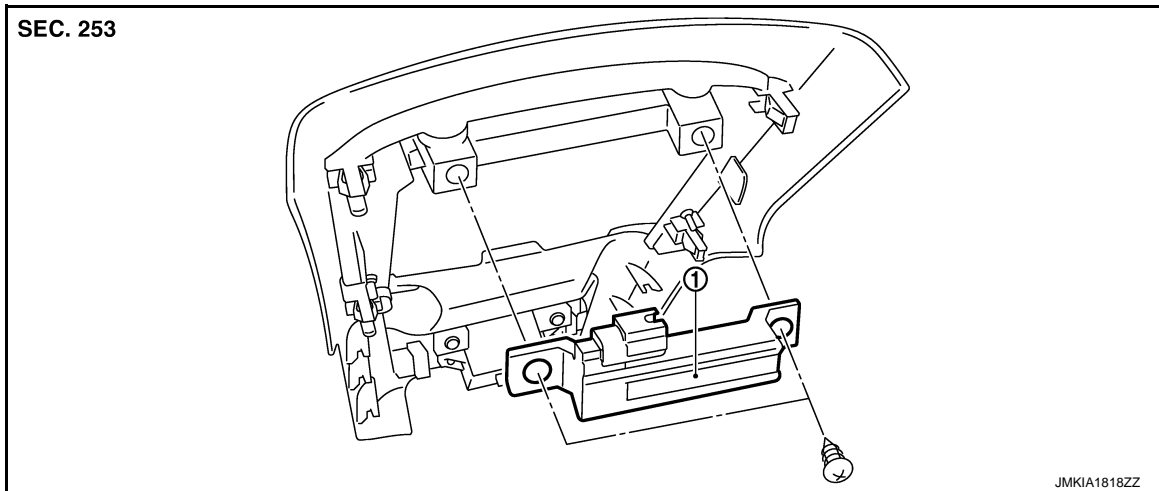
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INSIDE KEY ANTENNA CONSOLE

CONSOLE : Exploded View

INFOID:000000009719279



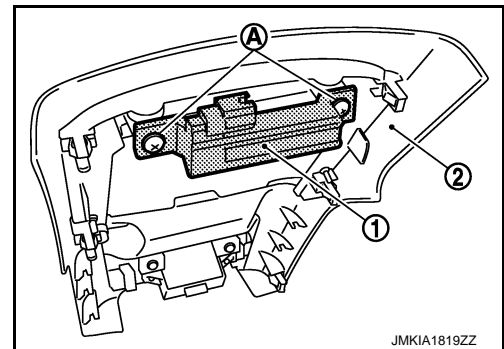
1. Inside key antenna (console)

CONSOLE : Removal and Installation

INFOID:000000009719280

REMOVAL

1. Remove the console pocket and rear finisher. Refer to [IP-23, "Removal and Installation"](#).
2. Remove the inside key antenna mounting screw (A), and then remove inside key antenna (console) (1) from console rear finisher (2).



INSTALLATION

Install in the reverse order of removal.

LUGGAGE ROOM

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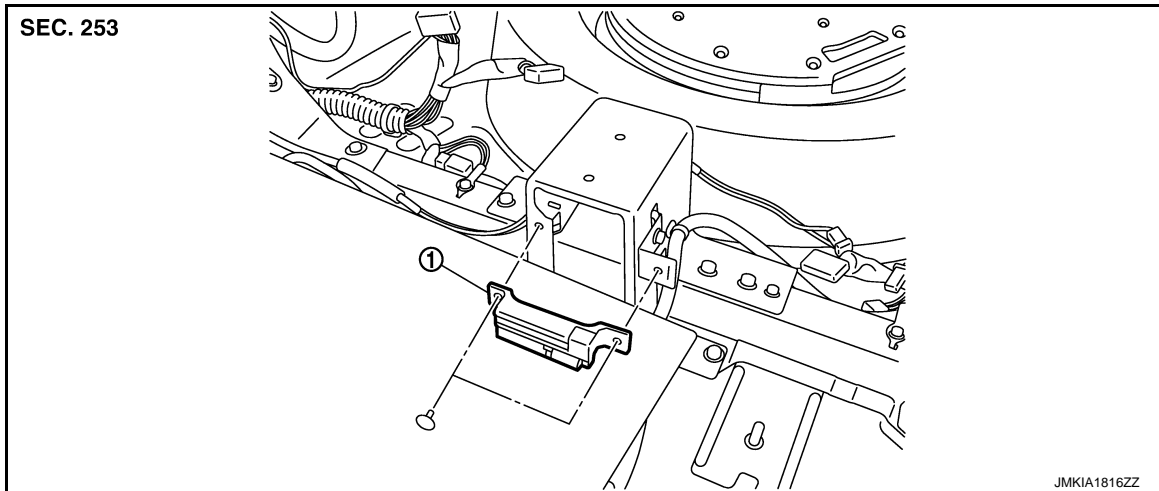
INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

LUGGAGE ROOM : Exploded View

INFOID:000000009719281



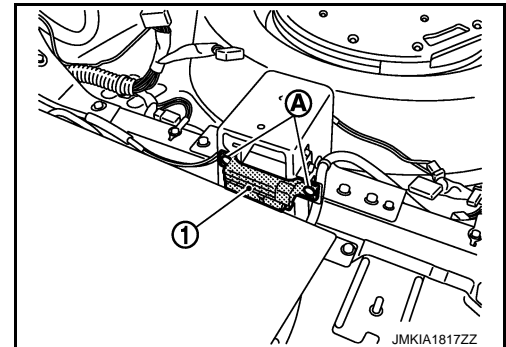
1. Inside key antenna (luggage room)

LUGGAGE ROOM : Removal and Installation

INFOID:000000009719282

REMOVAL

1. Remove the luggage floor finisher front. Refer to [INT-35. "Removal and Installation"](#).
2. Remove the inside key antenna (luggage room) mounting clip (A), and then remove inside key antenna (luggage room) (1).



INSTALLATION

Install in the reverse order of removal.

OUTSIDE KEY ANTENNA

[WITH INTELLIGENT KEY SYSTEM]

< REMOVAL AND INSTALLATION >

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Exploded View

INFOID:000000009719283

Refer to [DLK-320, "DOOR STRIKER : Exploded View"](#).

DRIVER SIDE : Removal and Installation

INFOID:000000009719284

REMOVAL

Remove the front outside handle LH. Refer to [DLK-344, "OUTSIDE HANDLE : Removal and Installation"](#).

INSTALLATION

Install in the reverse order of removal.

PASSENGER SIDE

PASSENGER SIDE : Exploded View

INFOID:000000009719285

Refer to [DLK-320, "DOOR STRIKER : Exploded View"](#).

PASSENGER SIDE : Removal and Installation

INFOID:000000009719286

REMOVAL

Remove the front outside handle RH. Refer to [DLK-344, "OUTSIDE HANDLE : Removal and Installation"](#).

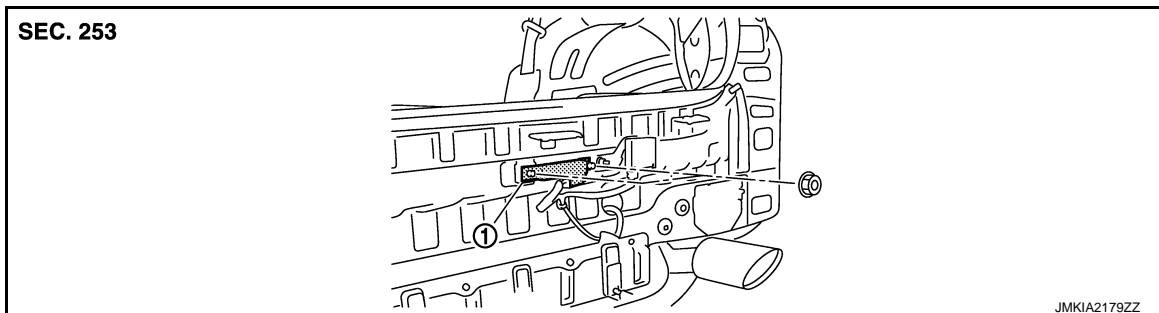
INSTALLATION

Install in the reverse order of removal.

REAR BUMPER

REAR BUMPER : Exploded View

INFOID:000000009719287



1. Outside key antenna (rear bumper)

REAR BUMPER : Removal and Installation

INFOID:000000009719288

REMOVAL

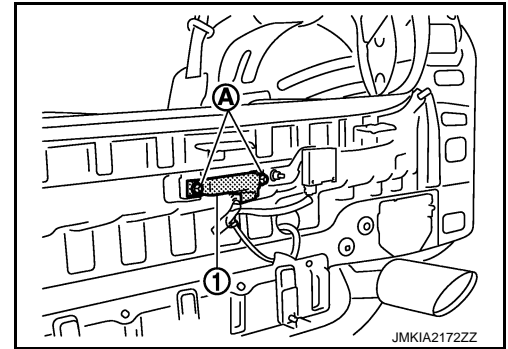
1. Remove the rear bumper. Refer to [EXT-18, "Removal and Installation"](#).

OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

2. Remove the outside key antenna (rear bumper) mounting nuts (A), and then remove outside key antenna (rear bumper) (1).



INSTALLATION

Install in the reverse order of removal.

INTELLIGENT KEY WARNING BUZZER

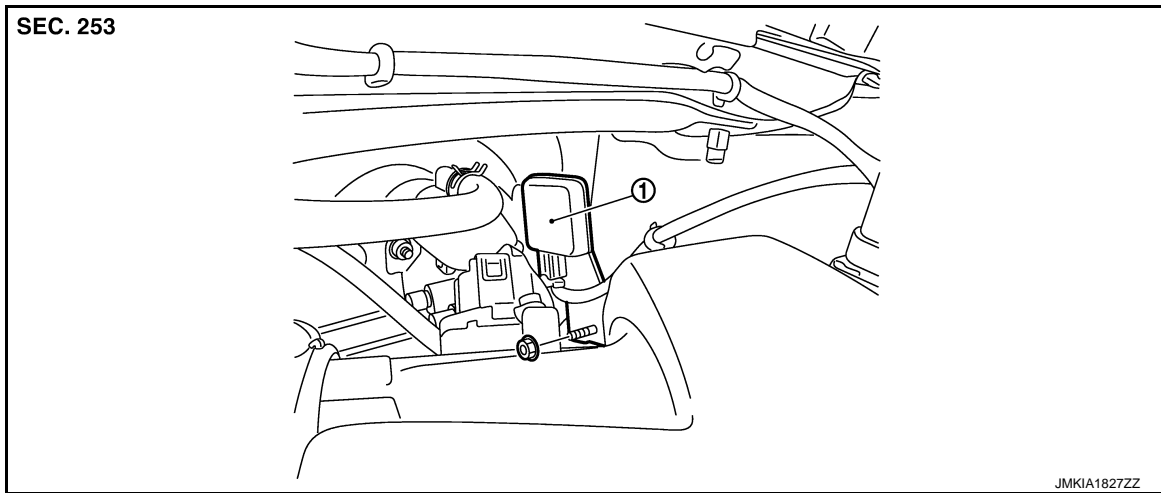
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY WARNING BUZZER

Exploded View

INFOID:000000009719289



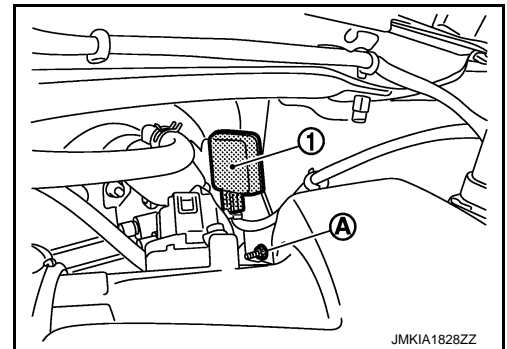
1. Intelligent Key warning buzzer

Removal and Installation

INFOID:000000009719290

REMOVAL

1. Remove the Intelligent Key warning buzzer mounting bolt (A), and then remove the Intelligent Key warning buzzer (1).



INSTALLATION

Install in the reverse order of removal.

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KEY SLOT

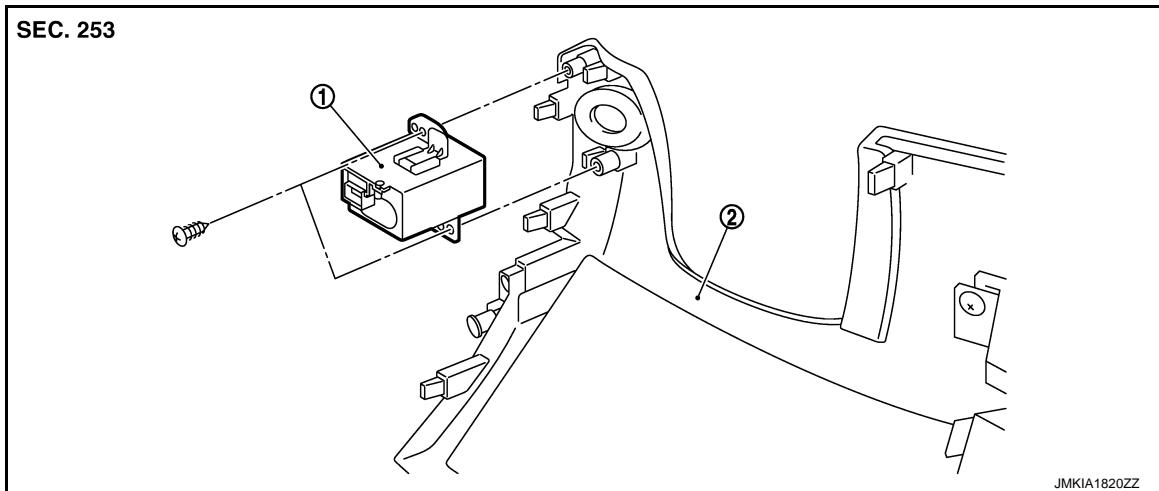
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

KEY SLOT

Exploded View

INFOID:000000009719291



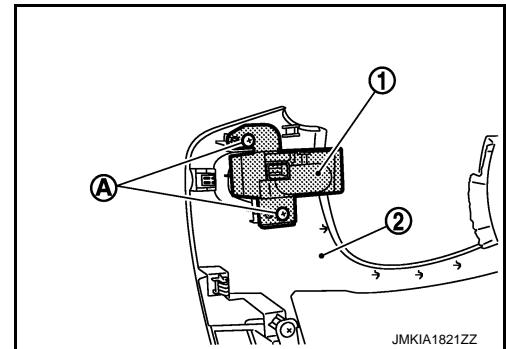
1. Key slot

Removal and Installation

INFOID:000000009719292

REMOVAL

1. Remove the instrument lower panel LH (2). Refer to [IP-15. "Removal and Installation"](#).
2. Disconnect key slot connector.
3. Remove the key slot mounting screw (A), and then remove key slot (1) from instrument lower panel LH (2).



INSTALLATION

Install in the reverse order of removal.

BACK DOOR OPENER SWITCH ASSEMBLY

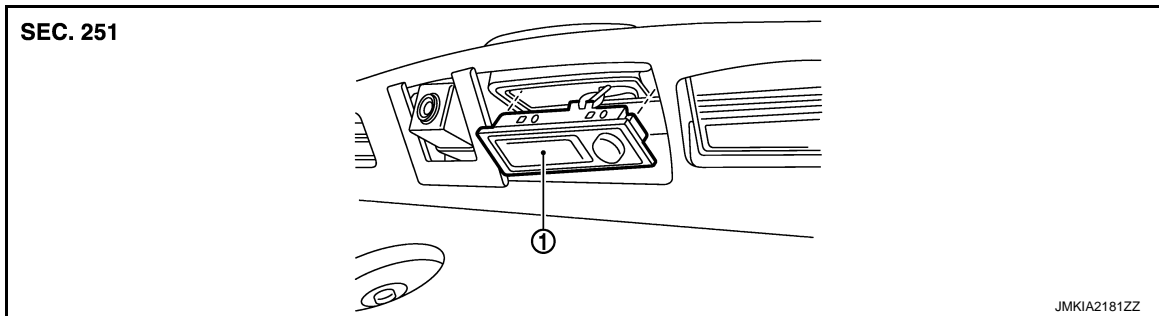
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

BACK DOOR OPENER SWITCH ASSEMBLY

Exploded View

INFOID:000000009719293



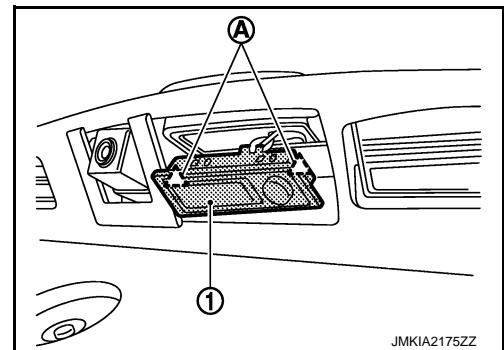
1. Back door opener switch assembly

Removal and Installation

INFOID:000000009719294

REMOVAL

1. Remove the back door finisher inner. Refer to [EXT-36. "Removal and Installation"](#).
2. Remove the back door opener switch assembly (1), and then remove pawl.



INSTALLATION

Install in the reverse order of removal.

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REMOTE KEYLESS ENTRY RECEIVER

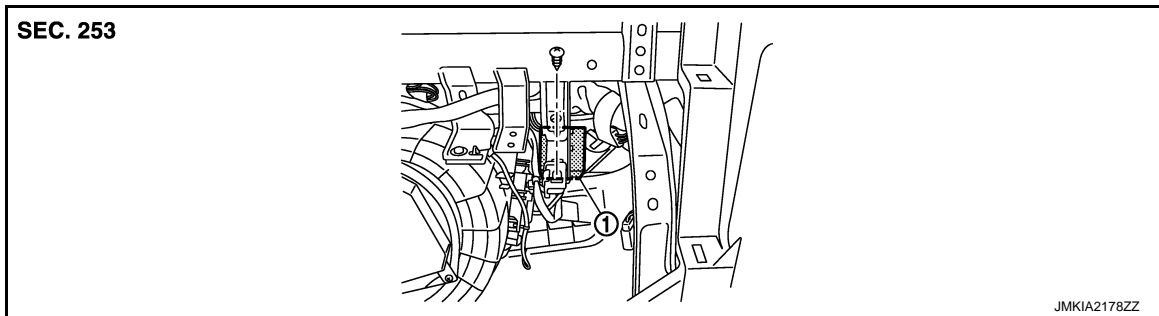
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY RECEIVER

Exploded View

INFOID:000000009719295



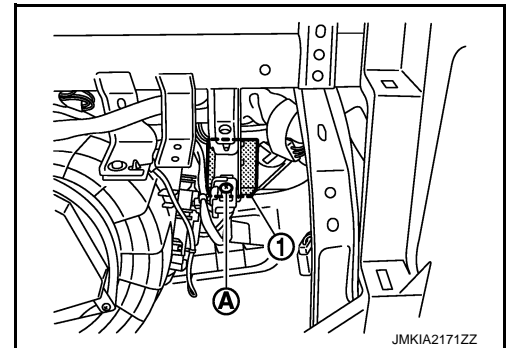
1. Remote keyless entry receiver

Removal and Installation

INFOID:000000009719296

REMOVAL

1. Remove the instrument lower panel RH. Refer to [IP-15. "Removal and Installation"](#).
2. Remove the remote keyless entry receiver mounting bolt (A), and then remove remote keyless entry receiver (1).



INSTALLATION

Install in the reverse order of removal.

INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY BATTERY

Removal and Installation

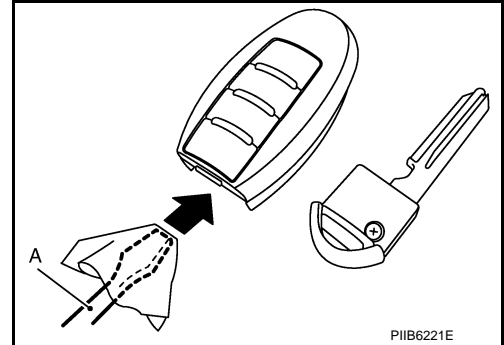
INFOID:000000009719297

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.

2. Insert a remover tool (A) wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.

CAUTION:

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



3. Replace the battery with new one.

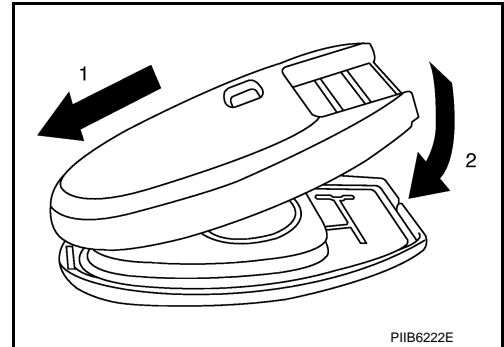
Battery replacement

:Coin-type lithium battery (CR2025)

4. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, check that all Intelligent Key functions work normally.



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AUTOMATIC BACK DOOR CONTROL UNIT

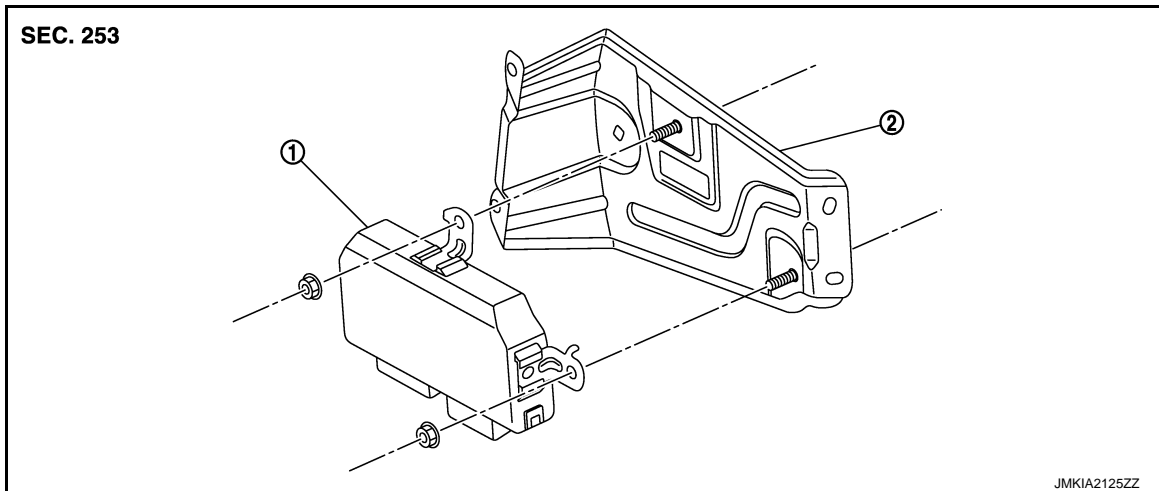
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR CONTROL UNIT

Exploded View

INFOID:000000009719298



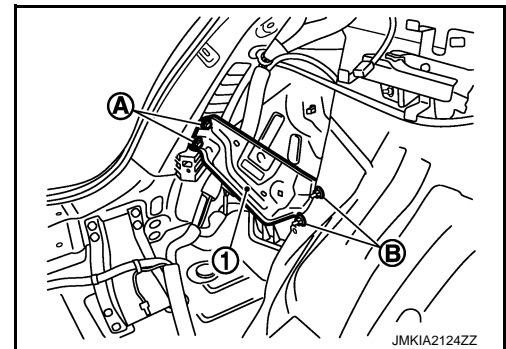
1. Automatic back door control unit
2. Automatic back door control unit bracket

Removal and Installation

INFOID:000000009719299

REMOVAL

1. Remove the luggage side finisher lower (RH). Refer to [INT-35. "Removal and Installation"](#).
2. Remove the automatic back door control unit bracket mounting bolt (A) and nuts (B), and then remove the automatic back door control unit bracket.



3. Remove the automatic back door control unit mounting bolt, and then remove the automatic back door control unit.

INSTALLATION

Install in the reverse order of removal.

NOTE:

After installing back door control unit, perform additional service when replace control unit. Refer to [DLK-13. "ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT : Special Repair Requirement"](#).

AUTOMATIC BACK DOOR WARNING BUZZER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR WARNING BUZZER

Exploded View

INFOID:000000009719300

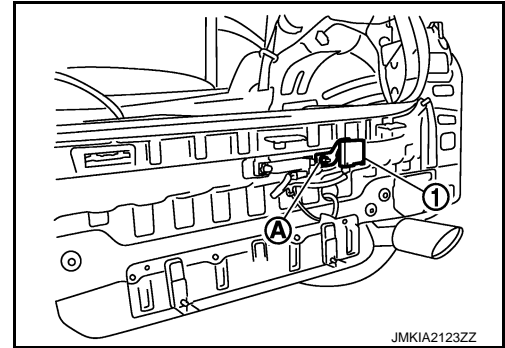
Refer to [EXT-18. "Exploded View"](#).

Removal and Installation

INFOID:000000009719301

REMOVAL

1. Remove the rear bumper. Refer to [EXT-18. "Removal and Installation"](#).
2. Remove the automatic back door warning buzzer mounting nut (A), and then remove the automatic back door warning buzzer (1).



INSTALLATION

Install in the reverse order of removal.

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DLK

AUTOMATIC BACK DOOR MAIN SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR MAIN SWITCH

Exploded View

INFOID:000000009719302

Refer to [IP-14. "Exploded View"](#).

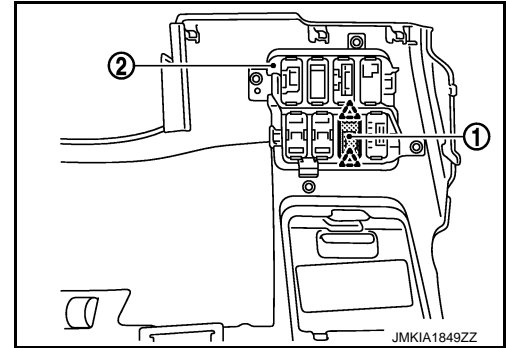
Removal and Installation

INFOID:000000009719303

REMOVAL

1. Remove the instrument driver lower panel LH. Refer to [IP-15. "Removal and Installation"](#).
2. Widen the pawl, and remove the automatic back door main switch (1) from switch bracket (2).

 Pawl



INSTALLATION

Install in the reverse order of removal.

AUTOMATIC BACK DOOR CLOSE SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR CLOSE SWITCH

Exploded View

INFOID:000000009719304

Refer to [INT-38, "Exploded View"](#).

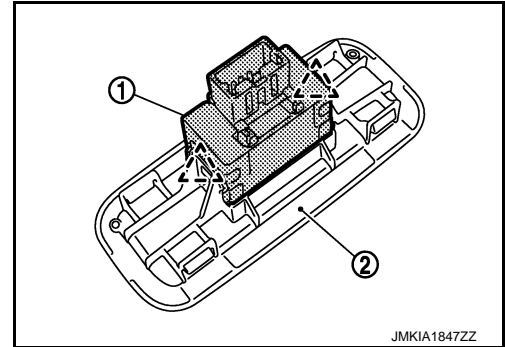
Removal and Installation

INFOID:000000009719305

REMOVAL

1. Remove the automatic back door close switch finisher. Refer to [INT-38, "Removal and Installation"](#).
2. Widen the pawl, and remove the automatic back door close switch (1) from automatic back door close switch finisher (2).

 Pawl



INSTALLATION

Install in the reverse order of removal.

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AUTOMATIC BACK DOOR SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

AUTOMATIC BACK DOOR SWITCH

Exploded View

INFOID:000000009719306

Refer to [IP-14, "Exploded View"](#).

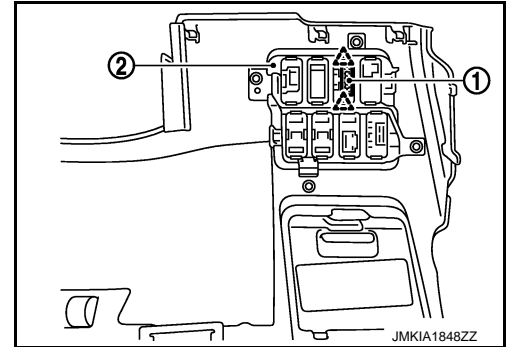
Removal and Installation

INFOID:000000009719307

REMOVAL

1. Remove the instrument driver lower panel. Refer to [IP-15, "Removal and Installation"](#).
2. Widen the pawl, and remove the automatic back door switch (1) from automatic back door switch finisher (2).

 Pawl



INSTALLATION

Install in the reverse order of removal.